Comprehensive Site Investigation Report / Remediation Objectives Report / Remedial Action Plan

LPC# 0316515061 / Cook County
Chicago / U.S. Steel South Works
8080 South DuSable Lake Shore Drive

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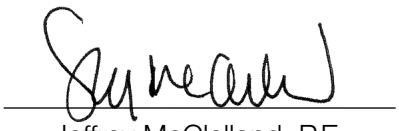

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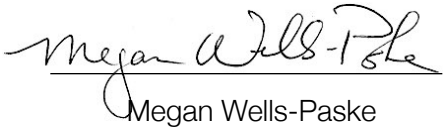

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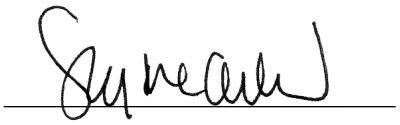
I attest that all site investigations or remedial activities, including review of laboratory data, that are the subject of this plan or report were reviewed and/or performed under my direction and this document and all attachments were reviewed and/or prepared under my direction or reviewed by me, and, to the best of my knowledge and belief, the work described in the plan or report has been designed or completed in accordance with the Act, 35 Ill. Adm. Code 740, and generally accepted engineering practices, and the information presented, including any qualified laboratory data is accurate and complete.

In addition, I affirm that the documentation of the prior investigations or remedial activities is suitable for use and consideration in evaluating site conditions in connection with this assessment.



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Pioneer Project Number

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EXECUTIVE SUMMARY

Pioneer Engineering & Environmental Services, LLC (Pioneer) was contracted by DLA Piper (Client) on behalf of RMW CRG Quantum Shore Ground Tenant LLC (Remediation Applicant) to provide environmental site closure services for the subject property/Remediation Site located at 8080 South DuSable Lake Shore Drive in Chicago (Cook County), Illinois. The Remediation Site, which consists of 440 acres of mostly vacant land associated with the larger former U.S. Steel South Works steel mill, is bisected by the North Vessel Slip, which historically served as a shipping canal to Lake Michigan. It is bordered to the south by the Calumet River and the southwest by the South Vessel Slip, another shipping canal formerly used by the steel mill. South DuSable Lake Shore Drive runs north-south through the western portion of the site, and East 87th Street runs east-west through the southern portion of the site. Refer to the attached Figure 1 for a Site Diagram. A 2017 Alta Land Title Survey of the subject property with current parcel designations is provided in Appendix A.

The Remediation Applicant acquired the subject property in September 2025 and plans to redevelop it as a technology corridor known as Quantum Shore Chicago. The first development phase, the Illinois Quantum and Microelectronics Park (IQMP), is a proposed 128-acre quantum computing technology campus located on the southern portion of the Remediation Site. Development of the IQMP is scheduled to start in the fall of 2025. The proposed development plan is provided in Appendix A.

The scope of environmental investigation services provided by Pioneer included: (1) a review of numerous historical documents and environmental assessment reports prepared by others; (2) performance of supplemental subsurface investigation activities to refresh the extensive prior testing data; (3) preparation of a Phase I Environmental Site Assessment (ESA); and (4) preparation of this Comprehensive Site Investigation Report/Remediation Objectives Report/Remedial Action Plan (CSIR/ROR/RAP).

Historical information indicates that the subject property was part of an approximately 600-acre steel manufacturing facility from 1880 until 1992, with U.S. Steel taking over operations in the early 1900s. At the commencement of operations in 1880, the Lake Michigan shoreline was located west of the present-day North Vessel Slip. However, between the 1880s and 1920s, steel slag was reportedly landfilled in low-lying areas to the west and in Lake Michigan to create new usable land for expanded operations. In 1993, a 567-acre portion of the South Works site, including the majority of the current subject property, was enrolled into the Illinois Environmental Protection Agency's (Illinois EPA's) Pre-Notice Program, a precursor to the current voluntary Site Remediation Program (SRP). In conjunction with facility decommissioning in the late 1980s and early 1990s, extensive environmental investigations and remedial activities were conducted to address impacts associated with the long-term facility operations. The Illinois EPA issued a comprehensive No Further Remediation (NFR) Letter for the 567-acre site in 1997 with no land use restrictions. Additionally, a separate 3.76-acre portion of the former South Works site and current subject property on Parcel D (former Parcel 22) was issued a comprehensive NFR Letter in 2010 with no land use restrictions. The Illinois EPA also issued comprehensive NFR Letters for the North and South Vessel Slips in 2008, which are not part of the current subject property.

Due to site conditions and regulatory updates since the issuance of the original NFR Letters, a new comprehensive NFR Letter(s) is being sought to support the site and planned redevelopment. The work

outlined herein is being voluntarily conducted to facilitate the eventual issuance of the new NFR Letter(s) in accordance with the current regulations of Title 35 of the Illinois Administrative Code Part 740 [(35 IAC 740) - SRP], and Part 742 [(35 IAC 742) - Tiered Approach to Corrective Action Objectives (TACO)]. The contents of this submittal are intended to satisfy the requirements of 35 IAC Part 740.425, 740.445, and 740.450. Copies of the SRP enrollment and review forms (DRM-1 & DRM-2) associated with this submittal are included in Appendix A.

Pioneer prepared a Phase I ESA for the subject property, dated May 28, 2024, which identified the following recognized environmental conditions (RECs) for the Remediation Site:

- The subject property was improved by a steel manufacturing facility from at least 1890 to the early 1990s and is documented as having extensive underground piping used to transport petroleum/ hazardous substances. Further, between the 1880s and 1922, steel slag was reportedly landfilled to expand the facility's acreage and relocate the shoreline of Lake Michigan to the east. Various past subsurface investigations completed for due diligence purposes from approximately 2004 to 2025 confirmed the presence of contamination on-site at levels above site-specific objectives (per the 1997 NFR Letter), current Tier 1 objectives, and/or the default soil attenuation capacity. Pioneer believes that the more-recently documented on-site contamination associated with the long-time heavy industrial use of the subject property as a steel manufacturing facility and on-site fill represents an REC to the subject property at this time.

- The northwest corner of the subject property (Parcel T) was improved by a gasoline filling station from at least the 1920s until the 1960s. This address is included on the Illinois Register of underground storage tanks (USTs) and the leaking UST (LUST) incident database (#970360). The associated USTs were removed in 1997; however, this LUST incident retains an "open" (i.e., unresolved) status. Pioneer believes that the unresolved status of this LUST incident and past use of Parcel T as a gasoline filling station represent an REC to the subject property at this time. (Note that these USTs are documented as being taken out of service prior to January 2, 1974 and are therefore exempt from the 35 IAC 734 regulations. The Remediation Applicant recently submitted the appropriate Pre-1974 UST Notification Form to satisfy the regulatory reporting requirements for the reported incident.)

Pioneer completed a supplemental investigation on various dates in August 2024 through March 2025 for updated site characterization and due diligence purposes that included 192 soil borings, 44 test pits, installation of 18 monitoring wells, and collection of 425 soil samples, 27 groundwater samples, and three soil gas samples for laboratory analysis. Two prior investigations conducted in 2007 by Conestoga-Rovers & Associates (CRA) and 2017 by GHD, which included the analysis of 168 soil samples, 24 groundwater samples, and 41 soil gas samples, were also utilized in the overall site closure approach herein.

The cumulative investigation activities conducted between 2007 and 2025 identified elevated concentrations of certain metals in soil, along with isolated and limited detections of a volatile organic compound (VOC), select semi-volatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs) exceeding applicable Tier 1 soil remediation objectives (SROs). Groundwater sample results showed vinyl chloride, benzene, and naphthalene (VOCs) above applicable Tier 1 groundwater remediation objectives (GROs) in only two monitoring wells. Additional findings included a single soil sample with polynuclear

aromatic hydrocarbons (PNAs) and extensive total petroleum hydrocarbon (TPH) exceedances of the default soil attenuation capacity, delineated into five hotspots. The cumulative impacts are attributable to the presence of slag fill, historical site operations, and demolition activities.

The proposed remedial approach combines conventional remediation at Hotspots 1 and 2, installation of a hybrid slurry wall encompassing Hotspots 3, 4, and 5 to prevent the potential migration of petroleum to surface waters, demonstration of impractical remediation in limited areas, and use of engineered (site-wide surface cap), institutional, and preventative controls to exclude all exposure routes under a Tier 3 evaluation in accordance with 35 IAC 742.925. The overall approach for managing contaminants identified at the Remediation Site is summarized in the following table.

Proposed Approach for Addressing Identified Exceedances

TCL Parameters	Applicable Tier 1 Exposure Routes							Default Soil Attenuation Capacity
	Soil Ingestion		Outdoor Inhalation		Indoor Inhalation	Class II Groundwater Ingestion		
	Industrial/ Commercial	Construction Worker	Industrial/ Commercial	Construction Worker	Industrial/ Commercial	Soil Component	Groundwater Component	
VOCs	--	--	--	--	--	Tier 3	Tier 3 / GWO	--
SVOCs (excluding PNAs)	--	--	--	--	--	Remediation / Tier 3	--	--
PNAs	Tier 3 / EB	Tier 3 / CWC	--	Tier 3 / CWC	--	Tier 3	Tier 3	Remediation
Pesticides	Tier 3 / EB	--	--	--	--	--	--	--
PCBs	Tier 3 / EB	Tier 3 / CWC	--	--	--	--	--	--
Inorganics	Tier 3 / EB	Tier 3 / CWC	Tier 3 / EB	Tier 3 / CWC	--	Tier 3	Tier 3	--
TPH	NA	NA	NA	NA	NA	NA	NA	Remediation / Tier 3

Notes: -- indicates the Tier 1 exposure route objectives were not exceeded
CWC = exclusion of the exposure route using a Construction Worker Caution
EB = exclusion of the exposure route using an Engineered Barrier
GWO = exclusion of the exposure route using a local GroundWater Ordinance that prohibits the use of groundwater

The cumulative investigation results and Part 742 regulatory framework support bypassing the requirements of Subpart C in favor of a Tier 3 exposure route evaluation, as explicitly permitted under 35 IAC 742.300(c). While TPH concentrations in soil exceed the default soil attenuation capacity, the cumulative evidence demonstrates that the residual hydrocarbons are highly weathered and immobile. The absence of free product in monitoring wells, lack of surface water sheens, and stable groundwater quality indicate that the hydrocarbons do not pose a significant risk of leaching or migration under existing conditions. The Tier 3 exclusion enables a remedy that reflects actual site conditions, protects human health and the environment, and avoids impractical measures that would otherwise further impede brownfield redevelopment.

The proposed remedy not only addresses current site conditions, but also significantly improves upon the limited protections afforded by the existing NFR Letters. The hybrid slurry wall, site-wide surface cap, and institutional controls explicitly mitigate pathways that were not addressed in prior closures. Collectively, these measures will render all potential pathways incomplete, meeting the substantive requirements of Part 742 while greatly exceeding the protections of the existing NFR Letters. Although Subpart C is bypassed, the closure approach is consistent with remedies frequently utilized for impacted sites in the Chicago area, where contamination is effectively managed in-place through engineered, institutional, and preventative controls.

The selected remedy also explicitly accounts for the safety and comfort of the surrounding community. By following the U.S. EPA's Greener Cleanups framework, the remedy minimizes the environmental footprint of

remediation by conserving resources, reducing greenhouse gas emissions, and limiting impacts to land, water, and ecosystems, while reducing noise, dust, and odors during construction when compared to other remedial options. Upon the completion of the conventional remediation, and installation of the hybrid slurry wall and surface cap, a Remedial Action Completion Report(s) will be submitted to the Illinois EPA to provide all documentation required by Section 740.455 and request issuance of a comprehensive NFR Letter(s).

This report has been prepared for the use of the Client and Remediation Applicant, and for evaluation by the Illinois EPA, and cannot be relied upon by other persons or entities without the permission of Pioneer. The observations and conclusions contained herein are limited by the scope and intent of the work mutually agreed upon by the Client and Pioneer and the work actually performed. There are no warranties, implied or expressed, concerning the environmental integrity of areas and/or mediums not analytically tested.

1.0 SITE INVESTIGATION REPORT – COMPREHENSIVE SITE INVESTIGATION

1.1 Introduction

Pioneer Engineering & Environmental Services, LLC (Pioneer) was contracted by DLA Piper (Client) on behalf of RMW CRG Quantum Shore Ground Tenant LLC (Remediation Applicant) to provide environmental site closure services for the subject property/Remediation Site located at 8080 South DuSable Lake Shore Drive in Chicago (Cook County), Illinois. The Remediation Site, which consists of 440 acres of land associated with the larger former U.S. Steel South Works steel mill, maintains a comprehensive No Further Remediation (NFR) Letter issued in 1997. Additionally, a separate 3.76-acre portion (formerly identified as Parcel 22) of the former South Works steel mill and current subject property also maintains a comprehensive NFR Letter issued in 2010. Refer to the attached Figure 1 for a Site Diagram. A 2017 Alta Land Title Survey of the subject property with current parcel designations is provided in Appendix A. (Note that the use of parcel designations herein refers to those specified in the 2017 survey, unless stated otherwise.)

The Remediation Applicant acquired the subject property in September 2025 and plans to redevelop it as a technology corridor known as Quantum Shore Chicago. The first development phase, the Illinois Quantum and Microelectronics Park (IQMP), is a proposed 128-acre quantum computing technology campus located on the southern portion of the Remediation Site. Development of the IQMP is scheduled to start in the fall of 2025. The proposed development plan is provided in Appendix A.

The scope of environmental investigation services provided by Pioneer included: (1) a review of numerous historical documents and environmental assessment reports prepared by others; (2) performance of supplemental subsurface investigation activities to refresh the extensive prior testing data; (3) preparation of a Phase I Environmental Site Assessment (ESA); and (4) preparation of this Comprehensive Site Investigation Report/Remediation Objectives Report/Remedial Action Plan (CSIR/ROR/RAP).

Due to site conditions and regulatory updates since the issuance of the original NFR Letters, a new comprehensive NFR Letter(s) is being sought to support the site and planned redevelopment. The work outlined herein is being voluntarily conducted to facilitate the eventual issuance of this new NFR Letter(s) in accordance with the current regulations of Title 35 of the Illinois Administrative Code Part 740 [(35 IAC 740) - SRP], and Part 742 [(35 IAC 742) - Tiered Approach to Corrective Action Objectives (TACO)]. The contents of this submittal are intended to satisfy the requirements of 35 IAC Part 740.425, 740.445, and 740.450. Copies of the SRP enrollment and review forms (DRM-1 & DRM-2) associated with this submittal are included in Appendix A.

1.2 Site Description

1.2.1 Physical Site Features

The 440-acre Remediation Site is located on the southeast side of Chicago within approximately 200 feet of Lake Michigan (at its closest location) and occupies a major portion of the former U.S. Steel South Works facility, which operated from the late 1800s to the early 1990s. The subject property is

bisected by the North Vessel Slip, which historically served as a shipping canal to Lake Michigan for the steel mill. It is bordered to the south by the Calumet River and the southwest by the South Vessel Slip, another shipping canal formerly used by the steel mill. South DuSable Lake Shore Drive runs north-south through the western portion of the site, and East 87th Street runs east-west through the southern portion of the site.

The Remediation Site comprises mostly vacant land with low-lying vegetation, mature and semi-mature trees, remnant asphalt and gravel roadways, and two large gravel pads constructed on the southern portion of the site in the early 2000s. Remnant concrete ore walls are also located along the North and South Vessel Slips, with a portion of the northern ore wall being converted for recreational rock climbing as part of the east-adjacent Steelworkers Park. While the majority of the Remediation Site is vacant, an approximately 2,000-square-foot single-story structure located at 8555 South Green Bay Avenue (eastern portion of Parcel D) serves as the on-site security office. A dilapidated velodrome bicycle track is also located on the southwestern portion of Parcel D.

It should be noted that direct visual observations (through numerous site visits for Pioneer's investigations) and a review of aerial photographs did not reveal evidence of illegal dumping at any point following the 1997 NFR Letter. The subject property has remained vacant, fenced, and secure.

The topography of the Remediation Site is relatively level, with surface elevations generally ranging from approximately 10 to 20 feet Chicago City Datum (CCD). However, various low-lying areas on the site's southern portion and a linear ridge located on the northern portion result in a total relief of roughly 25 feet. The Remediation Site is separated from the vessel slips by steel sheet piling, and from the Calumet River by (from west) steel gabion baskets, large stone blocks, and a cement wall, with the ground surface elevated approximately 10 to 15 feet above the adjacent surface waters located at approximately 0 feet CCD. Refer to Appendix B for a USGS topographic map and a recent topographic survey of the subject property.

1.2.2 Regional Geology/Hydrogeology

The following table provides a summary of published geological conditions according to Illinois State Geological Survey (ISGS) maps. Copies of the ISGS maps are provided in Appendix B.

Table 1-1 ISGS Map Summary

ISGS Map	Geological Description	
Surficial Geology of the Chicago Region	m:	man-made fill; areas formerly covered by Lake Michigan
	ec:	(Parcels D, G & 26) Carmi Member of Equality Formation (largely quiet-water lake sediments; dominantly well-bedded silt, locally laminated and containing thin beds of clay; local lenses of sand and sandy gravel along beaches) (note: site investigations indicate the presence of shallow slag fill)

ISGS Map	Geological Description
Stack-Unit Mapping of Geological Materials in Illinois to a Depth of 15 Meters	X(5): man-made land overlying discontinuous Silurian and some Devonian bedrock, mainly dolomite (g)(f)l(5): (Parcels D, G & 26) discontinuous Dolton Member of Equality Formation (<20 ft), overlying discontinuous Carmi Member of the Equality Formation (<20 ft), overlying silty and clayey diamictons of the Wedron Formation (>20 ft), overlying discontinuous Silurian and some Devonian bedrock, mainly dolomite
Plate 1, Potential for Contamination of Shallow Aquifers in Illinois	A5: permeable bedrock generally within 20 feet of land surface; overlying materials variable but mostly till (note: site investigations indicate bedrock is present at 21-80 ft below surface grade) B1: (Parcels D, G & 26) sand and gravel less than 20 feet thick overlying relatively impermeable till or bedrock

Based on an interpretation of the general topography of the Remediation Site and surrounding area, regional groundwater is expected to flow primarily in an easterly direction toward Lake Michigan and the Calumet River. However, flow direction varies locally due to geologic heterogeneity, subsurface structures, and proximity to surface water. Site-specific hydrogeology is discussed further in Section 1.4.6.

1.2.3 Current and Former Uses of the Remediation Site

The Remediation Site is predominantly undeveloped land and is within a planned development district (zoned PD1599, pursuant to City of Chicago Ordinance #SO2024-0012887, dated December 11, 2024). While the majority of the site is vacant with overgrown vegetation, a single-story structure located on Parcel D at 8555 South Green Bay Avenue serves as the on-site security office. Historical records indicate that the Remediation Site is largely made land created through the deposition of steel slag into Lake Michigan and adjacent low-lying areas, a process associated with the expansion of the U.S. Steel South Works steel mill. The site supported heavy industrial operations for over a century until the mill ceased operations in the 1990s.

1.2.4 Current Uses of the Adjacent Sites

The following table provides a summary of current and surrounding land uses.

Table 1-2 Current Uses of the Surrounding Sites

Direction	Adjoining Property	Surrounding Sites	Current Zoning Designation
North	Vacant, former South Works	Rainbow Beach, Lake Michigan, E. 79th St., S. DuSable Lake Shore Dr.	M3-3 = Manufacturing District POS-1 = Parks & Open Space
East	Vacant, former South Works (north) Steelworkers Park (south)	Lake Michigan	M3-3 = Manufacturing District POS-1 = Parks & Open Space
South	Army Corps of Eng. (southeast) Calumet River	Illinois International Port District (3600 E. 95th St.) North America Stevedoring Co. (9301 S. Kreiter Ave.)	M3-3 = Manufacturing District PMD-6 = Planned Manufacturing
West	Public rights-of-way, public alleyways	Primarily residential plus auto-body repair, manufacturing and parks	RS-2 & RT-4 = Residential Districts M1-1 Manufacturing District

An aerial photograph of the Remediation Site and vicinity is included as the attached Figure 1, and a zoning map is provided in Appendix B.

1.2.5 Legal Description of the Remediation Site

The Remediation Site legal description and property index numbers are included in the Alta Land Title Survey documents provided in Appendix A.

1.2.6 Prior Environmental Activities

Pioneer reviewed numerous documents associated with the subject property pertaining to historical assessments, subsurface investigations, risk assessments, remediation activities, and Illinois EPA correspondence and NFR determinations. This section summarizes more than 30 key documents dated from 1992 to 2025 that form the basis for the current site closure approach. Any documents cited herein that are not currently available on the Illinois EPA Document Explorer have been included with this submission under separate cover, as noted.

Summary of Site History

Historical information indicates that the subject property was part of an approximately 600-acre steel manufacturing ("South Works") facility from 1880 until 1992, with U.S. Steel taking over operations in the early 1900s. At the commencement of operations in 1880, the Lake Michigan shoreline was located west of the present-day North Vessel Slip. However, between the 1880s and 1920s, steel slag was reportedly landfilled in low-lying areas to the west and in Lake Michigan to create new usable land for expanded operations.

Historical maps, including the 1890 Rascher's Atlas, show early steel-related structures such as engine rooms, boiler houses, and furnace houses primarily on Parcels E, G, 16a, 16b, 17, and 25a. By 1897, the facility had expanded to include blast furnaces, ore and coal dumps, various machine and repair shops, a plate mill, oil and gas facilities, and other supporting industrial infrastructure. Crude oil tanks were also located in the west-central and south-central portions of the site. At that time, Parcel D was occupied by the Chicago Lake Shore and Eastern Railway Car Shops, which included facilities such as a boiler shop, blacksmith shop, and brass foundry.

Between 1923 and 1951, a gasoline station was present on Parcel T in the far northwest corner of the site, adjacent to the South Works facility. As a note, underground storage tanks (USTs) were removed and a leaking UST incident (#970360) was reported for this former gasoline station in 1997. The Remediation Applicant recently submitted the required Pre-1974 UST Notification Form to the Illinois EPA in order to provide the required documentation and satisfy the regulatory requirements for the reported incident.

While detailed Fire Insurance Maps are unavailable for most of the property between 1913 and the early 1970s, an aerial photograph from 1938 shows a major integrated steel plant. The subject property, collectively labeled as "United States Steel Corporation," was depicted on the 1975 Fire Insurance Map with numerous mill and smelter buildings, ore pits and bunkers, boiler and transformer buildings, crane

systems, a roundhouse with a rail turntable, and over 40 storage tanks (containing fuel oil or unlabeled). Much of the site was occupied by tracks and rail infrastructure.

The subject property remained an operating steel mill until 1992 and the majority of the on-site structures were demolished by 1993, with the site remaining largely vacant since that time. Two relatively large gravel pads were installed on Parcel 17 by 2003; however, no related structures were constructed. A velodrome was constructed on Parcel D by 2011 and South DuSable Lake Shore Drive was reconfigured by 2014, bringing the subject property to its general present-day configuration. (Note that the two gravel pads were constructed by Solo Cup for a planned manufacturing facility at that time. The work included geotechnical investigations, removal of shallow subsurface infrastructure, dynamic compaction, and construction of the pads. However, Solo Cup reportedly abandoned the project for business reasons unrelated to site conditions.)

In 1993, a 567-acre portion of the South Works site, including the majority of the current subject property, was enrolled into the Illinois EPA's Pre-Notice Program, a precursor to the current voluntary SRP. In conjunction with facility decommissioning in the late 1980s and early 1990s, extensive environmental investigations and remedial activities were conducted to address impacts associated with the long-term facility operations. The Illinois EPA issued a comprehensive NFR Letter for the 567-acre site in 1997 with no land use restrictions. Additionally, a separate 3.76-acre portion of the former South Works site and current subject property on Parcel D (former Parcel 22) was issued a comprehensive NFR Letter in 2010 with no land use restrictions. The Illinois EPA also issued comprehensive NFR Letters for the North and South Vessel Slips in 2008, which are not part of the current subject property. Various investigations were subsequently conducted at the subject property from the early 2000s to 2017 for due diligence purposes by prospective developers.

Summaries of Key Historical Documents obtained from the Illinois EPA Document Explorer and/or U.S. Steel

- Environmental Assessment of the Former South Works Plant, dated February 1992, prepared by Waste Technology, Inc. (WTI)

  WTI conducted this investigation in 1992 and 1993 in order to evaluate soil and groundwater conditions. The following investigation activities were conducted as part of the assessment:

  - advancement of 26 soil borings and collection of 46 surface soil samples and 35 subsurface soil samples for analysis;
  - installation of 17 monitoring wells and collection of 17 groundwater samples for analysis;
  - collection of 10 sediment samples from sewers and pits, and two wipe samples from transformer pads;
  - inventory of USTs, aboveground storage tanks (ASTs), drums, smaller containers, and railroad ties; and

- verification of former locations and quantities of polychlorinated biphenyl (PCB)-containing transformers and capacitors.

The following contaminants were detected at concentrations above applicable objectives at that time: certain inorganics (cadmium, cyanide, mercury, lead, selenium, silver), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), PCBs, total petroleum hydrocarbons (TPH), as well as characteristically hazardous concentrations of cadmium and lead in soil; and lead, TPH and certain VOCs in groundwater.

- Phase II Environmental Site Assessment (ESA) of the Former South Works Plant, dated September 1993, prepared by WTI

WTI conducted this investigation in 1993 in order to further evaluate contaminant conditions identified in its initial assessment. The following investigation activities were conducted as part of the assessment:

- collection of 12 surface soil samples and 11 groundwater samples from existing monitoring wells;
- collection of 19 sediment samples from one “thickener,” 12 manholes, and four pits; and
- excavation of 32 test trenches.

The following contaminants were detected at concentrations above applicable objectives at that time: certain inorganics (cadmium, cyanide, chromium, lead, mercury, silver), VOCs, SVOCs, TPH, and phenolics in soil; and lead, TPH, and certain VOCs in groundwater.

- Phase III ESA of the Former South Works Plant, dated September 1994, prepared by WTI

WTI conducted this investigation in 1993 in order to further evaluate contaminant conditions identified in its previous assessments. The following investigation activities were conducted as part of the assessment:

- advancement of 23 soil borings and collection of 48 soil samples for analysis;
- installation of three deep monitoring wells (between 45 and 67 feet below grade), and collection of 20 groundwater samples from new and existing wells; and
- collection of five sediment samples from the vessel slips for analysis.

The following contaminants were detected at concentrations above applicable objectives at that time: certain inorganics (antimony, arsenic, beryllium, cadmium, manganese, vanadium) and TPH in soil; and certain inorganics (cadmium, iron, manganese, lead, phenolics, sulfate) in groundwater.

- Illinois EPA Class II Groundwater Letter, dated January 10, 1995 (copy provided in Appendix D)

  The Illinois EPA issued this letter recommending a Class II groundwater classification for groundwater at the site located within the slag fill material and the upper 10 feet of parent material located below the fill.

- Human Health Risk Assessment (HHRA) for the South Works Site, dated August 25, 1995, prepared by ChemRisk

  The purpose of the HHRA was to evaluate potential human health effects of the identified "contaminants of interest" (COIs), based on the results of the prior three investigations in comparison to the U.S. EPA Region III Risk-Based Concentrations (RBCs) for residential sites at that time. Those constituents that were detected at levels above the RBCs and background values were classified as COIs, which included antimony, beryllium, cadmium, lead, manganese, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene. Site-specific remedial goals (RGs) were calculated for each COI and reportedly only beryllium and lead exceeded the most stringent RGs for residential property.

- Remediation Activities at the South Works Site, dated September 4, 1996, prepared by WTI

  This report served as a Remedial Action Completion Report and provided documentation for various remedial activities associated with the decommissioning and demolition of the South Works facility.

  - Sediment removal and off-site disposal from the following areas:
    - north lift station;
    - north vessel slip basins;
    - south vessel slip oil/water separator and sewers;
    - K061 hazardous waste (emission control dust/sludge) in sewers;
    - structural mill area and continuous plate mill pits; and
    - cooling tower sump.
  - Blast furnace area fuel oil spill — TPH-impacted soil was excavated and transported for off-site disposal
  - Dorr thickener area — sampling indicated that no remedial action was necessary
  - Storage tanks — six USTs were removed on July 12, 1995 with reportedly no associated contamination identified; 107 ASTs were removed
  - 55-gallon drums and small containers — off-site disposal of drums and containers occurred annually from 1992 to 1996

- Stockpiled railroad ties — approximately 33,100 railroad ties were removed from stockpiles and transported for off-site disposal from 1994 to 1995; approximately 259,950 pounds of railroad ties were removed from the rail yard south of the truck scale and transported for off-site disposal

- PCB transformers and capacitors — 48 transformers were transported off-site from 1993 to 1996; 458 capacitors and approximately 500 pounds of small capacitors were transported off-site from 1992 to 1996

- PCB contaminated soil — approximately 192,000 gallons of oil and 528 tons of impacted soil were transported for off-site disposal from 1993 to 1995

- Electric furnace dust — "K061" (hazardous) electric furnace dust was removed from the No. 4 Electric Furnace building using vacuum trucks and transported for off-site disposal

- Marias Industries, Inc. burn areas — approximately 75 tons of soil from areas where railroad ties were burned were excavated and transported for off-site disposal

- Asbestos — approximately 4,960 cubic yards of asbestos-containing material (ACM) were removed from the site and transported for off-site disposal from 1993 to 1995

- Miscellaneous actions including removal and off-site disposal of the following:

    - flammable liquids;
    - batteries and battery acid;
    - oil/fuel mixed with water;
    - treatment plant sludge;
    - sulfuric acid;
    - blast furnace gas pipelines; and
    - lime spills.

- PCB Supplement to the Remediation Activities Report for the South Works Site, dated October 28, 1996, prepared by WTI

  This report documented the remediation of PCBs in the area of No. 1 Powerhouse Substations 2A and 103. Substation 2A reportedly only required solvent washing of the concrete and did not generate soil requiring off-site disposal. The remediated concrete and liquids generated during the solvent washing were transported for off-site disposal. A total of approximately 135 tons of PCB-impacted concrete were generated from Substation 103 and transported for off-site disposal. Residual PCB concentrations at Substation 103 were less than 10 mg/kg.

- Illinois EPA Comprehensive NFR Letter (for the South Works Site), dated July 31, 1997

  The Illinois EPA issued a comprehensive NFR Letter for the 567-acre South Works site based on site-specific RGs proposed in the 1995 ChemRisk HHRA and specifically referencing the Remediation Activities [Report] and PCB Supplement to the Remediation Activities Report. The NFR Letter did not include any land use restrictions, or preventative or engineering controls, but did include an institutional control prohibiting the installation or use of groundwater wells for potable purposes. An additional term specified the following: "All materials containing PCBs, asbestos, or other regulated substances encountered during the demolition of the No. 5 Powerhouse and other remaining structures must be properly handled, disposed, and remediated according to all applicable State and Federal Regulations." As a note, this larger 567-acre site included the majority of the current subject property, with the exception of Parcels T and 26.

- Environmental Review and Limited Site Characterization (Solo Cup Site), dated December 14, 1999, prepared by STS Consultants Ltd. (STS) (included under separate cover)

  STS conducted a review of prior investigations and conducted a limited investigation for due diligence purposes. The investigation included over 100 test pits and soil borings in the southern portion of the site (Parcel 17) to investigate the following: (1) geophysical anomalies indicative of potential pipelines; (2) prior findings suggestive of potential petroleum contamination; (3) perceived data gaps; and/or (4) geotechnical conditions. Additionally, STS also conducted monitoring for hydrogen sulfide from seven test pits using Draeger Tubes.

  The excavations identified field evidence of petroleum contamination in two test pits (TP-1 & TP-2) at the northern end of the former Machine Shop, in one boring (PMT-3) just south of the former Foundry, and in six test pits throughout the southeast corner of the site. STS estimated that the extent of petroleum impacts in the southeast corner covered approximately 8.5 acres with a thickness of 2 to 3 feet. The hydrogen sulfide monitoring did not reveal any concentrations greater than 0.004 parts per million (ppm).

- TPH Remediation South Works Site, dated December 19, 2000, prepared by WTI

  The 1999 STS investigation documented petroleum contamination in three areas in Parcel 17: TP-1/TP-2 (former Machine Shop); PMT-3 (south of former Foundry); and an 8.5-acre area in the southeast corner of the site adjacent to the Calumet River. The impacts identified in areas TP-1/TP-2 and PMT-3 were reportedly limited to a thickness of 6 inches at or above the water table between 10 to 12 feet below surface grade (BSG), with one area in PMT-3 exhibiting an impacted thickness of 5 feet near an 8-inch pipeline. The 8-inch pipeline reportedly contained a black, tar-like substance and extended to a former basement located in the southeast corner of the site. A total of approximately 818 tons of impacted material were removed and transported for off-site disposal from the areas of TP-1/TP-2 and PMT-3. Additionally, approximately 2,115 feet of the 8-inch pipeline were removed as part of the remediation activities, as well as "oily material" found in the basement (which has since been backfilled). Post-excavation confirmation samples reportedly determined that residual TPH concentrations were below the default soil attenuation capacity of 2,000 mg/kg.

The petroleum encountered in the southeast corner of the site was characterized as Bunker C fuel oil that was suspected of originating from the 8-inch pipeline. This document also implies that a bioremediation system was used to remediate the petroleum impacts in the southeast corner of the site. Based on an April 17, 2000 letter to the Illinois EPA from U.S. Steel, it appears that injection wells were installed and began operation at that time. However, Pioneer has not identified any other documents directly referencing the bioremediation.

- CERCLA Preliminary Assessment for Vessel Slips at the United States Steel Works Site, dated August 2001, prepared by the Illinois EPA

  In response to community members petitioning the U.S. EPA, the Illinois EPA conducted sediment sampling of the North and South Vessel Slips, the Calumet River, and Lake Michigan in areas adjacent to the subject property. A total of 36 sediment samples were collected and analyzed, the results of which revealed "significantly elevated" concentrations of certain metals from all sample areas, as well as visual and olfactory evidence of petroleum contamination.

- No. 5 Powerhouse Demolition, dated 2003, prepared by United States Steel Corporation

  As required by the 1997 NFR Letter, demolition of the No. 5 Powerhouse and supporting buildings on Parcel E was completed from 2001 to 2003. Prior to demolition, material recovery activities were performed to remove asbestos, PCBs, and other materials (e.g., flammable liquids and mercury-containing devices).

- Due Diligence Testing of the South Works Site, reportedly conducted by Conestoga-Rovers & Associates (CRA) in 2004 (documentation not available for review)

  Various documents reviewed by Pioneer referred to site-wide testing conducted by CRA in 2004 on behalf of Southworks Development, LLC, a prospective developer of the subject property at that time. Apparently, a total of 591 surface soil samples were analyzed for lead only, and an additional 14 surface samples were analyzed for a suite of parameters including lead. The analytical results reportedly identified lead in 20 samples at concentrations above the site-specific RG of 932 mg/kg. It is unknown if any other impacts were identified as part of this investigation. (Note that Pioneer was provided CRA monitoring well construction diagrams dated 2004 and presumably associated with this investigation, as well as slug test reports from 2005 for several of these wells, both of which are discussed subsequently herein.)

- Illinois EPA [Comfort] Letter, dated June 27, 2005

  The Illinois EPA issued a letter addressed to Southworks Development, LLC and United States Steel Corporation regarding a request to confirm the validity of the 1997 NFR Letter prior to prospective redevelopment. The Illinois EPA reviewed the NFR Letter (including the 1995 HHRA) and indicated that the remedial objectives originally established for the site continue to be protective of human health and the environment.

- Evaluation of Investigation Data Memorandum, dated March 8, 2006, prepared by URS (included under separate cover)

  Historical railroad operations on former Parcel 22 (part of present-day Parcel D) resulted in diesel fuel contamination of underlying soils, which was reportedly remediated in 2004. At that time, it was determined that diesel fuel may have migrated north of the Parcel 22 property line onto the adjacent East 86th Street right-of-way. In 2005, a two-phase investigation was conducted on that right-of-way and certain vacant residential lots. The first phase included 30 soil borings, with 14 soil samples analyzed for VOCs, SVOCs, and TPH (diesel range organics [DRO] only). The second phase was performed to delineate the impacts identified in the first phase and included soil testing at 30 proposed locations and six groundwater samples analyzed for VOCs, SVOCs, and TPH-DRO.

  Results indicated that certain SVOCs were present in soil and groundwater at concentrations above the most stringent Tier 1 objectives at that time; the affected exposure route included soil migration to groundwater. TPH was also detected in 12 soil samples at concentrations above the default soil attenuation capacity for subsurface soil, ranging from 2,700 mg/kg to 75,000 mg/kg. Most TPH impacts were limited to East 86th Street, although two impacts were identified on vacant residential lots. The memorandum concluded that the off-site TPH impacts were delineated and that residual contamination did not pose adverse risks to human health or the environment because no complete exposure pathways to subsurface soil or groundwater were present.

- US Route 41 Preliminary Site Investigation, dated July 6, 2006, prepared by Ecology and Environment

  This report, which was prepared on behalf of the Illinois Department of Transportation, documented an investigation conducted along the proposed US Route 41 realignment through the site. The investigation identified certain PNAs and metals in soil at concentrations above the applicable Tier 1 objectives, while no contaminants were reportedly detected in groundwater at concentrations above applicable Tier 1 objectives.

- Illinois EPA [Comfort] Letter, dated April 12, 2007

  The Illinois EPA issued a letter addressed to the Illinois Department of Transportation regarding a request to confirm the validity of the 1997 NFR Letter in conjunction with the relocation of US 41 through a portion of the subject property. The Illinois EPA reviewed the NFR Letter (including the 1995 HHRA) and indicated that the remedial objectives originally established for the site continue to be protective of human health and the environment.

- Draft Memorandum: PAH Area Summary of Findings, dated November 15, 2007, prepared by CRA (included under separate cover)

  This memorandum submitted to Westrum Development, a member of Southworks Development, LLC, summarized the delineation of elevated levels of PAHs (i.e., PNAs) identified in three areas on the northern portion of the subject property (Parcels A and B). It is not certain when these elevated PNAs were initially identified, but delineation was conducted through two phases of sampling in 2007 that

included a total of 221 soil samples collected for analysis. Based on the results of the delineation, CRA estimated that up to 95,000 cubic yards of soil would require excavation and off-site disposal to address the PNA impacts. (Note that when the current Chicago background concentrations of PNAs are considered, only limited, marginal impacts remain, with no concentrations above the soil attenuation capacity in these areas.)

- Draft Phase I ESA for Parcel 17, dated December 2007, prepared by CRA (included under separate cover)

  The Draft Phase I ESA, which was prepared on behalf of Southworks Development LLC for Parcel 17, identified the following recognized environmental conditions (RECs):

  - the former U.S. Steel northern and southern parcels and historical operations; despite the various remedial activities and 1997 NFR Letter, contaminant concentrations exceeded the Tier 1 objectives (at that time) and site-specific RGs established in 1995 HHRA and embraced by the NFR Letter;
  - on-site petroleum-impacted soil;
  - potential orphaned USTs;
  - on-site fill material containing slag and demolition debris;
  - current (at that time) and historical railroad operations;
  - western adjacent property (automotive facility; located approximately 40 feet west of present-day Parcel G);
  - western adjacent property (former dry cleaner in 1928; located approximately 140 feet south of present-day Parcel G]); and
  - western adjacent property (rail yard; former Parcel 22, present-day Parcel D).

- Lead Remediation Area Delineation and Remediation Completion Report (Lead ≥ 1,500 mg/kg, dated January 24, 2008, prepared by WTI (included under separate cover), and

- Lead Remediation Area Delineation and Remediation Completion Report for Lead Areas Greater Than or Equal To 932 mg/kg, but Less Than 1,500 mg/kg, dated January 2008, prepared by CRA (included under separate cover)

  The results of the 2004 due diligence testing conducted by CRA identified a total of 20 areas on the approximate northern half of the subject property with lead concentrations above the site-specific RG of 932 mg/kg. Based on an operating agreement at that time between Southworks Development, LLC and Chicago Lakeside Development, LLC, the latter entity was responsible for delineating and remediating lead concentrations greater than 1,500 mg/kg (at eight of the 20 areas), while the former entity was responsible for delineating and remediating lead concentrations greater than 932 mg/kg, but less than 1,500 mg/kg (at the 12 remaining areas). These materials were excavated and sieved

through a vibratory screen. Materials that passed through the screen were less than 1-inch in diameter and transported for off-site disposal; materials greater than 1-inch in diameter remained on-site. A total of approximately 397 tons of soils less than 1-inch in diameter were transported for off-site disposal from the eight areas where lead had been identified above 1,500 mg/kg, and a total of approximately 1,140 tons of soils less than 1-inch in diameter were transported for off-site disposal from the 12 remaining areas. Post-excavation confirmation sampling indicated that residual concentrations were below 932 mg/kg.

- Comprehensive Site Investigation Report, Remediation Objectives Report, Remedial Action Plan, Remedial Action Completion Report (CSIR/ROR/RAP/RACR) [for Former Parcel 22], dated March 2008, prepared by CRA

  The approximately 3.76-acre former Parcel 22 site was operated as a rail yard for the South Works operations from 1896 to 1992 [note: former Parcel 22 is part of present-day Parcel D]. Historical property use, fill material (i.e., slag and demolition debris), and petroleum impacts were noted as RECs. Various investigations and remedial activities were documented from 2003 to 2007, including the following:

  - 2003 WTI Phase II investigation (7 test pits);
  - 2004 WTI diesel area delineation (16 test pits);
  - 2004 WTI excavation of diesel area and off-site disposal of approximately 14,000 tons of impacted material;
  - 2004 CRA investigation related to the adjacent South Works site;
  - 2005 CRA soil sampling and monitoring well installation (17 soil and 12 groundwater samples);
  - 2006 CRA/WTI soil and groundwater investigation (13 soil and four groundwater samples); and
  - 2007 CRA/WTI PNA area excavation and off-site disposal of approximately 2,420 tons of impacted material.

  The cumulative sample results were compared to the applicable Tier 1 objectives or background concentrations, and 95% Upper Confidence Limits were calculated for certain contaminants in order to comply with applicable objectives. Additionally, CRA proposed a Tier 3 exclusion of the soil component of the groundwater ingestion exposure route for certain VOCs, SVOCs and metals; and a Tier 3 impractical remediation for remaining petroleum impacts in soil near 86th Street (due to the risk of undermining the right of way) and at the GP-2, GP-3, GP-11 and GP-12 areas (remaining impacts near residual saturation). CRA requested a comprehensive NFR Letter be issued for the site with no land use restrictions, and no preventative or engineering controls, with the exception of an institutional control prohibiting the use of groundwater for potable purposes.

- Illinois EPA Comprehensive NFR Letter [for the North Vessel Slip], dated June 17, 2008, and
- Illinois EPA Comprehensive NFR Letter [for the South Vessel Slip], dated June 17, 2008

Based on a 2007 HHRA, the Illinois EPA issued comprehensive NFR Letters for the 12.5-acre North Vessel Slip and the 5.6-acre South Vessel Slip, with no land use restrictions, or engineering or institutional controls. A preventive control indicated that fish advisory signage must be maintained at access points to ensure fisherman are aware of maximum intake recommendations for various fish species caught in this area. Note that these areas are not part of the current Remediation Site.

- Focused Phase II ESA [for Parcel 17], dated July 2008, prepared by CRA (included under separate cover)

CRA was retained by Southworks Development, LLC to conduct testing on Parcel 17. The purpose of the testing was to investigate the RECs identified in CRA's December 2007 Phase I ESA and focused on six areas based on previous investigations and historical records:

- blast furnace and ore yards;
- finishing building and billet docks;
- power station and transformer yard;
- open hearth and stock yards;
- water treatment; and
- foundry and support buildings.

The testing included the advancement of 32 soil borings, installation of six monitoring wells, and collection of 47 soil samples and six groundwater samples for the analysis of various combinations of VOCs, SVOCs, Target Compound List (TCL) inorganics, PCBs, and TPH. The analytical results identified certain PNAs and metals in soil, and certain metals in groundwater, at concentrations above the Tier 1 objectives (at that time).

- Illinois EPA Comprehensive NFR Letter [for Former Parcel 22], dated June 15, 2010

The Illinois EPA issued a comprehensive NFR Letter for the 3.76-acre former Parcel 22 site with no land use restrictions, no preventive or engineering controls, and reliance on Chicago's groundwater ordinance as an institutional control prohibiting the use of groundwater for potable purposes.

- Draft Phase II ESA Analytical Summary Tables and Sample Location Diagrams, dated October 2017, prepared by GHD (included under separate cover)

Pioneer reviewed draft analytical summary tables and diagrams pertaining to soil, groundwater, and soil gas testing conducted throughout the subject property in 2017 by GHD. While no other

information is known about this investigation, the following was ascertained from the available documents:

- collection of 121 soil samples and 18 groundwater samples from existing monitoring wells for the analysis of VOCs, SVOCs, TCL metals, or PCBs; and
- collection of 41 soil gas samples for the analysis of VOCs and hydrogen sulfide.

The analytical results indicated the following:

- certain PNAs, metals, and PCBs were detected in soil at concentrations above the site-specific RGs and/or current Tier 1 soil remediation objectives (SROs);
- certain VOCs, SVOCs, and metals were detected in groundwater at concentrations above the Tier 1 groundwater remediation objectives (GROs);
- the impacted exposure routes included soil ingestion for residential and industrial/commercial property and construction worker populations, outdoor inhalation for residential property (chromium only), and the soil and groundwater components of Class I and II groundwater ingestion; and
- the groundwater and soil gas sample results indicated that potential vapor intrusion does not appear to be a concern at the site.

- Sediment Investigation Report, Former South Works Site North Vessel Slip, dated December 27, 2017, prepared by Barr Engineering Co. (Barr) (included under separate cover)

The purpose of this investigation was to determine the potential source of oil sheens observed on the water surface of the North Vessel Slip identified by the U.S. Coast Guard. The North Vessel Slip was historically used for off-loading raw materials and loading steel product during the South Works operations, and subsequently used for miscellaneous barge activity. The North Vessel Slip is constructed of steel sheet pile walls with the western portion containing remnant foundations and sewer outfalls. All outfalls previously discharging into the slip were reportedly abandoned prior to termination of the National Pollutant Discharge Elimination System (NPDES) permit (IL 0002691) by the Illinois EPA in 2004.

The sediment sampling conducted in 2017 included over 100 samples for the analysis of VOCs, SVOCs, TCL metals, PCBs, and TPH. An oily sheen was observed in all sediment samples except for those collected from the far east end of the slip. While numerous samples exhibited elevated levels of certain VOCs, SVOCs, metals, PCBs, and TPH at concentrations above the Tier 1 objectives or soil attenuation capacity, and a sheen was observed in the majority of the samples, the report concluded that “the sediments are stable and no on-going sources of sheen producing sediments in the North Slip were identified from the Site.” It was reported that U.S. Steel would maintain oil sorbent booms and a heavy duty float and silt curtain to contain any potential future sheens within the slip.

- Tier 3 Remediation Goals — Former United States Steel South Works Site, Chicago, Illinois, dated June 6, 2018, prepared by Jacobs (included under separate cover)

  This technical memorandum was prepared for U.S. Steel for the purpose of calculating site-specific RGs for new chemicals of interest (COIs) identified in the 2017 Phase II testing by GHD that were not completed as part of the 1995 ChemRisk HHRA. Jacobs calculated RGs for each new COI using the 1995 ChemRisk approach and a modified ChemRisk approach with updated toxicity data. The following new COIs were detected at concentrations above the RGs for either approach: arsenic, benzo(k)fluoranthene, chromium, copper, chrysene, thallium, vanadium, and zinc. Jacobs did not calculate RGs for vapor intrusion but noted that, due to the low detection frequency of hydrogen sulfide, the site does not appear to have a vapor intrusion problem. The conclusion of this technical memorandum indicated that the new COIs "will need to be delineated in the areas of exceedances and addressed prior to or in conjunction with property development."

- Phase I Environmental Site Assessment, 8080 S. Lake Shore Drive, Chicago, Illinois, dated May 28, 2024, prepared by Pioneer (included under separate cover)

  Pioneer identified the following RECs in connection with the subject property:

  - The subject property was improved by a steel manufacturing facility from at least 1890 to the late 1980s and is documented as having extensive underground piping used to transport petroleum/hazardous substances. Further, between the 1880s and 1922, steel slag was reportedly landfilled to expand the facility's acreage and relocate the shoreline of Lake Michigan to the east. Various past subsurface investigations completed for due diligence purposes from approximately 2004 to 2025 confirmed the presence of contamination on-site at levels above site-specific objectives (per the 1997 NFR letter), current Tier 1 objectives, and/or the default soil attenuation capacity. Pioneer believes that the more-recently documented on-site contamination associated with the long-time heavy industrial use of the subject property as a steel manufacturing facility and on-site fill represents an REC to the subject property at this time.

  - The northwest corner, Parcel T, was improved by a gasoline filling station from at least the 1920s until the 1960s. This address is included on the Illinois Register of USTs and the LUST incident database (#970360). The associated USTs were removed in 1997; however, this LUST incident retains an "open" (i.e., unresolved) status. Pioneer believes that the unresolved status of this LUST incident and past use of Parcel T as a gasoline filling station represent an REC to the subject property at this time. (Note that these USTs are documented as being taken out of service prior to January 2, 1974 and are therefore exempt from the 35 IAC 734 regulations. The Remediation Applicant recently submitted the appropriate Pre-1974 UST Notification Form to satisfy the regulatory reporting requirements for the reported incident.)

- Geotechnical Investigation Report (for Proposed Phase I Building), dated December 18, 2024, prepared by GSG Consultants, Inc. (GSG) (included under separate cover)

  GSG advanced a total of nine soil borings in the area of the proposed IQMP Phase I development in the southeastern portion of the subject property. The borings were advanced to depths of 50 to 91.5 feet BSG and identified slag fill with silt, sand and gravel to depths ranging from 24 to 33 feet BSG. The fill was generally underlain by sand and silty sand to a depth up to 42 feet BSG, followed by silty clay to 56 feet BSG, clayey silt (hardpan) to 81 feet BSG, and limestone bedrock. Groundwater was generally encountered at approximately 15 to 17 feet BSG.

- Remediation Objectives Report, North Vessel Slip of the Former U.S. Steel South Works Plant, dated January 24, 2025, prepared by Barr

  Although the North Vessel Slip received an NFR Letter in 2008, it was re-enrolled in the SRP following the 2017 discovery of a surface water sheen by the U.S. Coast Guard. Subsequent investigations identified petroleum-impacted sediments that produce sheens via ebullition-facilitated transport (EFT), where gas bubbles carry hydrocarbons from sediment to the surface.

  These investigations confirmed elevated concentrations of TPH, PCBs, and PNAs in sediment. Based on these findings, the report proposes Tier 3 remediation objectives, including sediment remediation for areas exceeding 1,000 mg/kg TPH (associated with sheen production) and consensus-based Probable Effect Concentrations (PECs) for ecological risk.

- Soil Gas Investigation [Report], dated February 10, 2025, prepared by GSG (included under separate cover)

  GSG collected five soil gas samples for the analysis of hydrogen sulfide (TO-15) from the southeastern portion of the subject property in November 2024. The soil gas analytical results did not identify hydrogen sulfide in any of the samples at concentrations above the stated detection limits.

- Geotechnical Investigation Report (for Proposed Phase II — Phase IV), dated April 22, 2025, prepared by GSG (included under separate cover)

  GSG advanced a total of 70 soil borings in the area of the proposed IQMP Phase II through IV developments in the southeastern portion of the subject property. The borings were advanced to depths of 20 to 115 feet BSG and identified slag fill with silt, sand and gravel to depths ranging from approximately 13 to 24 feet BSG. The native soil profile consisted of sand and silty sand underlain by silty clay, clayey silt (hardpan) and bedrock, with variable depths but generally consistent with those observed in the 2024 GSG investigation.

- Draft Limited Geotechnical Investigation Report, dated August 6, 2025, prepared by Pioneer (included under separate cover)

  Pioneer advanced 28 soil borings and excavated 22 test pits in the northwestern portion of the subject property. The borings extended to depths ranging from 7.5 to 45 feet BSG, while the test pits

were excavated to depths of 11 to 18 feet BSG. The upper soils consisted of fill with varying amounts of slag, sand, and gravel, extending to a maximum depth of 22 feet BSG, and underlain by native sand. Limestone bedrock was encountered at variable depths ranging from 21 to 34 feet BSG.

1.3 Supplemental Sampling Activities

To support side-wide closure under the current regulations of 35 IAC Parts 740 and 742, Pioneer conducted a detailed review of the extensive historical environmental data specific to testing conducted on and immediately around the subject property. Pioneer's overall intent was to refresh existing data in order to verify conditions from the prior (1997 and 2010) NFR Letters, as well as from the prior due diligence testing documented herein. This investigation approach relied on the following core considerations:

(1) The Remediation Site has been subject to extensive environmental characterization since the early 1990s, including various due diligence efforts during the 2000s, and was previously issued comprehensive NFR Letters.

(2) The Remediation Site has remained vacant, fenced and secured, with no evidence of illegal dumping or new contaminant sources since facility decommissioning.

(3) The objective is to supplement the prior extensive testing data to demonstrate sufficient investigation and justify the issuance of a new comprehensive NFR Letter.

Accordingly, Pioneer's investigation included:

- an initial soil boring grid with approximate 500-foot spacing for general site characterization;
- targeted borings: (a) to confirm notable previous (post-2000) findings, (b) to provide an enhanced evaluation of the proposed IQMP Phase One development area, and (c) for additional site characterization;
- delineation borings and test pits to define soil attenuation "hotspots" (i.e., Hotspots 1 through 5) identified during the initial investigation;
- a full groundwater evaluation to determine the current analytical and hydrogeological conditions of the shallow aquifer; and
- limited soil gas testing to further evaluate the indoor and outdoor inhalation exposure routes at certain locations.

Pioneer completed the supplemental investigation on various dates from August 2024 through March 2025, which included the advancement of 192 soil borings (SB1 through SB144, plus hotspot delineation borings designated with the original boring ID and lower case letters), excavation of 44 test pits for hotspot delineation (also designated with the original boring ID and lower case letters), and installation of 18 new monitoring wells (MW-301 through MW-318). The cumulative laboratory testing included:

- 425 soil samples analyzed:
  - 250 Target Compound List (TCL) and pH (surface and subsurface samples at majority of locations)
  - 172 TPH (if field evidence of impact and/or hotspot delineation sample)
  - 33 total or reactive sulfide
  - Over 2,000 individual toxicity characteristic leaching procedure (TCLP)/synthetic precipitation leaching procedure (SPLP) inorganics
    - TCLP analyses were conducted on samples where a total RCRA 8 metal exceeded the "20 times rule" [based on 40 CFR 261.24 and Subtitle D landfill requirements], and
    - TCLP or SPLP were conducted on samples where a total inorganic exceeded its pH-specific soil migration Tier 1 SRO, or did not have a pH-specific soil migration Tier 1 SRO and also exceeded its background concentration (Note: Due to hold time and other limitations, cyanide and mercury were only selectively evaluated through TCLP/SPLP, with a general focus on locations with higher total concentrations, where possible).
- 27 groundwater samples analyzed
  - 18 samples from new wells; nine samples from existing wells
  - 25 TCL plus total/dissolved PNAs and metals
  - One VOCs, SVOCs, and PNAs
  - One total/dissolved manganese
  - Eight low-flow resamples for total/dissolved SVOCs, PNAs, lead, and/or thallium
- Three soil gas samples analyzed for certain VOCs

Additionally, the available prior due diligence testing conducted by others in 2007 (CRA), 2017 (GHD) and 2025 (GSG)—and not previously submitted to the Illinois EPA—has been incorporated into the overall closure approach for the Remediation Site. This work conducted by others included the collection of 168 soil samples, 24 groundwater samples, and 46 soil gas samples for the analysis of various combinations of the TCL parameters. The recent geotechnical testing has also been relied upon herein to develop a more thorough understanding of the geological conditions at the site, specifically in the southeastern portion where impacts requiring remedial actions were identified. The new cumulative (2007-2025) dataset presented herein, in conjunction with the extensive data associated with the existing NFR Letters, provides a robust basis for updated site characterization pursuant to 35 IAC 740 and 742.

The attached Figure 2 depicts the environmental boring/sample locations from the aforementioned cumulative (2007-2025) investigation activities, as well as the 2000 TPH bioremediation area, the 2007 PNA delineation areas, and the 2008 lead remediation areas. A detailed summary of the cumulative sampling plan is provided in the following table.

Table 1-3 Summary of Cumulative Sampling Plan

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
CRA Focused Phase II Investigation – 2007 (report dated 2008)				
Soil Testing				
B-1	6	3-5	TPH	Former foundry and support buildings
B-2	10	7-9	SVOCs, PCBs	Former power station & transformer
B-3	12	9.5-11.5	TPH	Former power station & transformer
B-4	12	9-11	TPH	Former power station & transformer
B-5	10	8-10	SVOCs, PCBs	Former power station & transformer
B-6	10	8-10	TPH	Former power station & transformer
B-7	18	8-10	VOCs, SVOCs, TCL Metals	Former power station & transformer
B-8	6	4-6	VOCs, SVOCs, TCL Metals	Former water treatment
B-9	8	4-6	SVOCs, PCBs	Former foundry and support buildings
B-10	12	9-11	SVOCs, PCBs	Former foundry and support buildings
B-11	18	10-12	VOCs, SVOCs, TCL Metals	Former finish buildings & billet docks
B-12	15	6-8	VOCs, SVOCs, TCL Metals	Former blast furnace & ore yards
B-13	10	6-8	TPH	Former foundry and support buildings
B-14	10	8-10	TPH	Former open hearth & stock yards
B-15	14	6-8	VOCs, SVOCs, TCL Metals	Former open hearth & stock yards
B-16	8	6-8	TPH	Former foundry and support buildings
B-17	8	6-8	TPH	Former open hearth & stock yards
B-18	6	4-6	VOCs, SVOCs, TCL Metals	Former open hearth & stock yards
B-19	14	8-10	VOCs, SVOCs, TCL Metals	Former finish buildings & billet docks
B-20	5.5	2-3	VOCs, SVOCs, TCL Metals	Former blast furnace & ore yards
B-21	18	6-8	VOCs, SVOCs, TCL Metals	Former blast furnace & ore yards
B-22	10	6-8	TPH	Former open hearth & stock yards
B-23	10	6-8	TPH	Former open hearth & stock yards
B-24	8	6-8	TPH	Former open hearth & stock yards
B-25	14	12-14	TPH	Former finish buildings & billet docks
B-26	12	10-12	TPH	Former finish buildings & billet docks
B-27	12	6-8	TPH	Former finish buildings & billet docks
B-28	12	9-11	TPH	Former open hearth & stock yards
B-29	8	6-8	TPH	Former open hearth & stock yards
B-30	8	6-8	TPH	Former open hearth & stock yards
B-31	14	12-14	TPH	Former open hearth & stock yards
B-32	8	10-12	VOCs, SVOCs, TCL Metals	Former open hearth & stock yards
SS-001	0.5	0-0.5	PNAs	Former foundry and support buildings
SS-002	0.5	0-0.5	SVOCs, PCBs	Former foundry and support buildings
SS-003	0.5	0-0.5	PCBs	Former power station & transformer
SS-004	0.5	0-0.5	SVOCs, PCBs	Former foundry and support buildings
SS-005	0.5	0-0.5	PNAs	Former finish buildings & billet docks
SS-006	0.5	0-0.5	PNAs	Former finish buildings & billet docks
SS-007	0.5	0-0.5	PNAs	Former blast furnace & ore yards
SS-008	0.5	0-0.5	PNAs	Former foundry and support buildings
SS-009	0.5	0-0.5	PNAs	Former blast furnace & ore yards
SS-010	0.5	0-0.5	PNAs	Former blast furnace & ore yards
SS-011	0.5	0-0.5	PNAs	Former blast furnace & ore yards
SS-012	0.5	0-0.5	PNAs	Former open hearth & stock yards
SS-013	0.5	0-0.5	PNAs	Former open hearth & stock yards
SS-014	0.5	0-0.5	PNAs	Former open hearth & stock yards
SS-015	0.5	0-0.5	PNAs	Former open hearth & stock yards
Groundwater Testing				
MW-200	18.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation (at B-7)
MW-201	18.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation (at B-11)

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
MW-202^	18.30*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation (at B-32)
MW-203	18.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation (at B-21)
MW-204^	15.10*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation (at B-12)
MW-205	14.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation (at B-15)
GHD Phase II Investigation – 2017				
Soil Testing				
SSPCB-01	--	0-0.5	PCBs	Former transformer yard
SSPCB-02	--	0-0.5	PCBs	Former transformer yard
SSPCB-03	--	0-0.5	PCBs	Former transformer yard
SSPCB-04	--	0-0.5	PCBs	Former transformer yard
SSPCB-05	--	0-0.5	PCBs	Former transformer yard
SSPCB-06	--	0-0.5	PCBs	Former transformer yard
SSPCB-07	--	0-0.5	PCBs	Former transformer yard
SSPCB-08	--	0-0.5	PCBs	Former transformer yard
SSPCB-09	--	0-0.5	PCBs	Former transformer yard
SSPCB-10	--	0-0.5	PCBs	Former transformer yard
SSPCB-11	--	0-0.5	PCBs	Former transformer yard
SSPCB-11a	--	0-0.5	PCBs	Former transformer yard
SSPCB-12	--	0-0.5	PCBs	Former transformer yard
SSPCB-12a	--	0-0.5	PCBs	Former transformer yard
SSPCB-13	--	0-0.5	PCBs	Former smelter
SSPCB-14	--	0-0.5	PCBs	Former power station area
SSPCB-15	--	0-0.5	PCBs	Former warehouse area
SSPCB-16	--	0-0.5	PCBs	Former smelter and ore bunkers
SSPCB-17	--	0-0.5	PCBs	Former smelter and ore bunkers
SSPCB-18	--	0-0.5	PCBs	Former smelter
SSPCB-19	--	0-0.5	PCBs	Former mill area
SSPCB-20	--	0-0.5	PCBs	Former mill area
SSPCB-21	--	0-0.5	PCBs	Former shop
PCB 1E20	--	0-0.5	PCBs	Former mill building
PCB 1N20	--	0-0.5	PCBs	Former mill building
PCB 1S20	--	0-0.5	PCBs	Former mill building
PCB 1W20	--	0-0.5	PCBs	Former mill building
PCB 16E20	--	0-0.5	PCBs	Former warehouse
PCB 16N20	--	0-0.5	PCBs	Former warehouse
PCB 16S20	--	0-0.5	PCBs	Former warehouse
PCB 16W20	--	0-0.5	PCBs	Former warehouse
PCB 35E20	--	0-0.5	PCBs	Former warehouse area
PCB 35N20	--	0-0.5	PCBs	Former warehouse area
PCB 35S20	--	0-0.5	PCBs	Former warehouse area
PCB 35W20	--	0-0.5	PCBs	Former warehouse area
PCB 36E20	--	0-0.5	PCBs	Former power station area
PCB 36N20	--	0-0.5	PCBs	Former power station area
PCB 36S20	--	0-0.5	PCBs	Former power station area
PCB 36W20	--	0-0.5	PCBs	Former power station area
Powerhouse Building	--	0-0.5	PCBs	Former power station area
SS-100	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SS-101	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SS-102	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SS-103	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SS-104	--	0-0.5	SVOCs, TCL Metals	Former railroad tracks
SS-105	--	0-0.5	SVOCs, TCL Metals	Former railroad tracks
SS-106	--	0-0.5	SVOCs, TCL Metals	Former blast furnace & ore yards

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
SS-107	--	0-0.5	SVOCs, TCL Metals	Former transformer yard
SS-108	--	0-0.5	SVOCs, TCL Metals	Former transformer yard
SS-109	--	0-0.5	SVOCs, TCL Metals	Former transformer yard
SS-110	--	0-0.5	SVOCs, TCL Metals	Former transformer yard
SS-111	--	0-0.5	SVOCs, TCL Metals	Former transformer yard
SS-112	--	0-0.5	SVOCs, TCL Metals	Former transformer yard
SS-113	--	0-0.5	SVOCs, TCL Metals	Former transformer yard
SS-114	--	0-0.5	SVOCs, TCL Metals	Former transformer yard
SS-115	--	0-0.5	SVOCs, TCL Metals	Former transformer yard
SS-116	--	0-0.5	SVOCs, TCL Metals	Former transformer yard
SS-117	--	0-0.5	SVOCs, TCL Metals	Former transformer yard
SS-118	--	0-0.5	SVOCs, TCL Metals	Former transformer yard
SS-119	--	0-0.5	SVOCs, TCL Metals	Former railroad tracks and craneways
SSMS-01	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SSMS-02	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SSMS-03	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SSMS-04	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SSMS-05	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SSMS-06	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SSMS-07	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SSMS-08	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SSMS-09	--	0-0.5	SVOCs, TCL Metals	Former material storage area
SS 10E20	--	0-0.5	SVOCs	Further evaluate SS-010 (CRA 2007)
SS 10N20	--	0-0.5	SVOCs	Further evaluate SS-010 (CRA 2007)
SS 10S20	--	0-0.5	SVOCs	Further evaluate SS-010 (CRA 2007)
SS 10W20	--	0-0.5	SVOCs	Further evaluate SS-010 (CRA 2007)
SS 12E20	--	0-0.5	SVOCs	Further evaluate SS-012 (CRA 2007)
SS 12N20	--	0-0.5	SVOCs	Further evaluate SS-012 (CRA 2007)
SS 12S20	--	0-0.5	SVOCs	Further evaluate SS-012 (CRA 2007)
SS 12W20	--	0-0.5	SVOCs	Further evaluate SS-012 (CRA 2007)
SSS 4E20	--	0-0.5	TCL Metals	Former power station area
SSS 4N20	--	0-0.5	TCL Metals	Former power station area
SSS 4S20	--	0-0.5	TCL Metals	Former power station area
SSS 4W20	--	0-0.5	TCL Metals	Former power station area
SSS 5E20	--	0-0.5	TCL Metals	Former warehouse area
SSS 5N20	--	0-0.5	TCL Metals	Former warehouse area
SSS 5S20	--	0-0.5	TCL Metals	Former warehouse area
SSS 5W20	--	0-0.5	TCL Metals	Former warehouse area
SSS 6E20	--	0-0.5	TCL Metals	Former warehouse area
SSS 6N20	--	0-0.5	TCL Metals	Former warehouse area
SSS 6S20	--	0-0.5	TCL Metals	Former warehouse area
SSS 6W20	--	0-0.5	TCL Metals	Former warehouse area
SSS 7E20	--	0-0.5	TCL Metals	Former smelter area
SSS 7N20	--	0-0.5	TCL Metals	Former smelter area
SSS 7S20	--	0-0.5	TCL Metals	Former smelter area
SSS 7W20	--	0-0.5	TCL Metals	Former smelter area
SSS 9E20	--	0-0.5	PCBs, TCL Metals	Former mill building
SSS 9N20	--	0-0.5	PCBs, TCL Metals	Former mill building
SSS 9S20	--	0-0.5	PCBs, TCL Metals	Former mill building
SSS 9W20	--	0-0.5	PCBs, TCL Metals	Former mill building
SSS 10E20	--	0-0.5	TCL Metals	Former ore bunker
SSS 10N20	--	0-0.5	TCL Metals	Former ore bunker
SSS 10S20	--	0-0.5	TCL Metals	Former ore bunker

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
SSS 10W20	--	0-0.5	TCL Metals	Former ore bunker
SSS 12E20	--	0-0.5	TCL Metals	Former smelter
SSS 12N20	--	0-0.5	TCL Metals	Former smelter
SSS 12S20	--	0-0.5	TCL Metals	Former smelter
SSS 12W20	--	0-0.5	TCL Metals	Former smelter
SSS 14E20	--	0-0.5	TCL Metals	Former mill building
SSS 14N20	--	0-0.5	TCL Metals	Former mill building
SSS 14S20	--	0-0.5	TCL Metals	Former mill building
SSS 14W20	--	0-0.5	TCL Metals	Former mill building
TTP-1	--	--	VOCs, SVOCs, PCBs	Former power station area
TTP-5	--	--	VOCs, SVOCs, PCBs	Former storage area
TTP-11	--	--	VOCs, SVOCs, PCBs	Former ore bunker
TTP-18	--	--	VOCs, SVOCs, PCBs	Former mill area
B-2E20	--	7-9	SVOCs	Further evaluate B-2 (CRA 2007)
B-2N20	--	7-9	SVOCs	Further evaluate B-2 (CRA 2007)
B-2S20	--	7-9	SVOCs	Further evaluate B-2 (CRA 2007)
B-2W20	--	7-9	SVOCs	Further evaluate B-2 (CRA 2007)
B-7E20	--	8-10	TCL Metals	Further evaluate B-7 (CRA 2007)
B-7N20	--	8-10	TCL Metals	Further evaluate B-7 (CRA 2007)
B-7S20	--	8-10	TCL Metals	Further evaluate B-7 (CRA 2007)
B-7W20	--	8-10	TCL Metals	Further evaluate B-7 (CRA 2007)
Groundwater Testing				
MW-100	23.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2004
MW-101^	23.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2004
MW-102^	17.85*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2004
MW-102D^	22.85*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2004
MW-103	20.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2004
MW-104^	24.30*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2004
MW-104D^	40.50*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2004
MW-106^	20.34*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2004
MW-200	18.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2007
MW-201	18.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2007
MW-202^	18.30*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2007
MW-203	18.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2007
MW-204^	15.10*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2007
MW-205	14.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2007
NMW-1	15.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2006
NMW-2^	12.25*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2006
NMW-3	14.00*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2006
NMW-4^	12.30*	GW	VOCs, SVOCs, TCL Metals	Groundwater evaluation; installed by CRA in 2006
Soil Gas Testing				
VP-01	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-02	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-03	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-04	4*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-05	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-06	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-07	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-08	3.5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-09	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-10	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-11	4*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-12	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
VP-13	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-14	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-15	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-16	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-17	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-18	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-19	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-20	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-21	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-22	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-23	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-24	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-25	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-26	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-27	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-28	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-29	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-30	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-31	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-32	5*	SG	VOCs (TO-15), hydrogen sulfide	Evaluate vinyl chloride indoor inhalation impact in MW-102D (at property line)
VP-33	5*	SG	VOCs (TO-15), hydrogen sulfide	Evaluate vinyl chloride indoor inhalation impact in MW-102D (at property line)
VP-34	5*	SG	VOCs (TO-15), hydrogen sulfide	Evaluate vinyl chloride indoor inhalation impact in MW-102D
VP-35	5*	SG	VOCs (TO-15), hydrogen sulfide	Evaluate vinyl chloride indoor inhalation impact in MW-102D (at property line)
VP-36	5*	SG	VOCs (TO-15), hydrogen sulfide	Evaluate vinyl chloride indoor inhalation impact in MW-102D (at property line)
VP-37	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-38	3*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-39	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-40	5*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
VP-41	4*	SG	VOCs (TO-15), hydrogen sulfide	Indoor/outdoor inhalation, slag H2S off-gassing
GSG Soil Gas Investigation – 2025				
SG-1	--	SG	Hydrogen sulfide	Potential slag off-gassing
SG-2	--	SG	Hydrogen sulfide	Potential slag off-gassing
SG-3	--	SG	Hydrogen sulfide	Potential slag off-gassing
SG-4	--	SG	Hydrogen sulfide	Potential slag off-gassing
SG-5	--	SG	Hydrogen sulfide	Potential slag off-gassing
Pioneer Phase II Investigation – 2024-2025				
Soil Testing				
SB1	15	0-3	TCL, SPLP metals, pH	Grid boring for general site coverage
		5-7.5	TCL, SPLP metals, pH	
SB2	15	0-3	TCL, SPLP metals, pH	Grid boring for general site coverage
		3-5	TCL, SPLP metals, pH	
SB3	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site coverage
		5-7.5	TCL, TCLP/SPLP metals, pH	
SB4	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site coverage
		7.5-10	TCL, pH	
SB5	15	0-3	TCL, SPLP metals, pH	Grid boring for general site coverage
		5-7.5	TCL, pH	
SB6	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site coverage
		3-5	TCL, TCLP/SPLP metals, total/reactive sulfide, pH	

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
SB7	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site coverage
		10-12.5	TCL, pH	
SB8	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site coverage
		5-7.5	TCL, pH	
SB9	15	0-3	TCL, SPLP metals, pH	Grid boring for general site coverage
		7.5-10	TCL, pH	
SB10 (1)	8	0-3	TCL, TCLP/SPLP metals, total/reactive sulfide, pH	Grid boring for general site coverage
		5-7.5	TCL, TCLP/SPLP metals, pH	
SB10a (1)	15	3-5	PNAs	Vertical delineation of PNA hotspot (#1) at SB10 (5-7.5)
		7.5-10	PNAs	
SB10b	10	5-7.5	PNAs	Horizontal delineation of PNA hotspot (#1) at SB10 (5-7.5)
SB10c	10	5-7.5	PNAs	Horizontal delineation of PNA hotspot (#1) at SB10 (5-7.5)
SB10d	10	5-7.5	PNAs	Horizontal delineation of PNA hotspot (#1) at SB10 (5-7.5)
SB10e	10	5-7.5	PNAs	Horizontal delineation of PNA hotspot (#1) at SB10 (5-7.5)
SB11	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site coverage
		5-7.5	TCL, SPLP metals, pH	
SB12	15	0-3	TCL, mercury speciation, TCLP/SPLP metals, pH	Grid boring for general site coverage
		7.5-10	TCL, pH	
SB13	15	0-3	TCL, mercury speciation, TCLP/SPLP metals, pH	Grid boring for general site coverage
		5-7.5	TCL, TCLP metals, pH	
SB14	15	0-3	TCL, TCLP metals, pH	Grid boring for general site coverage
		10-12.5	TCL, TCLP/SPLP metals, pH	
SB15	10	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site coverage
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB16	5	0-3	TCL, TCLP/SPLP metals pH	Grid boring for general site coverage
		3-5	TCL, TCLP/SPLP metals, pH	
SB17	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site coverage
		5-7.5	TCL, pH	
SB18	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site coverage
		7.5-10	TCL, SPLP metals, pH	
SB19	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site coverage
		5-7.5	TCL, SPLP metals, pH	
SB20	5	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site coverage
		3-5	TCL, TCLP/SPLP metals, pH	
SB21 (1)	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site coverage
		12.5-15	TCL, TCLP/SPLP metals, total sulfide, pH	
SB21a (1)	30	7.5-10	TPH	Vertical delineation boring for TPH hotspot (#4) at SB21
		15-17.5	TPH	
SB21b	20	7.5-10	TPH	Delineation boring for TPH hotspot (#4) at SB21
		10-12.5	TPH	
		15-17.5	TPH	
SB21c	20	7.5-10	TPH	Delineation boring for TPH hotspot (#4) at SB21
		12.5-15	TPH	
		15-17.5	TPH	
SB21d	20	7.5-10	TPH	Delineation boring for TPH hotspot (#4) at SB21
		10-12.5	TPH	
		15-17.5	TPH	

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
SB21e	20	7.5-10	TPH	Delineation boring for TPH hotspot (#4) at SB21
		12.5-15	TPH	
		15-17.5	TPH	
SB21f	20	10-15	TPH	Delineation boring for TPH hotspot (#4) at SB21
		15-17.5	TPH	
SB21g	20	10-15	TPH	Delineation boring for TPH hotspot (#4) at SB21
		15-17.5	TPH	
SB21h	20	10-15	TPH	Delineation boring for TPH hotspot (#4) at SB21
		15-17.5	TPH	
SB21i	20	10-15	TPH	Delineation boring for TPH hotspot (#4) at SB21
		15-17.5	TPH	
SB21j	20	10-12.5	TPH	Delineation boring for TPH hotspot (#4) at SB21
		12.5-15	TPH	
		17.5-20	TPH	
SB21k	15	10-15	TPH	Delineation test pit for TPH hotspot (#4) at SB21
SB21l	15	10-15	TPH	Delineation test pit for TPH hotspot (#4) at SB21
SB21m	15	10-15	TPH	Delineation test pit for TPH hotspot (#4) at SB21
SB21n	15	10-15	TPH	Delineation test pit for TPH hotspot (#4) at SB21
SB21o	15	10-15	TPH	Delineation test pit for TPH hotspot (#4) at SB21
SB21p	17	10-15	TPH	Delineation test pit for TPH hotspot (#4) at SB21
SB21q	15	10-15	TPH	Delineation test pit for TPH hotspot (#4) at SB21
SB21r	15	10-15	TPH	Delineation test pit for TPH hotspot (#4) at SB21
SB21s	15	10-15	TPH	Delineation test pit for TPH hotspot (#4) at SB21
SB21t	10	7.5-10	TPH	Delineation test pit for TPH hotspot (#4) at SB21
SB21u	10	7.5-10	TPH	Delineation test pit for TPH hotspot (#4) at SB21
SB22	15	0-3	TCL, pH	Grid boring for general site characterization
		10-12.5	TCL, TPH, pH	
SB23	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, TCLP metals, pH	
SB24	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB25	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		3-5	TCL, TCLP/SPLP metals, pH	
SB26	18	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB27	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, SPLP metals, TPH, pH	
SB28	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		10-12.5	TCL, SPLP metals, pH	
SB29	15	0-3	TCL, TCLP/SPLP metals, pH	General site characterization; proposed IQMP Phase One development
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB30	15	0-3	TCL, TCLP/SPLP metals, pH	General site characterization; proposed IQMP Phase One development
		12.5-15	TCL, total/reactive sulfide, pH	
SB31	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, pH	
SB32	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, TCLP/SPLP metals, pH	
SB33	15	0-3	TCL, TCLP/SPLP metals, pH	General site characterization; proposed IQMP Phase One development
		5-7.5	TCL, TCLP/SPLP metals, pH	
SB34	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, pH	
SB35	10	0-3	TCL, TCLP/SPLP metals, pH	General site characterization; proposed IQMP Phase One development
		7.5-10	TCL, TCLP/SPLP metals, pH	

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
SB36	14	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, TCLP/SPLP metals, pH	
SB37	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; former PNA delineation area (2007)
		12.5-15	TCL, TCLP/SPLP metals, TPH, total sulfide, pH	
SB38	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; former PNA delineation area (2007)
		12.5-15	TCL, SPLP metals, total sulfide, pH	
SB39	15	0-3	TCL, TCLP/SPLP metals, pH	Highest PCB concentration from 2017 GHD investigation; former PNA delineation area (2007)
		7.5-10	TCL, pH	
SB40	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; former PNA delineation area (2007)
		5-7.5	TCL, pH	
SB41	15	0-3	TCL, pH	Grid boring for general site characterization; former PNA delineation area (2007)
		5-7.5	TCL, TCLP/SPLP metals, pH	
SB42	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; former PNA delineation area (2007)
		7.5-10	TCL, SPLP metals, pH	
SB43	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization; former PNA delineation area (2007)
		10-12.5	TCL, TCLP/SPLP metals, pH	
SB44	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, TCLP/SPLP metals, pH	
SB45	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; former lead remediation area (2008)
		5-7.5	TCL, SPLP metals, total/reactive sulfide, pH	
SB46	10	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		3-5	TCL, TCLP/SPLP metals, pH	
SB47	10	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; former PNA delineation area (2007)
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB48	8	0-3	TCL, TCLP metals, pH	Grid boring for general site characterization; former PNA delineation area (2007)
		5-7.5	TCL, TCLP/SPLP metals, pH	
SB49	15	0-3	TCL, SPLP metals, total/reactive sulfide, pH	Grid boring for general site characterization; former PNA delineation area (2007)
		10-12.5	TCL, TCLP/SPLP metals, pH	
SB50	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; former PNA delineation area (2007)
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB51	15	0-3	TCL, TCLP/SPLP metals, total sulfide, pH	Grid boring for general site characterization
		5-7.5	TCL, TCLP/SPLP metals, pH	
SB52	15	0-3	TCL, TCLP/SPLP metals, pH	General site characterization; proposed IQMP Phase One development
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB53	25	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; former TPH bioremediation area (circa 2000)
		10-12.5	TCL, SPLP metals, pH	
		15-17.5	TPH	
		20-22.5	TPH	
SB54	15	0-3	TCL, TCLP/SPLP metals, pH	Former TPH bioremediation area (circa 2000) and highest TPH concentration from 2007 investigation
		10-12.5	TCL, SPLP metals, pH	
SB55	20	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; delineation of TPH hotspot (#5)
		5-7.5	TCL, SPLP metals, pH	
		15-17.5	TPH	
		17.5-20	TPH	
SB56	15	0-3	TCL, TCLP iron, pH	Grid boring for general site characterization
		5-7.5	TCL, SPLP metals, pH	
SB57	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB58	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		10-12.5	TCL, pH	
SB59	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, SPLP metals, pH	

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
SB60	13	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB61 (1)	19	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; former TPH bioremediation area (circa 2000)
		12.5-15	TPH, total sulfide	
		17.5-19	TCL, TCLP metals, TPH, total sulfide, pH	
SB61a (1)	40	7.5-10	TPH	Vertical delineation boring for TPH hotspot (#5) at SB61
		17.5-20	Reactive sulfide	
		35-37.5	TPH	
		37.5-40	TPH	
SB61b	19	7.5-10	TPH	Delineation boring for TPH hotspot (#5) at SB61
		12.5-15	TPH	
		17.5-19	TPH	
SB61c	17	7.5-10	TPH	Delineation boring for TPH hotspot (#5) at SB61
		12.5-15	TPH	
		15-17	TPH	
SB61d	30	10-12.5	TPH	Delineation boring for TPH hotspot (#5) at SB61
		17.5-20	TPH	
		25-27.5	TPH	
SB61e	30	7.5-10	TPH	Delineation boring for TPH hotspot (#5) at SB61
		10-12.5	TPH	
		22.5-25	TPH	
SB61f	25	15-17.5	TPH	Delineation boring for TPH hotspot (#5) at SB61
		22.5-25	TPH	
SB61g	22.5	12.5-15	TPH	Delineation boring for TPH hotspot (#5) at SB61
		20-22.5	TPH	
SB61h	19	12.5-15	TPH	Delineation boring for TPH hotspot (#5) at SB61
		17.5-19	TPH	
SB61i	15	12.5-15	TPH	Delineation boring for TPH hotspot (#5) at SB61
SB61j	30	15-17.5	TPH	Delineation boring for TPH hotspot (#5) at SB61
		20-22.5	TPH	
		25-27.5	TPH	
SB61k	30	15-17.5	TPH	Delineation boring for TPH hotspot (#5) at SB61
		20-22.5	TPH	
		25-27.5	TPH	
SB61l	30	15-17.5	TPH	Delineation boring for TPH hotspot (#5) at SB61
		20-22.5	TPH	
		25-27.5	TPH	
SB61m	18	14-15	TPH	Delineation boring for TPH hotspot (#5) at SB61
		15-18	TPH	
SB61n	30	15-17.5	TPH	Delineation boring for TPH hotspot (#5) at SB61
		17.5-20	TPH	
		20-22.5	TPH	
SB61o	20	15-17.5	TPH	Delineation boring for TPH hotspot (#5) at SB61
SB61p	20	17.5-20	TPH	Delineation boring for TPH hotspot (#5) at SB61
SB61q	20	15-17.5	TPH	Delineation boring for TPH hotspot (#5) at SB61
SB61r	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#5) at SB61
SB61s	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#5) at SB61
SB61t	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#5) at SB61
SB61u	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#5) at SB61
SB61v	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#5) at SB61
SB61w	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#5) at SB61
SB61x	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#5) at SB61
SB61y	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#5) at SB61

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
SB61z	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#5) at SB61
SB62	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB63	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, SPLP metals, pH	
SB64	10	0-3	TCL, SPLP metals, total sulfide, pH	Grid boring for general site characterization
		7.5-10	TCL, SPLP metals, pH	
SB65	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB66	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, SPLP metals, pH	
SB67	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		3-5	TCL, TCLP metals, pH	
SB68	10	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB69	5	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		3-5	TCL, TCLP metals, pH	
SB70 (1)	20	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		12.5-15	TCL, TPH, total sulfide, pH	
SB70a (1)	20	7.5-10	TPH	Vertical delineation boring for TPH hotspot (#3) at SB70
		17.5-20	TPH	
SB70b	20	7.5-10	TPH	Delineation boring for TPH hotspot (#3) at SB70
		12.5-15	TPH	
		17.5-20	TPH	
SB70c	20	7.5-10	TPH	Delineation boring for TPH hotspot (#3) at SB70
		12.5-15	TPH	
		17.5-20	TPH	
SB70d	20	7.5-10	TPH	Delineation boring for TPH hotspot (#3) at SB70
		10-12.5	TPH	
		17.5-20	TPH	
SB70e	20	7.5-10	TPH	Delineation boring for TPH hotspot (#3) at SB70
		10-12.5	TPH	
		15-17.5	TPH	
SB70f	20	10-15	TPH	Delineation boring for TPH hotspot (#3) at SB70
		15-17.5	TPH	
SB70g	20	10-15	TPH	Delineation boring for TPH hotspot (#3) at SB70
		15-17.5	TPH	
		17.5-20	TPH	
SB70h	15	10-15	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70i	15	10-15	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70j	16	10-15	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70k	15	10-15	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70l	19	15-17.5	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70m	18	15-17.5	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70n	17.5	12.5-15	TPH	Delineation test pit for TPH hotspot (#3) at SB70
		15-17.5	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70o	16	12.5-15	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70p	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70q	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70r	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70s	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70t	15	10-15	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70u	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#3) at SB70

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
SB70v	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70w	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70x	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70y	17.5	15-17.5	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70z	15	10-15	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB70aa	15	10-15	TPH	Delineation test pit for TPH hotspot (#3) at SB70
SB71	5	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
SB72	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, pH	
SB73	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, pH	
SB74	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		3-5	TCL, SPLP metals, pH	
SB75	15	0-3	TCL, pH	Grid boring for general site characterization
		5-7.5	TCL, pH	
SB76	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, TCLP metals, pH	
SB77	10	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, total sulfide, pH	
SB78	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		10-12.5	TCL, TCLP/SPLP metals, TOC, TPH, pH	
SB79	10	0-3	TCL, TCLP/SPLP metals, TOC, TPH, pH	Grid boring for general site characterization
		5-7.5	TCL, SPLP metals, pH	
SB80	10	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		3-5	TCL, TCLP/SPLP metals, pH	
SB81	14	0-3	TCL, TCLP/SPLP metals, total sulfide, pH	Grid boring for general site characterization
		7.5-10	TCL, SPLP metals, pH	
SB82	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, TCLP/SPLP metals, pH	
SB83	10	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		3-5	TCL, TCLP/SPLP metals, pH	
SB84	11	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, pH	
SB85	13	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		10-12.5	TCL, TCLP/SPLP metals, pH	
SB86	10	0-3	TCL, TCLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB87	10	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		3-5	TCL, pH	
SB88	13	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, SPLP metals, total sulfide, pH	
SB89	10	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		3-5	TCL, TCLP/SPLP metals, pH	
SB90	10	0-3	TCL, TCLP/SPLP metals, TOC, TPH, pH	Grid boring for general site characterization
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB91	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		12.5-15	TCL, TCLP/SPLP metals, pH	
SB92	5	0-3	TCL, TCLP/SPLP metals, total sulfide, pH	Grid boring for general site characterization
		3-5	TCL, TCLP/SPLP metals, pH	
SB93	12	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, TCLP/SPLP metals, pH	
SB94	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		12.5-15	TCL, TCLP/SPLP metals, pH	

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
SB95	7	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		5-7	TCL, SPLP metals, total sulfide, pH	
SB96	10	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, SPLP metals, pH	
SB97	7	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; evaluate historical elevated total lead impact (SSS 12W20; GHD 2017); former PNA delineation area (2007)
		5-7	TCL, TCLP/SPLP metals, pH	
SB98	13	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB99	12.5	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; evaluate historical elevated total manganese impact (SSS 10N20; GHD 2017); former PNA delineation area (2007)
		10-12.5	TCL, TCLP/SPLP metals, pH	
SB100	6	0-3	TCL, TCLP/SPLP metals, total sulfide, pH	Grid boring for general site characterization
		3-5	TCL, TCLP/SPLP metals, pH	
SB101	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		12.5-15	TCL, SPLP metals, pH	
SB102	12	0-3	TCL, TCLP/SPLP metals, pH	General site characterization; evaluate elevated total chromium impact (SSS 7E20; GHD 2017)
		7.5-10	TCL, TCLP/SPLP metals, pH	
SB103	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, SPLP metals, pH	
SB104	3	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization; former lead remediation area (2008)
SB105	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		10-12.5	TCL, SPLP metals, pH	
SB106	3	0-3	TCL, TCLP/SPLP metals, total sulfide, pH	Grid boring for general site characterization
SB107	11	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, SPLP metals, pH	
SB108	5	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
SB109	7.5	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, TCLP/SPLP metals, pH	
SB110	18	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, SPLP metals, pH	
SB111	10	0-3	TCL, TCLP/SPLP metals, total sulfide, pH	Grid boring for general site characterization; Evaluate historical elevated total arsenic and lead impacts (TTP-1; GHD 2017)
		3-5	TCL, SPLP metals, pH	
SB112	4	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
SB113	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		10-12.5	TCL, SPLP metals, TPH, pH	
SB114	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		7.5-10	TCL, SPLP metals, pH	
SB115	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, SPLP metals, pH	
SB116	15	0-3	TCL, TCLP/SPLP metals, pH	Grid boring for general site characterization
		12.5-15	TCL, SPLP metals, pH	
SB117	15	0-3	TCL, SPLP metals, pH	Grid boring for general site characterization
		5-7.5	TCL, SPLP metals, total sulfide, pH	
SB118	15	10-12.5	TPH	Historical boring log indicates “oily” at 14’ BSG (B-32; CRA 2007)
		12.5-15	TPH	
SB118a	20	10-15	TPH	Vertical delineation boring for TPH hotspot (#4) at SB118
		15-17.5	TPH	
SB118b	20	10-15	TPH	Delineation boring for TPH hotspot (#4) at SB118
		15-17.5	TPH	
SB118c	20	10-15	TPH	Delineation boring for TPH hotspot (#4) at SB118
		15-17.5	TPH	

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
SB118d	20	7.5-10	TPH	Delineation boring for TPH hotspot (#4) at SB118
		10-15	TPH	
		15-17.5	TPH	
SB118e	15	10-12.5	TPH	Delineation boring for TPH hotspot (#4) at SB118
		12.5-15	TPH	
SB118f	20	10-12.5	TPH	Delineation boring for TPH hotspot (#4) at SB118
		15-17.5	TPH	
SB118g	15	10-15	TPH	Delineation test pit for TPH hotspot (#4) at SB118
SB118h	15	10-15	TPH	Delineation test pit for TPH hotspot (#4) at SB118
SB119	25	15-17.5	TPH	Historical boring log indicates “petroleum odor” at 8.5’ BSG (B-15; CRA 2007)
		22.5-25	TPH	
SB120	3	0-3	TCL, TCLP metals, pH	Former transformer yard
SB121	3	0-3	TCL, SPLP metals, pH	Former transformer yard
SB122	20	0-3	TCL, TCLP metals, pH	Former transformer yard
		15-17.5	TCL, pH	
SB123	15	0-3	TCL, TCLP metals, pH	Former transformer yard
		5-7.5	TCL, TCLP metals, pH	
SB124	3	0-3	PNAs	Former transformer yard
SB125	15	0-3	TCL, TCLP metals, pH	Former transformer yard
		7.5-10	TCL, TCLP metals, pH	
SB126	8	0-3	TCL, TCLP metals, pH	Former transformer yard
		5-7.5	TCL, TCLP metals, pH	
SB127	19	0-3	TCL, TCLP metals, pH	Former transformer yard
		5-7.5	TCL, SPLP metals, pH	
SB128	10	0-3	TCL, TCLP metals, pH	Proposed IQMP Phase One development
		7.5-10	TCL, TCLP metals, pH	
SB129	15	0-3	TCL, TCLP metals, pH	Proposed IQMP Phase One development
		5-7.5	TCL, TCLP metals, pH	
SB130	9	7-9	TCLP Cyanide	Evaluate leachable cyanide
SB131	5	--	--	Evaluate proposed roadway
SB132	5	--	--	Evaluate proposed roadway
SB133	5	--	--	Evaluate proposed roadway
SB134	10	7.5-10	TCLP Mercury	Evaluate total mercury impact at SB24 (7.5-10)
SB135	3	0-3	TCLP Lead	Evaluate historical elevated total lead impact (TTP-5; GHD 2017)
SB136	15	5-7.5	TPH	Adjacent to former Parcel 22 and historical off-site TPH impacts
SB137	10	5-7.5	TPH	Former Parcel 22 and adjacent to historical off-site TPH impacts
SB138	10	5-7.5	TPH	Former Parcel 22 and adjacent to historical off-site TPH impacts
SB139	10	5-7.5	TPH	Former Parcel 22 and adjacent to historical off-site TPH impacts
		7.5-10	TPH	Former Parcel 22 and adjacent to historical off-site TPH impacts
SB140	10	5-7.5	TPH	Former Parcel 22 and adjacent to historical off-site TPH impacts
SB141	15	5-7.5	TPH	Adjacent to former Parcel 22; location of monitoring well (GP-12) with historical free product
		7.5-10	TPH	
SB141a	15	7.5-10	TPH	Delineation boring for TPH hotspot (#2) at SB141
		10-12.5	TPH	
SB141b	15	5-7.5	TPH	Delineation boring for TPH hotspot (#2) at SB141
		12.5-15	TPH	
SB141c	10	5-7.5	TPH	Delineation boring for TPH hotspot (#2) at SB141
		7.5-10	TPH	

Location ID	Total Depth (ft)	Interval Sampled (ft)	Analyses	Investigation Purpose/Notes
SB142	10	5-7.5	TPH	Adjacent to former Parcel 22; location of monitoring well (GP-11) with historical free product
		7.5-10	TPH	
SB143	20	0-3	TCL, pH	Proposed IQMP Phase One development
		15-17.5	TCL, TCLP metals, reactivity, pH	
SB144	25	0-3	TCL, pH	Proposed IQMP Phase One development
		12.5-15	TCL, pH	
SB145	3	0-3	TCL, TCLP/SPLP metals, reactive sulfide, pH	Test pit for general site characterization
Groundwater Testing				
MW-301	15.00*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation
MW-302	17.70*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation
MW-303	19.00*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation
MW-304	14.20*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation
MW-305	15.50*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation
MW-306	17.70*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation
MW-307	15.75*	GW	TCL + dissolved PNAs & metals; low-flow resample for total/dissolved lead	Groundwater evaluation
MW-308	17.75*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation
MW-309	28.00*	GW	TCL + dissolved PNAs & metals; low-low resample for total/dissolved PNAs	Groundwater evaluation
MW-310	27.35*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation
MW-311	28.00*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation
MW-312	18.00*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation
MW-313	15.00*	GW	Total & dissolved manganese	Groundwater evaluation
MW-314	19.00*	GW	TCL + dissolved PNAs & metals; low-flow resample for total/dissolved thallium	Groundwater evaluation
MW-315	14.60*	GW	TCL + dissolved PNAs & metals; low-flow resample for total/dissolved PNAs & thallium	Groundwater evaluation
MW-316	18.65*	GW	TCL + dissolved PNAs & metals; low-flow re-sample for total/dissolved SVOCs	Groundwater evaluation
MW-317	19.35*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation
MW-318	23.20*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation
MW-101^	23.00*	GW	TCL + dissolved PNAs & metals; low-flow resample for total/dissolved thallium	Groundwater evaluation; installed by CRA in 2004
MW-102^	17.85*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation; installed by CRA in 2004
MW-102D^	22.85*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation; installed by CRA in 2004
MW-104^	24.30*	--	--	Groundwater elevation; installed by CRA in 2004
MW-104D^	40.50*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation; installed by CRA in 2004
MW-106^	20.34*	GW	TCL + dissolved PNAs & metals; low-flow resample for total/dissolved thallium	Groundwater evaluation; installed by CRA in 2004
MW-202^	18.30*	GW	Total/dissolved VOCs, SVOCs/PNAs; low-flow resample for benzene and total/ dissolved naphthalene	Groundwater evaluation; installed by CRA in 2007
MW-204^	15.10*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation; installed by CRA in 2007
EW-2^(2)	12.25*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation; installed by CRA in 2006
NMW-4^	12.30*	GW	TCL + dissolved PNAs & metals	Groundwater evaluation; installed by CRA in 2006
Soil Gas Testing				
SG-1	3.5*	SG	Carbon tetrachloride	Evaluate residential outdoor inhalation impact in SB2 (3-6)
SG-2	3.5*	SG	Naphthalene	Evaluate indoor inhalation impact in MW-202
SG-3	3.5*	SG	Vinyl Chloride	Evaluate indoor inhalation impact in MW-102D

Notes: * indicates depth of monitoring well or soil gas monitoring point below surface grade
^ indicates historical monitoring well identified by Pioneer; well depth corrected based on current measurements
-- indicates no sample was submitted for analysis or sample depth not available
(1) SB10 and SB10a, SB21 and SB21a, SB61 and SB61a, and SB70 and SB70a are identified on figures and boring logs as SB10(a), SB21(a), SB61(a) and SB70(a), respectively.
(2) EW-2 is a former extraction well erroneously identified in Pioneer lab reports as NW-2
GW = groundwater sample, interval not applicable
PCBs = polychlorinated biphenyls

PNAs = polynuclear aromatic hydrocarbons
RCRA 8 Metals = total arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver
SG = soil gas sample; interval not applicable
SPLP = synthetic precipitation leaching procedure
SVOCs = semi-volatile organic compounds, including PNAs
TCL = Illinois EPA's Target Compound List parameters
TCLP = toxicity characteristic leaching procedure
TO-15 = Toxic Organics test method for air/soil gas samples
TOC = total organic carbon
TPH = total petroleum hydrocarbon
VOCs = volatile organic compounds

1.4 Documentation of Field Activities

Discussions of field activities performed by others are included in respective documentation provided under separate cover, if available. The following provides a discussion related to field activities performed by Pioneer.

1.4.1 Soil Boring Advancement/Sampling

Pioneer soil borings were advanced utilizing hydraulic percussive GeoProbe® soil probing units with direct-push technology. Soil samples were collected continuously across the sampling intervals from ground surface to boring terminus using stainless steel dual tube samplers lined with dedicated, disposable plastic sleeves. In certain instances due to dense subsurface conditions, hollow-stem augers were utilized with rotary drilling methods and soil was collected with interlocking split spoon samplers. Additionally, test pits were excavated with a CAT 320E hydraulic track-mounted excavator and associated samples were collected directly from the excavator bucket.

Sample collection procedures implemented in the field by Pioneer were performed in accordance with the industry standard ASTM D 6282, and SW-846 Method 5035, and were consistent with generally accepted engineering practices. After the sample from each interval was retrieved, the undisturbed soil sample was immediately field screened within the sample liner using a Mini-Rae 2000 hand-held photoionization detector (PID), a device sensitive to a variety of VOCs, to provide a quantitative indication of the relative concentrations of contaminants in the soil samples.

A sample was then immediately selected from the portion of the interval displaying the highest field screening results (where elevated screening results were observed) and preserved in accordance with Method 5035 using laboratory-provided, pre-labeled, 40-milliliter vials. These subsamples of soil were collected following the single-transfer protocol discussed in the SW-846 Method 5035 guidance using TerraCore® samplers, and directly transferred to the 40-milliliter vials following collection. The subsamples were collected from undisturbed portions of the soil intervals to ensure that volatilization had not occurred. Additional soil samples were subsequently packed directly into unpreserved, pre-labeled, 4-ounce and/or 9-ounce jars as needed. Packed sample containers were immediately placed on ice in laboratory coolers.

The remaining portions of soil from the sample intervals were logged according to their predominant geological characteristics in accordance with the Unified Soil Classification System (USCS), and allowed to equilibrate to ambient temperatures (approximately 15 minutes, depending upon various factors) in an

airtight Ziplock™ bag, for further field screening. The maximum screening results and geological conditions encountered are listed on the soil boring logs provided in Appendix C.

Sample coolers were retained in the possession of Pioneer personnel at all times, and upon completion of the field activities, samples were delivered to Pioneer's office and transferred directly from the cooler into a refrigerator dedicated to storing soil and groundwater samples. The samples were contained within the refrigerator until they were relinquished to a NELAC-certified, independent laboratory under standard chain-of-custody procedures. The temperature within Pioneer's sample storage refrigerator is maintained at 40 to 42ºF. A standard protocol for Pioneer's soil investigation activities is provided in Appendix C.

1.4.2 Groundwater Monitoring Well Installation/Sampling

Pioneer installed 18 groundwater monitoring wells (MW-301 through MW-318) on various dates in October and December 2024, and February 2025 to evaluate the condition of groundwater beneath the Remediation Site. The wells were installed to depths ranging from approximately 14 to 28 feet BSG and screened from intervals that intersected the water table. The boreholes were drilled using a conventional rotary drilling rig with hollow-stem augers, and the wells were constructed of 2-inch internal diameter, schedule 40, flush-joint PVC screen and riser pipes. The annular space surrounding the screen was backfilled with silica sand to a height not less than 1-foot above the top of the screen, followed by an approximate 1-foot seal of hydrated bentonite, topped with bentonite chips to approximately 1-foot BSG. The wells were completed with stick-up or flush-mount (MW-315 only) casings. (Note that one monitoring well [MW-313] was constructed of 1-inch internal diameter PVC screen and riser.)

The wells were developed using a decontaminated 12-volt submersible pump and polyethylene tubing, with approximately five well volumes of water pumped from the wells. Water levels were allowed to recharge prior to the collection of groundwater samples to ensure collection of accurate and representative data. Groundwater was collected using dedicated polyethylene bailers and decanted into laboratory-provided glassware including 40-milliliter vials containing hydrochloric acid preservative, 250-milliliter polyethylene bottles containing nitric acid or sodium hydroxide preservative, and glass amber bottles containing no preservative. Additional samples from each well were collected with a peristaltic pump via dedicated polyethylene tubing and 0.45 micron high-capacity in-line filters for the collection of dissolved PNAs and metals.

Monitoring wells MW-301 through MW-307 were sampled in October 2024, MW-308 through MW-313 in December 2024, and MW-314 through MW-318 in February 2025. Additionally, Pioneer sampled the existing nine monitoring wells (installed by others) in October 2024 (MW-102, MW-102D, MW-204, EW-2 and NMW-4) and February 2025 (MW-101, MW-104D, MW-106 and MW-202).

Pioneer resampled certain wells on February 14, 2025 (MW-307 and MW-309), March 17, 2025 (MW-101, MW-106, MW-315, and MW-316), and March 18, 2025 (MW-202) to obtain more representative groundwater data for SVOCs, PNAs, and/or certain metals with low-flow sampling methods. Low-flow sampling was used where initial groundwater results were suspected of being

artificially elevated due to standard sampling methods inducing increased suspended sediments including ultra-fine and colloidal particles capable of bypassing the filter.

All groundwater sample containers were immediately packed on ice in laboratory coolers. The coolers were retained in the possession of Pioneer personnel at all times, and upon completion of the field activities, the samples were brought to Pioneer's office, and transferred directly from the laboratory coolers into the sample refrigerator as described in Section 1.4.1.

Pioneer monitoring well construction diagrams and a general protocol for Pioneer's groundwater investigation are included in Appendix C. The recorded low-flow field parameters are included in Appendix D.

1.4.3 Soil Gas Sampling

Pioneer collected three soil gas samples (SG-1, SG-2 and SG-3) to further evaluate outdoor inhalation at soil boring SB-2 and indoor inhalation at monitoring wells MW-202 and MW-102D in February and March 2025, respectively. The soil gas sampling was performed in general accordance with 35 IAC 742.227 and standard industry practices using the GeoProbe® and Post-Run Tubing (PRT) system. The soil gas samples were submitted to an independent laboratory under standard chain-of-custody procedures for analysis of certain VOCs using U.S. EPA Test Method TO-15. A detailed protocol for Pioneer's soil gas sampling is included in Appendix C.

1.4.4 Field Observations

Field evidence of contamination (petroleum odors, staining, and/or elevated PID readings greater than 40 ppm) was only observed in 13 of the 144 original grid and targeted borings. Subsequent petroleum delineation borings and test pits also exhibited some degree of field impacts. Except for the SB61 area, field impacts were generally 1 to 7 feet thick and corresponded with the groundwater smear zone. The most severe impacts were observed at four areas on Parcel 17 (in SB21, SB61, SB70, and SB118) and one area on Parcel D (SB141), and consisted of elevated PID readings, strong petroleum odors, and/or visible indications ranging from black staining to a viscous, black liquid residue coating the soil. The field impacts at SB61 (on the far southeastern portion of Parcel 17) extended into the saturated zone to approximately 35 feet BSG, where a native silty clay confining layer was encountered.

Based on soil borings and test pit observations, petroleum contamination, if not encountered near the current water table, was not observed at greater depths. Therefore, all delineation borings and test pits were advanced at least 2 feet into the saturated zone to ensure that any petroleum impacts, if present, would be identified. As such, delineation test pits were sampled for TPH only at or near the water table, where field evidence of contamination was typically most apparent or, if absent, reliably indicated that deeper impacts were unlikely.

Hydrogen sulfide odors were intermittently noted during drilling activities across the site. These odors are consistent with historical observations and are likely attributable to trace off-gassing from the sulfide-bearing slag used as fill material, particularly under saturated and anaerobic conditions. Minor

contributions from petroleum degradation and decaying organic debris may also be a factor in isolated areas. As noted in Section 1.2.6, soil gas sampling completed in 1999, 2017, and 2025 did not identify hydrogen sulfide at concentrations above applicable screening criteria.

None of the monitoring wells exhibited field evidence of contamination with the exception of MW-318 (installed at SB61) and MW-202 (located in the vicinity of SB61/MW-318), where petroleum odors and sheens were observed during groundwater sampling. However, no measurable free product (light non-aqueous phase liquid [LNAPL]) was detected in any of the monitoring wells at the subject property, as evidenced by oil/water interface probe readings and/or visual inspection during sampling. Additionally, there is no indication that free product was observed during previous groundwater investigations performed by CRA (2007) or GHD (2017).

The field impacts observed by Pioneer are summarized in the following table, and a complete listing of the geological conditions and field observations encountered during drilling are provided on the soil boring logs in Appendix C.

Table 1-4 Summary of Pioneer Field Indications of Contamination

Boring/ Test Pit ID	Interval (ft)	Max PID* (ppm)	Observations	Max TPH[1] (mg/kg)
SB21(a)	12-15	3	Viscous petroleum residue coating soil	4,313
SB21b	10-14	9	Petroleum odor, black staining	33,004
SB21c	10-15	6	Petroleum odor, black staining	10,105
SB21d	10-15	8	Petroleum odor, black staining	42,019
SB21e	10-15	7	Viscous petroleum residue coating soil	19,716
SB21f	11-14	36	Petroleum odor, black staining	50,180
SB21i	11-14	3	Minor black staining	36,043
SB21j	10-15	164	Petroleum odor, black staining	<4,100
SB21n	8-15[2]	0	Viscous petroleum residue coating soil; Hydrogen sulfide odor	91,630
SB21r[TP]	10-15	14	Petroleum odor, black staining, sheen	5,511
SB21t[TP]	9-10[2]	2	Petroleum odor, black staining, sheen	<1,141.1
SB21u[TP]	9-10[2]	0	Petroleum odor, black staining	<1,121.3
SB27	5-10	162	No other evidence of impact	80
SB37	12.5-15	113	No other evidence of impact	164
SB53	15-20	2	Minor petroleum odor	<100
SB55	15-17.5	3	Petroleum odor	<530
SB61(a)	12-19[3]	60	Viscous petroleum residue coating soil	62,016
	35-37.5[3]	2	Petroleum odor	<166
SB61b	13-19[2]	14	Viscous petroleum residue coating soil	34,052
SB61c	11-17[2]	18	Viscous petroleum residue coating soil	16,839
SB61d	14-17	6	Petroleum odor, black staining	13,309
SB61e	11-22	22	Petroleum odor, black staining	40,050
SB61f	8-20	8	Petroleum odor, black staining from 15-20 ft; Hydrogen sulfide odor from 8-15 ft	6,130
SB61g	13-20	1	Petroleum odor, black staining	<68,200
SB61h	13-19[2]	4	Petroleum odor, black staining	16,710
SB61j	15-24	13	Petroleum odor	<990
SB61k	13-23	7	Petroleum odor, black staining	<3,720
SB61m	14-18	4	Petroleum odor, black staining	<41,200
SB61o	15-20[2]	0	Hydrogen sulfide odor	<64
SB61p	15-20[2]	5	Petroleum odor, black staining	17,407
SB61s[TP]	13-17.5[2]	6	Petroleum odor, black staining	32,012

Boring/ Test Pit ID	Interval (ft)	Max PID* (ppm)	Observations	Max TPH(1) (mg/kg)
SB61t[TP]	15-17.5(2)	47	Petroleum odor, black staining	32,064
SB61x[TP]	15-17.5(2)	0	Minor petroleum odor, staining	66,006
SB61z[TP]	15-17.5(2)	17	Petroleum odor, black staining	86,042
SB70(a)	11-15	71	Petroleum odor, black staining	<55.3
SB70b	10-17	68	Petroleum odor, black staining	14,450
SB70c	10-15	85	Petroleum odor, black staining	1,650
SB70d	10-15	154	Petroleum odor, black staining	25,100
SB70e	12-15	68	Petroleum odor, black staining	15,790
SB70f	12-20(2)	7	Petroleum odor, black staining	<30,200
SB70g	11-20(2)	96	Petroleum odor, black staining	25,420
SB70i[TP]	12-15(2)	158	Petroleum odor, black staining	33,510
SB70k[TP]	10-15(2)	25	Petroleum odor, black staining	13,517
SB70l[TP]	15-19(2)	0	Petroleum odor, black staining	27,014
SB70m[TP]	15-18(2)	33	Petroleum odor, black staining	7,218
SB70n[TP]	13-15	0	Petroleum odor, black staining, sheen	4,907
SB70o[TP]	13-16(2)	18	Petroleum odor, black staining	36,022
SB70q[TP]	15-17.5(2)	32	Petroleum odor	138,021
SB70s[TP]	15-17.5(2)	14	Petroleum odor, sheen	5,207
SB70v[TP]	15-17.5(2)	22	Petroleum odor	10,529
SB70x[TP]	14-17.5(2)	0	Petroleum odor, black staining	19,803
SB70y[TP]	15-17.5(2)	0	Minor petroleum odor, black staining	<19,501
SB113	10-12	0	Petroleum odor, sheen	<53.2
SB118	10-12	0	Petroleum odor, black staining	7,431
SB118c	11-15	23	Petroleum odor, black staining	<47,200
SB118d	7-15	16	Petroleum odor, black staining	15,433
SB118e	10-13	8	Petroleum odor, black staining; hydrogen sulfide odor	<8,740
SB118f	10-13	14	Petroleum odor, black staining, sheen	<20
SB119	13-25	10	Petroleum odor, black staining	13,926
SB139	5-7	4	Petroleum odor	<103
SB141	7-10	0	Petroleum odor, black staining	2,460
SB141a	7-10	100	Petroleum odor, black staining	<2,334
SB141b	7-10	7	Petroleum odor	430
SB142	7-10	0	Petroleum odor	<84

Notes: *The maximum PID reading from the corresponding interval listed in this table
(1) Sample interval for TPH analysis is within, but differs from field observation interval specified In Table 1-4 ; refer to Table 1-3 for laboratory analysis sample interval
(2) Boring or test pit did not extend beyond depth indicated
(3) Soil boring SB61(a) blind drilled from 19 to 35 ft BSG; evidence indicates likely petroleum contamination within blind drilled interval
[TP] = test pit
Black highlighted cell indicates original grid or targeted boring

1.4.5 Site Geology

The stratigraphic profile encountered during Pioneer's soil boring activities consisted of an upper heterogeneous fill layer generally composed of historical backfilled slag, followed by layers of native fine sand and silty clay. Slag particle size appeared to most commonly range from sand to gravel, with silt-sized particles and local occurrences of cobbles, and frequent layers of dense hot-poured slag that could not typically be penetrated through standard drilling or excavation techniques. Limited grain-size analysis results from Parcel 17 (at TPH Hotspots 4 and 5) indicated the fill in those areas exhibited approximately 10 to 20 percent fines (defined as particles passing the No. 200 sieve). Additional fill

constituents included crushed concrete, bricks, metal fragments, cinders, wood, and suspected ore, as well as non-slag silt, sand, and gravel likely composed of quartz and limestone.

The fill thickness varied across the subject property with depths on the western portion ranging from approximately 5 to 10 feet BSG, and up to 40 feet BSG on the eastern portion (based on historical and recent geotechnical data). Beneath the fill, native soils typically consisted of dense, wet to saturated, fine sand and silty sand, underlain by stiff silty clay. Silty clay was only encountered in one of Pioneer's soil borings [SB61(a)], at depths from 35 to 40 feet BSG, which was the maximum explored depth and deepest soil boring advanced during Pioneer's Phase II investigation. However, prior geotechnical soil borings indicate that silty clay was first encountered between approximately 21 and 44 feet BSG, underlain by clayey silt (hardpan) and limestone bedrock. Bedrock was encountered at depths ranging from approximately 21 feet (in the northwestern portion of the site) to 80 feet BSG (in the southeastern portion of the site).

Multiple refusal encounters were experienced at the majority of soil boring locations and in most cases, borings were moved several times—from 20 to over 100 feet from original refusal point—in an attempt to obtain the target depths. Subsurface obstructions were extensive and included hot-poured slag, suspected skulls (solidified iron), demolition debris, buried railroad tracks, iron beams and anchors, and remnant concrete footings and foundations (much of it reinforced), which reportedly range in thickness from 1 to 25 feet thick.

Due to the extensive obstructions, certain soil borings and test pits could not be advanced beyond 3 to 10 feet BSG, despite multiple repositioning attempts and prolonged drilling efforts at each location. In many instances, the hot-poured slag was just as difficult to penetrate as the remnant concrete, and concrete was encountered in various locations not depicted on historical foundation plans. In some locations, even with the use of a 25-ton excavator equipped with a concrete breaker, achieving a depth of 15 feet BSG required up to 4 hours—and in other locations, excavation was abandoned when it could not achieve even shallower depths within the same timeframe. The dense subsurface conditions caused prolonged scheduling delays and significant equipment damage.

Groundwater was generally encountered in soil borings between 7 to 15 feet BSG—increasing in depth from west to east—within the fill material or upper 10 feet of native soils below the fill. Groundwater elevation data from monitoring wells identified similar depths to water, indicating unconfined conditions across the site. The deepest observed groundwater levels—approximately 20 feet BSG—were measured in MW-309 and MW-310, both located in areas with the highest surface elevations in which monitoring wells were installed.

A complete listing of the geological conditions encountered during Pioneer's drilling is provided on the soil boring and test pit logs provided in Appendix C. Boring logs associated with CRA's 2008 Phase II ESA are included in that report, and boring logs and stratigraphic cross sections are also available in the 2024 and 2025 geotechnical reports, provided under separate cover.

1.4.5.1 Characteristics of Slag

The fill materials present throughout the subject property include substantial volumes of steel slag, which was historically placed to raise and stabilize low-lying shoreline areas prior to and during the expansion of steel manufacturing operations. Slag deposits are ubiquitous across the site and are a defining subsurface feature. These deposits were likely placed in multiple stages, with much of the initial fill occurring between the 1880s and early 1900s, coinciding with the construction and expansion of the steel plant. Subsequent decades saw continued deposition, including the use of crushed slag as structural fill and grading material for roads, rail spurs and foundations.

The majority of the slag encountered at the Remediation Site is consistent in composition and appearance with blast furnace slag, a byproduct of the iron-making process and the most commonly produced slag material during the South Works' operational history. However, slag from secondary steelmaking processes—such as open hearth furnaces, basic oxygen furnaces, Bessemer converters, and potentially electric arc furnaces—may also be present, particularly in areas formerly occupied by refining infrastructure or slag-handling operations. These materials were likely generated on-site and deposited as part of routine waste management practices during the site's long history of integrated iron and steel production.

Slag is a vitrified material formed during the high-temperature smelting of iron ore and fluxes, whereby impurities are chemically bound into a glassy or crystalline matrix. The specific mineralogy and chemistry of slag varies depending on the smelting and refining processes, but slags generally contain substantial proportions of oxides of calcium, magnesium, silicon, and aluminum. In addition, slag frequently contains elevated concentrations of trace metals associated with steel production, including but not limited to iron, manganese, chromium, vanadium, zinc, lead, arsenic, and molybdenum. The concentrations of these metals vary based on the type of ore and additives used during production.

Blast furnace slags, associated with iron-making, are typically neutral to slightly basic in pH, while slags from steel refining operations (e.g., basic oxygen or electric arc furnaces) tend to be more strongly alkaline due to higher lime content. The co-occurrence of elevated total metals concentrations and alkaline pH in fill material supports the conclusion that slag is widespread across the site, including where fill contents are visually ambiguous.

The site is located within a broader region of southeast Chicago known for extensive slag fill and is part of what has been termed the "slag aquifer," a hydrogeologically significant zone where groundwater interacts with porous slag deposits. This region spans several square miles and extends into parts of northwest Indiana.

At the former South Works site, molten slag was managed using ladle or pot systems that transported the slag to designated cooling pits or directly to fill areas. In some locations, slag was "hot-poured"—discharged in molten form onto the ground, where it rapidly cooled to a solid, concrete-like mass. These deposits are distinct in appearance and often exhibit dense, vesicular textures with sharp fracture patterns.

Slag served both functional and logistical roles at the site; it provided a stable platform for industrial development, enabled waste disposal, and supported beneficial reuse. Historically, steel slag has been used as railroad ballast, aggregate in road base and concrete, insulation material, and as a soil amendment in agriculture. In Illinois, iron and steel slags used for land reclamation are recognized under 35 IAC 817.101(e) and are generally exempt from solid waste regulations (35 IAC 817.101(c)) when managed appropriately.

1.4.6 Site Hydrogeology

1.4.6.1 Hydraulic Gradient

Pioneer subcontracted Spaceco, a licensed surveying firm, to perform an elevation survey of the monitoring well casings and surrounding ground surface. The survey was conducted on October 30, 2024 and February 21, 2025. Elevations were referenced to the Chicago City Datum (CCD) to the nearest 0.01 foot, using standard surveying techniques and tied to established CCD benchmarks.

Monitoring well gauging events were conducted in February, May, June, and July 2025. Prior to each event, water levels were allowed to recharge to static conditions to ensure accurate and representative measurements. Water levels were recorded using a Sonic Interface Probe and compared to surveyed ground surface elevations to calculate groundwater elevations and evaluate apparent groundwater flow direction. The following table summarizes groundwater elevations recorded during the May 2025 event. A complete listing of water level measurements from all gauging events is provided in Appendix D.

Table 1-5 Groundwater Elevation Data

May 21, 2025						
Well ID	**Well Elevation (TOC)**	**Ground Elevation**	**Well Depth (TOC)**	**Depth to Water (TOC)**	**Depth to Water (BSG)**	**Groundwater Elevation**
MW-101	--	--	25.00	17.65	15.65	--
MW-102	15.6	13.1	20.35	15.20	12.70	0.40
MW-102D	15.8	13.3	25.35	15.22	12.72	0.58
MW-104	--	--	26.30	19.90	17.90	--
MW-104D	--	--	42.40	20.05	18.15	--
MW-106	--	--	22.04	14.55	12.9	
MW-202	18.4	16.4	20.30	16.05	14.05	2.35
MW-204	13.7	11.2	17.60	11.10	8.60	--
EW-3[(1)]	--	--	14.75	12.35	9.85	--
NMW-4	--	--	14.80	--	--	--
MW-301	17.1	14.6	17.50	14.40	11.90	2.70
MW-302	16.2	13.7	20.20	11.95	9.45	4.25
MW-303	17.1	16.1	20.00	14.32	13.32	2.78
MW-304	14.1	13.1	15.20	11.35	10.35	2.75
MW-305	11.8	7.8	19.50	11.33	7.33	0.47
MW-306	21.2	18.7	20.20	19.15	16.65	2.05
MW-307	25.5	21.0	20.25	11.65	7.15	13.85
MW-308	12.6	10.1	20.25	11.53	9.03	1.07
MW-309	23.2	20.9	30.30	22.20	19.90	1.00
MW-310	23.7	20.8	30.25	20.80	17.90	2.90
MW-311	18.8	16.6	30.20	15.85	11.65	2.95
MW-312	18.9	16.9	20.00	16.09	14.09	2.81

May 21, 2025						
Well ID	**Well Elevation (TOC)**	**Ground Elevation**	**Well Depth (TOC)**	**Depth to Water (TOC)**	**Depth to Water (BSG)**	**Groundwater Elevation**
MW-313	--	--	--	10.1	--	--
MW-314	15.0	13.7	20.30	14.02	16.72	0.98
MW-315	9.4	9.6	14.80	8.49	8.69	0.91
MW-316	16.2	14.5	20.35	13.66	11.96	2.54
MW-317	15.7	14.7	20.35	13.94	12.94	1.76
MW-318	15.9	13.7	25.40	14.62	12.42	1.28
North Slip(2)	--	9.0	--	--	8.30	0.70
South Slip2)	--	8.2	--	--	7.55	0.65

Notes: All measurements presented in feet
Elevations referenced to CCD
BSG = below surface grade
TOC = top of casing
-- Indicates value not available
(1) EW-3 is an unused extraction well associated with the former Parcel 22 remedial activities
(2) Vessel slip gauging point from edge of bulkhead wall

As indicated by the inferred groundwater elevation contours on Figure 4—based on the May 2025 groundwater elevations—groundwater is mounded in the north-central and south-central portions of the site. Groundwater at the site is generally directed toward surface water discharge zones, although flow is affected by site complexities including on-site infiltration, variations in topography, soil heterogeneity, and subsurface structures. Groundwater typically flows toward Lake Michigan, the Calumet River, and the North and South Vessel Slips, all of which maintain relatively stable surface water elevations near 0 feet CCD. However, surface water elevations are governed by Lake Michigan levels, which fluctuate over time. A National Oceanic and Atmospheric Administration (NOAA) gauging station (#9087044) located near the southwestern corner of the site has recorded Calumet River elevations ranging from approximately -1.5 feet to 4.5 feet CCD over the past decade, representing certain extreme seasonal variations and consistent with changes to Lake Michigan. Periods of elevated lake levels can reduce the hydraulic gradient toward surface water and increase groundwater elevations at the site, thereby influencing the rate and direction of shallow groundwater discharge.

Groundwater elevations measured during the May 2025 gauging event ranged from approximately 0.40 to 4.25 feet CCD, representing a potentiometric relief of approximately 3.85 feet. (Note: MW-307 was excluded from contouring due to an anomalously high elevation of 13.85 feet CCD, which deviates significantly from site trends and was not identified in historical groundwater monitoring data. Located adjacent to the North Vessel Slip, MW-307 likely reflects a localized condition that is not representative of broader site hydrogeology.)

While the general direction of groundwater flow is toward adjacent surface water bodies, the two observed groundwater mounds create localized radial flow, resulting in deviations from the expected eastward regional trend. The combination of these mounds, the relatively flat hydraulic gradients along the western portion of the site, and the results of the groundwater flow modeling (see Section 2.5.2.1) suggest that stormwater infiltration into permeable fill materials exerts a primary control on groundwater elevations, with limited inflow from off-site areas to the west. This locally recharged water raises the potentiometric surface and drives lateral flow across the site.

To calculate the average hydraulic gradient at the subject property, nine representative transects aligned with the direction of groundwater flow were selected (see Figure 4). The resulting hydraulic gradients ranged from 0.0013 ft/ft to 0.0037 ft/ft, with an overall average of 0.0019 ft/ft. To evaluate vertical gradients, Pioneer gauged two nested well pairs—MW-102/MW-102D and MW-104/MW-104D—screened at shallow and deeper intervals. Gauging results indicated vertical gradients ranging from 0 to 0.00267 ft/ft, consistent with negligible vertical flow.

Collectively, these findings suggest that the site's groundwater flow regime is controlled more by localized recharge and site-specific topographic and hydrogeologic conditions, rather than by broader regional flow. The combination of groundwater mounds, limited inflow from off-site areas, and groundwater discharge to adjacent surface water bodies indicates a complex, yet stable hydrogeologic setting that is largely governed by localized recharge.

1.4.6.2 Hydraulic Conductivity

The site's hydrogeological conditions were further evaluated by conducting hydraulic conductivity testing. Specifically, aquifer slug tests were performed in MW-301 and MW-302 on February 19, 2025, and in MW-314 on February 21, 2025 to obtain site-specific hydraulic conductivity values. The basic methodology consisted of lowering a submersible, data-logging pressure transducer into the well and documenting changes in water table elevations following extraction of water using a submersible pump. The rates of recharge/equilibration were recorded using a laptop computer and the recorded data were subsequently plotted and evaluated utilizing widely-accepted methods for slug test data interpretation (Bouwer and Rice), and third-party, groundwater modeling software (AquiferTest Version 11.0) to calculate hydraulic conductivity values. The water level measurements and graphical interpretation of the data for the slug tests are included in Appendix D.

Based on the results of slug testing conducted by Pioneer, the site's hydraulic conductivity ranged from 4.65×10^{-2} cm/s to 8.16×10^{-4} cm/s. Additionally, Pioneer obtained historical slug test reports from 1995 and 2005, which indicated a range of hydraulic conductivities from 1.35×10^{-2} cm/s to 5.32×10^{-5} cm/s. The following table provides a full listing of these hydraulic conductivity values calculated for the site, which equates to an average of 5.40×10^{-3} cm/s. Refer to Appendix D for the current and historical slug test reports.

Table 1-6 Hydraulic Conductivity Values

Monitoring Well	Hydraulic Conductivity	Investigation
MW-301	8.16×10^{-4} cm/s	Pioneer 2025
MW-302	4.65×10^{-2} cm/s	Pioneer 2025
MW-304	5.40×10^{-4} cm/s	Pioneer 2025
MW-102	6.81×10^{-3} cm/s	CRA 2005
MW-102	5.15×10^{-3} cm/s	CRA 2005
MW-102	1.23×10^{-2} cm/s	CRA 2005
MW-102D	3.06×10^{-3} cm/s	CRA 2005
MW-102D	3.73×10^{-3} cm/s	CRA 2005
MW-102D	3.56×10^{-3} cm/s	CRA 2005
MW-104D	5.32×10^{-5} cm/s	CRA 2005
MW-104D	6.81×10^{-4} cm/s	CRA 2005
MW-104D	2.14×10^{-3} cm/s	CRA 2005
MW-104D	3.14×10^{-3} cm/s	CRA 2005
MW-104D	2.04×10^{-3} cm/s	CRA 2005
MW-3	3.59×10^{-3} cm/s	WTI 1995
MW-3	3.07×10^{-3} cm/s	WTI 1995
MW-7	1.30×10^{-3} cm/s	WTI 1995
MW-7D	3.16×10^{-4} cm/s	WTI 1995
MW-8	1.34×10^{-2} cm/s	WTI 1995
MW-9D	2.20×10^{-5} cm/s	WTI 1995
MW-10	1.22×10^{-3} cm/s	WTI 1995
Average	5.40×10^{-3} cm/s	

1.4.6.3 Potable Well Survey

There are no known potable water supply wells located at the Remediation Site or adjacent properties as evidenced by visual (exterior) inspections, and the subject property and all areas within at least 2,500 feet of the site are within the City of Chicago, which maintains an ordinance that prohibits the use of groundwater for potable purposes.

However, in order to demonstrate that the Remediation Site is not located within the minimum or designated maximum setback zone or within a regulated recharge area of an existing potable water supply well, Pioneer conducted a search for potable wells within a 2,500-foot radius of the Remediation Site. The well survey was performed in accordance with 35 IAC 1600.210 except that a 2,500-foot search distance was used for all wells in place of the default, minimum 200-foot search distance for private, semi-private, and non-community water supply system wells. The results of the well search are outlined in the following table.

Table 1-7 Potable Well Survey Information

Illinois EPA's Division of Public Water Supplies (via the Source Water Assessment Program [SWAP] online ArcGIS Mapping System)	
Private wells (identified as "ISGS Database Wells" and "Water and Related Wells")	Two water wells; 12 monitoring wells; 52 engineering wells
	The water wells (one located on the current Remediation Site and one located on the north adjacent property) are located on vacant parcels associated with the former South Works facility and were installed in 1930. Neither well currently exists based on direct visual inspections of these areas and the documented past demolition activities.
Non-community water supply wells	None
Community water supply wells	None
Maximum designated setback zones	None
Regulated recharge areas	None
Wellhead protection areas	None
Illinois Resource Management Mapping Service (RMMS)	
Private wells (identified as "ISGS Well Data 2012")	Two water wells (consistent with the SWAP map as discussed above)
Community water supply wells	None
Community water supply regulated recharge areas	None
Illinois State Water Survey (ISWS) domestic wells database	
Private wells	This source did not include any data for areas within 2,500 feet of the Remediation Site.
Illinois Department of Public Health (IDPH)	
Non-community water supply wells	None
City of Chicago well survey report compiled by the Department of Environment (DOE)	
Private wells	None

Based on the available documentation, there are no community water supply wells within 2,500 feet of the Remediation Site, and the Remediation Site is not located within the minimum or maximum designated setback zones or regulated recharge areas of any active potable wells. Documentation associated with this well survey is provided in Appendix D.

1.4.6.4 Groundwater Classification

As noted previously, the Illinois EPA issued a letter in January 1995 recommending a Class II groundwater classification for groundwater beneath the site. This designation applied to groundwater within the slag fill material and the upper 10 feet of underlying parent material (see Appendix D for a copy of the Illinois EPA letter). Pioneer's recent subsurface investigations confirmed that current geologic and hydrogeologic conditions are consistent with those documented in earlier investigations supporting the site's existing NFR Letters. Because groundwater classification is determined by physical site characteristics that remain unchanged, the Class II designation continues to apply to this assessment.

Due to recent amendments to 35 IAC Part 620(a) regarding groundwater classification, Pioneer reviewed the new provisions that were not in effect when the original NFR Letters were issued. In particular, subsections 620.210(a)(5) and 620.210(a)(6) were added and have now been evaluated to confirm that the groundwater at the Remediation Site does not qualify as Class I groundwater. The applicability of these new criteria to site-specific conditions is discussed below:

- *620.210(a)(5)—a wellhead protection area, as defined in Section 620.110, that is a Phase I or Phase II wellhead protection area delineated in compliance with the "Guidance Document for Groundwater Protection Needs Assessments" and "The Illinois Wellhead Protection Program", both incorporated by reference in Section 720.125; or*

  As documented in the well survey included in the previous section, the Remediation Site is not located within a wellhead protection area.

- *620.210(a)(6)—the maximum setback zone of a community water supply well adopted under Section 14.3 of the Act.*

  As documented in the well survey included in the previous section, the Remediation Site is not located within the maximum setback zone of any community water supply wells.

It is also noted that in accordance with 35 IAC 620.420(a)(3), barium, pH, and the other inorganic chemical standards identified in 620.420(a)(2) do not apply to groundwater in this setting.

1.5 Endangerment Assessment

For initial screening purposes, the analytical results outlined herein are compared to the Tier 1 SROs, GROs and soil gas remediation objectives (SGROs) found in 35 IAC 742 (TACO).

Note that laboratory reports associated with Pioneer's sampling events are provided in Appendix H. Laboratory reports for samples previously collected by others are provided in respective reports under separate cover, if available.

1.5.1 Applicable Exposure Routes

- Soil Ingestion & Outdoor Inhalation Exposure Routes: Current development plans for the Remediation Site consist of industrial/commercial land use. Therefore, the applicable Tier 1 remediation objectives for the soil ingestion and outdoor inhalation exposure routes include the Tier 1 SROs and/or Tier 1 SGROs for industrial/commercial property and construction workers. The eventual NFR Letter(s) will serve as an institutional control for allowable land use. Due to the size of the site, certain areas may be redeveloped with land uses that would be considered residential (e.g., public trails, parks, medical facilities, etc.), and in those cases, an amended report(s) comparing results to residential standards will be issued once those property uses and areas are defined.

- Soil and Groundwater Components of the Groundwater Ingestion Exposure Route: The Tier 1 SROs and GROs for the soil and groundwater components of Class II groundwater ingestion shall apply to the Remediation Site.

- Indoor Inhalation Exposure Route: The proposed buildings will be constructed with concrete slab-on-grade foundations. Therefore, the applicable objectives for the indoor inhalation exposure route are the industrial/commercial Tier 1 GROs and SGROs where the mode of contaminant transport is

both diffusion and advection (Appendix B, Table H of 35 IAC 742). As noted previously and due to the size of the site, certain areas may be redeveloped with land uses that would be considered residential (e.g., public trails, parks, medical facilities, etc.), and in those cases, an amended report(s) comparing results to residential standards will be issued once those property uses and areas are defined.

1.5.1.1 Updated Background Concentrations - PNAs

In accordance with 35 IAC 742.415, the applicable (Chicago) background concentrations for certain PNAs may be used in place of the current, published Tier 1 SROs. The background values used for this evaluation (as presented on Table No. 3 in the "Tables" section of the appendices) are the current acceptable background concentrations provided by the Illinois EPA in 2022.

1.5.1.2 Updated Background Concentrations - Metals

Pioneer understands that the Illinois EPA has calculated updated background levels for metals in accordance with 35 IAC 742.405(b)(2), and a Remediation Applicant now has the option to use the new 95th parametric percentile background values, determined by an updated study of inorganics in Illinois, in place of the background levels that are currently listed in 35 IAC 742.Appendix A, Table G. Pioneer also understands that the 95th parametric percentile values have been approved by the Illinois EPA in accordance with 35 IAC 742.415(b)(2). Therefore, the background values used for the Remediation Site (presented on Table No. 4 in the "Tables" section of the appendices) are the 95th parametric percentile values provided by the Illinois EPA in 2023, with the exception of antimony and arsenic.

In accordance with 35 IAC 742, Appendix B, Table A, the applicable background concentration for arsenic may be utilized as the Tier 1 SRO for the soil ingestion exposure route. Also, excluding calcium, magnesium, potassium and sodium, for metals where no pH-specific Tier 1 SROs are available for the migration to groundwater exposure route, the analytical testing results may be compared to the concentrations of inorganic chemicals in background soils. Calcium, magnesium, potassium and sodium are excluded from this evaluation since there are no corresponding TCLP or SPLP Tier 1 SROs in the TACO regulations; thus, an evaluation of these metals in relation to the soil component of the groundwater ingestion exposure route is not required.

1.5.1.3 Elevated Detection Limits

Detection limits that exceeded the applicable Tier 1 remediation objectives were only evaluated as potential impacts for compounds that were detected in at least one soil or groundwater sample. Of the detected compounds, arsenic, 2,4-dinitrotoluene, 2-hexanone, and methylene chloride had elevated detection limits that exceeded Tier 1 SROs.

1.5.1.4 Non-TACO SROs

The Illinois EPA formerly provided SROs for non-TACO chemicals; however, the non-TACO SROs were rescinded in 2016. At that time, the Illinois EPA provided updated non-TACO SROs for acenaphthylene, benzo(g,h,i)perylene, and phenanthrene; however, SROs for other non-TACO chemicals must be calculated following the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Chemicals Not Listed in TACO Regulations."

Aside from acenaphthylene, benzo(g,h,i)perylene and phenanthrene, the only non-TACO chemicals detected in soil samples collected from the Remediation Site are aluminum, 2-butanone, 2-hexanone, 2-methylnaphthalene, 2-nitroaniline, 3,4-methylphenol, and dibenzofuran. All detected concentrations of aluminum in soil are below the 95th percentile concentration for background soils. Therefore, non-TACO SROs did not need to be calculated for aluminum, and non-TACO SROs were only calculated for 2-butanone, 2-hexanone, 2-methylnaphthalene, 2-nitroaniline, 3,4-methylphenol and dibenzofuran; see the non-TACO SRO calculation spreadsheets following the analytical data tables in the "Tables" section of the appendices.

1.5.2 Tier 1 Evaluation – Soil

Pioneer's soil sample analytical results revealed the presence of heavy metals (primarily arsenic, chromium, and manganese) generally detected site-wide at concentrations above the Tier 1 SROs for soil ingestion and outdoor inhalation for industrial/commercial property and construction workers. However, results of the extensive leachability (TCLP/SPLP) testing demonstrated that the metals exhibit significant immobility, with only sporadic low-level impacts to the soil migration pathway and no exceedances of the "hazardous" toxicity characteristics.

Aside from metals, and excluding the applicable elevated detection limits, other contaminants of concern (COCs) detected above the applicable Tier 1 SROs in the 250 Pioneer soil samples analyzed for the TCL parameters include:

- VOCs in one sample (only methylene chloride);
- Non-PNA SVOCs in five samples (only dibenzofuran and/or carbazole);
- PNAs in 15 samples (incorporating the current background concentrations for Chicago);
- Pesticides in one sample (only dieldrin and heptachlor epoxide); and
- PCBs in nine samples
    - Note: Only one sample [SB55 (0-3)] exhibited a PCB concentration greater than 10 mg/kg (but less than 50 mg/kg). This impact will be further addressed under the U.S. EPA's self-implementing cleanup regulations (40 CFR 761.61[a]).

The affected Tier 1 SRO exposure routes include soil ingestion, outdoor inhalation, and the soil component of groundwater ingestion. Additionally, PNAs were detected in one sample and TPH in numerous samples at concentrations above the default soil attenuation capacity (Hotspots 1 through 5).

The soil sample analytical results from the 2007 and 2017 Phase II investigations were generally consistent with Pioneer's findings. However, it should be noted that the samples analyzed for total metals as part of the prior investigations were not co-sampled for pH and did not undergo leachability testing. The soil migration to groundwater exposure route will be evaluated solely through Pioneer's current data given:

(1) the relative consistency of the total metals concatenations between the previous and Pioneer investigations;

(2) Pioneer targeting certain prior sample locations with elevated total metals concentrations; and

(3) the extensive leachability testing conducted by Pioneer.

A complete listing of Pioneer's soil sample analytical results in comparison to the applicable Tier 1 SROs is provided in Table Nos. 1 through 10 in the "Tables" section of the appendices. Refer to the attached Figures 5 through 8 for diagrams depicting the locations of Tier 1 impacts. Documentation from the 2007 and 2017 Phase II investigations has been included with this submission under separate cover.

The following table provides a summary of the cumulative (2007-2025) soil sample locations where the applicable Tier 1 SROs were exceeded.

Table 1-8 Soil Sample Locations Where COCs Exceed the Applicable Tier 1 SROs

Soil Sample ID	TACO Soil Exposure Pathways					Default Soil Attenuation Capacity
	Ingestion (Industrial/ Commercial)	Outdoor Inhalation (Industrial/ Commercial)	Ingestion (Construction Worker)	Outdoor Inhalation (Construction Worker)	Class II Migration to Groundwater	
CRA Focused Phase II Investigation – 2007						
B-2 (7-9)	BaA, BaP, BbF, IcdP	--	--	--	BaA	--
B-7 (8-10)	--	Cr	Mn	Mn, Hg	--	--
B-11 (10-12)	As	Cr	--	Cr	--	--
B-19 (8-10)	--	--	--	Hg	--	--
B-32 (10-12)	As	--	--	--	--	--
SS-008 (0-0.5)	--	--	Mn	--	--	--
SS-010 (0-0.5)	BaA, BaP, BbF, DahA, IcdP, Mn, Pb	--	--	--	BaA	--
SS-012 (0-0.5)	BaA, DahA	--	--	--	BaA	
SS-015 (0-0.5)	--	--	Mn	--	--	--
GHD Phase II Investigation – 2017						
B-2W20 (7-9)	BaA, BaP, BbF, BkF, DahA	--	BaP	--	BaA, BbF	--
PCB 1E20	PCBs	--	PCBs	--	--	--
PCB 1N20	PCBs	--	PCBs	--	--	--

Soil Sample ID	TACO Soil Exposure Pathways					Default Soil Attenuation Capacity
	Ingestion (Industrial/ Commercial)	Outdoor Inhalation (Industrial/ Commercial)	Ingestion (Construction Worker)	Outdoor Inhalation (Construction Worker)	Class II Migration to Groundwater	
PCB 35N20	PCBs	--	PCBs	--	--	--
PCB 35S20	PCBs	--	PCBs	--	--	--
SS-10E20	BaA, BaP, BbF, BkF, DahA, IcdP	--	--	--	BaA, BbF	--
SS-10S20	BaA, BaP, BbF, BkF, DahA, IcdP	--	--	--	BaA, BbF	--
SS-10W20	BaA, BaP, BbF, BkF, DahA, IcdP	--	--	--	BaA, BbF	--
SS-113	BaA, BaP, BbF, BkF, DahA, IcdP	--	BaP, DahA	--	BaA, BbF, DahA	--
SSPCB-13	PCBs	--	PCBs	--	--	--
TTP-18	PCBs	--	PCBs	--	--	--
B-7E20	--	Cr	Mn	Cr, Mn	--	--
B-7N20	--	Cr	Mn	--	--	--
B-7W20	--	Cr	Mn	Cr	--	--
Pioneer Phase II Investigation – 2024-2025						
SB1 (5-7.5)	--	--	Mn	--	--	--
SB2 (0-3)	--	--	--	Hg	*(Hg)*	--
SB2 (3-5)	--	--	--	--	MC *[2-Hex]*	--
SB3 (0-3)	--	Cr	Mn	Cr, Mn	*(CN)*	--
SB3 (5-7.5)	As, Pb		Pb, Mn	Mn	--	--
SB4 (0-3)	Pb	--	Pb	--	~~Fe~~	--
SB5 (0-3)	--	--	Mn	--	*(CN)*	--
SB6 (0-3)	As	Cr	Mn	Cr, Mn	*(CN)*	--
SB6 (3-5)	--	--	Mn	--	--	--
SB8 (0-3)	--	--	Mn	Mn	--	--
SB9 (0-3)	As	--	--	--	--	--
SB10 (0-3)	DahA	--	--	--	--	--
SB10 (5-7.5)	BaA, BaP, BbF, BkF, DahA, IcdP	--	BaA, BaP, BbF, DahA	Naph	Carb, BaA, BaP, BbF, DahA, IcdP, DBF *(CN)*	PNAs
SB11 (0-3)	--	--	Mn	--	--	--
SB11 (5-7.5)	--	--	Mn	Mn	--	--
SB12 (0-3)	--	--	--	--	--	--
SB13 (0-3)	--	Cr	Mn	Cr, Mn	V	--
SB13 (5-7.5)	--	--	Pb	Hg	--	--
SB14 (0-3)	Pb	--	Pb	Hg	--	--
SB15 (0-3)	--	--	--	Hg	*(Hg)*	--
SB15 (7.5-10)	--	--	--	--	*(CN)*	--
SB16 (0-3)	--	--	--	--	*(CN)*	--
SB16 (3-5)	--	--	Mn	--		--

Soil Sample ID	TACO Soil Exposure Pathways					Default Soil Attenuation Capacity
	Ingestion (Industrial/ Commercial)	Outdoor Inhalation (Industrial/ Commercial)	Ingestion (Construction Worker)	Outdoor Inhalation (Construction Worker)	Class II Migration to Groundwater	
SB17 (0-3)	--	--	Mn	--	*(CN) [2-Hex]*	--
SB18 (0-3)	--	Cr	Mn	Cr, Mn	*(CN, Hg) [2-Hex]*	--
SB19 (0-3)	--	--	--	--	*[2-Hex]*	--
SB20 (0-3)	--	Cr	Mn	Mn	*(CN)*	--
SB20 (3-5)	--	--	--	--	*(Hg) [2-Hex]*	--
SB21 (0-3)	--	--	Mn	--	*(CN) [2-Hex]*	--
SB21 (12.5-15)	--	--	--	--	*[2-Hex]*	TPH
SB21b (10-12.5)	*	*	*	*	*	TPH
SB21c (12.5-15)	*	*	*	*	*	TPH
SB21d (10-12.5)	*	*	*	*	*	TPH
SB21e (12.5-15)	*	*	*	*	*	TPH
SB21f (10-15)	*	*	*	*	*	TPH
SB21f (15-17.5)	*	*	*	*	*	TPH
SB21h (10-15)	*	*	*	*	*	TPH
SB21h (15-17.5)	*	*	*	*	*	TPH
SB21i (10-15)	*	*	*	*	*	TPH
SB21i (15-17.5)	*	*	*	*	*	TPH
SB21j (10-12.5)	*	*	*	*	*	TPH
SB21j (12.5-15)	*	*	*	*	*	TPH
SB21n (10-15)	*	*	*	*	*	TPH
SB21r (10-15)	*	*	*	*	*	TPH
SB23 (5-7.5)	--	--	--	Hg	*(CN, Hg)*	--
SB24 (0-3)	--	--	Mn	Hg	*(CN, Hg)*	--
SB24 (7.5-10)	Pb	--	Pb	Hg	*(CN, Hg)*	--
SB25 (0-3)	--	--	Mn	Hg	*(CN, Hg)*	--
SB25 (3-5)	DahA, IcdP	--	Mn	Hg	*(CN, Hg)*	--
SB26 (0-3)	As, Mn, Th	--	Mn, Th	Hg, Mn	*(CN)*	--
SB26 (7.5-10)	--	--	Mn	Mn	*(CN)*	--
SB27 (5-7.5)	--	--	--	--	*[2-Hex]*	--
SB28 (0-3)	--	--	Mn	--	*(CN) [2-Hex]*	--
SB28 (10-12.5)	--	--	Mn	--	--	--
SB29 (0-3)	--	--	Mn	--	--	--
SB29 (7.5-10)	--	--	Mn	--	--	--
SB30 (0-3)	--	--	Mn	Mn	--	--
SB30 (12.5-15)	--	--	Mn	--	*(CN) [2-Hex, MC]*	--

Soil Sample ID	TACO Soil Exposure Pathways					Default Soil Attenuation Capacity
	Ingestion (Industrial/ Commercial)	Outdoor Inhalation (Industrial/ Commercial)	Ingestion (Construction Worker)	Outdoor Inhalation (Construction Worker)	Class II Migration to Groundwater	
SB31 (0-3)	--	Cr	--	Cr	--	--
SB32 (0-3)	--	--	--	--	*(CN)*	--
SB32 (5-7.5)	--	--	Mn	Mn	*(Hg)*	--
SB33 (0-3)	--	Cr	Mn	Mn	*(CN, Hg)*	--
SB33 (5-7.5)	--	Cr	Mn	Mn	*(CN)*	--
SB34 (0-3)	As	Cr	Mn	Mn, Hg	*(CN, Hg)*	--
SB34 (5-7.5)	As		Mn	--	*~~(Fe)~~ [2-Hex]*	--
SB35 (0-3)	--	Cr	Mn	Cr, Mn, Hg	*(CN, Hg)*	--
SB35 (7.5-10)	--	Cr	Mn	Cr, Mn	*(CN, Hg)*	--
SB36 (0-3)	As	Cr	Cr, Mn	Cr	*(CN)*	--
SB36 (5-7.5)	As	Cr	Mn	Cr, Hg	*(CN, Hg)*	--
SB37 (0-3)	--	--	--	Hg	*(Hg)*	--
SB38 (0-3)	--	--	Mn	Mn, Hg	*(Hg)*	--
SB39 (0-3)	DahA, PCBs	--	PCBs, Mn	--	*(CN)*	--
SB39 (7.5-10)	PCBs	--	PCBs	--	*(CN)*	--
SB40 (0-3)	--	Cr	Mn	Hg	*(Hg)*	--
SB40 (5-7.5)	--	Cr	Mn	Cr, Mn, Hg	*(Hg)*	--
SB41 (0-3)	BaA, BaP, BbF, DahA, IcdP, PCBs	BaP	BaP, Mn, PCBs	Naph	Carb, BaA, BbF, DahA *(CN)*	--
SB41 (5-7.5)	--	Cr	--	--	*(CN)*	--
SB42 (0-3)	As, Pb	--	Sb, Pb	--	--	--
SB43 (0-3)	--	--	--	--	*(CN)*	
SB44 (0-3)	As	--	--	--	--	--
SB45 (5-7.5)	--	--	Mn	Mn	--	--
SB46 (0-3)	--	Cr	Mn	Naph, Cr, Mn	--	--
SB46 (3-5)	As	Cr	Mn	Cr, Mn, Hg	*(CN, Hg)*	--
SB47 (0-3)	--	--	Mn	Mn, Hg	*(CN, Hg)*	--
SB47 (7.5-10)	--	--	Mn	Hg	*(Hg)*	--
SB48 (0-3)	--	--	--	Hg	*(Hg)*	--
SB48 (5-7.5)	BaA, BaP, BbF, DahA, IcdP	--	BaP	--	Carb, BaA *(CN, Hg)*	--
SB49 (0-3)	--	--	Mn	--	*(CN)*	--
SB49 (10-12.5)	--	--	Mn	Mn	--	--
SB50 (0-3)	--	--	Mn	Mn	--	--
SB50 (7.5-10)	--	--	Mn	--	--	--
SB51 (0-3)	As, Cr	Cr	Cr, Sb, Mn, Ni	Cr	*[2-Hex, MC]*	--
SB51 (5-7.5)	As	--	Mn	Hg	--	--
SB52 (0-3)	--	--	--	Hg	*(CN, Hg)*	--
SB52 (7.5-10)	As	--	--	Hg	--	--

Soil Sample ID	TACO Soil Exposure Pathways					Default Soil Attenuation Capacity
	Ingestion (Industrial/ Commercial)	Outdoor Inhalation (Industrial/ Commercial)	Ingestion (Construction Worker)	Outdoor Inhalation (Construction Worker)	Class II Migration to Groundwater	
SB53 (0-3)	--	Cr	Mn	Cr, Hg, Mn	*(CN) [2-Hex]*	--
SB54 (0-3)	As	Cr	Mn	Hg, Mn	*[2-Hex]*	--
SB54 (10-12.5)	As	--	Mn	Mn	*[2-Hex]*	--
SB55 (0-3)	Dieldrin, HepEp, PCBs	--	Mn, PCBs	Mn	Dieldrin *(CN, Hg)*	--
SB55 (5-7.5)	As	--	Mn	Hg	--	--
SB56 (0-3)	As	--	--	Hg	*(Hg)*	--
SB56 (5-7.5)	--	--	--	--	*[2-Hex]*	--
SB57 (0-3)	--	Cr	Mn	Cr, Mn	*(CN)*	--
SB57 (7.5-10)	*[As]*	--	Mn	--	--	--
SB58 (0-3)	--	--	Mn	--	*(CN)*	--
SB59 (0-3)	--	--	--	Hg	*(Hg)*	--
SB59 (5-7.5)	--	--	--	Hg	*(CN, Hg)*	--
SB60 (0-3)	--	--	Mn	--	*(CN)*	--
SB60 (7.5-10)	--	--	Mn	--	*(CN, Hg)*	--
SB61 (0-3)	--	--	Mn	--	*[2-Hex] (CN)*	--
SB61 (12.5-15)	*	*	*	*	*	TPH
SB61 (17.5-19)	--	--	Mn	Naph	*[2,4-DNT, 2-Hex, MC] (CN)*	TPH
SB61b (12.5-15)	*	*	*	*	*	TPH
SB61c (12.5-15)	*	*	*	*	*	TPH
SB61c (15-17)	*	*	*	*	*	TPH
SB61d (17.5-20)	*	*	*	*	*	TPH
SB61d (25-27.5)	*	*	*	*	*	TPH
SB61e (10-12.5)	*	*	*	*	*	TPH
SB61f (15-17.5)	*	*	*	*	*	TPH
SB61g (12.5-15)	*	*	*	*	*	TPH
SB61h (12.5-15)	*	*	*	*	*	TPH
SB61h (17.5-19)	*	*	*	*	*	TPH
SB61k (15-17.5)	*	*	*	*	*	TPH
SB61k (25-27.5)	*	*	*	*	*	TPH
SB61m (14-15)	*	*	*	*	*	TPH
SB61m (15-18)	*	*	*	*	*	TPH
SB61p (17.5-20)	*	*	*	*	*	TPH
SB61q (15-17.5)	*	*	*	*	*	TPH
SB61s (15-17.5)	*	*	*	*	*	TPH
SB61t (15-17.5)	*	*	*	*	*	TPH
SB61v (15-17.5)	*	*	*	*	*	TPH
SB61x (15-17.5)	*	*	*	*	*	TPH

Soil Sample ID	TACO Soil Exposure Pathways					Default Soil Attenuation Capacity
	Ingestion (Industrial/ Commercial)	Outdoor Inhalation (Industrial/ Commercial)	Ingestion (Construction Worker)	Outdoor Inhalation (Construction Worker)	Class II Migration to Groundwater	
SB61z (15-17.5)	*	*	*	*	*	TPH
SB63 (0-3)	--	--	--	--	*(CN)*	--
SB64 (0-3)	BaP, DahA, IcdP	--	--	--	--	--
SB64 (7.5-10)	--	--	--	--	*(CN)*	--
SB65 (0-3)	--	--	--	--	*(CN)*	--
SB66 (0-3)	--	--	--	--	*(CN)*	--
SB67 (3-5)	--	--	--	--	*(CN) [2-Hex]*	
SB68 (0-3)	--	Cr	Mn	Hg, Mn	*(CN, Hg)*	--
SB68 (7.5-10)	--	--	Mn	Cr, Mn, Hg	*(CN, Hg)*	--
SB69 (0-3)	--	--	--	Hg	*(CN, Hg)*	--
SB69 (3-5)	--	--	--	Hg	*(Hg)*	--
SB70 (12.5-15)	--	--	--	--	--	TPH
SB70b (12.5-15)	*	*	*	*	*	TPH
SB70d (10-12.5)	*	*	*	*	*	TPH
SB70e (10-12.5)	*	*	*	*	*	TPH
SB70f (10-15)	*	*	*	*	*	TPH
SB70g (10-15)	*	*	*	*	*	TPH
SB70g (15-17.5)	*	*	*	*	*	TPH
SB70i (10-15)	*	*	*	*	*	TPH
SB70k (10-15)	*	*	*	*	*	TPH
SB70l (15-17.5)	*	*	*	*	*	TPH
SB70m (15-17.5)	*	*	*	*	*	TPH
SB70n (12.5-15)	*	*	*	*	*	TPH
SB70o (12.5-15)	*	*	*	*	*	TPH
SB70q (15-17.5)	*	*	*	*	*	TPH
SB70s (15-17.5)	*	*	*	*	*	TPH
SB70v (15-17.5)	*	*	*	*	*	TPH
SB70w (15-17.5)	*	*	*	*	*	TPH
SB70x (15-17.5)	*	*	*	*	*	TPH
SB70y (15-17.5)	*	*	*	*	*	TPH
SB71 (0-3)	PCBs	--	Mn, PCBs	--	*(CN, Hg)*	--
SB75 (0-3)	--	--	--	--	*(CN)*	--
SB75 (5-7.5)	--	--	--	--	*(CN)*	--
SB76 (0-3)	*[As]*	Cr	Mn	Cr, Mn	V *(CN)*	--
SB76 (7.5-10)	--	--	Mn	Mn	*(CN)*	--
SB77 (0-3)	--	--	Mn	Hg	*(Hg)*	--
SB77 (5-7.5)	--	--	Mn	--	*(CN)*	--
SB78 (0-3)	*[As]*	Cr	Mn	--	--	--

Soil Sample ID	TACO Soil Exposure Pathways					Default Soil Attenuation Capacity
	Ingestion (Industrial/ Commercial)	Outdoor Inhalation (Industrial/ Commercial)	Ingestion (Construction Worker)	Outdoor Inhalation (Construction Worker)	Class II Migration to Groundwater	
SB78 (10-12.5)	As	--	Mn	Mn	V	--
SB79 (0-3)	--	--	Mn	Mn	*(CN)*	--
SB79 (5-7.5)	--	--	Mn	Mn	*(CN)*	--
SB80 (0-3)	PCBs	--	Mn, PCBs	Hg	*(CN)*	--
SB80 (3-5)	--	--	Mn	--	*(CN)*	--
SB81 (0-3)	As	--	Mn	Mn, Hg, HCCP	*(Hg)*	--
SB81 (7.5-10)	--	--	--	Hg	--	--
SB82 (0-3)	--	--	Mn	--	*(CN)*	--
SB82 (5-7.5)	--	--	Mn	--	*(CN)*	--
SB83 (0-3)	--	--	Mn	Mn, Hg	*(CN, Hg)*	--
SB83 (3-5)	--	Cr	Mn	Cr, Mn	*(CN)*	--
SB84 (0-3)	--	--	Mn	Mn	*(CN)*	--
SB84 (5-7.5)	--	--	Mn	Mn	V *(CN)*	--
SB85 (0-3)	--	--	--	--	*(CN)*	--
SB85 (10-12.5)	--	--	Mn	Mn	*(CN)*	--
SB86 (0-3)	As	--	Mn	Hg	*(CN)*	--
SB86 (7.5-10)	--	--	Mn	--	*(CN)*	--
SB87 (0-3)	DahA, IcdP	--	Mn	Mn, Hg	Carb	--
SB87 (3-5)	--	--	Mn	--	*(CN)*	--
SB89 (0-3)	Cr	--	Mn	Cr, Mn	--	--
SB89 (3-5)	Cr	--	Mn	Cr, Mn	--	--
SB90 (0-3)	Cr, Mn	--	Mn	Cr, Mn	V	--
SB90 (7.5-10)	Cr	--	Mn	Cr, Mn	*(CN)*	--
SB91 (0-3)	Cr	--	Mn	Cr, Mn, Hg	*(CN)*	--
SB91 (12.5-15)	Cr	--	Mn	Cr, Mn, Hg	*(CN, Hg)*	--
SB92 (0-3)	--	--	Mn	Mn	*(CN)*	--
SB92 (3-5)	Cr	--	Cr, Mn	Mn	V *(CN)*	--
SB93 (0-3)	--	--	Mn	Naph, Mn	--	--
SB93 (5-7.5)	As	--	Mn	Mn, HCCP	--	--
SB94 (0-3)	--	Cr	Mn	Mn, Hg	V *(CN, Hg)*	--
SB94 (12.5-15)	--	--	Mn	--	--	--
SB95 (0-3)	PCBs	--	Mn, PCBs	--	*(CN)*	--
SB95 (5-7.5)	As, PCBs	--	Mn, PCBs	Mn	--	--
SB96 (0-3)	--	--	Mn	Mn	*(CN)*	--
SB96 (7.5-10)	--	--	Mn	--	*(CN)*	--
SB97 (0-3)	--	--	Mn	Mn	*(CN)*	--
SB97 (5-7.5)	--	--	Mn	Mn, Hg	*(CN)*	--

Soil Sample ID	TACO Soil Exposure Pathways					Default Soil Attenuation Capacity
	Ingestion (Industrial/ Commercial)	Outdoor Inhalation (Industrial/ Commercial)	Ingestion (Construction Worker)	Outdoor Inhalation (Construction Worker)	Class II Migration to Groundwater	
SB98 (0-3)	--	--	Mn	--	--	--
SB98 (7.5-10)	--	--	Mn	Mn	V *(CN)*	--
SB99 (0-3)	--	Cr	Mn	Mn	*(CN)*	--
SB99 (10-12.5)	--	--	Mn	Mn	*(CN)*	--
SB100 (0-3)	--	--	Mn	Mn	*(CN)*	--
SB100 (3-5)	--	--	Mn	Mn	*(CN)*	--
SB101 (0-3)	--	--	Mn	Mn, Hg	*(CN, Hg)*	--
SB101 (12.5-15)	--	--	Mn	--	*(CN, Hg)*	--
SB102 (0-3)	*[As]*	Cr	Mn	Cr, Mn, Hg	*(CN, Hg)*	--
SB102 (7.5-10)	--	--	Mn	--	--	--
SB103 (0-3)	--	Cr	Mn	--	--	--
SB105 (0-3)	--	--	--	Hg	--	
SB105 (10-12.5)	--	--	Mn	Mn	--	--
SB106 (0-3)	As, Mn	--	Mn	Mn	*(CN)*	--
SB107 (0-3)	--	--	Mn	Mn	*(CN)*	--
SB107 (7.5-10)	As	--	Mn	Mn	*(CN)*	--
SB108 (0-3)	--	Cr	Mn	Cr, Mn	*(CN)*	--
SB109 (0-3)	As	Cr	Mn	Cr, Mn	*(CN)*	--
SB109 (5-7.5)	--	--	Mn	Mn	--	--
SB110 (0-3)	--	Cr	Mn	Cr, Mn	--	--
SB110 (5-7.5)	--	--	Mn	--	--	--
SB111 (3-5)	--	--	--	Hg	--	--
SB114 (0-3)	--	--	--	--	*(CN)*	--
SB114 (7.5-10)	--	--	--	--	*(CN)*	--
SB115 (0-3)	As, BaA, BaP, BbF, DahA, IcdP	--	BaP, Mn	Naph	BaA, BbF *(CN)*	--
SB115 (5-7.5)	BaA, BaP, BbF, DahA, IcdP	--	BaP	Naph	Carb, BaA, BbF *(CN)*	--
SB116 (0-3)	DahA	Cr	--	Naph, HCCP	*(CN)*	--
SB116 (12.5-15)	--	--	--	--	*(CN)*	--
SB117 (0-3)	--	--	Mn	--	--	--
SB117 (5-7.5)	--	--	--	--	*(CN)*	--
SB118 (10-12.5)	*	*	*	*	*	TPH
SB118c (10-15)	*	*	*	*	*	TPH
SB118d (7.5-10)	*	*	*	*	*	TPH
SB118d (10-15)	*	*	*	*	*	TPH
SB118e (10-12.5)	*	*	*	*	*	TPH
SB119 (15-17.5)	*	*	*	*	*	TPH
SB119 (22.5-25)	*	*	*	*	*	TPH

Soil Sample ID	TACO Soil Exposure Pathways					Default Soil Attenuation Capacity
	Ingestion (Industrial/ Commercial)	Outdoor Inhalation (Industrial/ Commercial)	Ingestion (Construction Worker)	Outdoor Inhalation (Construction Worker)	Class II Migration to Groundwater	
SB120 (0-3)	--	--	--	Hg	--	--
SB121 (0-3)	--	--	Mn	--	--	--
SB122 (0-3)	--	--	Mn	--	*[2,4-DNT]*	--
SB123 (0-3)	As	--	Mn	Hg	--	--
SB124 (0-3)	BaA, BaP, BbF, DahA, IcdP		BaP	--	BaA, BbF	--
SB125 (0-3)	As	--	--	--	*[2,4-DNT]*	--
SB125 (7.5-10)	--	--	Mn	--	*[2,4-DNT]*	--
SB126 (0-3)	--	--	Mn	Mn	*[2,4-DNT]*	--
SB126 (5-7.5)	As	--	--	--	*[2,4-DNT]*	--
SB127 (0-3)	--	--	Mn	Hg	*[2,4-DNT]*	--
SB128 (0-3)	--	--	Mn	Hg	--	--
SB128 (7.5-10)	As	Cr	Mn	Hg	--	--
SB129 (0-3)	As, Pb	Cr	Sb, Pb	Cr	--	--
SB129 (5-7.5)	--	--	Mn	Mn	--	--
SB141 (5-7.5)	--	--	--	--	--	TPH
SB141a (5-7.5)	--	--	--	--	--	TPH
SB143 (0-3)	--	Cr	Mn	--	--	--
SB143 (15-17.5)	As	--	Mn	Hg	~~Fe~~	--
SB144 (0-3)	--	Cr	Mn	Hg	*(CN)*	--
SB145 (0-3)	PCBs	--	PCBs	Hg	--	--

Notes: ~~Strikethrough~~ indicates COC not applicable to groundwater ingestion pathway per 620.450(a)(3)
-- indicates no targeted COCs were detected above the Tier 1 SROs for the exposure pathway
* indicates sample analyzed for TPH only; exposure pathways not applicable
( ) indicates concentration does not have a pH-specific soil migration SRO and is above the background level
[ ] indicates an elevated detection limit, not a confirmed concentration (elevated detection limits were only evaluated for compounds that were detected in another soil or groundwater sample collected from the Remediation Site)

As = arsenic
BaA = benzo(a)anthracene
BaP = benzo(a)pyrene
BbF = benzo(b)fluoranthene
BkF = benzo(k)fluoranthene
Carb = carbazole
CN = cyanide
Cr = chromium
DahA = dibenzo(a,h)anthracene
DBF = dibenzofuran
2,4-DNT = 2,4-dinitrotoleune
Fe = Iron
2-Hex = 2-hexanone
HepEp = heptachlor epoxide
Hg = mercury
IcdP = indeno(1,2,3-cd)pyrene
MC = methylene chloride
Mn = manganese
Naph = naphthalene
PCBs = polychlorinated biphenyls
PNAs = polynuclear aromatic hydrocarbons
Pb = lead
Sb = antimony
Th = thallium
TPH = total petroleum hydrocarbons
V = vanadium

Pioneer notes the following regarding certain parameters listed in the preceding table.

- Soil Migration to Groundwater — 2,4-dinitrotoluene (2,4-DNT)

  A total of seven soil samples collected by Pioneer exhibited elevated detection limits for 2,4-DNT (above the published acceptable detection limit). None of the cumulative soil or groundwater samples from the investigations discussed herein identified detectable concentrations of 2,4-DNT with the exception of three groundwater samples from the 2017 investigation. However, based on

Pioneer's updated groundwater results, these historical detections are likely associated with the presence of sediment in the prior groundwater samples and are not actually representative of groundwater conditions. Also, the elevated detection limits in the soil samples (from borings SB61, SB122, SB125, SB126 and SB127) do not correlate to the locations of the three wells where this compound was previously detected above the Tier 1 GRO. Accordingly, evidence indicates that the elevated detection limits of 2,4-DNT identified by Pioneer are not considered actual impacts since this compound has never been detected in samples representative of actual conditions, and no further evaluation is necessary. Refer to Section 1.5.3 for a further discussion.

- Soil Migration to Groundwater — Iron

  Iron was detected in soil samples SB4 (0-3) and SB143 (15-17.5) at leachable concentrations above the Tier 1 SRO for the soil migration to Class II groundwater exposure route. However, in accordance with Section 620.450(a)(3), since these samples were collected from the slag fill or upper 10 feet of parent material, the Tier 1 SRO for the soil migration to Class II groundwater with respect to iron does not apply. Therefore, the concentrations of iron in these samples are not considered impacts and no further evaluation is necessary.

- Soil Migration to Groundwater — Cyanide and Mercury

  Various concentrations of cyanide and mercury did not have a pH-specific Tier 1 SRO for soil migration to groundwater and were also above the background concentration. For the concentrations that were further evaluated by TCLP or SPLP, none were detected at the stated laboratory detection limits except two concentrations of TCLP cyanide, which were detected below the applicable Tier 1 SRO. Further, mercury was not detected in any groundwater sample, and cyanide was either not detected in groundwater or was detected below the most stringent Tier 1 GRO. Therefore, the samples listed in the preceding table with total cyanide and/or total mercury above background (in the absence of pH-specific Tier 1 SROs) are not considered impacts to the soil component of Class II groundwater, and no further evaluation is necessary.

- Soil Saturation Limit — Mercury

  Total mercury was detected in soil samples SB12 (0-3) and SB13 (0-3) at concentrations (13 mg/kg and 9.9 mg/kg, respectively) above its soil saturation limit (3.1 mg/kg). Since the soil saturation limit is specific to elemental mercury, the total concentrations were further evaluated through elemental mercury testing at these locations, the results of which (0.083 mg/kg and <0.001 mg/kg, respectively) were below the soil saturation limit. Therefore, the concentrations of total mercury in these samples are not considered impacts to the soil saturation limit and no further evaluation is necessary. Refer to Section 2.3.1 for a further discussion.

Copies of the complete laboratory analytical reports for the soil samples collected by Pioneer are provided in Appendix H. Laboratory reports for the 2007 investigation are provided in the associated 2008 CRA Limited Phase II ESA, while laboratory reports for the 2017 GHD Phase II ESA were not available for review.

1.5.2.1 Soil Attenuation

Pioneer's soil testing activities also identified five "hotspot" areas where contaminant concentrations exceeded the default soil attenuation capacity for subsurface soil (2,000 mg/kg): one due to PNAs (Hotspot 1) and four due to TPH (Hotspots 2 through 5). Refer to the attached Figure 3 for the locations of the hotspot areas, Figure 9 for a TPH hotspot diagram, Figures 10A, 10B, and 10C for detailed diagrams of the TPH hotspots, and Figures 11A through 11H for corresponding cross sections. The following table provides a summary of each hotspot.

Table 1-9 Hotspot Summary Table

Hotspot	Primary Boring(s)	Contaminant	Suspected Source	Maximum Concentration (mg/kg)	Estimated Area (ac)	Estimated Depth (ft BSG)	Estimated Impacted Volume (yd^3)
1	SB10	PNAs	Fill material	3,458	0.02	5-7.5	80
2	SB141	TPH	Former EJ&E Railroad	2,460	0.7	5-10 (variable)	3,000
3	SB70	TPH	Former Central Treatment Plant, Central Oil House & Pipelines	138,021	12	7.5-17.5 (variable)	95,000
4	SB21/SB118	TPH	8-in Pipeline	91,630	9	10-17.5 (variable)	72,000
5	SB61	TPH	8-in Pipeline	86,042	7	10-35 (variable)	171,000
						Estimated Total Impacted Volume:	341,080

PNAs Hotspot

Hotspot 1 exhibits a total PNA concentration only marginally above the default soil attenuation capacity and is limited to approximately 900 square feet (0.02 acres), with an estimated volume of less than 80 cubic yards of slag fill.

TPH Hotspots

Various lines of evidence, including historical records, field observations, and current analytical results indicate that the highly weathered and viscous petroleum contamination is 50 to 100 years old. The residual petroleum primarily consists of diesel range organics and oil range organics, and is likely a combination of fuel oils and petroleum products including diesel fuel, Bunker C fuel oil, and heavy crude, among others.

Hotspot 2 is limited to approximately 0.7 acres and includes an estimated 3,000 cubic yards of impacted slag fill and sand, and is likely attributable to the former railroad activities on and near former Parcel 22 (current Parcel D). The impacts in this area are limited to depths that correspond with historical groundwater fluctuations from approximately 5 to 10 feet BSG (i.e., the smear zone). The Illinois EPA was previously notified of the petroleum contamination associated with Hotspot 2 and approved a Tier 3 impractical remediation evaluation in accordance with 35 IAC 742.920, noting in a March 18, 2010 Illinois EPA memo that "the remaining petroleum is near residual saturation (which limits the use of extraction wells) and occurs at approximately discontinuous locations (which limits the use of excavation)" (Illinois EPA, 2010a).

Hotspots 3, 4, and 5 encompass approximately 28 acres and include an estimated 338,000 cubic yards of impacted slag fill and sand on the southern portion of the subject property (Parcel 17), which represent 99 percent of the soil attenuation impacts by volume. The impacts in Hotspots 3 and 4 are generally limited to the groundwater smear zone from approximately 10 to 15 feet BSG, with select impacts located at varying depths between 7.5 to 17.5 BSG. While the most severe impacts in Hotspot 5 also correspond with the groundwater smear zone, field observations of petroleum contamination in this area were observed throughout the saturated zone, down to a silty clay confining layer at approximately 35 feet BSG. The observed characteristics of the residual petroleum and maximum TPH concentrations were generally consistent across Hotspots 3, 4, and 5. However, the deeper impacts in Hotspot 5 could be associated with a higher-pressure and longer duration pipeline release and/or a higher concentration of dense Bunker C fuel oil as indicated in the 2000 TPH Remediation Report.

Historical records indicate that the majority of the former South Work's wastewater treatment and petroleum storage and handling took place on the southern portion of the subject property. Specifically, wastewater from the northern portion of the site was apparently pumped to the Central Treatment Plant located near the northwestern portion of Hotspot 3, where it was eventually discharged into the South Vessel Slip via an oil skimmer utilized near the discharge point. The Central Oil House was also reportedly located within Hotspot 3 and historical records seem to indicate that the majority of tanks and pipeline infrastructure were present on the southern portion of the subject property.

Note that the petroleum impacts associated with Hotspots 3, 4, and 5 were not identified as part of the investigation activities leading up to the 1997 NFR Letter. However, the cumulative evidence strongly indicates that these impacts were present at that time and likely decades earlier due to: (1) the highly weathered/degraded nature of the residual petroleum, (2) a 1999 STS Geotechnical Report that identified field evidence of petroleum contamination within Hotspots 4 and 5, (3) the lack of a dissolved-phase plume, and (4) the fact that the majority of the historical soil borings and test pits associated with the 1997 NFR Letter and located within the hotspots were not advanced to the groundwater smear zone, where the impacts start.

The 2000 TPH Remediation Report (submitted to the Illinois EPA) documented the remediation of petroleum-impacted fill in two areas adjacent to Hotspot 4 that underwent excavation and off-site removal, as well as a larger area corresponding with Hotspot 5 that underwent bioremediation. (Note that an approval letter was not found in historical records; however, these areas were apparently remediated to the satisfaction of the Illinois EPA as evidenced by subsequent 2005 and 2007 NFR comfort letters.) The 2000 report indicated that the likely source of the petroleum contamination was an "8-inch tar pipe"; a basement with "oily material" was also apparently found at the southern end of the pipe within Hotspot 5. (The oily contents of the tar pipe and basement were reportedly removed as part of the 2000 remediation activities.)

The presence of significant petroleum-related impacts in soil, contrasted with the consistent absence of LNAPL in all monitoring wells—including key locations such as MW-202 and MW-318 within Hotspot 5—supports the conclusion that (1) there is currently no evidence of

free product (i.e., mobile LNAPL) at the subject property, and (2) a portion of the detected TPH concentrations may reflect weathered or biodegraded petroleum constituents rather than parent hydrocarbons. Given the viscous, degraded, and adsorbed nature of the residual petroleum, the potential for remobilization and migration under current site conditions is considered minimal.

1.5.3 Tier 1 Evaluation – Groundwater

The groundwater analytical results for Pioneer's investigation identified vinyl chloride, benzene, and/or naphthalene in two monitoring wells at concentrations above the Tier 1 GROs for Class II groundwater. Additionally, vinyl chloride or naphthalene were identified in three monitoring wells at concentrations above the Tier 1 GROs for the indoor inhalation exposure route for residential and/or industrial commercial property. However, as discussed herein, soil gas testing conducted at these locations demonstrates compliance with the indoor inhalation exposure route. No other COCs were identified above the applicable Tier 1 GROs in any of the 27 monitoring wells sampled by Pioneer.

The groundwater analytical results from the 2007 and 2017 investigations identified certain metals, vinyl chloride, and/or 2,4-dinitrotoleune in seven monitoring wells at concentrations above the Tier 1 GROs for Class II groundwater. Additionally, in 2017 vinyl chloride was identified at concentrations above the Tier 1 GROs for the indoor inhalation exposure route for residential and industrial/commercial property in one monitoring well. However, soil gas sampling conducted at that time and more recently by Pioneer demonstrates compliance with the indoor inhalation exposure route.

A complete listing of Pioneer's groundwater analytical results in comparison to the applicable Tier 1 GROs is provided in Table Nos. 11 through 16 in the "Tables" section of the appendices. Documentation from the 2007 and 2017 Phase II investigations have been included with this submission under separate cover.

The following table provides a summary of the cumulative (2007-2025) groundwater sample locations where the applicable Tier 1 GROs were exceeded.

1-10 Groundwater Sample Locations Where COCs Exceed the Applicable Tier 1 GROs

Groundwater Sample ID	TACO Groundwater Exposure Pathways		
	Class II Groundwater	Indoor Inhalation (Residential)	Indoor Inhalation (Industrial/Commercial)
CRA Focused Phase II Investigation – 2007			
MW-202	~~Se~~	--	--
GHD Phase II Investigation – 2017			
MW-100	2,4-DNT	--	--
MW-102D	VC	~~VC~~	~~VC~~
MW-104	~~Al~~	--	--
MW-104D	2,4-DNT	--	--
NMW-2	~~Fe~~	--	--
NMW-3	2,4-DNT, ~~Fe~~	--	--
Pioneer Phase II Investigation – 2024-2025			
MW-102D	VC	~~VC~~	~~VC~~
MW-202	B, Naph	~~Naph~~	~~Naph~~
MW-318	--	~~Naph~~	--

Notes: ~~Strikethrough~~ indicates COC not applicable to groundwater ingestion pathway per 620.450(a)(3)
~~Strikethrough~~ indicates associated soil gas sample demonstrates compliance with indoor inhalation exposure route
Al = aluminum
B = benzene
2,4-DNT = 2,4-dinitrotoluene
Fe = iron
Naph = naphthalene
Se = selenium
VC = vinyl chloride

Pioneer notes the following regarding certain parameters listed in the preceding table.

- Groundwater Ingestion — Metals

  The 2007 and 2017 investigations identified aluminum, iron, and selenium in four monitoring wells at concentrations above the Tier 1 GROs for the Class II groundwater ingestion exposure route. However, in accordance with Section 620.450(a)(3), since these samples were collected from groundwater within the slag fill or upper 10 feet of parent material, the Tier 1 GROs for Class II groundwater with respect to these metals do not apply. Therefore, the metals concentrations in these samples are not considered impacts and no further evaluation is necessary. It should also be noted that Pioneer's recent investigation did not identify these COCs in any monitoring well at concentrations above the applicable Tier 1 GROs (based on cumulative dissolved test results).

- Groundwater Ingestion — 2,4-Dinitrotoluene (2,4-DNT)

  The 2017 GHD investigation identified detectable concentrations of 2,4-DNT in three monitoring wells, which were above the applicable Tier 1 GRO. Based on the lack of 2,4-DNT detections during the 2007 and 2024-2025 investigations, where low-flow and/or field-filtered sampling was conducted (and given the lack of supporting documentation associated with the 2017 investigation), evidence suggests GHD utilized standard sampling techniques that can result in erroneous detections and artificially high concentrations due to the introduction of sediment. Based on the

cumulative findings, including the absence of detectable concentrations of 2,4-DNT in any soil sample, the 2017 detections of 2,4-DNT are not considered representative of actual groundwater conditions and no further evaluation is necessary. (Note that the approved laboratory method for 2,4-DNT cannot achieve the current Tier 1 GRO.)

- Indoor Inhalation — Vinyl Chloride and Naphthalene

  Monitoring wells that exhibited indoor inhalation impacts underwent subsequent soil gas testing in the immediate vicinities in order to further evaluate this exposure route. Monitoring well MW-102D underwent soil gas testing with soil gas samples VP-34 (in 2017) and SG-3 (in 2025); and MW-202 (which exhibited the highest naphthalene concentration) and nearby MW-318 underwent soil gas testing with soil gas sample SG-2 (2025). The soil gas analytical results demonstrated compliance with the residential and industrial/commercial indoor inhalation exposure route. Therefore, the concentrations of vinyl chloride and naphthalene detected in groundwater are not considered impacts to the indoor inhalation exposure route and no further evaluation is necessary.

Copies of the complete laboratory analytical reports for the groundwater samples collected by Pioneer are included in Appendix H. Laboratory reports for the 2007 investigation are provided in the associated 2008 CRA Limited Phase II ESA, while laboratory reports for the 2017 GHD Phase II ESA were not available for review.

1.5.4 Tier 1 Evaluation – Soil Gas

The cumulative soil gas analytical results—including 41 samples collected in 2017 by GHD, three samples collected in 2025 by Pioneer, and five samples collected in 2025 by GSG—indicated that no VOCs were detected above the most stringent Tier 1 SGROs for indoor or outdoor inhalation.

Additionally, all 2017 GHD and 2025 GSG soil gas samples were analyzed for hydrogen sulfide due to a concern of slag off-gassing. Only four of the 2017 soil gas samples exhibited detectable concentrations (0.34 to 1.1 mg/m^3), which were still below the typical soil gas screening criteria for vapor intrusion; none of the 2025 samples exhibited detectable levels of hydrogen sulfide.

A complete listing of Pioneer's soil gas analytical results is provided in Table No. 17 in the "Tables" section of the appendices. Copies of the complete laboratory analytical reports for the soil gas samples collected by Pioneer are included in Appendix H. Laboratory reports for the 2025 GSG sampling are included in their 2025 Soil Gas Investigation [Report]; and laboratory reports associated with the 2017 testing were not available for review.

1.6 Conclusions

The cumulative soil analytical results from investigations conducted by CRA (2007), GHD (2017), and Pioneer (2024-2025) identified elevated concentrations of several heavy metals—primarily arsenic, chromium, and manganese—exceeding applicable Tier 1 SROs. Additional isolated exceedances of Tier 1 SROs included methylene chloride (a VOC), various SVOCs and PNAs, dieldrin and heptachlor epoxide (pesticides), and

PCBs. The cumulative groundwater analytical results identified exceedances of the applicable Tier 1 GROs for vinyl chloride, benzene, and naphthalene in only three monitoring wells.

The affected exposure routes include soil ingestion and outdoor inhalation for industrial/commercial property and construction workers, as well as the soil and groundwater components of Class II groundwater ingestion. However, with the exception of total chromium in multiple soil samples, no other COC exceeded the Tier 1 SROs for the industrial/commercial outdoor inhalation pathway. Extensive leachability (TCLP/SPLP) testing, together with groundwater data, indicated significant immobility of the detected metals. Only sporadic, low-level exceedances of the soil migration pathway were identified, and no samples exceeded the regulatory characteristics of hazardous waste.

Pioneer's 2024-2025 investigation also identified PNAs in one soil sample and TPH in multiple samples at concentrations above the default soil attenuation capacity. These impacts were delineated into five defined hotspots:

- Hotspot 1: A PNA-impacted area of approximately 80 cubic yards in the west-central portion of the site (Parcel C)
- Hotspot 2: A previously identified TPH-impacted area of approximately 3,000 cubic yards in the west-central portion of the site (Parcel D; former Parcel 22)
- Hotspots 3, 4, and 5: Three larger TPH-impacted areas totaling approximately 338,000 cubic yards of soil across 28 acres on the southern portion of the site (Parcel 17)

Based on historical records, the TPH impacts in Hotspot 2 are attributable to the former railroad operations in that area. The widespread Parcel 17 TPH impacts in Hotspots 3, 4, and 5 are attributable to former wastewater and petroleum processing and storage operations, which were predominantly located on the southern portion of the subject property. The other identified impacts throughout the Remediation Site are attributable to the ubiquitous presence of slag fill and varying amounts of other intermixed anthropogenic materials associated with historical site operations and demolition.

Overall, the cumulative results from multiple investigations spanning nearly two decades demonstrate that the nature and extent of soil, groundwater, and soil gas impacts at the site have been thoroughly and adequately characterized. With the exceptions of the PNA and TPH hotspots, the identified impacts are consistent in type, magnitude, and distribution with the conditions documented at the time of the prior NFR Letters, confirming that no materially new or unanticipated sources are present at the site.

In order to determine the appropriate level of remedial action necessary to address the Tier 1 exceedances, and as discussed in the following Section 2.0 – Remediation Objectives Report, the various options available in TACO will be utilized to evaluate the potential for exposure to identified contaminants based on the site-specific conditions.

2.0 REMEDIATION OBJECTIVES REPORT

2.1 Introduction

The following tables provide summaries of the TCL parameters identified above the applicable Tier 1 remediation objectives, and the proposed approach for addressing the identified contaminants.

Table 2-1 Summary of the TCL Parameters Identified Above the Tier 1 Remediation Objectives

TCL Parameters	Applicable Tier 1 Exposure Routes							Default Soil Attenuation Capacity
	Soil Ingestion		Outdoor Inhalation		Indoor Inhalation	Class II Groundwater Ingestion		
	Industrial/ Commercial	Construction Worker	Industrial/ Commercial	Construction Worker	Industrial/ Commercial	Soil Component	Groundwater Component	
VOCs	--	--	--	--	--	MC *[2-Hex]*	B, VC, Naph	--
SVOCs (excluding PNAs)	--	--	--	--	--	Carb, DBF	--	--
PNAs	BaA, BaP, BbF, BkF, DahA, IcdP	BaA, BaP, BbF, DahA	--	Naph	--	BaA, BaP, BbF, DahA, IcdP	--	Total PNAs
Pesticides	Dieldrin, HepE	--	--	--	--	Dieldrin	--	--
PCBs	Total PCBs	Total PCBs	--	--	--	--	--	--
Inorganics	As, Cr, Mn, Pb, Th	Cr, Mn, Ni, Pb, Sb, Th	Cr	Cr, Hg, Mn	--	V	--	--
TPH	NA	NA	NA	NA	NA	NA	NA	TPH

Notes: -- indicates the Tier 1 exposure route objectives were not exceeded
NA indicates not applicable
[ ] indicates an elevated detection limit for a confirmed compound
As = arsenic
BaA = benzo(a)anthracene
BaP = benzo(a)pyrene
BbF = benzo(b)fluoranthene
B = benzene
BkF = benzo(k)fluoranthene
Carb = carbazole
CN = cyanide
Cr = chromium
DahA = dibenzo(a,h)anthracene
DBF = dibenzofuran
Fe = Iron
HepE = heptachlor epoxide
2-Hex = 2-hexanone
Hg = mercury
IcdP = indeno(1,2,3-cd)pyrene
MC = methylene chloride
Mn = manganese
Naph = naphthalene
PCBs = polychlorinated biphenyls
PNAs = polynuclear aromatic hydrocarbons
Pb = lead
Sb = antimony
Th = thallium
TPH = total petroleum hydrocarbons
V = vanadium
VC = vinyl chloride

Table 2-2 Proposed Approach for Addressing the Identified TCL Parameters

TCL Parameters	Applicable Tier 1 Exposure Routes							Default Soil Attenuation Capacity
	Soil Ingestion		Outdoor Inhalation		Indoor Inhalation	Class II Groundwater Ingestion		
	Industrial/ Commercial	Construction Worker	Industrial/ Commercial	Construction Worker	Industrial/ Commercial	Soil Component	Groundwater Component	
VOCs	--	--	--	--	--	Tier 3	Tier 3 / GWO	--
SVOCs (excluding PNAs)	--	--	--	--	--	Remediation / Tier 3	--	--
PNAs	Tier 3 / EB	Tier 3 / CWC	--	Tier 3 / CWC	--	Tier 3	Tier 3	Remediation
Pesticides	Tier 3 / EB	--	--	--	--	--	--	--
PCBs	Tier 3 / EB	Tier 3 / CWC	--	--	--	--	--	--
Inorganics	Tier 3 / EB	Tier 3 / CWC	Tier 3 / EB	Tier 3 / CWC	--	Tier 3	Tier 3	--
TPH	NA	NA	NA	NA	NA	NA	NA	Remediation / Tier 3

Notes: -- indicates the Tier 1 exposure route objectives were not exceeded
CWC = exclusion of the exposure route using a Construction Worker Caution
EB = exclusion of the exposure route using an Engineered Barrier
GWO = exclusion of the exposure route using a local GroundWater Ordinance that prohibits the use of groundwater
NA = indicates not applicable

As outlined in the preceding table and discussed in the following sections, the overall approach to site closure combines conventional remediation with Tier 3 evaluations in accordance with 35 IAC 742.925 and 742.920. Specifically, the PNA and TPH impacts exceeding the default soil attenuation capacity (SAC) in Hotspots 1 and 2 will be addressed through excavation and off-site disposal. The majority of the remaining impacts will be addressed through a Tier 3 evaluation in accordance with 742.925. This approach allows the remaining TPH impacts exceeding the SAC to be managed in-place through the installation of a hybrid slurry wall to prevent potential future migration to surface waters, and enables exclusion of exposure routes through other engineering, institutional, and preventative controls. Finally, any TPH impacts within the tie-back zones of the Calumet River and South Vessel Slip walls will be addressed through a Tier 3 impractical remediation evaluation in accordance with 742.920.

2.2 Statement of Remedial Goals

The purpose of this Remediation Objectives Report is to demonstrate compliance with Tier 3 evaluation criteria, while achieving the following critical remedial goals established for the proposed development:

(1) protect human health and the environment;

(2) address the legitimate concerns of the community;

(3) solve for the time component of redevelopment;

(4) solve for the cost component of redevelopment;

(5) solve for constructibility components of redevelopment; and

(6) redevelop the subject property, and restore the economic viability and prosperity of the surrounding community.

As mentioned above, the overall approach to site closure proposed herein combines conventional remediation with Tier 3 evaluations, including the installation of a hybrid slurry wall. The conventional remediation component will be performed to address the PNA and TPH impacts in Hotspots 1 and 2. (Refer to Section 3.3.1 for a discussion of the proposed conventional remediation activities.) The remaining impacts will be addressed through Tier 3 evaluations as allowed in Subpart I of the TACO regulations. (Note that any further reference to TPH or residual petroleum impacts in this Remediation Objectives Report refers only to those in Hotspots 3, 4, and 5.) The following sections provide the requisite justification for the Tier 3 evaluations:

- Section 2.3 Remedial Feasibility and Greener Cleanup Framework
- Section 2.4: Overview of the Default Approach for Exclusion of the Affected Exposure Routes;
- Section 2.5: Tier 3 Exposure Route Exclusion [742.925]
  - Section 2.5.1: Descriptions of the Routes Evaluated and Site Characteristics [742.925(a) & (b)]
  - Section 2.5.2: Potential TPH Migration to Surface Waters [742.925(c) & (d)]

- Section 2.5.3: Groundwater Ingestion Exposure Route [742.925(c) & (d)]
- Section 2.5.4: Soil Ingestion and Outdoor Inhalation Exposure Routes [742.925(c) & (d)]

- Section 2.6: Tier 3 Impractical Remediation [742.920]

2.3 Remedial Feasibility and Greener Cleanup Framework

In furtherance of the remedial goals, and considering the significant area of TPH impacts above the SAC in the southern portion of the site (338,000 cubic yards, see Section 1.5.2.1), Pioneer conducted a remedial feasibility study that focused on addressing the six remedial goals outlined above, while also incorporating the U.S. EPA's (and Illinois EPA's) Greener Cleanups initiative. This initiative, which informed and aligns with the ASTM Standard Guide for Greener Cleanups (E2893-16), provides a structured framework for incorporating sustainability into site remediation. It emphasizes minimizing energy use, greenhouse gas emissions, water consumption, waste generation, and impacts to land and ecosystems. Applying these greener cleanup strategies helps reduce the environmental footprint of remedial actions, conserve natural resources, and protect sensitive nearby ecosystems such as Lake Michigan and the Calumet River. Furthermore, these practices deliver tangible benefits to the surrounding community by improving local air and water quality, minimizing construction-related disruptions, and supporting redevelopment in ways that align with broader sustainability and quality-of-life goals for area residents.

Given the large scale of the site, its long history of heavy industrial use, and its proximity to both sensitive water bodies and the surrounding community, evaluating remedial alternatives within the context of the U.S. EPA's Greener Cleanups framework was an essential consideration for this project.

The remedial feasibility study was conducted to identify practicable approaches for addressing the TPH impacts. Consistent with U.S. EPA and ITRC guidance on remedial technology selection and sustainability, a broad suite of physical, chemical, and biological technologies was screened based on effectiveness, implementability, long-term reliability, potential risks to receptors and surface waters, and alignment with the six remedial goals. Technologies such as in-situ chemical oxidation (ISCO) and enhanced bioremediation via injection were determined to be impractical given the site's complex subsurface conditions, which include extensive concrete and slag obstructions, highly heterogeneous fill materials creating preferential flow paths, the weathered nature of the TPH, the high oxidant demand, and an elevated risk of mobilizing remedial amendments and/or contamination into adjacent surface waters (e.g., potential "blowout" to the Calumet River or South Vessel Slip). Evaluation of this option indicated that the constraints would prevent effective distribution and contact of injected amendments with the residual, recalcitrant contaminant mass. In addition, the approach would pose unacceptable environmental risks and require significant resources, with a low probability of achieving the remedial objectives.

In-situ stabilization (ISS) of the impacted soils was also evaluated but determined to be impractical due to significant implementation challenges, extended duration, and potential risks to the surrounding community. The heterogeneity of the site's subsurface would make achieving uniform mixing and effective stabilization uncertain. ISS would likely require extensive subsurface demolition, excavation, staging, and mechanical mixing over a multi-year period, resulting in prolonged noise, dust, odors, and heavy truck traffic through

nearby neighborhoods. These impacts would elevate nuisance conditions, increase potential exposure of the community to particulate matter, and generate sustained disruption to the surrounding area. Moreover, ISS would significantly increase the total volume of treated material, complicate future redevelopment by creating a hardened subsurface, and require substantial engineering controls to protect adjacent infrastructure and sensitive surface waters during implementation.

While full-scale excavation and off-site disposal of the impacted soils, along with the necessary removal of extensive subsurface infrastructure and hot-poured slag, may be theoretically feasible, this approach would prolong site disturbance for multiple years and impose significant risks to surface waters and the community. The prohibitive costs, extended timeline, and elevated risks associated with full excavation could also threaten the viability of the proposed brownfield redevelopment. Moreover, given the various favorable TPH characteristics resulting in limited mobility under existing conditions, such an approach would not result in a site that is appreciably safer or more protective for future users and surface waters than the proposed remedial approach discussed below.

As discussed in more detail in the following sections of this report, the remedial approach selected for the site is to prevent potential exposure to the residual impacts via pathway exclusion under 35 IAC 742.925. This approach will utilize the following engineering and institutional controls:

1. Engineered barrier surface cap across the entire site to eliminate the soil ingestion and outdoor inhalation exposure routes;

2. The City of Chicago groundwater ordinance to eliminate the groundwater ingestion exposure route;

3. Site Safety Plan(s) to be protective of construction workers that will be exposed to subsurface soils; and

4. A hybrid containment system (slurry wall, i.e. vertical engineered barrier) to prevent potential future contaminant migration to adjacent surface waters.

The hybrid containment system will consist of a continuous, low-permeability, soil-bentonite slurry wall integrated with two permeable reactive barrier (PRB) gates. The slurry wall, extending approximately 7,000 linear feet and keyed into the underlying clay confining layer, will provide physical containment with a target hydraulic conductivity of $\leq 1 \times 10^{-7}$ cm/s. The PRB gates, extending approximately 2,000 feet in total and constructed with PetroFix®-amended sand and gravel, will allow controlled groundwater discharge, maintaining hydraulic balance and ensuring treatment of any residual dissolved-phase hydrocarbons prior to release from the containment area. This combined approach is designed to prevent lateral migration, avoid groundwater mounding, and ensure that discharges meet applicable surface water quality standards.

To further illustrate the environmental and community benefits of the proposed hybrid slurry wall relative to excavation and off-site disposal, the following table compares the two approaches within the context of the U.S. EPA's *five core elements of greener cleanups*:

Table 2-3 Environmental Impact Comparison: Excavation and Disposal vs. Slurry Wall

Core Element	Excavation & Disposal	Hybrid Slurry Wall
Energy Use	- **948,000-gal** of diesel fuel (soil transport, excavation/grading, stockpiling)	- **25,000-gal** of diesel fuel (trencher & support, materials & delivery, soil transport)
Air Emissions	- CO^2 Emissions: **9,670 metric tons** - PM_{10}: **1,500 lbs** - $PM_{2.5}$: **1,350 lbs** - **27,000 truckloads of odors** through neighborhoods (100 miles round trip) - **Exposes TPH soils**–volatilization and odors for up to 2 years	- CO^2 Emissions: **250 metric tons** - PM_{10}: **180 lbs** - $PM_{2.5}$: **160 lbs** - **410 truckloads of odors** through neighborhoods - **TPH soils have minimal exposure**
Water Use & Impacts	- **7,000,000-gal** (dust control for 2 years) - **10,000,000-gal** (dewatering, treated & discharged)	- **600,000-gal** (dust control for 60 days) - **3,300,000-gal** (mix requirement) - Protects adjacent surface waters from potential migration
Materials & Waste	- **338,000 yd^3** of landfill space - **338,000 yd^3** of quarry stone - Requires installation of significant earth retention systems (steel)	- **5,000 yd^3** of landfill space - **8,000 yd^3** of quarry stone - **1,000 yd^3** of bentonite - Requires 9,000 ft of additional silt fencing
Land & Ecosystems	- Disrupts and re-handles 338,000 yd^3 of soil and fill, increasing risk of sediment transport and fugitive dust to receptors - Prolongs exposure of impacted soils during multi-year excavation & grading process, increasing risk of volatile emissions & nuisance odors - Increases site-wide disturbance footprint, raising complexity for erosion control & stormwater management	- Limits disturbance to narrow trench - Reduces construction-phase contaminant exposure, helping contain volatiles and reducing odors - Reduces demand for landfill space & associated expansion into new land & ecosystems - Reduces demand for quarried material & associated land disturbance

Partial excavation and disposal was also considered but determined to be impractical and not advantageous relative to the proposed containment-based remedial approach. The presence of extensive subsurface obstructions and heterogenous fill create substantial uncertainty about where excavation can be effectively performed without encountering repeated refusal and requiring significant demolition efforts, or destabilizing adjacent areas. Even with targeted excavation, the same types of community risks associated with full-scale excavation remain, including increased noise, dust, emissions, odors, truck traffic, and potential exposure to impacted soils. Additionally, partial excavation would not eliminate the need for the proposed slurry wall to contain remaining impacts and protect surface waters. Therefore, partial excavation would add significant cost, risk, and community disruption without providing additional benefit to site protectiveness or facilitating redevelopment beyond what the hybrid slurry wall and surface cap would already achieve.

As outlined above, the proposed hybrid slurry wall approach is fully consistent with the U.S. EPA's Greener Cleanup framework and effectively achieves the six remedial goals established for the site. It significantly reduces energy use, emissions, water demand, waste generation, and ecological disruption while maintaining protection of human health and the environment. This approach minimizes risk to the surrounding community and future site occupants, safeguards sensitive surface waters, and enables site redevelopment in a way that is both sustainable and feasible.

2.4 Overview of the Default Approach for Exclusion of the Affected Exposure Routes

Standard exposure route evaluations are performed in accordance with Part 742, Subpart C. As outlined in Subpart C, Section 742.305, certain baseline criteria have to be met before proceeding, including a contaminant source and free product determination, as discussed below.

2.4.1 Contaminant Source and Free Product Determination

- *The sum of the concentrations of all organic COCs shall not exceed the attenuation capacity of the soil as determined under Section 742.215 (Section 742.305(a));*

  Soil testing results outlined herein reveal that numerous TPH concentrations exceed the default SAC for subsurface soils, and this criteria is not satisfied for a default approach to pathway exclusion. However, it should be noted that no physical evidence of free product has been observed in any of the on-site monitoring wells—including those installed in or immediately adjacent/downgradient of the TPH hotspots—during the cumulative investigation activities presented herein (performed from 2007 to 2025). The elevated TPH concentrations, and visual evidence of impact in certain soil cores, contrasted with the absence of free product observed in monitoring wells, suggests that the remaining petroleum impacts are considered residual, with insufficient saturation to render them mobile under existing conditions.

- *The concentrations of any organic COCs remaining in the soil shall not exceed the soil saturation limit as determined under Section 742.220 (Section 742.305(b));*

  None of the cumulative testing identified any COCs at concentrations above the default soil saturation limits when using applicable analyte species. As discussed in Section 1.5.2, two total mercury concentrations exceeded the default soil saturation limit for elemental mercury of 3.1 mg/kg: 13 mg/kg at SB12 (0-3) and 9.9 mg/kg at SB13 (0-3). However, the corresponding elemental mercury concentrations at these locations were 0.083 mg/kg and <0.001 mg/kg, respectively. A total of 326 samples were analyzed for total mercury from 2007 to 2025 and the next highest concentrations detected were 0.93 mg/kg at both SS-107 (0-3) and B-7S20 (7-9) during the 2017 GHD investigation; however, the majority of the cumulative total mercury results were either below background or only marginally above the most stringent Tier 1 SRO (construction worker inhalation) (see Table No. 4 in the appendices, and the tables associated with the 2007 and 2017 investigations submitted under separate cover). Because the soil saturation limit applies solely to elemental mercury, and all measured elemental mercury concentrations and all other total mercury concentrations were below this threshold, the extensive testing demonstrates that soils do not exceed the applicable soil saturation limits. As such, this criteria is satisfied under a default approach to pathway exclusion.

- *Any soil which contains COCs shall not exhibit characteristics of reactivity for hazardous waste (Section 742.305(c));*

  Based on the total cyanide results (Table No. 4 in the appendices), the maximum total cyanide concentration identified at the site is 67 mg/kg, which is below the current U.S. EPA guidance level

of 250 mg/kg for reactive cyanide. Reactive sulfide testing (which yielded results of <50 mg/kg) also demonstrate compliance with the U.S. EPA guidance level of 500 mg/kg. Thus, there is no evidence that soils at the Remediation Site would exhibit the characteristics of reactivity, and this criteria is satisfied under a default approach to pathway exclusion.

- *Any soil which contains COCs shall not exhibit a pH less than or equal to 2.0 or greater than or equal to 12.5 (Section 742.305(d));*

  A total of 250 soil samples from Pioneer's investigation were collected from the Remediation Site for the analysis of pH (see Table No. 4 in the appendices). With the exception of one sample, the pH values ranged from 6.68 to 12.45 standard units. The pH result at the remaining sample [SB96 (7.5-10)] was 13.7 standard units, which exceeds the 742.305(d) corrosivity limit of 12.5 standard units. The mean and median pH values for the soil samples are 9.38 and 9.14. The results show that the majority of the samples at the site fall within the mildly alkaline range.

  Soil sample SB96 (7.5-10 feet) was collected from the slag fill, which is known to contain alkaline compounds, including certain mineral phases. The elevated pH observed in this isolated sample is likely attributable to these stable compounds rather than to conditions indicative of hazardous corrosivity. Although the sample exhibited low moisture content at the time of collection, the slag has been exposed to stormwater infiltration and weathering for more than a century. Such long-term exposure typically leaches and neutralizes more reactive alkaline phases, further reducing the potential for corrosive behavior. Given that all other soil samples collected from the site exhibited pH values within the regulatory range, the elevated pH in SB96 (7.5-10) is considered an isolated condition attributable to localized slag chemistry. Accordingly, there is no indication that soils at the Remediation Site exhibit the characteristics of corrosivity, and this criteria is satisfied under a default approach to pathway exclusion.

- *Any soil which contains arsenic, barium, cadmium, chromium, lead, mercury, selenium or silver shall not exhibit any of the characteristics of toxicity for hazardous waste (Section 742.305(e)); and,*

  TCLP analyses were conducted on samples where a total RCRA 8 metal exceeded the "20 times rule" [based on 40 CFR 261.24 and Subtitle D landfill requirements]. As shown on Table No. 5 in the appendices, all TCLP results are below the corresponding hazardous toxicity characteristic threshold values. Therefore, there is no evidence that soils at the Remediation Site would exhibit the characteristic of toxicity. [Note: due to hold time and other limitations, mercury was only selectively evaluated through TCLP. However, based on Pioneer's and the historical investigation results, leachable mercury is not a concern at the site.] As such, this criteria is satisfied under a default approach to pathway exclusion.

- *If COCs include polychlorinated biphenyls (PCBs), the concentration of any PCBs in the soil shall not exceed 50 parts per million (Section 742.305(f)).*

  A total of 305 soil samples collected from the Remediation Site during the cumulative investigation were analyzed for PCBs. As shown on Table No. 7 in the appendices, and the tables associated with

the 2007 and 2017 investigations submitted under separate cover, all PCB results are below 50 ppm. As such, this criteria is satisfied under a default approach to pathway exclusion.

2.4.2 Bypassing Subpart C

As indicated, site conditions do not meet all of the baseline criteria of 35 IAC 742, Subpart C, Section 742.305 due to the TPH impacts that will remain at the Remediation Site in Hotspots 3, 4, and 5. However, 742.300(c) explicitly states:

> *"As an alternative to the use of the requirements in this Subpart, a person may use the procedures for evaluation of exposure routes under Tier 3 as set forth in Section 742.925."*

This provision unambiguously authorizes a Remediation Applicant to bypass all Subpart C requirements, including those related to the default SAC [i.e., 742.305(a)], by applying the Tier 3 framework under 742.925. The regulation cites no exceptions and refers broadly to *"this Subpart,"* indicating full substitution of the default assumptions otherwise required with the Tier 3 methodology. This indicates a clear regulatory intent to allow flexibility in evaluating exposure routes and risk, enabling a site-specific remedial approach tailored to actual site-specific conditions

2.5 Tier 3 Exposure Route Evaluation [35 IAC 742.925]

The purpose of this Tier 3 evaluation is to bypass the TACO Subpart C requirements in favor of Tier 3 exposure route exclusion under 35 IAC 742.925, while protecting human health and the environment, and achieving the critical remedial goals established for the proposed development (refer to Section 2.2).

According to Section 742.900(c)(6) of the TACO regulations, situations that may be appropriate for a Tier 3 evaluation include:

> *"Incomplete human exposure pathways not excluded under Subpart C."*

The Tier 3 evaluation process for incomplete human exposure pathways is provided in Section 742.925, which states:

> *"Technical information may demonstrate that there is no actual or potential impact of contaminants of concern to receptors from a particular exposure route. In these instances, a demonstration excluding an exposure route shall be submitted to the Agency for review and approval."*

The following Section 2.5.1 provides the information requested by 742.925(a) and (b), and Sections 2.5.2, 2.5.3, and 2.5.4 provide the information requested by 742.925(c) and (d) for each of the specific pathways/ exposure routes included in this evaluation.

2.5.1 Descriptions of the Routes Evaluated and Site Characteristics [35 IAC 742.925(a), (b)]

- *A description of the route evaluated (35 IAC 742.925(a));*

The following exposure routes are being evaluated in this Tier 3 evaluation:

- potential migration of petroleum impacts to the adjacent surface water bodies;
- the soil and groundwater components of Class II groundwater ingestion; and
- soil ingestion and outdoor inhalation for industrial/commercial property and construction workers.

- *A description of the site and physical site characteristics (35 IAC 742.925(b));*

The approximately 440-acre Remediation Site is located on the southeast side of Chicago, Illinois, within approximately 200 feet of Lake Michigan at its closest point. The subject property comprises a substantial portion of the former U.S. Steel South Works steel manufacturing facility, which operated from the late 1800s until its closure in the early 1990s. The site is bisected by the North Vessel Slip, a historic shipping canal connecting to Lake Michigan, and is bounded by the Calumet River to the south and the South Vessel Slip to the southwest; South DuSable Lake Shore Drive runs north-south through the western portion of the site, while East 87th Street runs east-west through the southern portion of the site.

Currently, the site is predominantly vacant and fenced, with a mix of low-lying vegetation, mature and semi-mature trees, remnant asphalt and gravel roadways, and two large gravel pads constructed in the early 2000s. Remnant concrete ore walls line the North and South Vessel Slips, with part of the northern ore wall repurposed as a recreational climbing wall as part of the adjacent Steelworkers Park. A single-story building at 8555 South Green Bay Avenue serves as the on-site security office.

The topography of the site is relatively flat, with surface elevations typically ranging from approximately 10 to 20 feet CCD. However, the overall topographic relief is approximately 25 feet due to localized low-lying depressions in the southern portion of the site and a linear ridge in the north. The ground surface is elevated approximately 10 to 15 feet above the adjacent surface waters of the Calumet River and vessel slips, which typically fluctuate near 0 feet CCD as a function of Lake Michigan's elevation. The site is physically separated from adjacent surface water bodies by steel sheet piling, steel gabion baskets, large stone blocks, and a concrete wall.

The subject property is located within a planned development district, and while predominantly undeveloped, retains evidence of its heavy industrial history as part of the former steel mill. The fill material covering the site includes large volumes of slag that was predominantly placed from the late 1800s to the 1920s to raise and stabilize the area for industrial use, with thicknesses ranging from 5 to 10 feet BSG on the western portion of the site, and up to 40 feet BSG on the eastern portion of the site.

Subsurface investigations have revealed a stratigraphic profile consisting of slag fill underlain by native fine sand and silty clay. Slag particle size appeared to most commonly range from sand to gravel, with silt-sized particles and localized occurrences of cobbles, and frequent layers of dense hot-poured slag. Additional fill constituents included concrete, bricks, metal fragments, cinders, wood, and suspected ore, as well as non-slag silt, sand, and gravel likely composed of crushed brick, concrete, quartz, and limestone. Subsurface obstructions were extensive and included hot-poured slag, suspected skulls (solidified iron), demolition debris, buried railroad tracks, iron beams and anchors, and remnant concrete

footings and foundations (much of it reinforced), which reportedly range in thickness from 1 to 25 feet thick.

Groundwater was generally encountered at depths of approximately 7 to 15 feet BSG within the fill or shallow native soils, and exhibits unconfined conditions. Potentiometric elevations across the site measured in May 2025 ranged from approximately 0.4 feet to 4.25 feet CCD, with one anomalous elevation of 13.85 feet CCD (May 2025). An average horizontal gradient of approximately 0.0019 ft/ft was calculated for the site, although gradients are variable due to recharge and subsurface complexity. Vertical gradients appear negligible based on limited nested well data.

Hydraulic conductivity measurements from slug tests indicate a range of 10^{-2} to 10^{-5} cm/s, consistent with a heterogeneous fill, fine sand, and silty sand. Groundwater flow is generally toward adjacent surface waters, though locally influenced by infiltration, mounding, and subsurface structures.

Field observations of contamination were documented in 13 of Pioneer's 144 original borings, and more extensively at certain delineation points, particularly at five notable borings (SB21, SB61, SB70, SB118, and SB141)—Hotspots 2 through 5. In most areas, impacts were limited to a thickness of 1 to 7 feet—corresponding to the groundwater smear zone—with deeper field impacts extending to approximately 35 feet BSG at SB61 (Hotspot 5). Intermittent hydrogen sulfide odors consistent with off-gassing from the slag fill were also noted during drilling, but soil gas sampling confirmed concentrations below applicable screening criteria.

No measurable free product was observed in monitoring wells during the cumulative investigation, and only a minimal dissolved-phase hydrocarbon plume (limited to benzene and naphthalene at MW-202) was detected, despite numerous elevated TPH concentrations in soil exceeding the SAC and the presence of monitoring wells within and downgradient of the TPH hotspots.

2.5.2 Potential Migration of Petroleum Impacts to Surface Water [742.925(c), (d)]

- *A discussion of the result and possibility of the route becoming active in the future (35 IAC 742.925(c));*

Based on cumulative investigation results, only one monitoring well (MW-202) exhibits dissolved-phase petroleum constituents above the applicable Tier 1 GROs. Fate and transport modeling performed using RBCA Equation R26 indicates that impacted groundwater at MW-202 will meet surface water quality objectives prior to discharge into the Calumet River (Spreadsheet 2 in Appendix E). While a minor sheen potentially associated with petroleum impacts at the Remediation Site was historically identified on the adjacent Calumet River, none of the monitoring wells gauged from 2007 to 2025 exhibited free product, and available records indicate no observed sheens on the adjacent Calumet River in the last 25 years. Additionally, no historical records referencing any sheens observed on the South Vessel Slip have been identified by Pioneer.

TPH concentrations that exceed the default SAC indicate the theoretical potential for mobilization of petroleum-related constituents under the baseline assumptions. However, the cumulative groundwater investigations documented herein, including monitoring wells located within and immediately

downgradient of the TPH hotspots, have consistently shown no evidence of free product and only a negligible dissolved-phase plume. This presents an apparent contradiction between the baseline SAC assumptions suggesting a risk of leaching or migration, and the actual site conditions demonstrating stability of the petroleum impacts, likely due to their weathered, viscous, and recalcitrant nature, which inhibits mobility.

The extensive soil and groundwater testing conducted over multiple phases of the cumulative investigation activities have consistently shown the absence of detectable levels of petroleum indicator contaminants, and where detected, are below the most stringent objectives. This reflects the fact that the lighter, more mobile and soluble fractions of petroleum responsible for dissolved-phase migration have long since volatilized, dissolved, or biodegraded given the age and weathering of the impacts, and prior remedial activities in Hotspot 5. What remains in the subsurface are recalcitrant hydrocarbons—heavy, polar, and complex—that do not partition appreciably into the water or vapor phases. Although TPH concentrations in soil remain above the SAC, the investigation results outlined herein demonstrate that the residual petroleum impacts no longer pose a significant risk of groundwater or vapor contamination under current site conditions.

The potential for further migration of these weathered hydrocarbons is negligible due to the following site-specific conditions:

- Vadose zone residual petroleum remains immobilized due to its high viscosity, strong sorption to mineral surfaces, and entrapment at residual saturation. Capillary forces within unsaturated soils exert an entry pressure that the weathered hydrocarbons cannot overcome, and stormwater infiltration is unlikely to significantly mobilize the contamination, as evidenced by the cumulative findings.

- Saturated zone residual petroleum is similarly immobilized by its high viscosity, strong sorption, and confinement at residual saturation within pore spaces. Capillary forces continue to dominate in the saturated zone, although the higher pore water saturation increases the trapping efficiency compared to the vadose zone, further limiting mobility. Combined with the weathered, viscous nature of the hydrocarbons and the historical flushing of more mobile fractions, appreciable lateral or vertical migration is not expected.

- Dissolved phase migration potential is minimal because the remaining residual petroleum exhibits extremely low aqueous solubility and very slow desorption rates. As a result, the residual hydrocarbons persist in-place as a stable source with negligible contribution to dissolved-phase constituents.

- Lateral and vertical movement of residual petroleum is further constrained by the moderate permeability of underlying soils (with localized areas of low permeability), the viscosity of the weathered petroleum, and the presence of subsurface relic structures—including foundations, footings, and hot-poured slag—that create physical barriers and discontinuities impeding flow and contaminant transport.

The site investigation data presented herein support these conclusions, as no free product or significant plumes of dissolved-phase hydrocarbons have been detected in groundwater despite the extensive volume of impacted soils based on the TPH results. The general absence of dissolved-phase contaminants and the aerobic conditions observed at the site suggest that any potential migration has already occurred decades ago, the residual hydrocarbons are highly degraded and largely immobilized, and the plumes are currently stable. Consequently, under natural conditions the risk of meaningful migration is negligible.

The cumulative evidence supports the conclusion that, under existing conditions, the risk of residual petroleum leaching or migrating to surface waters is low. Nonetheless, the proposed remedial approach to address the SAC exceedances in Hotspots 3, 4, and 5 includes the construction of a hybrid slurry wall (vertical engineered barrier) keyed into a native clay confining layer to further enhance containment and eliminate any remaining exposure concerns by physically isolating the impacts to prevent potential future migration.

- *Technical support (35 IAC 742.925(d));*

  - *a discussion of the natural or man-made barriers to that exposure route (35 IAC 742.925(d)(1));*

  A low-permeability bentonite slurry wall with PRB gates is a highly effective and proven engineered barrier for containing both free-phase and dissolved-phase petroleum. Once hydrated, the bentonite forms a continuous barrier with a hydraulic conductivity several orders of magnitude lower than the existing soils. This low permeability effectively limits advective groundwater flow through the wall, thereby restricting transport of dissolved hydrocarbons. In addition, the high surface area and strong sorptive capacity of bentonite further attenuate contaminants at the barrier interface, which also reduces the diffusive flux of dissolved constituents across the wall.

  Note that Section 742.200 of the TACO regulations defines an engineered barrier and slurry wall as follows:

  > *"Engineered Barrier" means a barrier designed or verified using engineering practices that limits exposure to or controls migration of the contaminants of concern.*
  >
  > *"Slurry Wall" means a man-made barrier made of geologic material which is constructed to prevent or impede the movement of contamination into a certain area.*

  Note also, pursuant to 35 IAC 742.1105, slurry walls are explicitly recognized as acceptable engineered barriers to prevent the completion of the ingestion of groundwater exposure pathway. Section 2.5.2.1 of this report provides details and technical support of the proposed slurry wall.

  By hydraulically isolating residual petroleum impacts in soil and the dissolved-phase impacts identified in MW-202, the hybrid slurry wall will eliminate the potential for future migration into the adjacent surface waters, even though the current evidence shows a low risk under existing conditions. This approach ensures that the latent source material remains contained and stable.

Finally, the proposed redevelopment of this portion of the Remediation Site with the IQMP—a quantum computing research and development campus—will involve no industrial activities that rely on petroleum or hazardous substances. This planned land use supports the long-term stability and safety of the hybrid slurry wall containment system.

- *calculations and modeling (35 IAC 742.925(d)(2));*

As mentioned, the only dissolved-phase petroleum impacts were identified at MW-202. Fate and transport modeling calculations completed using RBCA Equation R26 (Spreadsheet 1 in Appendix E) indicated that *under existing site conditions*, benzene and naphthalene have the potential to migrate into the east adjacent property. As shown on Figure 17, the proposed slurry wall will encapsulate the groundwater impacts at MW-202, thereby eliminating groundwater flow to the east-adjacent property.

Spreadsheet 2 (Appendix E) shows the concentrations of benzene and naphthalene are predicted to meet the surface water quality objectives at the Calumet River, approximately 150 feet to the south. In addition, groundwater flow modeling conducted for the slurry wall system (see the Porewater Solutions Modeling [Report] in Appendix F), indicates that groundwater within the post-construction slurry wall will flow northward through the two PRB gates. Following installation, the nearest surface water body to MW-202—*along the predicted flow of groundwater from within the planned slurry wall*—is Lake Michigan, approximately 1,500 feet away. Based on RBCA Equation R26, the impacts at MW-202 will be completely attenuated within 1,500 feet, even before accounting for the removal capacity of the PRB wall, which will significantly reduce concentrations of potential contaminants migrating through the gate(s).

The fate and transport modeling parameters and results are provided in Section 2.5.3.2 herein. Although the modeling predicts that benzene and naphthalene concentrations already meet surface water quality objectives at the Calumet River under current conditions, the hybrid slurry wall is proposed as a conservative measure to provide additional protection and prevent any potential future dissolved-phase petroleum migration from this area.

- *physical and chemical properties of contaminants of concern; and (35 IAC 742.925(d)(3)); and contaminant migration properties (35 IAC 742.925(d)(4));*

Petroleum is a Light Non-Aqueous Phase Liquid (LNAPL), and due to its immiscibility with water, the migration of petroleum in the subsurface environment is controlled through gravity, buoyancy, and capillary forces, and only occurs when LNAPL pressure exceeds the capillary entry pressure of adjacent pore spaces, displacing water or air and moving laterally through permeable zones.

Gravity is the predominant transport force of LNAPL in unsaturated soils, and capillary pressure initiates lateral spreading as the LNAPL approaches the capillary fringe. When there is no longer an ongoing source, LNAPL remaining in the unsaturated zone will exist in a discontinuous phase (partitioning into soil water, adsorbing onto soil particles, volatilizing into pore space), which is not conducive to flow. Pioneer's observations of weathered and viscous petroleum residue coating certain soil cores, contrasted with the absence of free product observed in monitoring wells, provides

evidence that these petroleum impacts are considered residual, with insufficient saturation to render them mobile under existing conditions.

TPH is a complex mix of organic compounds consisting of carbon and hydrogen atoms arranged in varying structural configurations. The TPH detected at the Remediation Site is characterized by being highly weathered, viscous, and predominantly composed of diesel range organics (DRO) and oil range organics (ORO). These hydrocarbons correspond to heavier fractions of petroleum, which have distinct physical and chemical behaviors compared to lighter, less degraded fuels:

- Low solubility: Heavier and weathered hydrocarbons, particularly those identified at the Remediation Site, exhibit limited solubility in water, often on the order of micrograms per liter, which greatly limits their potential to enter the dissolved phase.
- Low volatility: Over decades of weathering, the lighter, more volatile hydrocarbon fractions have either volatilized or biodegraded, leaving behind DRO and ORO composed almost entirely of non-volatile, heavier hydrocarbons.
- High viscosity: At ambient temperatures, weathered TPH becomes highly viscous and, in some cases, semi-solid, severely limiting its capacity to migrate through pore spaces in the soil.
- Strong sorption to mineral surfaces: Although the slag fill at the Remediation Site contains minimal organic carbon, its porous structure, high surface area, and mineral surfaces provide ample capacity for sorption and physical entrapment of weathered hydrocarbons. Heavier hydrocarbons, which are hydrophobic and viscous, tend to adhere to mineral surfaces and become trapped within pore spaces, where they are immobilized by capillary forces and remain largely static under existing hydraulic conditions.

Given the highly weathered and viscous characteristics of the residual petroleum at the site, further significant migration is unlikely. However, the hybrid slurry wall will provide additional assurance by delivering a continuous, low-permeability barrier with capillary entry pressures greater than the LNAPL's ability to penetrate. Together, these characteristics ensure that both residual petroleum and dissolved-phase petroleum remain contained within the designated area, preventing potential off-site migration and protecting adjacent surface waters.

The following subsections provide details and technical support of the proposed slurry wall.

2.5.2.1 Hybrid Slurry Wall — Design and Performance Goals

To prevent potential migration to surface water bodies, a vertical, low-permeability slurry/containment wall integrated with permeable reactive barrier (PRB) gates is proposed. The hybrid slurry wall will fully encircle the impacted areas, extending approximately 9,000 linear feet, and will provide both hydraulic containment and targeted treatment. The hybrid wall will consist of two components:

(1) a soil-bentonite slurry cut-off wall to serve as a low-permeability hydraulic barrier, and

(2) strategically located PRB gates to allow for controlled groundwater discharge while treating dissolved-phase hydrocarbons.

The soil-bentonite slurry wall will be constructed to a nominal thickness of 2 feet and extend approximately 7,000 linear feet, providing nearly continuous physical encapsulation of the impacted area. The soil-bentonite portions of the slurry wall are planned along the perimeter adjacent to surface waters, while the PRB sections are strategically located away from both the TPH hotspots and the surface waters. This configuration is intended to maximize travel times for dissolved constituents that may migrate from source areas before reaching potential discharge points. In order to prevent potential underflow or leakage, the slurry wall will be keyed a minimum of 2 feet into the clay confining layer located approximately 35 feet BSG. The backfill mixture will include approximately 4% sodium bentonite (by dry weight), which is consistent with soil-bentonite slurry walls constructed in coarse, heterogeneous, contaminated slag fill based on published guidance and vendor experience. Although site-specific compatibility testing has not yet been completed, 4% was selected as a conservative starting point to account for physical and geochemical characteristics of the slag fill, while obtaining the target hydraulic conductivity of $\leq 1 \times 10^{-7}$ cm/s, consistent with U.S. EPA criteria for cutoff walls in contaminated environments. If site-specific compatibility testing indicates, the bentonite content will be adjusted as necessity to achieve the target hydraulic conductivity.

Two PRB gates, approximately 600 and 1,400 linear feet, constructed to a nominal thickness of 3 feet and also keyed into the underlying clay, will be integrated into the hybrid slurry wall to allow for controlled groundwater discharge to the north, away from the Calumet River and South Vessel Slip. Fully enclosed impermeable walls can create the so-called “bathtub effect,” wherein infiltrating water accumulates and raises the internal water table. Incorporating PRB gates provides a controlled outlet for groundwater to discharge, thereby maintaining hydraulic balance. Any water entering the containment area (i.e., via infiltration) will naturally migrate to the gates, preventing excessive head build-up inside the containment area (see the Porewater Solutions Modeling [Report] in Appendix F).

Each PRB gate will be constructed of reactive media consisting of Regenesis PetroFix®, a colloidal activated carbon solution physically mixed on-site into a clean, imported permeable sand/gravel matrix. PetroFix® provides dual mechanisms for contaminant attenuation including immediate adsorption of hydrocarbons onto the high-surface-area carbon particles, and long-term biodegradation stimulated by embedded electron acceptors in the media. Therefore, any potential dissolved-phase hydrocarbons carried with the groundwater will be treated prior to discharge through the containment area. (Note: since the residual petroleum at the Remediation Site is highly weathered with limited mobility and aerobic conditions exist beneath the site, anticipated dissolved-phase concentrations at the gates are low, and free-phase hydrocarbons are not anticipated; therefore, the PRB component is mainly intended as a precaution.)

This hybrid design combines the proven effectiveness of a slurry cutoff wall for physical containment, with the benefits of a funnel-and-gate system to maintain hydraulic balance and treat residual dissolved-phase contamination, thereby achieving the following design objectives:

- prevent potential lateral migration of petroleum hydrocarbons toward surface waters;
- maintain hydraulic equilibrium by providing a controlled outlet for groundwater through the PRB gates, thereby avoiding significant groundwater mounding inside the containment area; and
- ensure that any groundwater discharging through the PRB gates meets the applicable surface water standards prior to reaching the North Vessel Slip or Lake Michigan by adsorbing or degrading petroleum constituents.

The following table provides a summary of the hybrid slurry wall design features, specification, and performance goals.

Table 2-4 Hybrid Slurry Wall Design Specifications

Feature	Specification
Wall Alignment	Continuous, closed-loop encircling Hotspots 3, 4 and 5; maintain at least 50-foot setback from Calumet River and South Vessel Slip to avoid tie-back and USACE easement zones; maintain 10-foot offset from adjacent properties in Hotspot 5
Wall Function	Physical barrier to hydrocarbon migration
Wall Material	Soil-bentonite backfill (native soil mixed with minimum 4% sodium bentonite by weight)
Wall Length	7,000 linear feet (soil-bentonite portion)
Wall Thickness	2 feet (soil-bentonite component)
Wall Depth	Appx. 35 feet (keyed 2 feet minimum into clay confining layer)
Construction Method	DeWind One Pass Trenching (in-situ mixing)
Target Hydraulic Conductivity	$\leq 1 \times 10^{-7}$ cm/s
Target Density	90-120 lb/ft^3
Target Slump	2-6 inches
Reactive Gates	Two permeable reactive gates integrated into the wall
Gate Function	Relieve internal head; inhibit migration of hydrocarbons
Gate Material	Imported sand/gravel amended with PetroFix® (colloidal activated carbon)
Gate Lengths	600 and 1,400 linear feet
Gate Thickness	3 feet
Gate Depth	Appx. 35 feet (keyed 2 feet minimum into clay confining layer)
Gate Construction Method	DeWind One Pass Trenching (in-situ mixing)

Design Justification

To support and refine the proposed hybrid slurry wall design, Pioneer retained Porewater Solutions, an industry leader in various aspects of groundwater modeling, to perform site-specific numerical groundwater flow modeling. The model incorporated existing site hydrogeologic data, including stratigraphy, permeability, and estimated recharge rates, to evaluate whether the proposed system would maintain acceptable hydraulic conditions. The modeling demonstrated that the inclusion of the two planned PRB gates is sufficient to maintain hydraulic balance by providing controlled discharge points, thereby preventing excessive internal mounding (the “bathtub effect”).

The dimensions and configuration of the slurry wall and PRB gates were determined based on published guidance documents (e.g., U.S. EPA, USACE, ITRC), industry standards, and vendor experience, and tailored to site-specific conditions including the low mobility of the weathered hydrocarbons and heterogeneous slag fill. The modeling results provide further assurance that the proposed design is appropriate under site conditions and that long-term hydraulic and chemical performance objectives can be achieved. A pre-construction pumping test is also planned to refine hydraulic parameters, allowing final model calibration and any necessary design adjustments before construction. Together, these analyses demonstrate that the proposed hybrid slurry wall design is robust, conservative, and well-suited to the site's unique conditions. Additionally, pre-construction soil borings will be advanced along the proposed wall alignment at a frequency of approximately every 250 feet in order to confirm the depth to clay, ensuring the hybrid wall is properly keyed into the confining layer.

The proposed hybrid slurry wall alignment and cross section are depicted on Figures 17 through 20. Refer to Appendix F for a copy of Porewater Solutions Modeling [Report], dated September 10, 2025, and PetroFix® product information.

2.5.2.2 Hybrid Slurry Wall — Construction and Performance Testing

The proposed hybrid slurry wall will be constructed as a soil-bentonite slurry cut-off wall with integrated PRB gates, totaling approximately 9,000 linear feet. The project will be completed by DeWind One-Pass Trenching (OPT), an industry leader in deep in-situ trenching solutions, known for its patented One-Pass technology capable of installing soil-bentonite, cement-bentonite, PRB, and cutoff walls to depths of up to 150 feet.

DeWind's OPT method is a continuous in-situ mixing process that eliminates the need for open trenches, slurry ponds, and stockpiled backfill, significantly reducing the risk of trench collapse or instability in heterogeneous fill conditions. OPT produces a homogeneous, seamless barrier without cold joints, ensuring consistent quality and integrity along its full length. The system uses laser and GPS guidance to maintain precise depth, thickness, and alignment, achieving tolerances within ±0.1 foot of design specifications. Because the barrier is mixed directly in-place, OPT requires a smaller surface footprint than conventional slurry trenching, making it ideal for constrained or environmentally sensitive sites. The technology also allows real-time adjustment of backfill proportions to accommodate variable subsurface conditions and seamlessly incorporates multiple backfill types, including soil-bentonite, soil-cement-bentonite, and reactive media within a single, continuous operation.

In addition to constructibility advantages, OPT provides significant environmental and safety benefits compared to traditional methods. By eliminating open excavations, slurry ponds, and stockpiled backfill, OPT substantially reduces the generation of dust, noise, and surface disturbance. The method minimizes spoils and contaminated waste that would otherwise require handling and disposal, and it does not require dewatering, thereby reducing the volume of impacted water that must be managed. OPT also enhances worker safety by limiting the need for personnel in or near trenches and consolidating most operations within the trencher itself. Finally, because OPT achieves

faster production rates—often 200 to 500 linear feet per day—it shortens the construction schedule, reduces overall site disruption, and helps control project costs. Together, these benefits make OPT an efficient, reliable, and environmentally preferable approach for constructing the hybrid slurry wall in support of the project's remedial objectives. Refer to Appendix F for DeWind OPT qualifications and technical information.

The following provides an outline of the anticipated construction methodology, performance testing, and quality control measures.

Construction Methodology

1. Site Preparation
   - Wall alignment and staging areas will be prepared, including a minimum 100- by 100-foot staging area and a stable, 30-foot-wide work platform graded to design elevation.
   - Erosion controls, silt fencing, stormwater protections, and spoil containment measures will be installed in accordance with project specifications.
   - Removal of surface obstructions (vegetation, debris), establishment of benchmark elevations, and installation of survey stakes or markers at 50-foot increments will be conducted to guide alignment and quality control.
   - Test pitting at regular intervals along the wall alignment will be conducted to identify and remove or demolish subsurface obstructions (e.g., foundations, footings, beams, hot-poured slag, rubble) that could impede trenching.
   - Soil borings will also be advanced approximately every 250 feet along the wall alignment to confirm the depth to clay. This information will be utilized to ensure adequate key-in of the cut-off wall and PRB gates into the clay confining layer.

2. Trenching and Backfilling—Soil-Bentonite Section
   - DeWind will mobilize and assemble its specialized equipment, including the OPT trencher, additive hoppers, and water delivery system.
   - The trencher will cut a vertical trench while simultaneously mixing in-situ soils with metered dry sodium bentonite and water to achieve the target backfill properties.
   - Bentonite delivery will be controlled via a patented auger system that synchronizes additive rates with trench advance, ensuring the specified bentonite percentage by weight.
   - Field measurements (e.g., slump, density) will be taken continuously to adjust backfill proportions in real time and maintain target specifications.
   - Where the soil-bentonite wall intersects Hotspots 3 and 5, TPH-impacted soils may be excavated and disposed of at a permitted Subtitle D landfill, then replaced with clean imported sand or gravel to avoid mixing hydrocarbons into the bentonite slurry, if the compatibility testing indicates potential issues.

- Wall depth, thickness, and key-in elevation will be continuously monitored using GPS and laser guidance, ensuring proper penetration into the clay confining layer and maintaining design tolerances.
- The final 1 to 2 feet of barrier wall from each shift will be re-mixed at the start of the next shift to eliminate cold joints and maintain continuity, and will be documented and verified in daily reports.
- A protective stone cap, 2 to 4 feet thick and predominately below grade, will be constructed above the soil-bentonite wall. The top portion of the wall will be excavated in a wedge-shaped profile, then overlain with geotextile fabric and compacted backfill to protect the wall and provide a stable surface for redevelopment.

3. Trenching and Backfilling—PRB Gates
   - Existing trench soils will be excavated and transported off-site for disposal at a permitted Subtitle D landfill, or reused within the appropriate SMZ, as further discussed in Section 3.7.
   - The trench will then be backfilled with clean, imported sand or gravel pre-amended with PetroFix® and homogenized in-place using the OPT system. The result will be a uniform, high-permeability reactive zone approximately 3 feet thick and keyed into the underlying clay confining layer.
   - The soil-bentonite wall will overlap into the PRB gate zones by at least 2 feet to ensure no preferential flow paths develop along the interface.
   - Gate construction will conform to vendor specifications and relevant ASTM guidance for slurry trench and cutoff wall construction, as well as established best practices for reactive barrier installation.

4. Utility Crossings and Special Conditions
   - Where possible, utility crossings will be limited to the PRB gate zones to minimize disturbance of the soil-bentonite wall. Utility corridors and vaults will be backfilled with a low-permeability concrete slurry and existing PRB media.
   - Where utility crossings in the soil-bentonite wall are unavoidable, soil-cement-bentonite segments may be installed to enhance structural strength while maintaining hydraulic containment.
   - In areas of highly variable or unstable fill, slurry density and quality control procedures will be adjusted in real time to avoid trench instability.
   - If unexpected obstructions are encountered, the alignment may be adjusted within the approximate design corridor while maintaining key performance criteria.

Performance Testing and Quality Control (QC)

1. Real-Time Monitoring
   - Slurry properties: slump and density will be measured at regular intervals during construction to ensure proper consistency and trench support.
   - Backfill properties: slump, unit weight, and moisture content will be checked at least every 100 linear feet to confirm that the in-situ mixture achieves the specified workability criteria.
   - Depth and alignment will be verified in real time via laser and GPS, maintaining tolerances within ±0.1 foot.
   - Bentonite feed rates will be continuously monitored and adjusted as needed to maintain mix design targets.

2. Laboratory Testing
   - Backfill samples will be collected at intervals of approximately every 400 cubic yards and tested for permeability (ASTM D5084) to confirm hydraulic conductivity is $\leq 1 \times 10^{-7}$ cm/s.
   - Soil-cement-bentonite segments, if installed, will be tested for unconfined compressive strength (ASTM D2166) to confirm ≥50 psi.
   - PRB gate media may be tested for permeability and amendment distribution to confirm uniformity and effectiveness, if necessary.

3. Documentation
   - Daily field logs will record production rates, mix properties, field test results, and any weather or site conditions affecting construction.
   - As-built drawings will document trench depth, thickness, alignment, material properties, and QC results.
   - All documentation will be summarized and compiled in a Remedial Action Completion Report for submission to the Illinois EPA.

2.5.2.3 Hybrid Slurry Wall — Post-Construction Protection and Monitoring

The following provides an outline of the planned post-construction notifications and protection, and post-construction monitoring.

Post-Construction Notification and Protection

Following construction, the final as-built wall alignment and dimensions will be incorporated into the permanent part of the chain of title for the site with the eventual NFR Letter, and will also be incorporated into the site's environmental management plan. To prevent inadvertent damage during future intrusive activities, a notification and marking protocol will be established, similar to the City of Chicago's Streeterville Thorium Monitoring Area system. Specifically:

- As-built information will be provided to the City of Chicago utility locating service (i.e., 811 Chicago) so that contractors planning subsurface work in the area are notified of the wall's presence.
- Permanent surface markers (e.g., monuments or posts) may be installed at key locations such as corners and PRB gates to delineate the wall's footprint in the field.
- Any entity planning intrusive work in the vicinity of the wall will be directed to coordinate with the property owner and/or site environmental manager prior to initiating subsurface activities.

These measures will help maintain the integrity and performance of the hybrid slurry wall and ensure its long-term effectiveness as an engineered remedial feature.

Post-Construction Monitoring

This monitoring plan is designed to verify the long-term performance of the soil-bentonite and PRB components of the hybrid slurry wall. Although no free product and only a very limited dissolved-phase petroleum plume have been identified, this plan is intentionally conservative and is intended to confirm that the containment system continues to protect surface water receptors over time.

The monitoring plan is designed to achieve three primary objectives:

(1) Confirm that groundwater passing through the PRB gates meets the applicable surface water quality standards, as defined by 35 IAC 302, before discharging into surface waters;

(2) Ensure that groundwater levels inside the containment area remain below design thresholds and confirm that groundwater discharges through the PRB gates in a controlled manner; and

(3) Monitor for slurry wall deterioration from the surface of the site.

- Monitoring Well Network

  A total of 22 monitoring wells will be installed and monitored to ensure accurate detection of contaminant and hydraulic conditions in vital areas of the hybrid slurry wall. Refer to Figure 18 for the proposed monitoring well locations.

  - PRB Gate Pairs (18 wells): Nine upgradient (interior) and nine downgradient (exterior) wells spaced approximately 180 to 260 feet apart along the gates. Upgradient wells will monitor groundwater quality and internal head conditions before water enters the gates. Downgradient wells will measure treatment effectiveness and monitor external head conditions. (Note that certain well pairs will be installed near the ends of each gate to monitor potential preferential flow around the gate termini.)
  - Hydraulic Control (4 wells): Located at the southeastern and southwestern interior areas where groundwater mounding is predicted to be the greatest. These wells will continuously measure groundwater elevations to confirm that hydraulic conditions remain within design limits.

All monitoring wells will be constructed with 10-foot screens that intersect the water table within the unconfined aquifer feeding the PRB gates, with screen elevations encompassing seasonal water level fluctuations. Wells will be installed approximately 10 to 20 feet from the gate faces to measure representative upgradient and downgradient conditions while avoiding disturbance of the gate backfill and preventing hydraulic short-circuiting.

- Monitoring Frequency and Duration

  - Year 1: Quarterly monitoring to establish baseline conditions and evaluate short-term performance across seasonal and hydraulic variations.
    - The first quarterly event will include the sampling of all 18 PRB monitoring wells
    - Remaining quarterly events will include sampling only the nine upgradient wells unless impacts are identified
    - Groundwater elevations will be manually gauged from all 22 monitoring wells
    - The four hydraulic control wells will be fitted with pressure transducers and data loggers to record groundwater levels at 60-minute intervals. Each well will be further equipped with telemetry for real-time data collection during storm events; real-time monitoring will be conducted following rainfall of 0.5 inches or greater within 24 hours
    - Surface inspections along the wall alignment to focus on identifying visible signs of subsurface deterioration, such as settlement, cracking, ponding, or seepage
  - Years 2 through 10: Biannual (twice a year) monitoring to further establish baseline conditions and evaluate long-term performance across seasonal and hydraulic variations.
    - Continue sampling the nine upgradient PRB monitoring wells and manually gauging all 22 monitoring wells
    - Continue real-time monitoring of groundwater elevations in the four hydraulic control wells
    - Continue the surface inspections along the wall alignment
  - Years 11 through 30: Annual monitoring to confirm longer-term stability
    - Continue sampling the nine upgradient PRB monitoring wells and manually gauging all 22 monitoring wells
    - Continue the surface inspections along the wall alignment

  Notes:

  - If impacts (i.e., COC concentrations greater than Tier 1 GROs for Class II groundwater) are identified in any of the upgradient (interior) PRB monitoring wells during the Year 1 through 10 monitoring events, the following event will be used as confirmation. If the impact is confirmed, the corresponding downgradient (exterior) PRB monitoring well will be permanently added to the monitoring schedule.
  - If impacts are identified in any upgradient PRB monitoring wells during the Year 11 through 30 monitoring events, a confirmation event for the well(s) in question will be added within 6

months. If the impact is confirmed, the corresponding downgradient PRB monitoring well will be permanently added to the monitoring schedule.

- If after the first 10 years hydraulic conditions are determined to be nominal during static conditions and transient rain events, the hourly logging and real-time monitoring of groundwater elevations in the four hydraulic control wells will be discontinued.

- Monitoring Parameters and Methods

  - Groundwater samples from the PRB gate monitoring wells will be collected using low-flow sampling techniques to minimize turbidity and ensure representative results.
  - Samples will be analyzed for BTEX/naphthalene, which include the contaminants identified in groundwater and includes the potentially mobile indicator contaminants for fuel oils, crude oil, and other petroleum-based products, as specified in 35 IAC 734.405(c).
  - Groundwater elevations and other key geochemical parameters will be measured including pH, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), and specific conductance.
  - Groundwater elevations will be logged hourly from the four hydraulic control monitoring wells via dedicated pressure transducers and data loggers. Manual water level measurements will also be conducted per the proposed monitoring schedule to confirm transducer data and provide continuing calibration.

- Data Review and Response Actions

  - Data will be reviewed after each event to assess both contaminant trends and hydraulic performance.
  - If an upgradient PRB well shows a confirmed impact, the corresponding downgradient well will be added to the permanent monitoring schedule.
  - If elevated contaminant levels or declining PRB reactivity are observed, corrective actions such as further investigation, potential reactive media rejuvenation, or increasing gate capacity will be implemented, as necessary, to mitigate any potential surface water impacts.
  - If water level data indicate unacceptable mounding within the containment area (i.e., transient groundwater mounding within 1-foot of the top of the slurry wall during rain events), contingency measures will be implemented, as necessary, including pumping from interior areas or adjusting the site's stormwater infiltration.
  - If surface inspections indicate potential deterioration, a more invasive inspection will be completed to further evaluate conditions and determine appropriate corrective actions.

- Reporting and Regulatory Coordination

  - Summary Reports: To be prepared after each monitoring event and will include water quality and hydraulic data, trend analyses, and a discussion of overall performance of the hybrid slurry wall containment system. The Remediation Applicant will maintain summary reports

during the duration of the monitoring program and will provide copies to the Illinois EPA upon request.

- Final Summary Report: To be prepared after 30 years of monitoring, providing full documentation of the cumulative monitoring program and requesting Illinois EPA concurrence to discontinue monitoring.
- Trigger-Based Correspondence: If monitoring data indicate: (1) exceedances of applicable objectives in exterior PRB wells that are proven to originate from within the containment area, (2) any other evidence of declining PRB reactivity, (3) unacceptable hydraulic conditions that require corrective action, or (4) slurry wall deterioration that requires corrective action, the Remediation Applicant will prepare a summary memorandum of findings and proposed response measures for submittal to the Illinois EPA.

The proposed monitoring plan represents a highly conservative approach given the current site conditions. No measurable free product has been observed anywhere on the subject property during the cumulative investigation and the only dissolved-phase petroleum impacts are isolated to a limited area (at MW-202 in Hotspot 5) approximately 1,200 feet from the nearest PRB gate. Despite the minimal risk of migration under existing conditions, a network of 22 monitoring wells has been designed to provide comprehensive coverage of the slurry wall and PRB gates.

Baseline monitoring will include sampling from both upgradient and downgradient PRB wells to determine background conditions immediately following installation of the hybrid slurry wall. Routine monitoring will then focus on upgradient wells, with downgradient wells only sampled if an interior well shows a confirmed impact. Groundwater elevations will be measured from all wells during each event, with continuous transducer monitoring at interior hydraulic control wells to evaluate potential mounding and verify controlled discharge through the PRB gates. Monitoring will be conducted quarterly in Year 1, biannually in Years 2 through 10, and annually in Years 11 through 30.

All data will be evaluated by a qualified environmental professional and maintained by the Remediation Applicant to demonstrate continued protection of surface water receptors and enable timely corrective action, if needed. If the containment system continues to meet applicable objectives through the monitoring period, a Final Summary Report will be submitted to the Illinois EPA requesting concurrence to discontinue monitoring. If impacts, evidence of declining PRB reactivity or slurry wall deterioration, or unacceptable hydraulic conditions are identified that require corrective action or regulatory review, a summary report outlining findings and proposed modifications will be submitted to the Illinois EPA for evaluation prior to implementation.

2.5.3 Groundwater Ingestion [742.925(c), (d)]

The following table outlines the cumulative sample locations where TCL parameters were identified above the Tier 1 SROs and/or GROs for the soil and groundwater components of Class II groundwater ingestion, and the approach for addressing each impact.

Table 2-5 Sample Locations Where TCL Parameters Exceed the Applicable Tier 1 Objectives for the Soil or Groundwater Components of Class II Groundwater Ingestion

Sample ID	TCL Parameters Detected Above the Tier 1 SROs or GROs for the Soil or Groundwater Components of Class II Groundwater Ingestion	Approach for Addressing Impacts
CRA Focused Phase II Investigation - 2007		
B-2 (7-9)	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene	Incomplete Pathway
SS-010 (0-0.5)	Benzo(a)anthracene	Incomplete Pathway
SS-012 (0-0.5)	Benzo(a)anthracene	Incomplete Pathway
GHD Phase II Investigation - 2017		
B-2W20 (7-9)	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene	Incomplete Pathway
SS-10E20	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene	Incomplete Pathway
SS-10S20	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene	Incomplete Pathway
SS-10W20	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene	Incomplete Pathway
SS-113	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene	Incomplete Pathway
Pioneer Phase II Investigation - 2024-2025		
SB2 (3-5)	Methylene Chloride	Incomplete Pathway
	[2-Hexanone]	Incomplete Pathway
SB10 (5-7.5)	Carbazole, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Dibenzo(a,h)anthracene, Dibenzofuran, Indeno(1,2,3-cd)pyrene	Conventional Remediation
SB13 (0-3)	Vanadium	Incomplete Pathway
SB17 (0-3)	*[2-Hexanone]*	Incomplete Pathway
SB18 (0-3)	*[2-Hexanone]*	Incomplete Pathway
SB19 (0-3)	*[2-Hexanone]*	Incomplete Pathway
SB20 (3-5)	*[2-Hexanone]*	Incomplete Pathway
SB21 (0-3)	*[2-Hexanone]*	Incomplete Pathway
SB21 (12.5-15)	*[2-Hexanone]*	Incomplete Pathway
SB27 (5-7.5)	*[2-Hexanone]*	Incomplete Pathway
SB28 (0-3)	*[2-Hexanone]*	Incomplete Pathway
SB30 (12.5-15)	*[2-Hexanone, Methylene Chloride]*	Incomplete Pathway
SB34 (5-7.5)	*[2-Hexanone]*	Incomplete Pathway
SB41 (0-3)	Carbazole, Benzo(a)anthracene, Benzo(b)fluoranthene, Dibenzo(a,h)anthracene	Incomplete Pathway
SB48 (5-7.5)	Carbazole, Benzo(a)anthracene	Incomplete Pathway
SB51 (0-3)	*[2-Hexanone, Methylene Chloride]*	Incomplete Pathway
SB53 (0-3)	*[2-Hexanone]*	Incomplete Pathway
SB54 (0-3)	*[2-Hexanone]*	Incomplete Pathway
SB54 (10-12.5)	*[2-Hexanone]*	Incomplete Pathway
SB55 (0-3)	Dieldrin	Incomplete Pathway
SB56 (5-7.5)	*[2-Hexanone]*	Incomplete Pathway
SB61 (0-3)	*[2-Hexanone]*	Incomplete Pathway
SB61 (17.5-19)	*[2-Hexanone, Methylene Chloride]*	Incomplete Pathway
SB67 (3-5)	*[2-Hexanone]*	Incomplete Pathway
SB76 (0-3)	Vanadium	Incomplete Pathway

Sample ID	TCL Parameters Detected Above the Tier 1 SROs or GROs for the Soil or Groundwater Components of Class II Groundwater Ingestion	Approach for Addressing Impacts
SB78 (10-12.5)	Vanadium	Incomplete Pathway
SB87 (0-3)	Carbazole	Incomplete Pathway
SB90 (0-3)	Vanadium	Incomplete Pathway
SB92 (3-5)	Vanadium	Incomplete Pathway
SB94 (0-3)	Vanadium	Incomplete Pathway
SB98 (7.5-10)	Vanadium	Incomplete Pathway
SB115 (0-3)	Benzo(a)anthracene, Benzo(b)fluoranthene	Incomplete Pathway
SB115 (5-7.5)	Carbazole, Benzo(a)anthracene, Benzo(b)fluoranthene	Incomplete Pathway
SB124 (0-3)	Benzo(a)anthracene, Benzo(b)fluoranthene	Incomplete Pathway
MW-102D	Vinyl Chloride	Groundwater Ordinance or Remediation
MW-202	Benzene, Naphthalene	Slurry Wall / Groundwater Ordinance

2.5.3.1 Soil Migration to Groundwater — Incomplete Pathway [742.925(c), (d)]

The cumulative soil testing has only identified limited and sporadic soil migration to groundwater impacts (or potential but unconfirmed impacts), which are generally only marginally above the applicable Tier 1 SROs. Additionally, the cumulative groundwater testing has consistently shown a lack of corresponding impacts in groundwater, providing strong evidentiary support that the soil migration to groundwater exposure route is incomplete. The basis for this incomplete pathway evaluation is provided in further detail throughout this section.

- *A discussion of the result and possibility of the route becoming active in the future (35 IAC 742.925(c)); and*

A total of 50 groundwater samples were collected from 37 monitoring wells as part of the cumulative (2007-2025) investigation activities. None of the cumulative groundwater samples exhibited concentrations above the applicable Tier 1 GROs for any COCs identified as soil migration to groundwater impacts (or potential but unconfirmed impacts), and the overwhelming majority of associated results were not detected at all, or to a lesser extent, were detected below the most stringent Tier 1 GROs. The following table provides a cumulative listing of the soil migration to groundwater impacts (or potential but unconfirmed impacts) and the corresponding groundwater concentrations.

Table 2-6 Summary of Potential Soil Migration Impacts and Corresponding Groundwater Concentrations

COC	Concentrations (or Detection Limits) Above Applicable Soil Migration Tier 1 SRO (or Background Concentration)		Applicable Tier 1 SRO	Corresponding Groundwater Concentrations	Applicable Tier 1 GRO
[2-Hexanone]	*SB-2 (3-5)*	*<0.27 mg/kg*	0.161 mg/kg	<0.0050 mg/L (MW-308, crossgradient) <0.000493 mg/L (MW-315, crossgradient)	0.175 mg/L
	SB17 (0-3)	*<0.18 mg/kg*		<0.0050 & <0.00493 mg/L (EW-3 & MW-315, cross/downgradient)	
	SB18 (0-3)	*<0.17 mg/kg*		<0.0050 mg/L (MW-301, crossgradient) <0.00493 (MW-315, cross/downgradient)	
	SB19 (0-3)	*<0.19 mg/kg*		<0.0050 mg/L (MW-301, crossgradient) <0.00493 (MW-315, cross/downgradient)	
	SB20 (3-5)	*<0.22 mg/kg*		<0.0050 mg/L (MW-301, crossgradient) <0.00493 (MW-315, cross/downgradient)	
	SB21 (0-3)	*<0.18 mg/kg*		<0.0050 mg/L (MW-301, crossgradient) <0.00493 (MW-315, cross/downgradient)	
	SB21 (12.5-15)	*<0.18 mg/kg*		<0.0050 mg/L (MW-301, crossgradient) <0.00493 (MW-315, cross/downgradient)	
	SB27 (5-7.5)	*<0.22 mg/kg*		<0.0050 mg/L (MW-303, downgradient) <0.00493 mg/L (MW-318, downgradient)	
	SB28 (0-3)	*<0.17 mg/kg*		<0.0050 mg/L (MW-303, downgradient) <0.00493 mg/L (MW-318, downgradient)	
	SB30 (12.5-15)	*<0.39 mg/kg*		<0.0050 mg/L (MW-304, downgradient)	
	SB34 (5-7.5)	*<0.19 mg/kg*		<0.0050 mg/L (MW-304, crossgradient)	
	SB51 (0-3)	*<0.31 mg/kg*		<0.0050 mg/L (MW-303, co-located)	
	SB53 (0-3)	*<0.23 mg/kg*		<0.00493 mg/L (MW-202, downgradient) <0.00493 mg/L (MW-318, downgradient)	
	SB54 (0-3)	*<0.23 mg/kg*		<0.00493 mg/L (MW-318, cross/downgradient)	
	SB54 (10-12.5)	*<0.23 mg/kg*		<0.00493 mg/L (MW-318, cross/downgradient)	
	SB56 (5-7.5)	*<0.21 mg/kg*		<0.00493 (MW-314, crossgradient)	
	SB61 (0-3)	*<0.17 mg/kg*		<0.00493 mg/L (MW-318, co-located)	
	SB67 (3-5)	*<0.27 mg/kg*		<0.0050 mg/L (MW-306, downgradient)	
	SB61 (17.5-19)	*<0.37 mg/kg*		<0.00493 mg/L (MW-318, co-loctated)	
[Methylene Chloride]	SB2 (3-5)	0.35 mg/kg	0.2 mg/kg	<0.0050 mg/L (MW-308, crossgradient) <0.000610 mg/L (MW-315, crossgradient)	0.05 mg/L
	SB30 (12.5-15)	*<0.28 mg/kg*		<0.0050 mg/L (MW-304, downgradient)	
	SB51 (0-3)	*<0.23 mg/kg*		<0.0050 mg/L (MW-303, co-located)	
	SB61 (17.5-19)	*<0.27 mg/kg*		<0.000620 mg/L (MW-318, co-located)	
BaA	B-2 (7-9)	16 mg/kg	11 mg/kg	<0.0000871 mg/L (MW-106, downgradient) <0.00013 mg/L (MW-301, downgradient) <0.00013 mg/L (MW-315, downgradient)	0.00065 mg/L
	SS-010 (0-0.5)	13 mg/kg		<0.0014 mg/L (MW-306, crossgradient)	
	SS-012 (0-0.5)	13 mg/kg		<0.0013 mg/L (MW-305, crossgradient)	
	B-2W20 (7-9)	56 mg/kg		<0.0000871 mg/L (MW-106, downgradient) <0.00013 mg/L (MW-301, downgradient) <0.00013 mg/L (MW-315, downgradient)	
	SS-10E20	27 mg/kg		<0.0014 mg/L (MW-306, crossgradient)	
	SS-10S20	38 mg/kg		<0.0014 mg/L (MW-306, crossgradient)	
	SS-10W20	31 mg/kg		<0.0014 mg/L (MW-306, crossgradient)	
	SS-113	87 mg/kg		0.00019 mg/L (MW-316, crossgradient), <0.00016 mg/L (NMW-4, downgradient	
	SB41 (0-3)	60 mg/kg		<0.00013 mg/L (MW-312, crossgradient; downgradient per 1992-1994 groundwater contours)	

COC	Concentrations (or Detection Limits) Above Applicable Soil Migration Tier 1 SRO (or Background Concentration)		Applicable Tier 1 SRO	Corresponding Groundwater Concentrations	Applicable Tier 1 GRO
	SB48 (5-7.5)	19 mg/kg		<0.00013 mg/L (MW-312, crossgradient; downgradient per 1992-1994 groundwater contours)	
	SB115 (0-3)	28 mg/kg		<0.00013 mg/L (MW-312, crossgradient; downgradient per 1992-1994 groundwater contours)	
	SB115 (5-7.5)	39 mg/kg		<0.00013 mg/L (MW-315, co-located)	
	SB124 (0-3)	31.1 mg/kg		0.00019 mg/L (MW-316, crossgradient), <0.00016 mg/L (NMW-4, downgradient	
BaP	SS-113	130 mg/kg	82 mg/kg	0.000264 mg/L (MW-316, crossgradient), <0.00019 mg/L (NMW-4, downgradient	0.002 mg/L
BbF	B-2W20 (7-9)	74 mg/kg	25 mg/kg	<0.0000419 mg/L (MW-106, downgradient) <0.00016 mg/L (MW-301, downgradient) <0.00016 mg/L (MW-315, downgradient)	0.009 mg/L
	SS-10E20	44 mg/kg		<0.00017 mg/L (MW-306, crossgradient)	
	SS-10S20	64 mg/kg		<0.00017 mg/L (MW-306, crossgradient)	
	SS-10W20	50 mg/kg		<0.00017 mg/L (MW-306, crossgradient)	
	SS-113	130 mg/kg		0.000207 mg/L (MW-316, crossgradient), <0.00019 mg/L (NMW-4, downgradient	
	SB41 (0-3)	77 mg/kg		<0.00016 mg/L (MW-312, crossgradient; downgradient per 1992-1994 groundwater contours)	
	SB115 (0-3)	27 mg/kg		<0.00016 mg/L (MW-315, co-located)	
	SB115 (5-7.5)	34 mg/kg		<0.00016 mg/L (MW-315, co-located)	
	SB124 (0-3)	33.2 mg/kg		0.000207 mg/L (MW-316, crossgradient), <0.00019 (NMW-4, downgradient	
Carbazole	SB41 (0-3)	12 mg/kg	2.8 mg/kg	<0.00041 mg/L (MW-312, crossgradient; downgradient per 1992-1994 groundwater contours)	0.02 mg/L*
	SB48 (5-7.5)	4.8 mg/kg		<0.00041 mg/L (MW-312, crossgradient; downgradient per 1992-1994 groundwater contours)	
	SB87 (0-3)	3.8 mg/kg		<0.0038 mg/L (MW-309, crossgradient) (MW-101, crossgradient; downgradient per 1992-1994 groundwater contours)	
	SB115 (5-7.5)	11 mg/kg		<0.0039 mg/L (MW-315, co-located)	
DahA	SS-10E20	17 mg/kg	7.6 mg/kg	<0.0025 mg/L (MW-306, crossgradient)	0.0015 mg/L
	SS-10S20	22 mg/kg		<0.0025 mg/L (MW-306, crossgradient)	
	SS-10W20	21 mg/kg		<0.0025 mg/L (MW-306, crossgradient)	
	SS-113	90 mg/kg		0.0000844 mg/L (MW-316, crossgradient), <0.00019 mg/L (NMW-4, downgradient	
	SB41 (0-3)	10 mg/kg		<0.00024 mg/L (MW-312, crossgradient; downgradient per 1992-1994 groundwater contours)	
Dieldrin	SB55 (0-3)	0.51 mg/kg	0.02 mg/L	<0.00012 mg/L (MW-305, downgradient)	0.045 mg/L
Vanadium (TCLP or SPLP)	SB76 (0-3)	0.12 mg/L	0.1 mg/L	0.00134 mg/L (MW-106, cross/downgradient	0.1 mg/L
	SB78 (10-12.5)	0.13 mg/L		0.092 mg/L (MW-309, co-located)	
	SB84 (5-7.5)	0.14 mg/L		0.092 mg/L (MW-309, downgradient))	
	SB90 (0-3)	0.16 mg/L		0.0074 mg/L (MW-310, co-located)	
	SB92 (3-5)	0.14 mg/L		<0.0050 mg/L (MW-307, cross/downgradient)	
	SB94 (0-3)	0.12 mg/L		0.00379 mg/L (MW-314, downgradient)	
	SB98 (7.5-10)	0.17 mg/L		<0.0050 mg/L (MW-311, co-located)	

Notes: * The Tier 1 GRO for carbazole is based on the GW_{obj} value from Section 742.Appendix B, Table F.
Italicized indicates an elevated detection limit, not a confirmed concentration
BaA = benzo(a)anthracene
BaP = benzo(a)pyrene
BbF = benzo(f)fluoranthene
DahA = dibenzo(a,h)anthracene
SPLP = synthetic precipitation leaching procedure
TCLP = toxicity characteristic leaching procedure

2-Hexanone

A total of 265 soil samples were collected during the cumulative investigation and analyzed for 2-hexanone, of which there was only one actual, reported detection. That reported detection was below the most stringent Tier 1 SRO. In addition, there were 16 soil samples with detection limits marginally above the applicable soil migration to groundwater Tier 1 SRO. None of the cumulative groundwater samples collected from 2007 to 2025 exhibited detectable concentrations of 2-hexanone, with laboratory detection limits approximately two orders of magnitude below the most stringent Tier 1 GRO. Additionally, various soil samples with elevated detection limits have co-located or downgradient monitoring wells. The cumulative testing has shown that VOCs are generally not a concern at the subject property, and 2-hexanone is not an indicator contaminant or a leaching concern for the residual petroleum impacts.

Methylene Chloride

A total of 265 soil samples were collected during the cumulative investigation and analyzed for methylene chloride. Only five of these samples exhibited detectable concentrations, with four detections below the most stringent Tier 1 SRO, and one detection marginally above the applicable Tier 1 SRO. None of the cumulative groundwater samples collected from 2007 to 2025 exhibited detectable concentrations of methylene chloride, with laboratory detection limits one to two orders of magnitude below the applicable Tier 1 GRO. Additionally, the four samples with elevated detection limits have co-located or downgradient monitoring wells. The recent testing has shown that VOCs are generally not a concern at the subject property, and methylene chloride is not considered an indicator contaminant or a leaching concern for the residual petroleum impacts. Further, historical reports associated with the 1997 NFR Letter indicated that methylene chloride was not a concern for the subject property at that time.

Benzo(a)anthracene (BaA), Benzo(b)fluoranthene (BbF), and Dibenzo(a,h)anthracene (DahA)

A total of 324 soil samples were collected during the cumulative investigation and analyzed for PNAs. Only 16 of these samples exhibited concentrations of PNAs (BaA, BbF, DahA) above the applicable soil migration to groundwater Tier 1 SROs. None of the 2007 and 2017 groundwater samples exhibited detectable concentrations of BaA, BbF, and DahA, and the majority of groundwater samples collected by Pioneer did not exhibit detectable concentrations of PNAs, and those that did were below the most stringent or applicable Tier 1 GROs. (Although it should be noted that the only detections observed by Pioneer were from monitoring wells that were not sampled with more representative low-flow methods.) Additionally, the locations exhibiting potential soil migration to groundwater impacts have co-located or downgradient monitoring wells. The recent testing has shown that PNAs are not a concern for groundwater at the subject property, and only very sporadic and limited impacts are present in soil. Further, historical reports

associated with the 1997 NFR Letter indicated that these COCs were not a concern in groundwater at that time.

Carbazole

A total of 312 soil samples were collected during the cumulative investigation and analyzed for carbazole. Only five of these samples exhibited concentrations above the applicable soil migration to groundwater Tier 1 SRO. There was only one groundwater detection of carbazole in the 2007 investigation and one groundwater detection in the 2017 investigation, although the 2007 detection was below the most stringent Tier 1 GRO and the 2017 detection was from a monitoring well (MW-202) resampled by Pioneer using low-flow methods—there were no groundwater detections of carbazole in the 2024-2025 investigation. Additionally, the locations exhibiting potential soil migration to groundwater impacts have co-located or downgradient monitoring wells. Further, historical reports associated with the 1997 NFR Letter indicated that carbazole was not a concern in groundwater at that time.

Dieldrin

A total of 250 soil samples collected by Pioneer were analyzed for dieldrin and only one of these samples exhibited a detectable concentration, which was above the applicable soil migration to groundwater Tier 1 SRO. All of the Pioneer groundwater samples collected from the site did not exhibit detectable concentrations of dieldrin, with detection limits approximately three orders of magnitude below the applicable Tier 1 GRO. Additionally, the sample location exhibiting the potential soil migration to groundwater impact has a downgradient monitoring well at MW-305 and a cross/downgradient monitoring well at MW-316.

Vanadium

A total of 250 soil samples collected by Pioneer were analyzed for total vanadium and none of these exhibited a concentration above an applicable pH-specific soil migration to groundwater Tier 1 SRO. And only seven samples did not have a pH-specific Tier 1 SRO, were also above background concentrations, and also exhibited leachable concentrations above the applicable Tier 1 SRO. As shown in the preceding table, the seven leachable concentrations are only marginally above the applicable Tier 1 SRO for migration to groundwater. Additionally, all of the 42 groundwater samples collected during the cumulative investigation and analyzed for vanadium exhibited either non-detectable concentrations or concentrations below the most stringent Tier 1 GRO, with one exception where vanadium was still below the applicable Tier 1 GRO. However, it should be noted that none of the wells with vanadium detections were sampled using low-flow methods, and based on the low-flow sampling trends at the site, any vanadium detections are likely artificially high due to the presence of ultra-fine colloids. Further, historical reports associated with the 1997 NFR Letter indicated that vanadium was not a concern in groundwater at that time.

Based on these results, while the aforementioned COCs may be present in soils at concentrations exceeding (or potentially exceeding) the soil migration to groundwater Tier 1 SROs, the extensive leachability and groundwater results demonstrate that the soil impacts have not and will not result in groundwater or surface water impacts. Therefore, the soil component of the groundwater ingestion

exposure route is incomplete with respect to these COCs and will not become active in the future due to the following:

- The Remediation Site was fully developed as a steel mill by the late 1800s, with the majority of the subject property constructed as made land using backfilled slag produced on-site. The detected (or potentially detected) COCs included in this Tier 3 evaluation are associated with the slag fill and/or historical operations and have likely been in place for 50 to over 100 years. During that time, infiltrating stormwater has frequently contacted soils across the site, providing hydraulic conditions suitable for the leaching of contaminants into groundwater. However, groundwater testing conducted from the 1990s to 2025 has consistently shown no evidence that these COCs have contributed to groundwater concentrations above applicable objectives. Therefore, any mobile fraction has likely already been flushed from the subsurface, leaving behind a stable slag fill layer that does not pose a significant risk to groundwater.

- More specifically, and as demonstrated in the preceding table, the majority of soil samples exhibiting potential soil migration to groundwater impacts have corresponding co-located or downgradient monitoring wells that consistently show either non-detectable concentrations or concentrations below the most stringent Tier 1 GROs. Further, low-flow sampling trends suggest that any observed detections of SVOCs (including PNAs) and inorganics are likely artifacts of sampling, such as artificially elevated results caused by ultra-fine colloids bypassing the filters.

- Post-development stormwater infiltration is expected to decrease by approximately 40 to 80 percent, further limiting contact with potentially impacted fill materials and creating hydraulic conditions even less conducive to contaminant leaching than those that have existed for decades.

- The eventual comprehensive NFR Letter(s) will serve as an institutional control to prohibit the use of groundwater beneath the Remediation Site. In addition, the City of Chicago maintains a groundwater ordinance and memorandum of understanding (MOU) with the Illinois EPA prohibiting the use of groundwater for potable purposes.

- *Technical support that may include, but is not limited to, the following (35 IAC 742.925(d)).*

    - *a discussion of the natural or man-made barriers to that exposure route (35 IAC 742.925(d)(1));*

    The Remediation Site and surrounding properties within at least a 2,500-foot radius are located within the City of Chicago, which maintains an ordinance and MOU that prohibit the use of groundwater for potable purposes. Furthermore, as discussed in Section 1.4.6.3, there are no known potable water supply wells located at the Remediation Site or adjoining properties, and the Remediation Site is not located within the minimum or maximum designated setback zones of any potable wells.

    - *calculations and modeling (35 IAC 742.925(d)(2));*

Since no impacts have been detected in groundwater at concentrations exceeding the applicable Tier 1 GROs for the groundwater ingestion exposure route, and the soil component of the groundwater ingestion exposure route is considered to be incomplete for the reasons described herein, there is no migration of these contaminants in groundwater. However, in order to facilitate review of this Tier 3 evaluation, theoretical fate and transport modeling is presented below.

Theoretical Fate and Transport Modeling (Migration to Groundwater Impacts)

Pioneer performed fate and transport modeling calculations using SSL Equation S18 and RBCA Equation R26 to determine the predicted theoretical migration of the soil migration to groundwater impacts. The modeling calculations were performed using spreadsheets prepared by Pioneer, which outline the applicable parameters and completed calculations (see Spreadsheets 3, 4, and 5 in Appendix E).

Default and chemical-specific input variables provided in TACO and site-specific variables were used in the fate and transport modeling equations. The site-specific variables utilized in the calculations are summarized in the following table.

Table 2-7 Site-Specific Variables for Theoretical Fate & Transport Modeling Calculations for the Soil Component of Class II Groundwater Impacts

Variable	Value		Source
Source Width Parallel to Groundwater Flow Direction in the Horizontal Plane ("L") & Source Width Perpendicular to Groundwater Flow Direction in Horizontal Plane ("Sw")	2-Hexanone at SB56	770 feet	Largest dimension of the estimated source areas based on cumulative soil and groundwater results, see Figure 12
	Methylene Chloride & 2-Hexanone at SB2	670 feet	
	2-Hexanone at SB67	1,220 feet	
	2-Hexanone at SB17-SB21, SB27, SB28, SB30, SB34, SB51, SB53, SB54 & SB61(a)	3,490 feet	
	Methylene Chloride at SB30, SB51 & SB61a	1,555 feet	
	PNAs and Carbazole at SB41 & SB48	1,375 feet	Largest dimension of the estimated source areas based on cumulative soil and groundwater results, see Figure 13
	PNA at SS-012 & SB64	1,320 feet	
	Carbazole at SB87	775 feet	
	PNAs and Carbazole at SB115	910 feet	
	PNAs at B-2 & B-2W20	940 feet	
	PNAs at SS-113 & SB124	660 feet	
	PNAs at SS-010, E20, S20 & W20	1,100 feet	
	Vanadium at SB78, SB84, SB90, SB92, SB94 & SB98	2,805 feet	Largest dimension of the estimated source areas based on cumulative soil and groundwater results, see Figure 14
	Vanadium at SB13	850 feet	
	Vanadium at SB76	850 feet	
	Vanadium at SB108	775 feet	
	Dieldrin at SB55	910 feet	Largest dimension of the estimated source area based on cumulative soil and groundwater results, see Figure 15
Hydraulic Conductivity (K)	5.40×10^{-3} cm/s		Average of K values from 1995 to 2025
Hydraulic Gradient (i)	0.0019 ft/ft		Based on averaging hydraulic gradients calculated from various transects on Figure 4
Organic Carbon Content (foc)	0.006 or 0.002		Default values for surface or subsurface soils

Pioneer used SSL Equation S18 to predict the contaminant concentrations in groundwater corresponding to the concentrations or elevated detection limits in the soil samples. The resulting predicted groundwater concentrations (see Spreadsheet 3 in Appendix E), along with TCLP or SPLP vanadium concentrations were used as the "Csource" concentrations in RBCA Equations R16 through R19, and R26, which were used to estimate the extent of potential contaminant migration (Spreadsheet 4 in Appendix E). The following table outlines the results of the fate and transport modeling calculations.

Table 2-8 Summary of S18 and R26 Results for Theoretical Migration of the Soil Component of Class II Groundwater Impacts

COC	Concentrations (or Detection Limits) Above Applicable Soil Migration Tier 1 SRO (or Background Concentration)		Equation S18 Predicted Groundwater Concentrations	Distances to Achieve the Tier 1 GROs for Class II Groundwater	Predicted Concentrations in Groundwater at the Nearest Surface Water Body
[2-Hexanone]	*SB-2 (3-5)*	*<0.27 mg/kg*	0.059 mg/L	79 feet	<
	SB17 (0-3)	*<0.18 mg/kg*	0.047 mg/L	59 feet	<
	SB18 (0-3)	*<0.17 mg/kg*	0.045 mg/L	53 feet	<
	SB19 (0-3)	*<0.19 mg/kg*	0.05 mg/L	63 feet	<
	SB20 (3-5)	*<0.22 mg/kg*	0.048 mg/L	60 feet	<
	SB21 (0-3)	*<0.18 mg/kg*	0.047 mg/L	59 feet	<
	SB21 (12.5-15)	*<0.18 mg/kg*	0.039 mg/L	41 feet	<
	SB27 (5-7.5)	*<0.22 mg/kg*	0.048 mg/L	60 feet	<
	SB28 (0-3)	*<0.17 mg/kg*	0.045 mg/L	53 feet	<
	SB30 (12.5-15)	*<0.39 mg/kg*	0.085 mg/L	121 feet	<
	SB34 (5-7.5)	*<0.19 mg/kg*	0.041 mg/L	46 feet	<
	SB51 (0-3)	*<0.31 mg/kg*	0.081 mg/L	116 feet	<
	SB53 (0-3)	*<0.23 mg/kg*	0.06 mg/L	82 feet	<
	SB54 (0-3)	*<0.23 mg/kg*	0.06 mg/L	82 feet	<
	SB54 (10-12.5)	*<0.23 mg/kg*	0.05 mg/L	64 feet	<
	SB56 (5-7.5)	*<0.21 mg/kg*	0.046 mg/L	55 feet	<
	SB61 (0-3)	*<0.17 mg/kg*	0.045 mg/L	53 feet	<
	SB61 (17.5-19)	*<0.37 mg/kg*	0.08 mg/L	114 feet	<
	SB67 (3-5)	*<0.27 mg/kg*	0.059 mg/L	79 feet	<
Methylene Chloride	SB2 (3-5)	0.35 mg/kg	0.075 mg/L	3 feet	<
	SB30 (12.5-15)	*<0.28 mg/kg*	0.060 mg/L	2 feet	<
	SB51 (0-3)	*<0.23 mg/kg*	0.059 mg/L	1 foot	<
	SB61 (17.5-19)	*<0.27 mg/kg*	0.058 mg/L	1 foot	<
BaA	B-2 (7-9)	16 mg/kg	0.00100 mg/L	42 feet	<
	SS-010 (0-0.5)	13 mg/kg	<	—	—
	SS-012 (0-0.5)	13 mg/kg	<	—	—
	B-2W20 (7-9)	56 mg/kg	0.00350 mg/L	118 feet	<
	SS-010E20	27 mg/kg	<	—	—
	SS-010S20	38 mg/kg	0.00079 mg/L	26 feet	<
	SS-010W20	31 mg/kg	<	—	—
	SS-113 (0-3)	87 mg/kg	0.00181 mg/L	76 feet	<

COC	Concentrations (or Detection Limits) Above Applicable Soil Migration Tier 1 SRO (or Background Concentration)		Equation S18 Predicted Groundwater Concentrations	Distances to Achieve the Tier 1 GROs for Class II Groundwater	Predicted Concentrations in Groundwater at the Nearest Surface Water Body
	SB41 (0-3)	60 mg/kg	0.00125 mg/L	55 feet	<
	SB48 (5-7.5)	19 mg/kg	0.00119 mg/L	52 feet	<
	SB115 (0-3)	28 mg/kg	<	—	—
	SB115 (5-7.5)	39 mg/kg	0.00244 mg/L	94 feet	0.00201 mg/L*
	SB124 (0-3)	31.1 mg/kg	<	—	—
BaP	SS-113	110 mg/kg	<	—	—
BbF	B-2W20 (7-9)	74 mg/kg	0.0018 mg/L	54 feet	<
	SS-010E20	44 mg/kg	<	—	—
	SS-010S20	64 mg/kg	<	—	—
	SS-010W20	50 mg/kg	<	—	—
	SS-113 (0-3)	130 mg/kg	0.0010 mg/L	17 feet	<
	SB41 (0-3)	77 mg/kg	<	—	—
	SB115 (0-3)	27 mg/kg	<	—	—
	SB115 (5-7.5)	34 mg/kg	<	—	—
	SB124 (0-3)	33.2 mg/kg	<	—	—
Carbazole	SB41 (0-3)	12 mg/kg	0.025 mg/L	51 feet	<
	SB48 (5-7.5)	4.8 mg/kg	0.029 mg/L	66 feet	<
	SB87 (0-3)	3.8 mg/kg	<	—	—
	SB115 (5-7.5)	11 mg/kg	0.067 mg/L	172 feet	0.0665 mg/L*
DahA	SS-113 (0-3)	90 mg/kg	<	—	—
	SB41 (0-3)	10 mg/kg	<	—	—
Dieldrin	SB55 (0-3)	0.51 mg/kg	<	—	—
Vanadium (TCLP or SPLP)	SB13 (0-3)	0.12 mg/L	NA	48 feet	<
	SB76 (0-3)	0.12 mg/L	NA	48 feet	<
	SB78 (10-12.5)	0.13 mg/L	NA	55 feet	<
	SB84 (5-7.5)	0.14 mg/L	NA	62 feet	<
	SB90 (0-3)	0.16 mg/L	NA	74 feet	<
	SB92 (3-5)	0.14 mg/L	NA	62 feet	<
	SB94 (0-3)	0.12 mg/L	NA	48 feet	<
	SB98 (7.5-10)	0.17 mg/L	NA	80 feet	<
	SB108 (7.5-10)	0.11 mg/L	NA	39 feet	<

Notes: *[ ]* indicates an elevated detection limit, not a confirmed concentration
< = the predicted groundwater concentration is below the Tier 1 GRO for Class II groundwater or surface water objective
— = not applicable
BaA = benzo(a)anthracene
BaP = benzo(a)pyrene
BbF = benzo(f)fluoranthene
DahA = dibenzo(a,h)anthracene
NA = not applicable (the TCLP or SPLP concentration is used as the theoretical groundwater concentration)
SPLP = synthetic precipitation leaching procedure
TCLP = toxicity characteristic leaching procedure test method
* = the predicted concentration exceeds the surface water objective; however, the groundwater result at the well corresponding to this boring (MW-315) demonstrates compliance with the Tier 1 GRO

As outlined in Spreadsheet 4 (Appendix E) and the preceding table, the maximum predicted theoretical distance for the soil migration to groundwater impacts to meet the Tier 1 GRO for

Class II groundwater is 172 feet, for carbazole at SB115 (5-7.5). The R26 calculations (Spreadsheet 5 in Appendix E) indicate that the predicted groundwater concentrations of benzo(a)anthracene and carbazole associated with this soil sample exceed the surface water quality objectives at the nearest surface water to this sample (the North Vessel Slip). Note, however, that MW-315 was installed at the location of soil boring SB115, and the groundwater result demonstrated that both of these compounds were below the laboratory's standard detection limits in the low-flow resampling event performed on March 17, 2025. As such, Pioneer believes the predicted groundwater concentrations are overly conservative, and the detected soil concentrations do not represent an actual threat to the adjacent surface water.

- *physical and chemical properties of contaminants of concern; and (35 IAC 742.925(d)(3)); and contaminant migration properties (35 IAC 742.925(d)(4));*

2-Hexanone

2-Hexanone is a moderately volatile, water-soluble ketone with a relatively low organic carbon partition coefficient, suggesting it can partition into water under certain conditions. However, it is highly biodegradable and readily volatilizes from soil. No detectable groundwater impacts have been observed at the site despite historical soil concentrations and elevated detection limits, indicating that any mobile fraction of 2-hexanone has long since dissipated.

Methylene Chloride

Methylene chloride is a volatile chlorinated solvent (and common laboratory artifact) with high water solubility and a low organic carbon partition coefficient, which could favor migration. However, it is also highly volatile, subject to rapid biodegradation under aerobic and anaerobic conditions, and degrades relatively quickly in subsurface environments. The absence of groundwater impacts demonstrates that any residual methylene chloride in soil has already volatilized, degraded, or remained immobile in the slag matrix.

Benzo(a)anthracene, Benzo(b)fluoranthene and Dibenzo(a,h)anthracene

These PNAs have very low water solubility and very high organic carbon partition coefficient, which results in a strong affinity for fine particles. Their high hydrophobicity and low solubility limit their mobility in soil and groundwater. They bind strongly to soil and slag particles and are essentially immobile under site conditions. Even when present in soil, these compounds are unlikely to leach into groundwater at dissolved concentrations. The absence of corresponding groundwater impacts at the site aligns with their well-documented immobility in subsurface environments.

Carbazole

Carbazole is a nitrogen-containing heterocyclic aromatic compound with low water solubility and moderate to high organic carbon partition coefficient. Similar to PNAs, it is persistent but largely immobile in soils and unlikely to migrate to groundwater in significant amounts. Its sporadic detection in soil contrasted with its absence or non-detected levels in groundwater confirm this behavior at the site.

Dieldrin

Dieldrin is a persistent organochlorine pesticide with very low water solubility and a high organic carbon partition coefficient, which results in strong adsorption to soils and limited mobility in the subsurface. It is highly hydrophobic and resistant to biodegradation, contributing to its long-term persistence in soils. However, these same properties also make it largely immobile and unlikely to leach into groundwater in appreciable amounts. The absence of dieldrin in groundwater samples at the site is consistent with its strong sorption, low solubility, and well-documented tendency to remain bound to soil and slag particles under typical subsurface conditions.

Cyanide

Cyanide can exist in free or complex forms, with free cyanide being highly soluble and mobile in water. However, at neutral to alkaline pH (as is typical of the site's slag fill), cyanide forms stable, insoluble metal-cyanide complexes that limit its mobility. Historical and recent data demonstrate that cyanide present in soil has not migrated into groundwater at levels exceeding Tier 1 objectives, consistent with its known chemical behavior in alkaline environments.

Mercury

Mercury has low solubility and strongly adsorbs to soil and organic matter, particularly in its inorganic forms. Under reducing and alkaline conditions, mercury can be transformed into stable, immobile forms, such as elemental mercury or mercury sulfide, which are sequestered in soils and sediments. Although mercury methylation can occur under certain conditions, the process is slow and unlikely to result in significant groundwater impacts at this site, given the low leachability and absence of groundwater exceedances. Therefore, the detected mercury is expected to remain stable and immobile under current site conditions.

Vanadium

Vanadium occurs in multiple oxidation states, with vanadium (V) being more soluble than vanadium (III). Its mobility is strongly influenced by pH and redox conditions. Under the alkaline conditions present at the site, and with limited evidence of strongly oxidizing conditions, vanadium is expected to adsorb to iron-rich slag or precipitate as relatively insoluble oxides or hydroxides. These processes limit its solubility and explain the negligible impact on groundwater observed during the cumulative investigation.

These physical and chemical characteristics, combined with up to over 100 years of exposure to infiltration, confirm that the evaluated COCs are immobile or have already dissipated, or are not actually present. Extensive leachability and groundwater testing demonstrating non-detected or compliant concentrations further corroborate these characteristics. Therefore, the properties of these COCs and site-specific conditions at the Remediation Site support the conclusion that the soil component of the groundwater ingestion exposure route is incomplete and will not become active in the future.

2.5.3.2 Groundwater Ingestion — Benzene and Naphthalene [742.925(c)–(d)]

A total of 50 groundwater samples were collected from 37 monitoring wells during the cumulative investigation. As discussed in Section 1.5.3, only two of these monitoring wells exhibited COCs above the applicable Tier 1 GROs for Class II groundwater: MW-202 (benzene and naphthalene) and MW-102D (vinyl chloride; addressed in the following Section 2.5.3.3).

- *A discussion of the result and possibility of the route becoming active in the future (35 IAC 742.925(c)); and Technical support that may include, but is not limited to, the following (35 IAC 742.925(d)).*
    - *a discussion of the natural or man-made barriers to that exposure route (35 IAC 742.925(d)(1));*

As presented in Section 2.5.2 and shown on Figure 17, the proposed slurry wall will encapsulate the groundwater impacts at MW-202. Based on the groundwater modeling conducted for the hybrid slurry wall, groundwater will flow from the encapsulated area to the north through the PRB gates. This, along with the physical and chemical characteristics of the slurry wall inhibiting advective and diffusive flow of the benzene and naphthalene, will mitigate any potential risk to the adjacent surface waters.

The Remediation Site and surrounding properties within at least a 2,500-foot radius are located within the City of Chicago, which maintains an ordinance and MOU that prohibit the use of groundwater for potable purposes. Furthermore, as discussed in Section 1.4.6.3, there are no known potable water supply wells located at the Remediation Site or adjoining properties, and the Remediation Site is not located within the minimum or maximum designated setback zones of any potable wells.

- *calculations and modeling (35 IAC 742.925(d)(2));*

As a conservative measure, Pioneer performed fate and transport modeling calculations—without accounting for the proposed hybrid slurry wall—using RBCA Equation R26 to determine the predicted theoretical migration of benzene and naphthalene in groundwater. The modeling calculations were performed using a spreadsheet prepared by Pioneer (see Spreadsheet 1 in Appendix E). Default and chemical-specific input variables provided in TACO and several site-specific variables were used in the fate and transport modeling equations. The site-specific variables utilized in the calculations and Equation R26 results are summarized in the following tables.

Table 2-9 Site-Specific Variables for Fate & Transport Modeling Calculations

Variable	Value	Source
Source Width Perpendicular to Groundwater Flow Direction in the Horizontal Plane ("Sw")	440 ft	While benzene and naphthalene were not identified above the applicable Tier 1 SROs or GROs except for MW-202, a conservative 440-foot source area was used (see Figure 16).
Hydraulic Conductivity (K)	5.40 x 10^{-3} cm/s	Average of K values from 1995 to 2025
Hydraulic Gradient (i)	0.0019 ft/ft	Based on averaging hydraulic gradients calculated from various transects on Figure 4

Table 2-10 Equation R26 Results for MW-202

COC	Modeled Distance to Achieve the Tier 1 GRO for Class I Groundwater	Modeled Distance to Achieve the Tier 1 GRO for Class II Groundwater
Benzene	128 ft	49 ft
Naphthalene	48 ft	37 ft

As outlined in Spreadsheet 1 (Appendix E) and the preceding table, and as depicted on the attached Figure 16, the R26 modeling calculations demonstrate that the contamination identified in MW-202 is predicted to meet the applicable Tier 1 GROs for Class II groundwater at a maximum distance of 49 feet. Following installation of the hybrid slurry wall, the potential contaminant migration from this location will be contained within the Remediation Site.

Pioneer also utilized equation R26 to predict the extent of contaminant concentrations in groundwater at the nearest surface water body. As outlined in Spreadsheet 2 (Appendix E), the predicted concentrations of benzene and naphthalene are below surface water quality standards at the Calumet River, located approximately 150 feet to the south.

2.5.3.3 Groundwater Ingestion — Vinyl Chloride [742.925(c)–(d)]

- *A discussion of the result and possibility of the route becoming active in the future (35 IAC 742.925(c)); and Technical support that may include, but is not limited to, the following (35 IAC 742.925(d)).*
    - *a discussion of the natural or man-made barriers to that exposure route (35 IAC 742.925(d)(1));*

A total of 265 soil samples and 50 groundwater samples were analyzed for vinyl chloride through the cumulative investigation, and none of the samples exhibited detectable concentrations of vinyl chloride with the exception of groundwater sample MW-102D.

The Remediation Site and surrounding properties within at least a 2,500-foot radius are located within the City of Chicago, which maintains an ordinance and MOU that prohibit the use of groundwater for potable purposes. Furthermore, as discussed in Section 1.4.6.3, there are no known potable water supply wells located at the Remediation Site or adjoining properties, and the

Remediation Site is not located within the minimum or maximum designated setback zones of any potable wells.

- *calculations and modeling (35 IAC 742.925(d)(2));*

Preliminary RBCA R26 modeling indicates that the vinyl chloride concentration at MW-102D does not pose a risk to any existing water supply wells and is not a concern for nearby surface water bodies. Accordingly, this concentration may be managed through an institutional control, specifically Chicago's groundwater use ordinance and the MOU with the Illinois EPA.

However, the Remediation Applicant may elect to remediate this groundwater impact (e.g., through ISCO), or conduct additional testing to further refine the site-specific input parameters in the R26 calculations. Any future testing, remediation, or modeling specific to this detection will be documented under a separate submittal to the Illinois EPA.

2.5.4 Soil Ingestion and Outdoor Inhalation Exposure Routes [742.925(c)–(d)]

The cumulative site investigation activities have identified certain PNAs, metals, and PCBs at concentrations above the Tier 1 SROs for the soil ingestion and/or outdoor inhalation exposure routes for industrial/commercial property and construction workers. The following table provides a summary of the sampling locations where TCL parameters were identified above the Tier 1 SROs for the soil ingestion and/or outdoor inhalation exposure routes.

Table 2-11 Sample Locations Where TCL Parameters Exceed the Applicable Tier 1 SROs for the Soil Ingestion and Outdoor Inhalation Exposure Route

Soil Sample ID	TCL Parameters Detected Above the Applicable Tier 1 SROs for Ingestion/Outdoor Inhalation			
	Industrial/Commercial		Construction Worker	
	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation
CRA Focused Phase II Investigation – 2007				
B-2 (7-9)	BaA, BaP, BbF, IcdP	--	--	--
B-7 (8-10)	--	Cr	Mn	Mn, Hg
B-11 (10-12)	As	Cr	--	Cr
B-19 (8-10)	--	--	--	Hg
B-32 (10-12)	As	--	--	--
SS-008 (0-0.5)	--	--	Mn	--
SS-010 (0-0.5)	BaA, BaP, BbF, DahA, IcdP, Mn, Pb	--	--	--
SS-012 (0-0.5)	BaA, DahA	--	--	--
SS-015 (0-0.5)	--	--	Mn	--
GHD Phase II Investigation – 2017				
B-2W20 (7-9)	BaA, BaP, BbF, BkF, DahA	--	BaP	--
PCB 1E20	PCBs	--	PCBs	--
PCB 1N20	PCBs	--	PCBs	--
PCB 35N20	PCBs	--	PCBs	--
PCB 35S20	PCBs	--	PCBs	--

Soil Sample ID	TCL Parameters Detected Above the Applicable Tier 1 SROs for Ingestion/Outdoor Inhalation			
	Industrial/Commercial		Construction Worker	
	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation
SS-10E20	BaA, BaP, BbF, BkF, DahA, IcdP	--	--	--
SS-10S20	BaA, BaP, BbF, BkF, DahA, IcdP	--	--	--
SS-10W20	BaA, BaP, BbF, BkF, DahA, IcdP	--	--	--
SS-113	BaA, BaP, BbF, BkF, DahA, IcdP	--	BaP, DahA	--
SSPCB-13	PCBs	--	PCBs	--
TTP-18	PCBs	--	PCBs	--
B-7E20	--	Cr	Mn	Cr, Mn
B-7N20	--	Cr	Mn	--
B-7W20	--	Cr	Mn	Cr
Pioneer Phase II Investigation – 2024-2025				
SB1 (5-7.5)	--	--	Mn	--
SB2 (0-3)	--	--	--	Hg
SB3 (0-3)	--	Cr	Mn	Cr, Mn
SB3 (5-7.5)	As, Pb		Pb, Mn	Mn
SB4 (0-3)	Pb	--	Pb	--
SB5 (0-3)	--	--	Mn	--
SB6 (0-3)	As	Cr	Mn	Cr, Mn
SB6 (3-5)	--	--	Mn	--
SB8 (0-3)	--	--	Mn	Mn
SB9 (0-3)	As	--	--	--
SB10 (0-3)	DahA	--	--	--
SB10 (5-7.5)	BaA, BaP, BbF, BkF, DahA, IcdP	--	BaA, BaP, BbF, DahA	Naph
SB11 (0-3)	--	--	Mn	--
SB11 (5-7.5)	--	--	Mn	Mn
SB12 (0-3)	--	--	--	Hg
SB13 (0-3)	--	Cr	Mn	Cr, Mn, Hg
SB13 (5-7.5)	--	--	Pb	Hg
SB14 (0-3)	Pb	--	Pb	Hg
SB15 (0-3)	--	--	--	Hg
SB16 (3-5)	--	--	Mn	--
SB17 (0-3)	--	--	Mn	--
SB18 (0-3)	--	Cr	Mn	Cr, Mn
SB20 (0-3)	--	Cr	Mn	Mn
SB21 (0-3)	--	--	Mn	--
SB23 (5-7.5)	--	--	--	Hg
SB24 (0-3)	--	--	Mn	Hg
SB24 (7.5-10)	Pb	--	Pb	Hg
SB25 (0-3)	--	--	Mn	Hg

Soil Sample ID	TCL Parameters Detected Above the Applicable Tier 1 SROs for Ingestion/Outdoor Inhalation			
	Industrial/Commercial		Construction Worker	
	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation
SB25 (3-5)	DahA, IcdP	--	Mn	Hg
SB26 (0-3)	As, Mn, Th	--	Mn, Th	Hg, Mn
SB26 (7.5-10)	--	--	Mn	Mn
SB28 (0-3)	--	--	Mn	--
SB28 (10-12.5)	--	--	Mn	--
SB29 (0-3)	--	--	Mn	--
SB29 (7.5-10)	--	--	Mn	--
SB30 (0-3)	--	--	Mn	Mn
SB30 (12.5-15)	--	--	Mn	--
SB31 (0-3)	--	Cr	--	Cr
SB32 (5-7.5)	--	--	Mn	Mn
SB33 (0-3)	--	Cr	Mn	Mn
SB33 (5-7.5)	--	Cr	Mn	Mn
SB34 (0-3)	As	Cr	Mn	Mn, Hg
SB34 (5-7.5)	As		Mn	--
SB35 (0-3)	--	Cr	Mn	Cr, Mn, Hg
SB35 (7.5-10)	--	Cr	Mn	Cr, Mn
SB36 (0-3)	As	Cr	Cr, Mn	Cr
SB36 (5-7.5)	As	Cr	Mn	Cr, Hg
SB37 (0-3)	--	--	--	Hg
SB38 (0-3)	--	--	Mn	Mn, Hg
SB39 (0-3)	DahA, PCBs	--	PCBs, Mn	--
SB39 (7.5-10)	PCBs	--	PCBs	--
SB40 (0-3)	--	Cr	Mn	Hg
SB40 (5-7.5)	--	Cr	Mn	Cr, Mn, Hg
SB41 (0-3)	BaA, BaP, BbF, DahA, IcdP, PCBs	--	BaP, Mn, PCBs	Naph
SB41 (5-7.5)	--	Cr	--	--
SB42 (0-3)	As, Pb	--	Sb, Pb	--
SB44 (0-3)	As	--	--	--
SB45 (5-7.5)	--	--	Mn	Mn
SB46 (0-3)	--	Cr	Mn	Naph, Cr, Mn
SB46 (3-5)	As	Cr	Mn	Cr, Mn, Hg
SB47 (0-3)	--	--	Mn	Mn, Hg
SB47 (7.5-10)	--	--	Mn	Hg
SB48 (0-3)	--	--	--	Hg
SB48 (5-7.5)	BaA, BaP, BbF, DahA, IcdP	--	BaP	--
SB49 (0-3)	--	--	Mn	--
SB49 (10-12.5)	--	--	Mn	Mn
SB50 (0-3)	--	--	Mn	Mn

Soil Sample ID	TCL Parameters Detected Above the Applicable Tier 1 SROs for Ingestion/Outdoor Inhalation			
	Industrial/Commercial		Construction Worker	
	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation
SB50 (7.5-10)	--	--	Mn	--
SB51 (0-3)	As, Cr	Cr	Cr, Sb, Mn, Ni	Cr
SB51 (5-7.5)	As	--	Mn	Hg
SB52 (0-3)	--	--	--	Hg
SB52 (7.5-10)	As	--	--	Hg
SB53 (0-3)	--	Cr	Mn	Cr, Hg, Mn
SB54 (0-3)	As	Cr	Mn	Hg, Mn
SB54 (10-12.5)	As	--	Mn	Mn
SB55 (0-3)	Dieldrin, PCBs	--	Mn, PCBs	Mn
SB55 (5-7.5)	As	--	Mn	Hg
SB56 (0-3)	As	--	--	Hg
SB57 (0-3)	--	Cr	Mn	Cr, Mn
SB57 (7.5-10)	*[As]*	--	Mn	--
SB58 (0-3)	--	--	Mn	--
SB59 (0-3)	--	--	--	Hg
SB59 (5-7.5)	--	--	--	Hg
SB60 (0-3)	--	--	Mn	--
SB60 (7.5-10)	--	--	Mn	--
SB61 (0-3)	--	--	Mn	--
SB61 (17.5-19)	--	--	Mn	Naph
SB64 (0-3)	BaP, DahA, IcdP	--	--	--
SB68 (0-3)	--	Cr	Mn	Hg, Mn
SB68 (7.5-10)	--	--	Mn	Cr, Mn, Hg
SB69 (0-3)	--	--	--	Hg
SB69 (3-5)	--	--	--	Hg
SB71 (0-3)	PCBs	--	Mn, PCBs	--
SB76 (0-3)	*[As]*	Cr	Mn	Cr, Mn
SB76 (7.5-10)	--	--	Mn	Mn
SB77 (0-3)	--	--	Mn	Hg
SB77 (5-7.5)	--	--	Mn	--
SB78 (0-3)	*[As]*	Cr	Mn	--
SB78 (10-12.5)	As	--	Mn	Mn
SB79 (0-3)	--	--	Mn	Mn
SB79 (5-7.5)	--	--	Mn	Mn
SB80 (0-3)	PCBs	--	Mn, PCBs	Hg
SB80 (3-5)	--	--	Mn	--
SB81 (0-3)	As	--	Mn	Mn, Hg
SB81 (7.5-10)	--	--	--	Hg
SB82 (0-3)	--	--	Mn	--
SB82 (5-7.5)	--	--	Mn	--

Soil Sample ID	TCL Parameters Detected Above the Applicable Tier 1 SROs for Ingestion/Outdoor Inhalation			
	Industrial/Commercial		Construction Worker	
	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation
SB83 (0-3)	--	--	Mn	Mn, Hg
SB83 (3-5)	--	Cr	Mn	Cr, Mn
SB84 (0-3)	--	--	Mn	Mn
SB84 (5-7.5)	--	--	Mn	Mn
SB85 (10-12.5)	--	--	Mn	Mn
SB86 (0-3)	As	--	Mn	Hg
SB86 (7.5-10)	--	--	Mn	--
SB87 (0-3)	DahA, IcdP	--	Mn	Mn, Hg
SB87 (3-5)	--	--	Mn	--
SB89 (0-3)	Cr	--	Mn	Cr, Mn
SB89 (3-5)	Cr	--	Mn	Cr, Mn
SB90 (0-3)	Cr, Mn	--	Mn	Cr, Mn
SB90 (7.5-10)	Cr	--	Mn	Cr, Mn
SB91 (0-3)	Cr	--	Mn	Cr, Mn, Hg
SB91 (12.5-15)	Cr	--	Mn	Cr, Mn, Hg
SB92 (0-3)	--	--	Mn	Mn
SB92 (3-5)	Cr	--	Cr, Mn	Mn
SB93 (0-3)	--	--	Mn	Naph, Mn
SB93 (5-7.5)	As	--	Mn	Mn
SB94 (0-3)	--	Cr	Mn	Mn, Hg
SB94 (12.5-15)	--	--	Mn	--
SB95 (0-3)	PCBs	--	Mn, PCBs	--
SB95 (5-7.5)	As, PCBs	--	Mn, PCBs	Mn
SB96 (0-3)	--	--	Mn	Mn
SB96 (7.5-10)	--	--	Mn	--
SB97 (0-3)	--	--	Mn	Mn
SB97 (5-7.5)	--	--	Mn	Mn, Hg
SB98 (0-3)	--	--	Mn	--
SB98 (7.5-10)	--	--	Mn	Mn
SB99 (0-3)	--	Cr	Mn	Mn
SB99 (10-12.5)	--	--	Mn	Mn
SB100 (0-3)	--	--	Mn	Mn
SB100 (3-5)	--	--	Mn	Mn
SB101 (0-3)	--	--	Mn	Mn, Hg
SB101 (12.5-15)	--	--	Mn	--
SB102 (0-3)	*[As]*	Cr	Mn	Cr, Mn, Hg
SB102 (7.5-10)	--	--	Mn	--
SB103 (0-3)	--	Cr	Mn	--
SB105 (0-3)	--	--	--	Hg
SB105 (10-12.5)	--	--	Mn	Mn

Soil Sample ID	TCL Parameters Detected Above the Applicable Tier 1 SROs for Ingestion/Outdoor Inhalation			
	Industrial/Commercial		Construction Worker	
	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation
SB106 (0-3)	As, Mn	--	Mn	Mn
SB107 (0-3)	--	--	Mn	Mn
SB107 (7.5-10)	As	--	Mn	Mn
SB108 (0-3)	--	Cr	Mn	Cr, Mn
SB109 (0-3)	As	Cr	Mn	Cr, Mn
SB109 (5-7.5)	--	--	Mn	Mn
SB110 (0-3)	--	Cr	Mn	Cr, Mn
SB110 (5-7.5)	--	--	Mn	--
SB111 (3-5)	--	--	--	Hg
SB115 (0-3)	As, BaA, BaP, BbF, DahA, IcdP	--	BaP, Mn	Naph
SB115 (5-7.5)	BaA, BaP, BbF, DahA, IcdP	--	BaP	Naph
SB116 (0-3)	DahA	Cr	--	Naph
SB117 (0-3)	--	--	Mn	--
SB120 (0-3)	--	--	--	Hg
SB121 (0-3)	--	--	Mn	--
SB122 (0-3)	--	--	Mn	--
SB123 (0-3)	As	--	Mn	Hg
SB124 (0-3)	BaA, BaP, BbF, DahA, IcdP		BaP	--
SB125 (0-3)	As	--	--	--
SB125 (7.5-10)	--	--	Mn	--
SB126 (0-3)	--	--	Mn	Mn
SB126 (5-7.5)	As	--	--	--
SB127 (0-3)	--	--	Mn	Hg
SB128 (0-3)	--	--	Mn	Hg
SB128 (7.5-10)	As	Cr	Mn	Hg
SB129 (0-3)	As, Pb	Cr	Sb, Pb	Cr
SB129 (5-7.5)	--	--	Mn	Mn
SB143 (0-3)	--	Cr	Mn	--
SB143 (15-17.5)	As	--	Mn	Hg
SB144 (0-3)	--	Cr	Mn	Hg
SB145 (0-3)	PCBs	--	PCBs	Hg

Note: -- indicates no parameters were detected above the exposure pathway objectives
[ ] indicates an elevated detection limit, not a confirmed concentration

As = arsenic
BaA = benzo(a)anthracene
BaP = benzo(a)pyrene
BbF = benzo(b)fluoranthene
BkF = benzo(k)fluoranthene
Cr = chromium
DahA = dibenzo(a,h)anthracene
Hg = mercury
IcdP = indeno(1,2,3-cd)pyrene
Mn = manganese
Naph = naphthalene
PCBs = polychlorinated biphenyls
Pb = lead
Sb = antimony
Th = thallium

- *A discussion of the result and possibility of the route becoming active in the future (35 IAC 742.925(c)); and Technical support (35 IAC 742.925(d)).*

Site-wide engineered barriers (surface caps) complying with the requirements of Part 742, Subparts K and I will be installed in order to eliminate the identified exceedances of the industrial/commercial soil ingestion and outdoor inhalation exposure routes. The engineered barriers will consist of a combination of concrete pavement and foundations, asphalt pavement, 36 inches of clean soil, 18 inches of clean soil underlain by a geotextile fabric, and 10 inches of compacted asphalt grindings, and will be maintained in perpetuity to prevent exposure to the underlying contaminated soils.

Note that the only parameter exceeding a Tier 1 SRO for the industrial/commercial outdoor inhalation exposure route is chromium. In relation to inhalation exposure, chromium is a fugitive dust concern, not a vapor concern. Therefore, standard barriers for the soil ingestion exposure route are sufficient to address the outdoor inhalation exposure route at the Remediation Site. Refer to Section 3.4 for an additional discussion on the specific types of engineered barriers proposed for the Remediation Site.

Construction worker notification of the site's contaminant conditions and the necessary safety precautions will be utilized to eliminate the identified exceedances of the construction worker soil ingestion and outdoor inhalation exposure routes. Construction workers will be notified prior to the commencement of any intrusive activities, and the necessary precautions outlined in site-specific health and safety plans will be utilized to prevent worker exposure.

The future NFR Letter(s) will be used as an institutional control in accordance with Part 742, Subpart J to exclude the pathways, and ensure that the engineered barriers are properly maintained and construction workers are notified of contaminant conditions.

2.6 Tier 3 Impractical Remediation (742.920)

Due to site-specific conditions, certain areas of TPH impacts cannot be practicably contained by the proposed slurry wall. Specifically, residual impacts within the structural tie-back zones of the Calumet River and South Vessel Slip bulkheads, as well as within a 10-foot setback from adjacent properties in the southeastern corner of the site, are not practicably accessible for installation of the proposed hybrid slurry wall. This section presents a Tier 3 evaluation in accordance with the requirements of 35 IAC 742.920(a) through (f). This evaluation demonstrates that active remediation of these areas is impractical due to the physical constraints imposed by the retaining wall systems and property boundaries, the highly weathered and immobile nature of the residual hydrocarbons, and the evidence indicating the low risk to groundwater and surface water receptors under existing conditions.

- *The reasons why remediation is impractical (35 IAC 742.920(a));*

<u>Tie-Back Zones</u>

Pioneer has evaluated the feasibility of installing the proposed hybrid slurry wall to address TPH impacts in areas adjacent to the Calumet River and South Vessel Slip, within the structural tie-backs of the bulkheads that retain the subject property landmass at these surface waters. These tie-back zones lie immediately

adjacent to the bulkhead structures dating to the early 1900s. Specifically, the Calumet River wall is reportedly constructed of a 3-foot-thick concrete wall and wood-driven piles, with 40-foot-long subsurface tie-backs extending from the wall; the South Vessel Slip wall is reportedly constructed of steel sheet piling with 40-foot-long subsurface tie-backs extending from the outer sheet piling. The TPH-impacted soils in these areas are located within and below the horizontal and vertical extents of the tie-backs, which are essential to the structural integrity of the river and slip walls. The walls prevent collapse of the riverbank and limit erosion into the Calumet River and South Vessel Slip.

Based on current engineering assessments and available historical construction data, any excavation, trenching, or deep subsurface mixing (e.g., in-situ stabilization/solidification or jet grouting) to remediate the impacted soils would compromise the stability of these retaining structures. Disturbance of soils near or through the tie-backs could result in wall movement or failure, potentially leading to release of TPH to surface waters, loss of near shore site stability, and significant safety and environmental risks to adjacent waterways and workers. Further, aggressive or high-pressure injection techniques pose additional risks of hydraulic blowout, preferential mobilization of residual petroleum, and uncontrolled migration of contaminants into surface waters. The physical obstructions posed by the tie-backs, combined with the proximity to sensitive surface water receptors, render remediation within these areas impractical and potentially environmentally counterproductive.

Equipment Access Limitations

In addition to the structural constraints described above, access limitations further contribute to the impracticality of active remediation in certain areas. Installation of the slurry wall requires a minimum 10-foot setback from adjacent property boundaries near Hotspot 5 and from the tie-back zones. This buffer is necessary to prevent encroachment onto Steelworkers Park to the east, U.S. Army Corps of Engineers operations to the southeast, and to avoid damage to the tie-back systems. Accordingly, intrusive remedial activities—including excavation, trenching, or in-situ treatment—cannot be safely or effectively implemented within this zone. As a result, TPH-impacted soils in these areas cannot be directly remediated without violating property boundaries or compromising adjacent land uses and structural supports.

In-situ Chemical Oxidation (ISCO)

ISCO was evaluated for areas within the tie-back zones and near the property boundary where slurry wall installation is infeasible. However, elevated residual TPH concentrations create a very high oxidant demand, resulting in excessive reagent requirements, and injections could mobilize petroleum constituents toward adjacent surface waters. In addition, the heterogeneous slag fill would limit uniform oxidant distribution. Together, these factors indicate that ISCO is unlikely to achieve remedial goals and represents an impractical, and potentially counterproductive, option for this localized area.

Excavation and Off-Site Disposal

Excavation and off-site disposal was also evaluated for the limited areas near the property boundary where the slurry wall cannot be installed. This option was also determined to be impractical due to the depth of contamination, and the significant structural earth retention that would be required. In addition, dewatering

would be necessary to facilitate excavation, further increasing complexity, risk, and cost. For these reasons, excavation and off-site disposal were not considered a feasible remedial alternative for this localized area.

- *The current extent and modeled migration of contamination (35 IAC 742.920(b));*

As shown on Figures 10B and 10C, the vertical and horizontal extent of TPH contamination in Hotspots 3 and 5 have been defined by soil sample analytical results obtained from borings and test pits in and around these areas. Based on these results and as shown on Figure 19, the residual TPH impacts within the impractical remediation areas are estimated at approximately 260 cubic yards in the Hotspot 3 tie-back zone, and 14,500 cubic yards in the Hotspot 5 tie-back and 10-foot setback zones. The impacts within Hotspot 3 are limited to the smear zone and present at varying depths between 7.5 feet to 17.5 feet BSG. The impacts within Hotspot 5 begin within the smear zone at 10 feet BSG, but also extend into the saturated zone and potentially to maximum depths of 35 feet BSG in limited portions of this hotspot; although significant variability was observed and vertical delineation was confirmed in one location within the tie-back zone at 22.5 feet BSG.

The only on-site monitoring well exhibiting petroleum-based contaminants in groundwater during the cumulative investigation activities was MW-202 in Hotspot 5, where benzene and naphthalene were detected at concentrations above the applicable Tier 1 GROs. However, MW-202 is located approximately 150 feet from the Calumet River and approximately 107 feet from the tie-back zone, and will be contained within the proposed slurry wall. The more representative monitoring well for the Hotspot 5 tie-back zone is MW-318, which is located approximately 70 feet from the Calumet River and 27 feet from the tie-back zone, at the approximate midpoint of the hotspot along the river. The groundwater sample collected from this well did not identify any petroleum-based contaminants at concentrations above the most stringent Tier 1 GROs, and the majority of target analytes were not detected.

- *Geology, including soil types and parameters (35 IAC 742.920(c));*

The site geology is discussed in Section 1.4.5.

- *The potential impact to groundwater (35 IAC 742.920(d));*

Groundwater conditions at the Remediation Site have been extensively characterized through the cumulative investigation activities. While residual TPH contamination remains in the smear zone (and in the saturated zone at Hotspot 5), the available data indicate its impact to groundwater is limited, stable, and does not pose a significant ongoing threat to off-site migration or surface water receptors.

As mentioned previously, the only on-site monitoring well to exhibit petroleum-based contaminants in groundwater above the applicable Tier 1 GROs was MW-202, located approximately 150 feet from the Calumet River and 107 feet from the tie-back zone. The area of this well will be contained by the proposed slurry wall. In contrast, MW-318—located approximately 70 feet from the Calumet River and 27 feet from the tie-back zone, at the approximate midpoint of Hotspot 5 along the river—did not exhibit any petroleum-based contaminants in groundwater above the Tier 1 GROs for the groundwater component of groundwater ingestion, and most target analytes were below detection limits. Additionally, MW-317, located immediately adjacent to Hotspot 5 and approximately 80 feet from the east adjacent property, both downgradient and crossgradient of Hotspot 5, did not exhibit any petroleum-based contaminants above the most stringent Tier

1 GROs. Multiple groundwater sampling events documented herein provide evidence that any dissolved-phase hydrocarbons within the tie-back and 10-foot setback zones have stabilized at concentrations below the most stringent objectives.

The residual TPH contamination in these areas is highly weathered, viscous, recalcitrant, and effectively immobile. Cumulative analytical results—along with the absence of free product and sheens on adjacent surface waters—indicate that hydrocarbons remain trapped within pore spaces at residual saturation and strongly adsorbed to soil particles, making appreciable migration or leaching into groundwater unlikely under existing conditions. Although the site soils exhibit moderate permeability, localized low-permeability zones and the viscous, strongly sorbed nature of the hydrocarbons significantly limit their ability to move. Additionally, the depletion of more mobile fractions through weathering and biodegradation, minimal hydraulic gradients, and the presence of the river and vessel slip walls further constrain potential lateral migration toward surface waters.

The proposed remedial approach—installing a continuous, hybrid slurry wall to enclose the majority of the impacted soils outside the tie-back and property line setback zones—will mitigate potential groundwater migration from the enclosed area. This design will hydraulically isolate the contained soils, minimize horizontal flow, and protect surface water bodies by maintaining internal head control and preventing outward gradients from the enclosed area. While the residual impacts within the tie-back zones will not be encompassed by the slurry wall due to structural constraints, their potential to impact groundwater and surface water remains minimal for the reasons described herein.

Additionally, there are no known potable water supply wells located at the Remediation Site or adjoining properties, and the Remediation Site is not located within the minimum or maximum designated setback zones of any potable wells. Chicago also maintains a groundwater ordinance and MOU with the Illinois EPA prohibiting the use of groundwater for potable purposes, and the eventual comprehensive NFR Letter will serve as an institutional control to prohibit the use of groundwater beneath the Remediation Site.

- *Results and locations of sampling events (35 IAC 742.920(e));*

The cumulative sampling plan and a summary of impacted locations are provided in Sections 1.3 and 1.5, while the attached Table Nos. 1 through 17 provide a summary of the analytical results associated with Pioneer's 2024-2025 investigation. The analytical results associated with the 2007 CRA and 2017 GHD investigations can be found in respective documentation provided under separate cover. Refer to the attached Figure 2 for a depiction of the cumulative sample locations, and Figure 9 for the TPH delineation sample locations.

- *Map of the area, including all utilities and structures (35 IAC 742.920(f));*

Figure 19 depicts the areas of TPH impacts included within this Tier 3 evaluation. Historical schematics of the river and vessel slip wall systems, and current and historical photos are provided in Appendix F.

- *Present and post-remediation uses of the area of contamination, including human receptors at risk (Section 742.920(g));*

The areas of the tie-back and 10-foot property line setback zones exhibiting TPH contamination are currently vacant. The proposed plans for these areas following development of the IQMP will consist of unused vegetated land and/or park space. As previously noted, if park space is the intended use, an amended report will be submitted to compare results to residential standards for these areas, but it is not anticipated that the proposed remedial strategy will be appreciably different from that proposed herein.

2.7 Summary

Investigations conducted by CRA, GHD, and Pioneer between 2007 and 2025 identified elevated concentrations of certain metals in soil, along with isolated and limited detections of a VOC, certain SVOCs, pesticides, and PCBs exceeding Tier 1 SROs. Groundwater results showed vinyl chloride, benzene, and naphthalene (VOCs) above Tier 1 GROs in only two monitoring wells. Additional impacts include a single soil sample with PNAs and extensive TPH exceedances of the default SAC, delineated into five hotspots. The cumulative impacts are attributable to the presence of slag fill, historical site operations, and demolition activities. The proposed remedial approach combines conventional remediation, installation of a hybrid slurry wall to prevent migration of petroleum impacts to the adjacent surface waters, the demonstration of impractical remediation in certain limited areas, and the use of engineered, institutional, and preventative controls to exclude all exposure routes under a Tier 3 evaluation in accordance with 35 IAC 742.925.

The cumulative investigation results and Part 742 regulatory framework clearly support bypassing the default assumptions and requirements of Subpart C in favor of a Tier 3 exposure route evaluation, as explicitly permitted under 35 IAC 742.300(c). This provision was designed to accommodate sites—like the former South Works property—with unique historical, physical, and contaminant conditions that cannot be effectively or meaningfully addressed using default assumptions.

While TPH concentrations in soil exceed the default SAC, the cumulative evidence demonstrates that the residual hydrocarbons are highly weathered, viscous, and immobile. The absence of free product, lack of surface water sheens, and stable groundwater quality indicate that the hydrocarbons do not pose a significant risk of leaching or migration under current conditions. The Tier 3 approach enables a remedy that reflects actual site conditions, protects human health and the environment, and avoids unnecessary and impractical measures that would otherwise further prevent brownfield redevelopment.

The proposed remedy not only addresses current site conditions, but also significantly improves upon the limited protections afforded by the existing NFR Letters. The engineered barriers and institutional controls explicitly mitigate pathways that were not addressed in earlier closures, particularly the potential for long-term migration to adjacent surface waters. The soil ingestion and outdoor inhalation pathways will be addressed with a surface cap of engineered barriers designed and maintained to inhibit exposure of the underlying impacted soils. Construction worker exposure will be managed through notification requirements and site-specific health and safety plans. The groundwater ingestion pathway will be addressed through the City of Chicago's groundwater ordinance and MOU, and a comprehensive NFR Letter prohibiting groundwater use. Potential residual petroleum migration toward surface waters will be further controlled by the hybrid slurry

wall, in addition to existing subsurface infrastructure, hot-poured slag, and river and vessel slip bulkheads. Collectively, these measures will ensure that all potential pathways are addressed or rendered incomplete, meeting the substantive requirements of Part 742 while greatly exceeding the protections of the existing NFR Letters. Although Subpart C is bypassed, the closure approach is consistent with those frequently utilized for impacted sites in the Chicago area, where contamination is effectively managed in-place through engineered, institutional, and preventative controls.

This remedial approach also explicitly accounts for the safety and comfort of the surrounding community. Unlike more disruptive alternatives—such as full-scale excavation, in-situ stabilization, or aggressive injection—the proposed containment strategy minimizes noise, dust, emissions, odors, truck traffic, and other nuisances that would otherwise impact nearby residents and businesses. It avoids destabilizing the bulkhead structures, protects sensitive surface water bodies, and maintains site stability during and after implementation. Consistent with the U.S. EPA's Greener Cleanups framework, the selected remedy minimizes the environmental footprint of remediation activities by conserving resources, reducing greenhouse gas emissions, and limiting impacts to land, water, and ecosystems, while still achieving protective outcomes.

Importantly, the remedy fully satisfies the critical remedial goals established for the site: (1) protect human health and the environment; (2) address legitimate concerns of the community; address the (3) time, (4) cost, and (5) constructibility components of redevelopment; and (6) redevelop the site and restore economic viability of the surrounding community. The combination of the hybrid slurry wall, surface caps, and institutional controls ensures a protective, feasible, and sustainable remedy, while making the site significantly safer, more stable, and more compatible with redevelopment than under existing conditions.

3.0 REMEDIAL ACTION PLAN

3.1 Introduction

This Remedial Action Plan (RAP) has been prepared to describe the proposed remedial activity and the engineered, preventative, and institutional controls that will apply to the Remediation Site. The following table outlines the TCL parameters that exceed the applicable remediation objectives.

Table 3-1 Proposed Approach for Addressing Identified Exceedances

TCL Parameters	Applicable Tier 1 Exposure Routes							Default Soil Attenuation Capacity
	Soil Ingestion		Outdoor Inhalation		Indoor Inhalation	Class II Groundwater Ingestion		
	Industrial/ Commercial	Construction Worker	Industrial/ Commercial	Construction Worker	Industrial/ Commercial	Soil Component	Groundwater Component	
VOCs	--	--	--	--	--	--	GWO	--
SVOCs (excluding PNAs)	--	--	--	--	--	--	--	--
PNAs	EB	CWC	--	CWC	--	--	--	Remediation
Pesticides	EB	--	--	--	--	--	--	--
PCBs	EB	CWC	--	--	--	--	--	--
Inorganics	EB	CWC	EB	CWC	--	--	--	--
TPH	NA	NA	NA	NA	NA	NA	NA	Remediation / Containment

Notes: -- indicates the Tier 1 exposure route objectives were not exceeded
CWC = exclusion of the exposure route using a Construction Worker Caution
EB = exclusion of the exposure route using an Engineered Barrier
GWO = exclusion of the exposure route using a local GroundWater Ordinance that prohibits the use of groundwater

The TCL parameters identified at the Remediation Site shall be eliminated from consideration through the exclusion of the affected exposure routes as discussed in the Remediation Objective Report and detailed further in this Remedial Action Plan.

3.2 Current & Post-Remediation Land Uses

The Remediation Site is currently vacant industrial property and will be redeveloped for industrial/commercial use, specifically as a technology corridor known as Quantum Shore Chicago. The first development phase, the Illinois Quantum and Microelectronics Park (IQMP), is a proposed 128-acre quantum computing technology campus located on the southern portion of the Remediation Site. Therefore, the objectives for industrial/commercial property are deemed applicable to the Remediation Site. The current redevelopment plan is provided in Appendix A.

Due to the size of the site, certain areas may be redeveloped with land uses that would be considered residential (e.g., public trails, parks, medical facilities, etc.), and in those cases, an amended report(s) comparing results to residential standards will be issued once those property use(s) and area(s) are defined. However and based on the testing results, it is not anticipated that the residential comparison will result in an appreciably different or more conservative approach to closure.

3.3 Remedial Technology Selection

The COCs identified at the Remediation Site can be eliminated from further consideration by performing conventional remediation of the PNA and TPH impacts of the SAC in Hotspots 1 and 2, containment of the TPH impacts of the SAC in Hotspots 3, 4, and 5, and through exclusion of the exposure routes in accordance with the Tier 3 evaluation presented in Section 2.5 of this report.

3.3.1 Conventional Remediation — Hotspots 1 and 2

Conventional remediation will be implemented to address exceedances of the SAC in Hotspots 1 and 2. Specifically, total PNA concentrations in soil sample SB10 (5-7.5), and TPH concentrations in SB141 (5-7.5) and SB141a (7.5-10) exceed the SAC. The lateral extents of these impacts have been delineated from soil samples collected from adjacent soil borings SB10b through SB10e (Hotspot 1), and SB140, SB141b, SB141c, and SB142 (Hotspot 2). Vertical delineation has also been established from deeper soil samples collected from borings SB10(a) (Hotspot 1), and SB141 plus delineation boring 141a (Hotspot 2). Refer to Figure 3 for the locations of Hotspots 1 and 2, Figure 10A for a Hotspot 2 detail, and Figures 11A and 11B for Hotspot 2 cross sections.

The following table summarizes the estimated quantities of soil to be excavated, along with corresponding confirmation sample requirements.

Table 3-2 Conventional Remediation Summary

Hotspot	Estimated Dimensions (ft)	Estimated Area (ft^2)	Estimated Depth (ft)	Estimated In-Situ Volume (yd^3)	Estimated Ex-Situ Mass (tons)	Confirmation Sampling Analysis	Cleanup Objective
1	30 x 30	900	5-7.5	80	130	PNAs	<2,000 mg/kg
2	134 x 225	30,150	5-10 (variable)	3,000	5,000	TPH	<2,000 mg/kg

The remedial approach will involve removing the overburden soils with an excavator, which will be temporarily stockpiled for reuse as backfill. Impacted soils will be excavated, loaded, and transported off-site for disposal at a permitted Subtitle D landfill. Waste characterization sampling will be conducted prior to excavation, if required by the landfill. Analytical results from the waste characterization and/or existing analytical data will be submitted to the landfill for the approval of a non-hazardous, non-special waste disposal profile.

The remedial activities will be conducted under the supervision of OSHA-trained personnel, who will screen excavation conditions for visual, olfactory, and volatile indicators of contamination (using a PID). Standard industry practices and proper waste manifesting protocols will be followed. Temporary fencing will be installed to secure the perimeter of excavation areas during remediation.

Although the hotspot boundaries have been delineated by prior sampling, final excavation limits will be determined based on real-time field observations and post-excavation confirmation sampling. Confirmation samples will be collected from the base and sidewalls of each excavation at a frequency of one sample per 20 linear feet. Sidewall samples will be obtained from the midpoint of the observed or expected contaminated interval, or at a depth deemed most representative of potential residual impacts based on field screening and judgement of the field geologist.

Confirmation samples will be submitted for laboratory analysis of PNAs (Hotspot 1) or TPH (Hotspot 2). Once analytical results confirm that residual concentrations are below the SAC, the excavations will be backfilled to grade using the stockpiled overburden and, as needed, imported virgin quarry stone.

3.3.2 Hybrid Slurry Wall

To prevent the potential petroleum migration toward adjacent surface waters, a hybrid slurry wall system will be installed around the TPH-impacted areas of Hotspots 3, 4, and 5. The hybrid wall will include a low-permeability soil-bentonite slurry wall with strategically placed permeable reactive barrier (PRB) gates.

This hybrid containment approach combines the physical barrier function of a slurry cutoff wall with the controlled discharge and treatment capabilities of a PRB. This design prevents lateral migration of petroleum impacts, maintains hydraulic balance to avoid groundwater mounding, and ensures that any potential dissolved-phase petroleum constituents in groundwater are treated through adsorption and biodegradation prior to discharge through the PRB gates.

The proposed hybrid slurry wall alignment is shown on Figure 17, with a cross section provided on Figure 20, and will be constructed in accordance with the details provided in Section 2.5.2.

3.4 Engineered Barriers

Engineered barriers are required to address the presence of certain PNAs, metals, and pesticides at concentrations impacting the industrial/commercial soil ingestion and outdoor inhalation (chromium only) pathways. As a conservative measure, site-wide engineered barriers will be installed and maintained to cap existing soils, and will consist of a combination of the following conventional and alternative barriers:

- hardscapes (concrete and asphalt pavement, concrete building foundations);
- 3 feet of clean soil or certified virgin stone;
- 18 inches of clean soil or certified virgin stone underlain by a geotextile fabric; and
- 10 inches of compacted asphalt grindings.

In connection with the import of clean soil to be used as engineered barriers, Pioneer proposes the following methodology to demonstrate that imported soils meet applicable Illinois EPA requirements.

- The source location(s) for the proposed clean soil will be investigated to determine whether the source property is listed on any State or Federal environmental databases.
- One sample from each source location will be analyzed for the TCL parameters to confirm that the imported soil meets the applicable Tier 1 SROs at a rate of one TCL sample per 500 cubic yards of imported soil. Alternatively, if stone is used, documentation from the quarry of origin certifying the material as virgin will be obtained prior to being imported to the site.

- Additionally, based on the proposed redevelopment grading plans, a substantial quantity of soil will need to be imported to the site for use as structural fill. Given the anticipated volumes and the fact that these soils will be placed beneath an engineered barrier, it is proposed that imported soils used as structural fill be sampled at a rate of one TCL sample per 2,500 cubic yards to confirm compliance with applicable Tier 1 SROs.

The proposed geotextile for this project is Mirafi 140N (or equivalent); the manufacturer's specification sheet and a sample of the geotextile are provided in Appendix G. Considering that landscaped areas at the site will be professionally managed for the foreseeable future and given the robust characteristics, Pioneer believes the proposed alternative engineered barriers will be equally as capable as 3 feet of clean fill to prevent exposure via the soil ingestion pathway, and are therefore acceptable under 35 IAC 742.1105(d).

Upon installation of all required engineered barriers, the soil ingestion and outdoor inhalation exposure routes for industrial/commercial property will be effectively eliminated at the Remediation Site.

3.5 Preventive Controls

As required by 35 IAC 742.1100(d), if intrusive construction work is performed at the Remediation Site, construction workers will be notified of site conditions in advance of performing intrusive activities. Specifically, construction workers will be provided with a Hazard Communication Program or site-specific safety plan that outlines the COCs known to be present above the applicable objectives for the construction worker soil ingestion and outdoor inhalation exposure routes.

3.6 Institutional Controls

1) In accordance with 35 IAC 742.310(d), 742.315(d), and 742.1005, the NFR Letter(s) to be issued for the Remediation Site will be recorded as a permanent part of the chain of title for the site and shall serve as the appropriate institutional control regarding maintenance of engineered barriers and construction worker precautions.

2) The NFR Letter(s) shall also serve as an institutional control for allowable land use and to ensure that any future buildings constructed on the site must contain full concrete slab-on-grade floors or full concrete basement walls and floors with no sumps.

3) The City of Chicago ordinance (#097990) and Memorandum of Understanding (MOU) with the Illinois EPA will be used as an institutional control in accordance with 35 IAC 742.1015 for prohibition of the use of groundwater beneath the site. A copy of the ordinance will be recorded with the NFR Letter.

   As required by 742.1015(b), a request for approval of a local ordinance as an institutional control shall provide the following:

   - *A copy of the ordinance restricting groundwater use (Section 742.1015(b)(1));*

     The City of Chicago groundwater use ordinance is provided in Appendix G.

- *A scaled map(s) delineating the area and extent of groundwater contamination modeled above the applicable remediation objectives (Section 742.1015(b)(2));*

  Figure 16 is a scaled map showing the modeled extent of groundwater impacts in MW-202.

- *A scaled map delineating the boundaries of all properties under which groundwater is located which exceeds the applicable groundwater remediation objectives (Section 742.1015(b)(3));*

  Figure 16 is a scaled map showing the modeled extent of groundwater impacts identified in MW-202. Regarding the sole groundwater impact (vinyl chloride at MW-102D) not addressed through the hybrid slurry wall, the Remediation Applicant may elect to remediate this location or further refine site-specific parameters in the R26 calculations. Any future testing, remediation, or modeling specific to this impact will be documented under a separate submittal to the Illinois EPA.

- *Information identifying the current owner(s) of each property identified in subsection (b)(3) of this Section (Section 742.1015(b)(4)); and*

  If subsequent RBCA R26 modeling indicates a potential for off-site migration, applicable property owners will be identified under a separate submittal to the Illinois EPA.

3.7 Soil Management Zone

The site grading plan is being developed to minimize the environmental impact associated with transporting and disposing of contaminated soils generated during redevelopment. Soils impacted by TPH above the SAC will not be reused on-site and may be disposed of at a permitted Subtitle D landfill in accordance with applicable regulations. All other impacted construction spoils will either be disposed of off-site or reused on their respective parcels beneath an engineered barrier, as appropriate. The reuse of impacted materials in this manner will not alter the overall closure strategy for the Remediation Site, nor will it introduce any new or unacceptable risks to human health or the environment.

Pursuant to Section 740.535, an SMZ may be established in order to allow for the placement of contaminated soils for structural fill and/or the consolidation of contaminated soils within a Remediation Site without violating the solid waste disposal regulations of 35 IAC Part 807 and Parts 811 through 815. In general, the SMZs are proposed for the Remediation Site in order to allow for the on-site reuse of the impacted materials that will be excavated for the planned improvements and subsurface utilities.

The 440-acre subject property will be redeveloped in multiple phases. Each development phase will be treated as a separate Remediation Site for purposes of obtaining corresponding NFR Letters. Consistent with this approach, each Remediation Site will also function as a discrete SMZ. Accordingly, impacted construction spoils generated within a given development phase will only be reused within that same Remediation Site/SMZ. This approach not only minimizes the quantity of material requiring off-site disposal and supports environmentally responsible redevelopment, but also ensures that reused construction spoils are promptly encapsulated beneath engineered barriers. As a result, if subsequent phases of redevelopment are delayed, previously reused spoils will not remain exposed or unaddressed pending future construction.

In order to formally establish an SMZ at a site, certain criteria must be satisfied, as described below.

- *All contaminants of concern within the remediation site shall be identified by a comprehensive site investigation under Section 740.420 [740.535(b)(1)];*

A comprehensive site investigation has been completed at the Remediation Site.

- *The horizontal and vertical dimensions of the soil management zone shall be defined [740.535(b)(2)];*

The horizontal extent of each SMZ will encompass the corresponding Remediation Site/development phase and will be limited in depth to 10 feet BSG.

- *The uses of the soil management zone shall be defined [740.535(b)(3)];*

As allowed under 740.535(a)(2)(A), the SMZs will be established in order to reuse contaminated soils as structural and non-structural fill to the extent practicable during site redevelopment.

- *All contaminants of concern within the soil management zone shall satisfy the requirements of 35 IAC 742.305(a) through (f) [740.535(b)(4)];*

Since the SMZ(s) will not extend into the TPH-impacted soils of Hotspots 3, 4 and 5, and following removal of the PNA and TPH impacts in Hotspots 1 and 2, the requirements of Part 742 Subpart C will be bypassed but effectively addressed through the Tier 3 evaluation per 742.925, documented herein.

- *All applicable requirements of 35 IAC 742 shall be satisfied within the soil management zone (e.g., all exposure routes must be addressed; institutional controls and engineered barriers shall be in full compliance with 35 IAC 742, Subparts J and K) [740.535(b)(5)];*

Based on the cumulative analytical testing results, certain TCL parameters were identified above the Tier 1 objectives for the soil ingestion and outdoor inhalation exposure routes for industrial/commercial property and construction workers, and the groundwater component of Class II groundwater. As discussed in this report, following remediation and installation of the engineered barriers (i.e., hybrid slurry wall and surface caps), the soil ingestion and outdoor inhalation exposure routes for industrial/commercial property will be effectively eliminated. The final recorded NFR Letter will include certain restrictive covenants to serve as the appropriate institutional control for the maintenance of engineered barriers, implementation of construction worker precautions, and reliance upon the City of Chicago groundwater ordinance to prohibit the use of groundwater beneath the site. Therefore, this requirement will be satisfied.

- *The soil management zone shall be constructed, operated and maintained in a manner that prevents odors from occurring [740.535(b)(6)(A)];*

Standard construction and engineering practices will be utilized to prevent odors from emanating from the SMZs. The SMZs will be capped with engineered barriers during redevelopment activities, which will prevent any residual odors from escaping into the air. Therefore, this requirement will be satisfied.

- *The soil management zone shall be constructed, operated and maintained in a manner that minimizes fugitive emissions of particulate matter in accordance with 35 IAC 212, Subpart K and dust generation [740.535(b)(6)(B)];*

In accordance with 35 IAC 212, fugitive particle emissions and dust generation will be controlled at the site during the construction of the SMZs through the surficial application of water on an as-needed basis, and the SMZs will be capped with asphalt, concrete, other approved alternative engineered barriers. In addition, any active construction zones will be fenced with windscreens, and stockpiled soils will be covered/stabilized in order to prevent the generation of dust and/or fugitive particle emissions. Therefore, this requirement will be satisfied.

- *The soil management zone shall be constructed, operated and maintained in a manner that prevents the generation of potentially contaminated runoff [740.535(b)(6)(C)];*

Standard construction and engineering practices (e.g. erosion control) will be utilized to prevent potentially contaminated runoff during the redevelopment activities. After redevelopment, SMZs will be capped with asphalt, concrete, or other approved alternative engineered barriers.

- *The soil management zone shall be constructed, operated and maintained in a manner that does not provide a breeding place or food source for vectors [740.535(b)(6)(D)];*

There is no reason to believe that the construction of the proposed improvements or the maintenance of the SMZs would provide a breeding place or food source for vectors.

- *Within the soil management zone, management of soil containing hazardous wastes shall comply with the applicable requirements of the Resource Conservation and Recovery Act (42 USCA 6901-6992k) and 35 IAC 700 through 730 [740.535(b)(7)];*

The cumulative investigation and existing NFR Letters have demonstrated that there is no evidence of soils at the Remediation Site containing hazardous waste.

- *Soil containing contaminants of concern above the concentrations in 35 IAC 742, Appendix B, Table A (Tier 1 objectives for residential properties) or approved by the Agency pursuant to 35 IAC 742.510(c) may not be treated or placed in any area where all contaminants of concern within the remediation site are at or below the concentrations in 35 IAC 742, Appendix B, Table A (Tier 1 objectives for residential properties) or approved by the Agency pursuant to 35 IAC 742.510(c) [740.535(b)(8)];*

Surface cap engineered barriers are being proposed for the entire Remediation Site. Therefore, soils may be reused anywhere within respective Remediation Sites/SMZs in accordance with this section.

- *The three-dimensional boundaries of the soil management zone shall be as defined in the approved Remedial Action Plan…the soil management zone may not extend beyond the boundaries of the remediation site [740.535(c)];*

The SMZs shall be located entirely within the boundaries of future, respective Remediation Sites. The boundaries of future Remediation Sites within the current 440-acre Remediation Site/subject property will be

clarified in separate submittals to the Illinois EPA. The depth of all SMZs shall be limited to 10 feet BSG unless otherwise proposed.

3.8 Post-Remedial Monitoring

Post-remedial groundwater monitoring will verify that the hybrid slurry wall is effectively containing petroleum-impacted groundwater, preventing excessive groundwater mounding, and is not deteriorating, as described in Section 2.5.2.3. The program is designed to identify potential issues early and confirm long-term performance. Monitoring and visual inspections will be conducted quarterly for the first year to determine baseline conditions and capture seasonal and hydraulic variations, then biannually for the following nine years, and annually for an additional 20 years. Limited real-time monitoring during the first 10 years will also assess groundwater levels during transient rain events to ensure they remain within acceptable limits.

Monitoring parameters will include BTEX and naphthalene, along with field measurements including groundwater elevations, pH, temperature, dissolved oxygen, oxidation-reduction potential, and specific conductance. Data will be evaluated for both contaminant trends and hydraulic stability. If impacts or unacceptable hydraulic conditions are identified, confirmation sampling will be performed, and the monitoring procedures may be adjusted in accordance with the proposed plan, and in consultation with the Illinois EPA, if necessary. Corrective measures may include additional investigation, reactive media rejuvenation, pumping to relieve hydraulic pressure, or modifications to the site's stormwater infiltration plan.

3.9 Other Conditions

As noted in Section 1.5.2, soil sample SB55 (0-3) exhibited a PCB concentration greater than 10 mg/kg, but less than 50 mg/kg. To comply with U.S. EPA requirements for PCBs, this impact will be addressed under the self-implementing cleanup provisions of 40 CFR 761.61(a). The Illinois EPA will be copied on future submittals to the U.S. EPA.

Soil or groundwater removed from known impacted areas must be managed in accordance with applicable regulations. This typically requires the material to be returned to its original location or to be managed in accordance with applicable solid waste regulations.

3.10 Conclusions

Based on the cumulative investigation results, the nature and extent of contamination has been adequately characterized at the Remediation Site. Following completion of the remedial activities proposed herein, Pioneer believes the exposure route elimination for the residual contamination will allow for the issuance of a comprehensive NFR Letter(s) pursuant to 35 IAC 740.605 and 415 ILCS 5/58.10 of the Illinois Environmental Protection Act. The eventual NFR Letter(s) are expected to contain the following conditions:

- The Remediation Site may be used for industrial/commercial purposes.

- The hybrid slurry wall must remain in-place around residual petroleum contamination to prevent potential migration to surface waters, with post-remedial monitoring conducted in accordance with the 30-year plan.
- The surface cap engineered barriers must remain in-place to prevent exposure to underlying contaminated soils.
- The groundwater ingestion pathway will be eliminated using the City of Chicago ordinance. The City of Chicago shall be notified of the use of the local ordinance #097990 (and the associated MOU with the Illinois EPA) as an institutional control.
- Construction workers will be notified of site conditions prior to performing intrusive work at the Remediation Site.
- Any on-site structures shall be constructed with full concrete slab-on-grade foundations or contain basements with full concrete floors and walls with no sumps.
- The NFR Letter(s) shall be recorded as a permanent part of the chain of title for the Remediation Site and serve as an appropriate institutional control.

4.0 CLOSING REMARKS

This report has been prepared for the use of the Client and Remediation Applicant identified in the report, and for evaluation by the Illinois Environmental Protection Agency, and cannot be relied upon by other persons or entities without the permission of Pioneer Engineering & Environmental Services, LLC (Pioneer). The observations and conclusions contained herein are limited by the scope and intent of the work mutually agreed upon by the Client and Pioneer and the work actually performed. There are no warranties, implied or expressed, concerning the environmental integrity of areas and/or mediums not analytically tested.

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Figure 11D TPH (Hotspot 3) Cross Section D-D'
Figure 11E (1 of 2) TPH (Hotspot 4) Cross Section E-E'
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Figure 18 Post-Remedial Monitoring Well Locations
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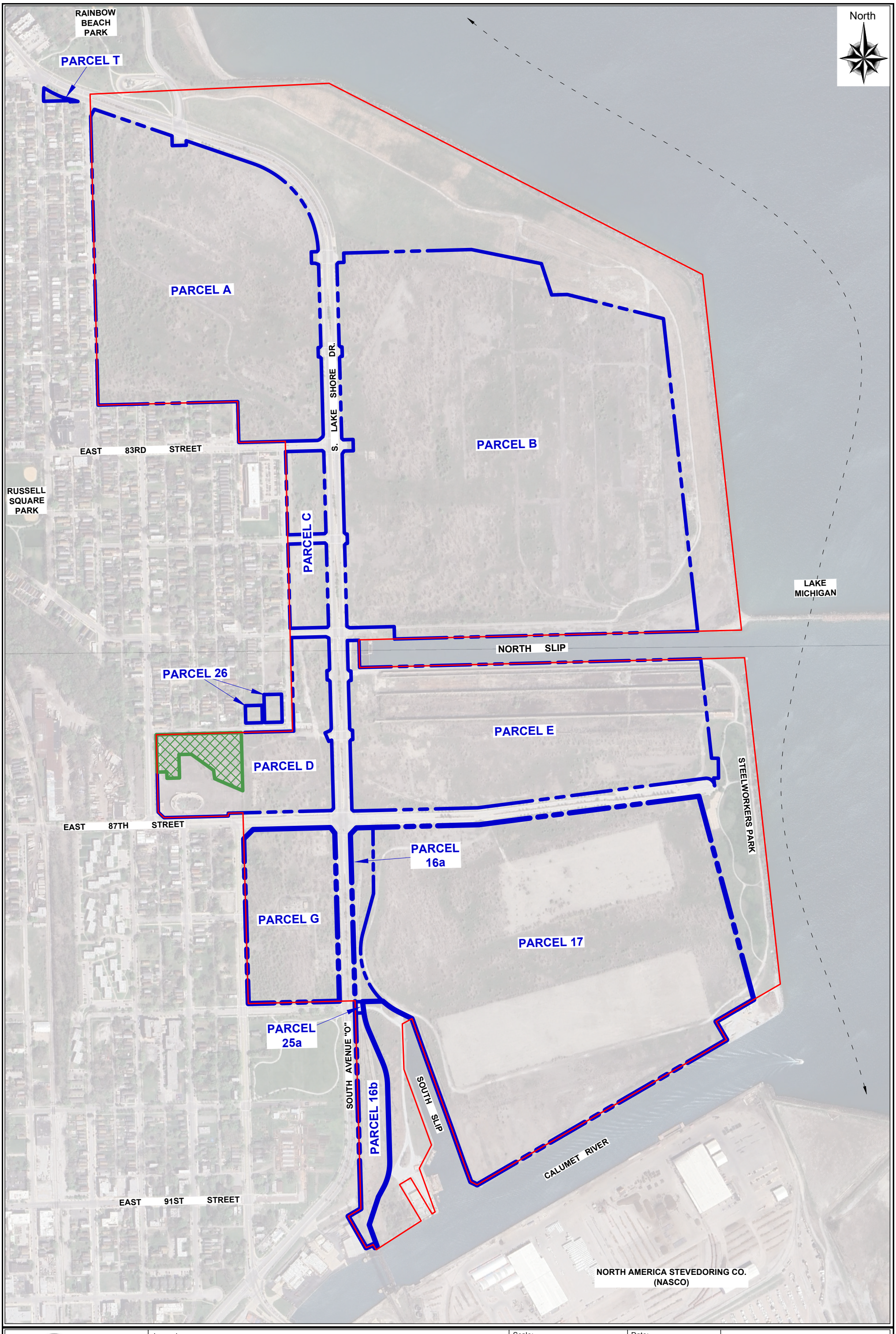


PIONEER
Engineering & Environmental Services, LLC

Legend:
- Approximate Property Line
- Original Remediation Site (1997 NFR Letter)
- Parcel 22 Remediation Site (2010 NFR Letter)

Scale: 1" = 600' (0' – 600')	Date: July 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 1
Site Diagram
8080 South Lake Shore Drive
Chicago, IL

North

INSET

2008 LEAD REMEDIATION AREAS (LS102, LS104, LS105)

2008 LEAD REMEDIATION AREAS (LS329, LS330)

2008 LEAD REMEDIATION AREAS (LS530)

2008 LEAD REMEDIATION AREAS (LS501+LS503)

EAST 83RD STREET

EAST 87TH STREET

EAST 91ST STREET

SOUTH SHORE DRIVE

SOUTH "O" AVENUE

NORTH SLIP

SOUTH SLIP

LAKE MICHIGAN

CALUMET RIVER

SEE INSET

Legend:

Approximate Property Line

Former Parcel 22 Remediation Site

GSG Soil Gas Investigation (2025):

Soil Gas Sample Location

Pioneer Investigation (2024/2025):

Soil Boring Location

Monitoring Well Location

Soil Gas Location

Test Pit Location

GHD Phase II Investigation (2017):

Soil Boring/Sample Location

Soil Gas Sample Location

Test Pit Location

CRA Phase II Investigation (2007):

Soil Boring Location

Monitoring Well Location

CRA Investigation (2005/2006):

Monitoring Well Location

Monitoring Well Location

2000 Estimated TPH Plume/ Bioremediation Area

TPH TPH TPH

2007 PNA Delineation: PNAs > 1997, 2007 and/or Current Objectives

2008 Lead Remediation Area: Lead Remediated to 932 mg/kg

PIONEER
Engineering & Environmental Services, LLC

Scale: 1" = 550' (0' – 550')	Date: July 2025	**FIGURE 2** **Post-2000 Investigation Diagram** **8080 South Lake Shore Drive** **Chicago, IL**	
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock		
Job No.: 24-0124-103			

North

SB112 SB37 SB38 SB40 SB50 SB39 SB42/ MW-312 SB41 SB49 SB60 MW-101 SB97 SB96 SB87 SB86 SB79 SB43 SB47 SB48 SB59 SB98/ MW-311 SB78/ MW-309 LAKE MICHIGAN MW-102 SB44 SB45 SB46 SB58 SB95 SB88 SB85 SB80 SG-3 MW-102D SB56 SB57 SB99 SB94 SB89 SB84 SB81 SB77

EAST 83RD STREET

SB11/ MW-314 SB100 SB93 SB90/ MW-310 SB83 SB82 SB76

General Area of SB10 (Hotspot 1) Delineation Borings

MW-104 MW-104D SB10b SB101 SB104 SB91 SB92 SB107 SB10e SB10c SB75/ MW-307 SB102 SB10(a) SB10d SB9 SB103 SB106 SB108 SB110/ MW-308 SB105 SB109 NSGP-1

SG-1 DRIVE SB2 NORTH SLIP SB113 SB114 SB115/ MW-315 SB116 SB117

General Area of SB141 (Hotspot 2) Delineation Borings; See Figures 9 & 10A

SB136 SB139 SB140 SB4 SB8 SB7 SB137 SB17 SB16 SB15 SB14/ MW-301 SB13 SB12 SHORE LAKE SB1 EW-3 MW-106 SB142 SB138 NMW-4 SB141 SB6 SB3 SB18 SB19 SB20 SB111 SB5 SB145 SB130 SOUTH

EAST 87TH STREET

SB120 SB121 SB135 SB33 SB122 SB23 SB22 SB21(a) SB31 SB32 SB34 SB124 SB35 SB132 SB30 SB131 SB36/ MW-304 SB126 SB26/ MW-302 SB28 SB29 SB51/ MW-303 SB25 SB118 SB27 SB128 SB129 SB144 SB127/ MW-316 SB133 SB52 SB143/ MW-317 SB24/ SB134/ MW-313 SB125 SB123 MW-204 SB55 SB54 SB53 SB70(a) SB69 SB68 SB119 MW-202 SG-2 SSGP-1 "O" SB71 SB61(a)/ MW-318 SB72 SB67 SB64 SB62/ MW-305 SOUTH SLIP AVENUE SB63 SB66 SB65/ MW-306 SB73 CALUMET RIVER

General Area of SB70 (Hotspot 3) Delineation Borings; See Figures 9 & 10B

General Area of SB21 & SB118 (Hotspot 4) Delineation Borings; See Figures 9 & 10B

General Area of SB61 (Hotspot 5) Delineation Borings; See Figures 9 & 10C

EAST 91ST STREET SB74

Legend:
- Approximate Property Line
- Soil Boring Location (Pioneer 2024/2025)
- Monitoring Well Location (Pioneer 2024/2025)
- Soil Gas Sample Location (Pioneer 2025)
- Existing Monitoring Well Location
- Vessel Slip Gauging Point (Pioneer 2025)

PIONEER
Engineering & Environmental Services, LLC

Scale: 1" = 550' (0' – 550')	Date: July 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 3
Pioneer Investigation Diagram
8080 South Lake Shore Drive
Chicago, IL

North

SB112 SB37 SB38 SB40 SB50 SB39 SB42/ MW-312 SB41 SB49 SB60 SB43 SB47 SB48 SB59 SB97 SB96 SB87 SB86 SB79 MW-101 SB98/ MW-311 SB95 SB88 SB85 SB80 SB78/ MW-309 MW-102 SB44 SG-3 MW-102D SB45 SB46 SB58 SB57 SB99 SB94 SB89 SB84 SB81 SB77 SB56 SB11/ MW-314 SB100 SB93 SB90/ MW-310 SB83 SB82 SB76 MW-104 MW-104D SB101 SB104 SB91 SB92 SB107 SB75/ MW-307 SB102 SB103 SB106 SB108 SB9 SB110/ MW-308 SB105 SB109 NSGP-1 SG-1 SB2 SB113 SB114 SB115/ MW-315 SB116 SB117 SB8 SB4 SB136 SB139 SB7 SB137 EW-3 SB1 SB17 SB16 SB15 SB14/ MW-301 SB13 SB12 MW-106 SB142 SB141 SB138 NMW-4 SB6 SB3 SB18 SB20 SB111 SB5 SB19 SB145 SB130 SB120 SB121 SB135 SB33 SB34 SB122 SB23 SB22 SB21(a) SB31 SB32 SB35 SB124 SB132 SB131 SB30 SB36/ MW-304 SB126 SB29 SB26/ MW-302 SB28 SB51/ MW-303 SB25 SB27 SB128 SB129 SB144 SB127/ MW-316 SB24/ SB134/ MW-313 SB133 SB118 SB52 SB143/ MW-317 SB125 SB123 MW-204 SB70(a) SB69 SB68 SB55 SB53 SB54 MW-202 SSGP-1 SB61(a)/ MW-318 SB119/ SG-2 SB70 SB71 SB72 SB67 SB64 SB62/ MW-305 SB63 SB66 SB65/ MW-306 SB73 SB74

1.5 2.5 3.5 i = 0.0012 i = 0.0017 i = 0.0020 i = 0.0013 i = 0.0016 i = 0.0037

LAKE MICHIGAN

EAST 83RD STREET

EAST 87TH STREET

EAST 91ST STREET

LAKE SHORE DRIVE

SOUTH SHORE DRIVE

NORTH SLIP

SOUTH SLIP

"O" AVENUE

CALUMET RIVER

Legend:
- Approximate Property Line
- Soil Boring Location (Pioneer 2024/ 2025)
- Monitoring Well Location (Pioneer 2024/ 2025)
- Soil Gas Location (Pioneer 2025)
- Existing Monitoring Well Location
- Vessel Slip Gauging Point (Pioneer 2025)

Groundwater Elevations (ft CCD) (measured May 2025)

i = hydraulic gradient

PIONEER
Engineering & Environmental Services, LLC

Scale: 1" = 550' (0' – 550')	Date: August 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 4
Groundwater Elevations Diagram
8080 South Lake Shore Drive
Chicago, IL

North

SB112 0-3'
SB37 0-3' 12.5-15
SB38 0-3' 12.5-15'
SB40 0-3' 5-7.5'
SB50 0-3' 7.5-10'
SB39 0-3' 7.5-10'
SB42/ MW-312 0-3' 7.5-10' GW
SB41 0-3' 5-7.5'
SB49 0-3' 10-12.5'
SB60 0-3' 7.5-10'
MW-101 GW
SB43 0-3' 10-12.5'
SB47 0-3' 7.5-10'
SB48 0-3' 5-7.5'
SB59 0-3' 5-7.5'
SB97 0-3' 5-7.5'
SB96 0-3' 7.5-10'
SB87 0-3' 3-5'
SB86 0-3' 7.5-10'
SB79 0-3' 5-7.5'
SB98/ MW-311 0-3' 7.5-10' GW
SB78/ MW-309 0-3' 10-12.5' GW
LAKE MICHIGAN
GW MW-102
SB44 0-3' 5-7.5'
SB45 0-3' 5-7.5'
SB46 0-3' 3-5'
SB58 0-3' 10-12.5'
SG-3
MW-102D GW
MW-102D GW: VC
SB95 0-3' 5-7.5'
SB88 0-3' 7.5-10'
SB85 0-3' 10-12.5'
SB80 0-3' 3-5'
SB56 0-3' 5-7.5'
SB56 5-7.5' [2-HEX]
SB57 0-3' 7.5-10'
SB99 0-3' 10-12.5'
SB94 0-3' 12.5-15'
SB89 0-3' 3-5'
SB84 0-3' 5-7.5'
SB81 0-3' 7.5-10'
SB77 0-3' 5-7.5'
EAST 83RD STREET
0-3' 5-7.5' GW
SB11/ MW-314
SB100 0-3' 3-5'
SB93 0-3' 5-7.5'
SB90/ MW-310 0-3' 7.5-10' GW
SB83 0-3' 3-5'
SB82 0-3' 5-7.5'
SB76 0-3' 7.5-10'
MW-104
MW-104D GW
SB10b
SB101 0-3' 12.5-15'
SB104 0-3'
SB91 0-3' 12.5-15'
SB92 0-3' 3-5'
SB107 0-3' 7.5-10'
SB10e
SB10c
SB10(a)
SB10d
SB102 0-3' 7.5-10'
SB75/ MW-307 GW
SB9 0-3' 7.5-10'
SB103 0-3' 5-7.5'
SB106 0-3'
SB108 0-3'
SB110/ MW-308 0-3' 5-7.5' GW
SB105 0-3' 10-12.5'
SB109 0-3' 5-7.5'
NSGP-1
NORTH SLIP
SB128
SB52 0-3' 7.5-10'
SB129
SB144 0-3' 5-7.5'
SB143/ MW-317 0-3' 15-17.5 GW
SB54 0-3' [2-HEX] 10-12.5' [2-HEX]
SB53 0-3' [2-HEX]
SB54 0-3' 10-12.5'
SB53 0-3' 10-12.5'
SB119
MW-202 GW
SG-2
MW-202 GW: B, Naph
0-3' 17.5-19' GW
SB61(a)/ MW-318
SB61(a) 0-3' [2-HEX] 17.5-19' [2-HEX, MC]
INSET
SB2 3-5' MC, [2-HEX]
SG-1
SB2 0-3' 3-5'
SB136
SB8 0-3' 5-7.5'
SB139
SB140
SB4 0-3' 7.5-10'
SB7 0-3' 10-12.5'
SB137
EW-3 GW
SB1 0-3' 5-7.5'
SB142
SB138
NMW-4 GW
SB141
SB6 0-3' 3-5'
SB3 0-3' 5-7.5'
SB5 0-3' 5-7.5'
DRIVE
SHORE
LAKE
SOUTH
SB113 0-3' 10-12.5'
SB114 0-3' 7.5-10'
SB115/ MW-315 0-3' 5-7.5' GW
SB116 0-3' 12.5-15'
SB117 0-3' 5-7.5'
SB17 0-3' 5-7.5'
SB16 0-3' 3-5'
SB15 0-3' 7.5-10'
SB14/ MW-301 0-3' 10-12.5' GW
SB13 0-3' 5-7.5'
SB12 0-3' 7.5-10'
SB17 0-3' [2-HEX]
MW-106 GW
SB18 0-3' 7.5-10'
SB19 0-3' 5-7.5'
SB20 0-3' 3-5'
SB111 0-3' 3-5'
SB18 0-3' [2-HEX]
SB19 0-3' [2-HEX]
SB20 3-5' [2-HEX]
SB145 0-3'
SB130
SB135
SB34 5-7.5' [2-HEX]
SB33 0-3' 5-7.5'
SB34 0-3' 5-7.5'
EAST 87TH STREET
SB120 0-3'
SB121 0-3'
SB122 0-3' 15-17.5'
SB124 0-3'
SB23 0-3' 5-7.5'
SB22 0-3' 10-12.5'
SB21(a) 0-3' 12.5-15'
SB31 0-3' 7.5-10'
SB32 0-3' 5-7.5'
SB35 0-3' 7.5-10'
SB30 12.5-15' [2-HEX, MC]
SB21 0-3' [2-HEX] 12.5-15' [2-HEX]
SB132
SB131
SB30 0-3' 12.5-15'
SB36/ MW-304 0-3' 5-7.5' GW
SB51/ MW-303 0-3' 5-7.5' GW
SB51 0-3' [2-HEX]
SB126 0-3' 5-7.5'
SB25 0-3' 3-5'
SB26/ MW-302 0-3' 7.5-10' GW
SB28 0-3' 7.5-10'
SB29 0-3' 5-7.5'
SB118
SB27 0-3' 5-7.5'
SB28 0-3' [2-HEX]
SB128
SB52
SB129
SB144
SB143/ MW-317
SB127/ MW-316 GW
0-3' 5-7.5'
SB24/ SB134/ MW-313
SB133
SB27 0-3' 5-7.5' [2-HEX]
SB125 0-3' 7.5-10'
SB123 0-3' 5-7.5'
MW-204 GW
SB70(a) 0-3' 12.5-15'
SB69 0-3' 3-5'
SB68 0-3' 7.5-10'
0-3' SB55 5-7.5'
SB54
SB53
SB119
MW-202
SG-2
SB70(a) 12.5-15' [2-HEX]
SSGP-1
"O"
AVENUE
SOUTH
SB71
SB72 0-3' 7.5-10'
SOUTH SLIP
SB67 0-3' 3-5'
SB64 0-3' 7.5-10'
SB62/ MW-305 0-3' 7.5-10' GW
SB61(a)/ MW-318
SEE INSET
SB67 3-5' [2-HEX]
SB63 0-3' 5-7.5'
SB66 0-3' 5-7.5'
SB65/ MW-306 0-3' 7.5-10' GW
SB73 0-3' 5-7.5'
CALUMET RIVER
EAST 91ST STREET
SB74 0-3' 3-5'

Legend: Approximate Property Line

- Soil Boring Location (Pioneer 2024/ 2025)
- Monitoring Well Location (Pioneer 2024/ 2025)
- Soil Gas Sample Location (Pioneer 2025)
- Existing Monitoring Well Location
- Vessel Slip Gauging Point (Pioneer 2025)

(0-3') = soil sample interval

(GW) = groundwater sample

[ ] = indicates COC not detected, but detection limit > applicable Tier 1 SRO

2-HEX = 2-hexanone
B = benzene
MC = methylene chloride
Naph = naphthalene
VC = vinyl chloride

Monitoring wells are analytically clean unless specified otherwise

Borings not highlighted indicate sample not analyzed for VOCs

- = COCs above soil attention capacity
- = COCs above I/C soil ingestion
- = COCs above I/C outdoor inhalation
- = COCs above Class II groundwater
- = COCs below applicable objectives

PIONEER
Engineering & Environmental Services, LLC

Scale: 1" = 550' (0' – 550')	Date: July 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 5
VOC Results Summary
8080 South Lake Shore Drive
Chicago, IL

North

SB112 0-3'
SB37 0-3' 12.5-15
SB38 0-3' 12.5-15'
SB40 0-3' 5-7.5'
SB50 0-3' 7.5-10'
SB39 0-3' PNAs
SB39 0-3' 5.7-10'
SB42/ MW-312 0-3' 7.5-10' GW
SB41 0-3' 5-7.5'
SB49 0-3' 10-12.5'
SB60 0-3' 7.5-10'
SB41 0-3' PNAs
MW-101 GW
SB43 0-3' 10-12.5'
SB47 0-3' 7.5-10'
SB48 0-3' 5-7.5'
SB59 0-3' 5-7.5'
SB48 5-7.5' PNAs, Carb
SB97 0-3' 5-7.5'
SB96 0-3' 7.5-10'
SB87 0-3' 3-5'
SB86 0-3' 7.5-10'
SB79 0-3' 5-7.5'
SB87 0-3' PNAs, Carb
GW MW-102
SB44 0-3' 5-7.5'
SB45 0-3' 5-7.5'
SB46 0-3' 3-5'
SB58 0-3' 10-12.5'
SG-3
GW MW-102D
SB98/ MW-311 0-3' 7.5-10' GW
SB95 0-3' 5-7.5'
SB88 0-3' 7.5-10'
SB85 0-3' 10-12.5'
SB80 0-3' 3-5'
SB78/ MW-309 0-3' 10-12.5' GW
LAKE MICHIGAN
SB56 0-3' 5-7.5'
SB57 0-3' 7.5-10'
SB99 0-3' 10-12.5'
SB94 0-3' 12.5-15'
SB89 0-3' 3-5'
SB84 0-3' 5-7.5'
SB81 0-3' 7.5-10'
SB77 0-3' 5-7.5'
EAST 83RD STREET
0-3' 5-7.5' GW SB11/ MW-314
SB100 0-3' 3-5'
SB93 0-3' 5-7.5'
SB90/ MW-310 0-3' 7.5-10' GW
SB83 0-3' 3-5'
SB82 0-3' 5-7.5'
SB76 0-3' 7.5-10'
MW-104
MW-104D GW
SB10b
SB101 0-3' 12.5-15'
SB104 0-3'
SB91 0-3' 12.5-15'
SB92 0-3' 3-5'
SB107 0-3' 7.5-10'
0-3' 5-7.5'
SB75/ MW-307 GW
SB10e
SB10c
SB10(a) 3-5' PNAs, Carb, DBF
0-3' 3-5' SB10(a)
SB10d
SB102 0-3' 7.5-10'
SB9 0-3' 7.5-10'
SB103 0-3' 5-7.5'
SB106 0-3'
SB108 0-3'
SB110/ MW-308 0-3' 5-7.5' GW
SB105 0-3' 10-12.5'
SB109 0-3' 5-7.5'
NSGP-1
NORTH SLIP
SG-1 0-3' 3-5'
SB2
DRIVE
SB113 0-3' 10-12.5'
SB114 0-3' 7.5-10'
SB115/ MW-315 0-3' 5-7.5' GW
SB116 0-3' 12.5-15'
SB117 0-3' 5-7.5'
SB115 0-3' PNAs 5-7.5' PNAs, Carb
SB136
SB8 0-3' 5-7.5'
SB139
SB140
SB4 0-3' 7.5-10'
0-3' 10-12.5' SB7
SB137
EW-3 GW
SB1 0-3' 5-7.5'
SHORE
LAKE
SB17 0-3' 5-7.5'
SB16 0-3' 3-5'
SB15 0-3' 7.5-10'
SB14/ MW-301 0-3' 10-12.5' GW
SB13 0-3' 5-7.5'
SB12 0-3' 7.5-10'
MW-106 GW
SB142
SB138
NMW-4 GW
SB141
SB6 0-3' 3-5'
SB3 0-3' 5-7.5'
SB5 0-3' 5-7.5'
SB18 0-3' 7.5-10'
SB19 0-3' 5-7.5'
SB20 0-3' 3-5'
SB111 0-3' 3-5'
SB145 0-3'
SB130
SOUTH
EAST 87TH STREET
SB135
0-3' SB120
0-3' SB121
SB122 0-3' 15-17.5'
SB124 0-3'
SB124 0-3' PNAs
SB23 0-3' 5-7.5'
SB22 0-3' 10-12.5'
SB21(a) 0-3' 12.5-15'
SB31 0-3' 7.5-10'
SB32 0-3' 5-7.5'
0-3' 5-7.5' SB33
SB34 0-3' 5-7.5'
0-3' 7.5-10' SB35
SB132
SB131
SB30 0-3' 12.5-15'
SB36/ MW-304 0-3' 5-7.5' GW
SB126 0-3' 5-7.5'
SB26/ MW-302 0-3' 7.5-10' GW
SB25 0-3' 3-5'
SB118
SB28
SB29 0-3' 7.5-10'
SB51/ MW-303 0-3' 5-7.5' GW
SB127/ MW-316 0-3' 5-7.5' GW
0-3' 7.5-10'
SB24/ SB134/ MW-313
SB133
SB27 0-3' 5-7.5'
0-3' 10-12.5'
SB128
SB129
SB144 0-3' 12.5-15'
SB52 0-3' 7.5-10'
SB143/ MW-317
SB125 0-3' 7.5-10'
SB123 0-3' 5-7.5'
SB25 3-5' PNAs
MW-204 GW
SB70(a) 0-3' 12.5-15'
SB69 0-3' 3-5'
SB68 0-3' 7.5-10'
0-3' 5-7.5' SB55
SB54 0-3' 10-12.5'
SB53 0-3' 10-12.5'
0-3' 15-17.5' GW
SSGP-1
MW-202 GW
SG-2
SB119
SB64 0-3' PNAs
"O"
SB71 0-3'
SB64 0-3' 7.5-10'
SB61(a)/ MW-318 0-3' 17.5-19' GW
SB72 0-3' 7.5-10'
SB67 0-3' 3-5'
SB62/ MW-305 0-3' 7.5-10' GW
SOUTH SLIP
AVENUE
SB63 0-3' 5-7.5'
SB66 0-3' 5-7.5'
SB65/ MW-306 0-3' 7.5-10' GW
SB73 0-3' 5-7.5'
CALUMET RIVER
EAST 91ST STREET
SB74 0-3' 3-5'

Legend: Approximate Property Line

- Soil Boring Location (Pioneer 2024/ 2025)
- Monitoring Well Location (Pioneer 2024/ 2025)
- Soil Gas Sample Location (Pioneer 2025)
- Existing Monitoring Well Location
- Vessel Slip Gauging Point (Pioneer 2025)

(0-3') = soil sample interval

GW = groundwater sample

Carb = carbazole
DBF = dibenzofuran
PNAs = polynuclear aromatic hydrocarbons

Monitoring wells do not exhibit any SVOCs / PNAs above applicable Tier 1 GROs

Borings not highlighted indicate sample not analyzed for SVOCs / PNAs

- = COCs above soil attention capacity
- = COCs above I/C soil ingestion
- = COCs above I/C outdoor inhalation
- = COCs above Class II groundwater
- = COCs below applicable objectives

PIONEER
Engineering & Environmental Services, LLC

Scale: 1" = 550' (0' – 550')	Date: July 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 6
SVOC/PNA Results Summary
8080 South Lake Shore Drive
Chicago, IL

North

SB112 0-3'
SB37 0-3' 12.5-15
SB38 0-3' 12.5-15'
SB40 0-3' 5-7.5'
SB50 0-3' 7.5-10'
SB42 0-3' As, Pb
SB42/ MW-312 0-3' 7.5-10 GW
SB39 0-3' 7.5-10'
SB41 0-3' 5-7.5'
SB49 0-3' 10-12.5'
SB60 0-3' 7.5-10'
MW-101 GW
SB43 0-3' 10-12.5'
SB47 0-3' 7.5-10'
SB48 0-3' 5-7.5'
SB59 0-3' 5-7.5'
SB97 0-3' 5-7.5'
SB96 0-3' 7.5-10'
SB87 0-3' 3-5'
SB86 0-3' 7.5-10'
SB86 0-3' As
SB79 0-3' 5-7.5'
SB78 0-3' [As], Cr 10-12.5' As, V
SB44 0-3' Pb
SB98/ MW-311 0-3' 7.5-10' GW
SB98 7.5-10' V
SB78/ MW-309 0-3' 10-12.5' GW
LAKE MICHIGAN
GW MW-102
SB44 0-3' 5-7.5'
SB45 0-3' 5-7.5'
SB46 0-3' 3-5'
SB58 0-3' 10-12.5'
SB95 0-3' 5-7.5'
SB88 0-3' 7.5-10'
SB85 0-3' 10-12.5'
SB80 0-3' 3-5'
SB95 5-7.5' As
SG-3
GW MW-102D
SB46 0-3' Cr 3-5' As, Cr
SB89 0-3 Cr 3-5 Cr
SB99 0-3' Cr
SB56 0-3' 5-7.5'
SB57 0-3' 7.5-10
SB99 0-3' 10-12.5'
SB94 0-3' 12.5-15'
SB89 0-3' 3-5'
SB84 0-3' 5-7.5'
SB81 0-3' 17.5-10'
SB77 0-3' 5-7.5'
SB84 5-7.5' V
SB81 0-3' As
SB36/ MW-304
SB36 0-3' As, Cr 5-7.5' As, Cr
SB56 0-3' As
SB57 0-3' Cr 3-5' [As]
SB94 0-3' V
SB90 0-3' Mn, Cr, V 7.5-10' C
SB29
SB51/ MW-303
SB51 0-3' As, Cr/Cr 5-7.5' As
SB11/ MW-314
SB100 0-3' 3-5'
SB93 0-3' 5-7.5'
SB90/ MW-310 0-3' 7.5-10' GW
SB83 0-3' 3-5'
SB82 0-3' 5-7.5'
SB76 0-3' 7.5-10'
SB76 0-3' [As], Cr, V
SB128 7.5-10' As, Cr
SB128 0-3' 7.5-10'
SB129 0-3' 5-7.5'
SB144 0-3' 12.5-15'
SB52 0-3' 7.5-10'
SB129 0-3' As, Pb, Cr
SB143/ MW-317
SB52 7.5-10' As
SB54 0-3' As, Cr 10-12.5' As
SB144 0-3' Cr
SB143 0-3' Cr 15-17.5' As
SB54 0-3' 10-12.5'
SB53 0-3' 10-12.5'
SB53 0-3' Cr
0-3' 15-17.5 GW
SB119
MW-202 GW
SG-2
SB61(a)/ MW-318 0-3' 17.5-19' GW
INSET
SB10b
SB10e
SB10c
SB10(a) 0-3' 5-7.5'
SB10d
SB9 0-3' 7.5-10'
SB9 0-3' As
SB101 0-3' 12.5-15'
SB104 0-3'
SB91 0-3' 12.5-15'
SB92 0-3' 3-5'
SB107
SB107 7.5-10' As
SB102 0-3' 7.5-10'
SB102 0-3' [As], Cr
SB91 0-3 Cr 12.5-15 Cr
SB92 3-5' Cr, V
SB107 0-3' 7.5-10'
MW-104
MW-104D GW
SB75/ MW-307 0-3' 5-7.5' GW
SB103 0-3' 5-7.5'
SB110/ MW-308 0-3' 5-7.5' GW
SB105 0-3' 10-12.5'
SB106 0-3'
SB108 0-3'
SB103 0-3 Cr
SB109 0-3' 5-7.5'
SB106 0-3 As, Mn
SB108 0-3' Cr
SB110 0-3 Cr
SB109 0-3' As, Cr
NSGP
NORTH
SG-1 0-3' 3-5'
SB2
DRIVE
SHORE
LAKE
SOUTH
SB113 0-3' 10-12.5'
SB114 0-3' 7.5-10'
SB115/ MW-315 0-3' 5-7.5' GW
SB116 0-3' 12.5-15'
SB117 0-3' 5-7.5'
SB116 0-3 Cr
SB4 0-3' Pb
SB136
SB139
SB140
SB4
SB8 0-3' 5-7.5'
SB17 0-3' 5-7.5'
SB16 0-3' 3-5'
SB15 0-3' 7.5-10'
SB14/ MW-301 0-3' 10-12.5' GW
SB13 0-3' 5-7.5'
SB12 0-3' 7.5-10'
SB7 0-3' 10-12.5'
SB137
EW-3 GW
SB1 0-3' 5-7.5'
SB14 0-3' Pb
SB13 0-3' Cr, V
MW-106 GW
SB142
SB138
NMW-4 GW
SB141
SB18 0-3' 7.5-10'
SB19 0-3' 5-7.5'
SB20 0-3' 3-5'
SB111 0-3' 3-5'
SB6 0-3' 3-5'
SB3 0-3' 5-7.5
SB5 0-3' 5-7.5'
SB18 0-3' Cr
SB20 0-3' Cr
SB145 0-3'
7-9' SB130
EAST 87TH STREET
SB6 0-3' As, Cr
SB3 0-3' Cr 5-7.5' As, Pb
SB135 0-3'
SB33 0-3' Cr 5-7.5' Cr
SB34 0-3' As, Cr 5-7.5' Cr
SB120
SB121
SB122
SB23 0-3' 5-7.5'
SB22 0-3' 10-12.5'
SB21(a) 0-3' 12.5-15'
SB31 0-3' Cr
0-3' 7.5-10'
SB32 0-3' 5-7.5'
SB33 0-3' 5-7.5'
SB34 0-3' 5-7.5'
SB35 0-3' 7.5-10'
SB35 0-3' Cr 7.5-10' Cr
SB124 0-3'
SB126
SB126 5-7.5' As
SB132
SB131
SB30 0-3' 12.5-15'
SB36/ MW-304
SB26 0-3' As, Mn, Th
SB26/ MW-302 0-3' 7.5-10' GW
SB28
SB29
SB51/ MW-303
SB24 7.5-10' Pb
SB25 0-3' 3-5'
SB118
SB27 0-3' 5-7.5'
SB133
SB128
SB129
SB144
SB143/ MW-317
SB52
SB24/ SB134/ MW-313 0-3' 7.5-10' GW
SB127/ MW-316 0-3' 5-7.5' GW
SB125 0-3' 7.5-10'
SB123 0-3' 5-7.5'
MW-204 GW
SB68 0-3' Cr
SB55 5-7.5' As
SB70(a) 0-3' 12.5-15'
SB69 0-3' 3-5'
SB68 0-3' 7.5-10'
SB54
SB53
SB119
MW-202
SG-2
SB125 0-3' As
SB123 0-3' As
SSGP-1
SB61(a)/ MW-318
SEE INSET
"O"
AVENUE
SOUTH
SB71 0-3'
SB72 0-3' 7.5-10'
SB67 0-3' 3-5'
SB64 0-3' 7.5-10'
SB62/ MW-305 0-3' 7.5-10' GW
SOUTH SLIP
SB63 0-3' 5-7.5'
SB66 0-3' 5-7.5'
SB65/ MW-306 0-3' 7.5-10' GW
SB73 0-3' 5-7.5'
CALUMET RIVER
EAST 91ST STREET
SB74 0-3' 3-5'

Legend: Approximate Property Line

- Soil Boring Location (Pioneer 2024/ 2025)
- Monitoring Well Location (Pioneer 2024/ 2025)
- Soil Gas Sample Location (Pioneer 2025)
- Existing Monitoring Well Location
- Vessel Slip Gauging Point (Pioneer 2025)

(0-3') = soil sample interval

(GW) = groundwater sample

[ ] = indicates COC not detected, but detection limit > applicable Tier 1 SRO

As = arsenic
Cr = chromium
Mn = manganese
Pb = lead
Th = thallium
V = vanadium

Monitoring wells do not exhibit any inorganics above applicable Tier 1 GROs

Borings not highlighted indicate sample not analyzed for inorganics

- = COCs above soil attention capacity
- = COCs above I/C soil ingestion
- = COCs above I/C outdoor inhalation
- = COCs above Class II groundwater
- = COCs below applicable objectives

PIONEER
Engineering & Environmental Services, LLC

Scale: 1" = 550' (0' – 550')	Date: July 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 7
Inorganics Results Summary
8080 South Lake Shore Drive
Chicago, IL

North

SB112 0-3'
SB37 0-3' 12.5-15
SB38 0-3' 12.5-15'
SB40 0-3' 5-7.5'
SB50 0-3' 7.5-10'
SB39 0-3' PCBs 7.5-10 PCBs
SB39 0-3' 7.5-10'
SB42/ MW-312 0-3' 7.5-10' GW
SB41 0-3' 5-7.5'
SB49 0-3' 10-12.5'
SB60 0-3' 7.5-10'
SB41 0-3' PCBs
MW-101 GW
SB43 0-3' 10-12.5'
SB47 0-3' 7.5-10'
SB48 0-3' 5-7.5'
SB59 0-3' 5-7.5'
SB97 0-3' 5-7.5'
SB96 0-3' 7.5-10'
SB87 0-3' 3-5'
SB86 0-3' 7.5-10'
SB79 0-3' 5-7.5'
SB98/ MW-311 0-3' 7.5-10' GW
GW MW-102
SB44 0-3' 5-7.5'
SB45 0-3' 5-7.5'
SB46 0-3' 3-5'
SB58 0-3' 10-12.5'
SG-3
GW MW-102D
SB95 0-3' 5-7.5'
SB88 0-3' 7.5-10'
SB85 0-3' 10-12.5'
SB80 0-3' 3-5'
SB78/ MW-309 0-3' 10-12.5' GW
SB95 0-3' PCBs 5-7.5' PCBs
SB80 0-3' PCBs
LAKE MICHIGAN
SB56 0-3' 5-7.5'
SB57 0-3' 7.5-10'
SB99 0-3' 10-12.5'
SB94 0-3' 12.5-15'
SB89 0-3' 3-5'
SB84 0-3' 5-7.5'
SB81 0-3' 7.5-10'
SB77 0-3' 5-7.5'
EAST 83RD STREET
SB11/ MW-314 0-3' 5-7.5' GW
SB100 0-3' 3-5'
SB93 0-3' 5-7.5'
SB90/ MW-310 0-3' 7.5-10' GW
SB83 0-3' 3-5'
SB82 0-3' 5-7.5'
SB76 0-3' 7.5-10'
MW-104
MW-104D GW
SB10b
SB101 0-3' 12.5-15'
SB104 0-3'
SB91 0-3' 12.5-15'
SB92 0-3' 3-5'
SB107 0-3' 7.5-10'
SB10e
SB10c
SB102 0-3' 7.5-10'
0-3' 3-5' SB10(a)
SB10d
SB75/ MW-307 GW
SB9 0-3' 7.5-10'
SB103 0-3' 5-7.5'
SB106 0-3'
SB108 0-3'
SB110/ MW-308 0-3' 5-7.5' GW
SB105 0-3' 10-12.5'
SB109 0-3' 5-7.5'
NSGP-1
NORTH SLIP
SG-1 0-3' 3-5'
SB2
DRIVE
SB113 0-3' 10-12.5'
SB114 0-3' 7.5-10'
SB115/ MW-315 0-3' 5-7.5' GW
SB116 0-3' 12.5-15'
SB117 0-3' 5-7.5'
SB136
0-3' 7.5-10'
SB139
SB140
SB4
SB8 0-3' 5-7.5'
SHORE
SB17 0-3' 5-7.5'
SB16 0-3' 3-5'
SB15 0-3' 7.5-10'
SB14/ MW-301 0-3' 10-12.5' GW
SB13 0-3' 5-7.5'
SB12 0-3' 7.5-10'
0-3' 10-12.5' SB7
SB137
EW-3 GW
SB1 0-3' 5-7.5'
LAKE
MW-106 GW
SB142
SB138
NMW-4 GW
SB141
SB6 0-3' 3-5'
SB3 0-3' 5-7.5'
SB18 0-3' 7.5-10'
SB19 0-3' 5-7.5'
SB20 0-3' 3-5'
SB145 0-3' PCBs
SB111 0-3' 3-5'
SB5 0-3' 5-7.5'
SOUTH
SB145 0-3'
SB130
EAST 87TH STREET
0-3' SB120
0-3' SB121
SB135
SB122
0-3' 15-17.5'
SB124
SB23 0-3' 5-7.5'
SB22 0-3' 10-12.5'
SB21(a) 0-3' 12.5-15'
SB31 0-3' 7.5-10'
SB32 0-3' 5-7.5'
0-3' SB33 5-7.5'
SB34 0-3' 5-7.5'
0-3' SB35 7.5-10'
SB132
SB131
SB30 0-3' 12.5-15'
SB36/ MW-304 0-3' 5-7.5' GW
SB126
0-3' 5-7.5'
SB127/ MW-316 0-3' 5-7.5' GW
SB25 0-3' 3-5'
0-3' 7.5-10'
SB24/ SB134/ MW-313
SB26/ MW-302 0-3' 7.5-10' GW
SB118
SB28 0-3' 10-12.5'
SB29 0-3' 7.5-10'
SB51/ MW-303 0-3' 5-7.5' GW
SB133
SB27 0-3' 5-7.5'
SB128
SB129
SB144 0-3' 12.5-15'
SB52 0-3' 7.5-10
0-3' 5-7.5
SB143/ MW-317 0-3' 15-17.5' GW
SB125 0-3' 7.5-10'
SB123 0-3' 5-7.5'
MW-204 GW
SB55 0-3' Dieldrin, HepEp, PCBs
0-3' 7.5-10'
SB70(a) 0-3' 12.5-15'
0-3' SB55 5-7.5'
SB54 0-3' 10-12.5'
SB53 0-3' 10-12.5'
SB69 0-3' 3-5'
SB68 0-3' 7.5-10'
SB119
MW-202 GW
SG-2
SSGP-1
"O"
SB71 0-3'
SB71 0-3' PCBs
SB72 0-3' 7.5-10'
SOUTH SLIP
SB61(a)/ MW-318 0-3' 17.5-19' GW
SB67 0-3' 3-5'
SB64 0-3' 7.5-10'
SB62/ MW-305 0-3' 7.5-10' GW
SB63 0-3' 5-7.5'
AVENUE
SB66 0-3' 5-7.5'
SB65/ MW-306 0-3' 7.5-10' GW
SB73 0-3' 5-7.5'
SOUTH
CALUMET RIVER
EAST 91ST STREET
SB74 0-3' 3-5'

Legend: Approximate Property Line

- Soil Boring Location (Pioneer 2024/ 2025)
- Monitoring Well Location (Pioneer 2024/ 2025)
- Soil Gas Sample Location (Pioneer 2025)
- Existing Monitoring Well Location
- Vessel Slip Gauging Point (Pioneer 2025)

(0-3') = soil sample interval

GW = groundwater sample

HepEp = heptachlor epoxide
PCBs = polychlorinated biphenyls

Monitoring wells do not exhibit any Pest. or PCBs above applicable Tier 1 GROs

- = COCs above soil attention
- = COCs above I/C soil ingestion
- = COCs above I/C outdoor inhalation
- = COCs above Class II groundwater
- = COCs below applicable objectives

PIONEER
Engineering & Environmental Services, LLC

Scale: 1" = 550' (0' – 550')	Date: July 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 8
Pesticides & PCBs Results Summary
8080 South Lake Shore Drive
Chicago, IL

FIGURE 9
TPH Hotspot Diagram
8080 South Lake Shore Drive
Chicago, IL

North

Scale: 1" = 450'
0' 450'

Drawn by: M. S. Valadez

Job No: 24-0124-103

Date: July 2025

Checked by: Jacob Hartsock

Legend:
- Approximate Property Line
- Soil Boring Location (Pioneer 2024/2025)
- Monitoring Well Location (Pioneer 2024/2025)
- Soil Gas Location (Pioneer 2025)
- Test Pit Location (Pioneer 2025)
- Vessel Slip Gauging Point (Pioneer 2025)
- Existing Monitoring Well Location
- Estimated Extent of Current TPH Soil Attenuation Impacts
- 2000 Estimated TPH Plume / Bioremediation Area

PIONEER
Engineering & Environmental Services, LLC

LAKE MICHIGAN
NORTH SLIP
LAKE SHORE DRIVE
SOUTH "O" AVENUE
SOUTH SLIP
CALUMET RIVER
EAST 87TH STREET
EAST 91ST STREET

Hotspot 2
Hotspot 3
Hotspot 4
Hotspot 5

SB9 SB103 SB110/MW-308 SB105 SB109 SB106 SB108
NSGP-1
SG-1 SB2
SB113 SB114 SB115/MW-315 SB116 SB117
SB8 SB4 SB136 SB140 SB139 SB7 SB137 SB1
EW-3
SB141a SB141b SB142 SB138 NMW-4 SB141 SB141c SB5 SB6 SB3
SB17 SB16 SB15 SB14/MW-301 SB13 SB12 MW-106
SB18 SB19 SB20 SB145 SB130 SB111
SB21k
SB135 SB121 SB120 SB122 SB124 SB126 SB127/MW-316 SB125 SB123
SB21t SB21h SB21u SB21i SB21d SB21(a) SB21m SB21g SB22 SB31 SB21b SB21e SB21l SB21s SB21f SB21j SB21n SB21o SB132 SB21q SB21c SB118f SB21r SB118d SB21p SB118 SB27 SB25 SB26/MW-302 SB118e SB118h SB118b SB118g SB118c SB70aa SB133 SB70t SB118a SB70j SB70k SB70i SB70g SB70b SB70d SB70n SB70e MW-204 SB70o SB69 SB70h SB70z SSGP-1 SB70l SB70y SB70m SB70x SB70f SB70v SB70p SB70w SB70(a) SB71 SB70c SB70q SB70r SB70s SB70u SB67 SB64 SB72 SB73 SB74 SB66 SB65/MW-306 SB63
SB23 SB24/SB134/MW-313
SB33 SB34 SB32 SB35 SB30 SB131 SB36/MW-304 SB28 SB29 SB51/MW-303 SB61r SB129 SB144 SB61o SB61y SB52 SB128 SB143/MW-317 SB61u SB61l SB61x SB61t SB61v SB61s SB61p SB61m SB54 SB61w SB55 SB61f SB53 SB61k SB61q SB61b SB119 SB61j MW-202 SB61g SB61z SB61e SG-2 SB61n SB61d SB61(a)/MW-318 SB62/MW-305 SB61h SB61i SB61c

North

SOUTH BUFFALO AVENUE

SOUTH MACKINAW AVENUE

SOUTH GREEN BAY AVENUE

EAST 86TH STREET

EAST 87TH STREET

SOUTH BURLEY AVENUE

SOUTH MACKINAW AVENUE

SB136	(5-7.5)	<2,378
SB140	(5-7.5)	1,201
SB139	(5-7.5)	<103
	(7.5-10)	<94
SB137	(5-7.5)	<257
SB141a	(7.5-10)	**<2,334**
	(10-12.5)	<61.2
SB141	(5-7.5)	**2,460**
	(7.5-10)	<268
SB142	(5-7.5)	407
	(7.5-10)	<84
SB141b	(5-7.5)	430
	(12.5-15)	<37
SB141c	(5-7.5)	<51
	(7.5-10)	633
SB138	(5-7.5)	<73

SB8, SB136, B, SB140, SB7, SB139, SB4, SB137, EW-3, SB141a, SB142, SB141, SB141b, A, A', SB138, NMW-4, SB141c, B', SB5, SB6, SB120

Legend:

- TPH < Soil Attenuation Capacity
- TPH Not Analyzed, but No Field Evidence of Contamination *
- TPH > Soil Attenuation Capacity

* Indicated if boring did not exhibit field evidence of impact and extended to water table

Sample ID	Depth (ft)	TPH (mg/kg)

Cross Section Line (See Figs 11A-B)
A – – – – – A'

PIONEER
Engineering & Environmental Services, LLC

Legend: Approximate Property Line

Estimated Extent of Current TPH Soil Attenuation Impacts

Soil Boring Location (Pioneer 2024/2025)

Existing Monitoring Well Location

Scale: 1" = 100' (0' – 100')

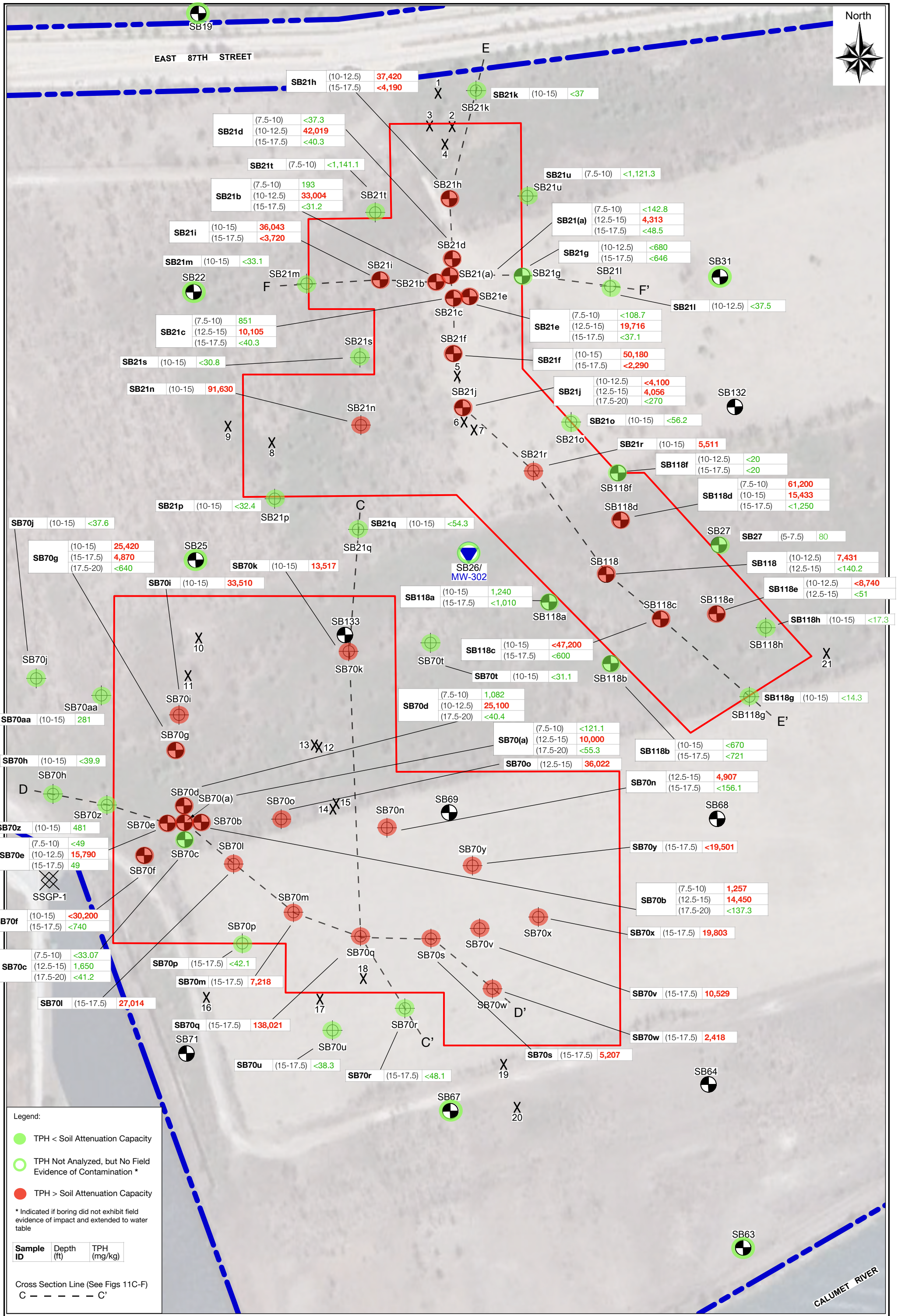
Date: August 2025

Drawn by: M. S. Valadez

Checked by: Jacob Hartsock

Job No.: 24-0124-103

FIGURE 10A
TPH (Hotspot #2) Detail
8080 South Lake Shore Drive
Chicago, IL



PIONEER
Engineering & Environmental Services, LLC

Legend: Approximate Property Line
Estimated Extent of Current TPH Soil Attenuation Impacts
Soil Boring Location (Pioneer 2024/2025)
Test Pit Location (Pioneer 2025)
Monitoring Well Location (Pioneer 2024/2025)
Test Pit Refusal Location (Pioneer 2025)

Scale: 1" = 150' (0' — 150')	Date: August 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 10B
TPH (Hotspots #3 & 4) Detail
8080 South Lake Shore Drive
Chicago, IL

North

SB32

SB34

SB35

SB30

SB36/ MW-304

SB131

SB29

SB51/ MW-303

SB28

G

SB61o

SB61o (15-17.5) <84

SB61y (15-17.5) 322

SB61y

SB61x (15-17.5) 66,006

SB52

SB61s (15-17.5) 32,012

SB61r (15-17.5) <68.2

SB129

SB61t (15-17.5) 32,054

SB61l (15-17.5) <189; (20-22.5) <1,090; (25-27.5) <109

H'

SB143/ MW-317

SB61v (15-17.5) <10,901

SB128

22

SB61u

SB61u (15-17.5) 253

SB61x

TPH

23

SB61r

SB53 (15-17.5) <173; (20-22.5) <100

SB61w (15-17.5) <148.1

SB61v

SB144

SB61p

SB61p (17.5-20) 17,407

SB61s

SB61l

SB61w

SB61m

SB61j

SB61q (15-17.5) 3,303

SB55 (15-17.5 <530; (17.5-20) <84

SB61q

SB61t

SB53

SB61k (15-17.5) <3,270; (20-22.5) <305; (25-27.5) <2,360

SB55

SB54

SB61k

SB61j (15-17.5) <162; (20-22.5) <990; (25-27.5) <85

SB61f

SB61m (14-15) <11,920; (15-18) <41,200

MW-202

SB119

SG-2

SB61b (7.5-10) 439; (12.5-15) 34,052; (17.5-19) <54.2

24

SB61e (7.5-10) 255; (10-12.5) 40,050; (22.5-25) <97.3

SB61f (15-17.5) 6,130; (22.5-25) <1,940

SB61b

SB61g

SB61z

SB61(a)/ MW-318

SB61e

SB61c

SB61g (12.5-15) <68,200; (20-22.5) <410

SB61h

SB61(a) (7.5-10) 332; (12.5-15) 62,016; (17.5-19) 10,851; (35-37.5) <166; (37.5-40) <84

SB61d

SB61n (15-17.5) <439; (17.5-20) <152; (20-22.5) <496

SB61n

25

SB61i

G'

SB61d (10-12.5) 1,506; (17.5-20) 13,309; (25-27.5) 3,208

H

SB61h (12.5-15) 16,710; (17.5-19) <12,600

TPH

SB61c (7.5-10) 67; (12.5-15) 16,839; (15-17) 5,120

SB61z (15-17.5) 86,042

SB62/ MW-305

SB61i (12.5-15) <298

CALUMET RIVER

Legend:

- TPH < Soil Attenuation Capacity
- TPH Not Analyzed, but No Field Evidence of Contamination *
- TPH > Soil Attenuation Capacity

* Indicated if boring did not exhibit field evidence of impact and extended to water table

Sample ID	Depth (ft)	TPH (mg/kg)

Cross Section Line (See Figs 11G-H)

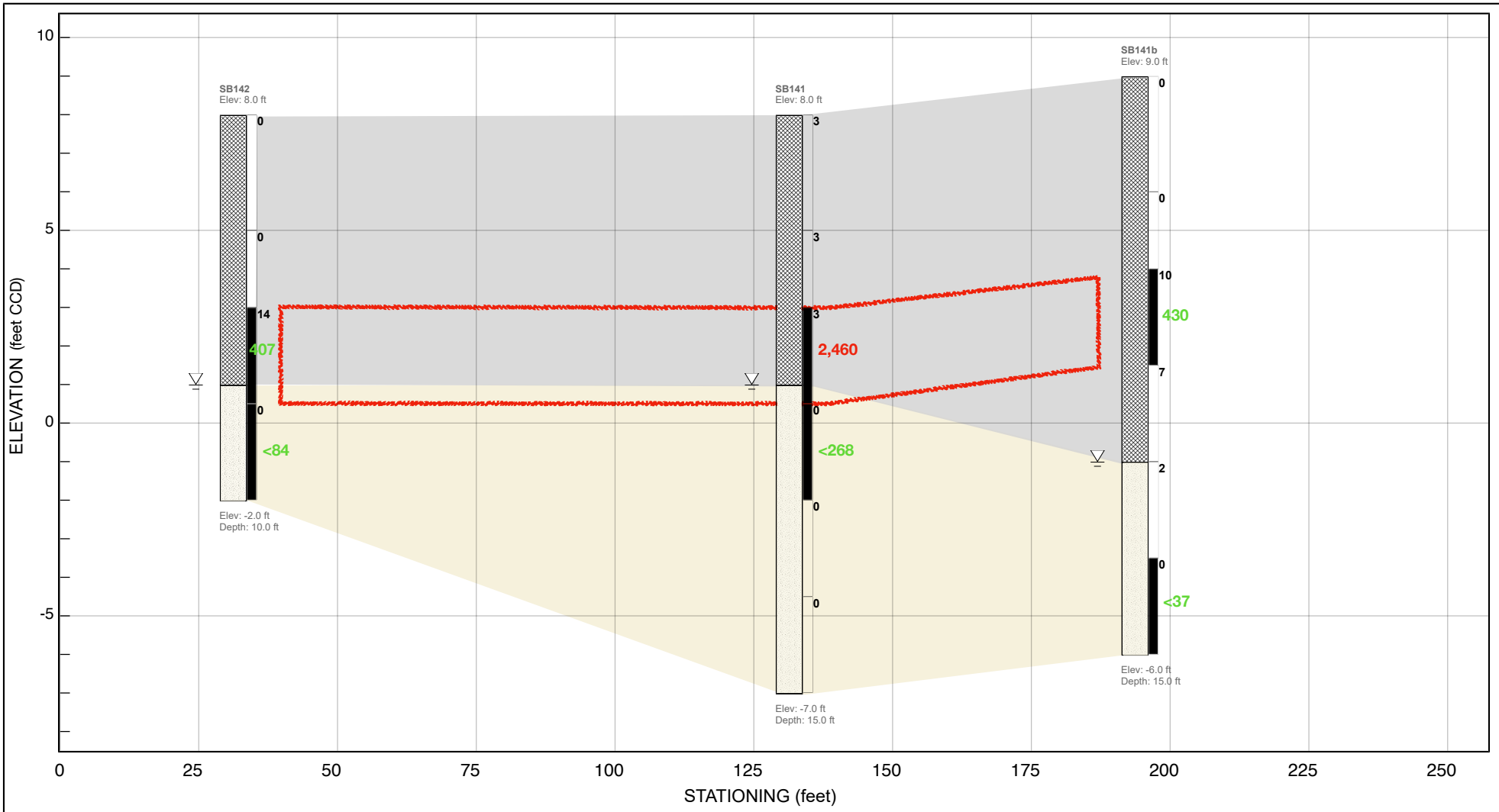
G — — — — — G'

PIONEER
Engineering & Environmental Services, LLC

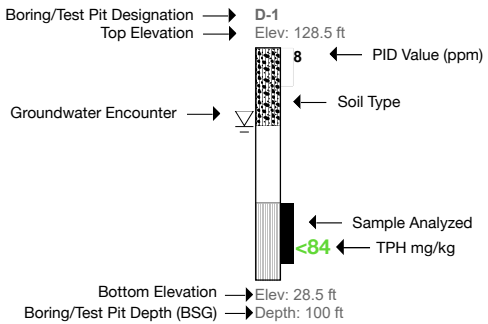
Legend:
- Approximate Property Line
- Soil Boring Location (Pioneer 2024/2025)
- Monitoring Well Location (Pioneer 2024/2025)
- Estimated Extent of Current TPH Soil Attenuation Impacts
- 2000 Estimated TPH Plume/ Bioremediation Area
- Test Pit Location (Pioneer 2025)
- Test Pit Refusal Location (Pioneer 2025)

Scale: 1" = 100' (0' — 100')	Date: July 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 10C
TPH (Hotspot #5) Detail
8080 South Lake Shore Drive
Chicago, IL



EXPLORATION LOG LEGEND



LEGEND KEY

Fill

SP

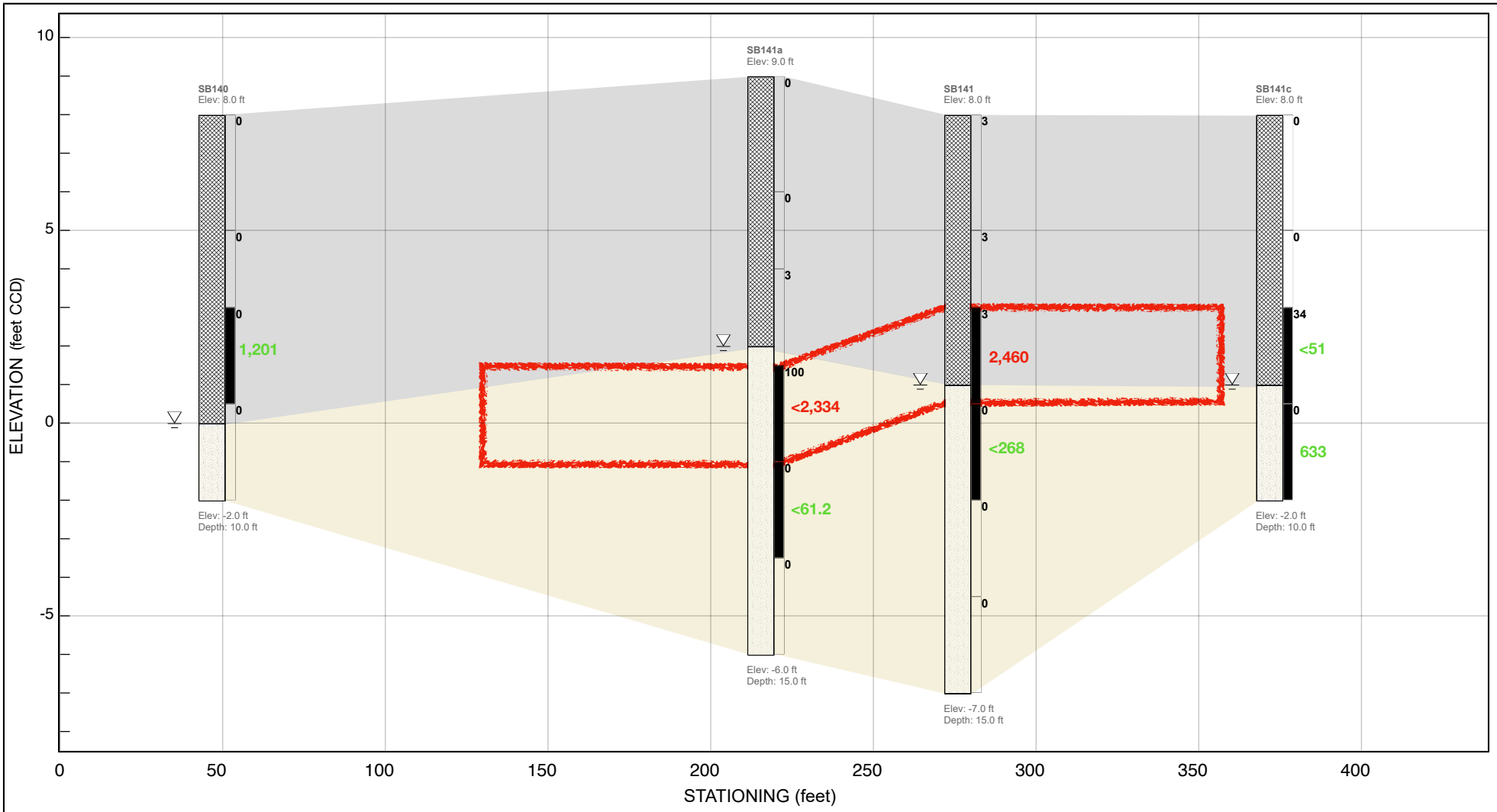
Estimated Extent of TPH Soil Attenuation Impact

Note: Stratigraphy and Extent of TPH Impacts are approximate and inferred where borings are not present

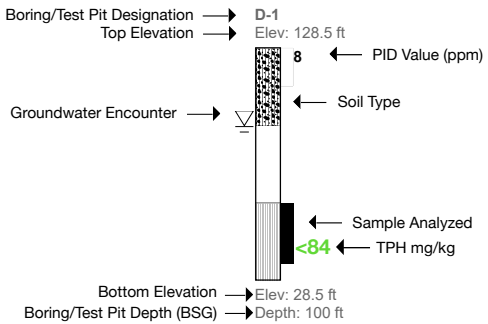
FIGURE 11A
TPH (Hotspot 2) Cross Section A-A'

8080 South Lake Shore Drive
Chicago, IL

PIONEER
Engineering & Environmental Services, LLC



EXPLORATION LOG LEGEND



LEGEND KEY

Fill

SP

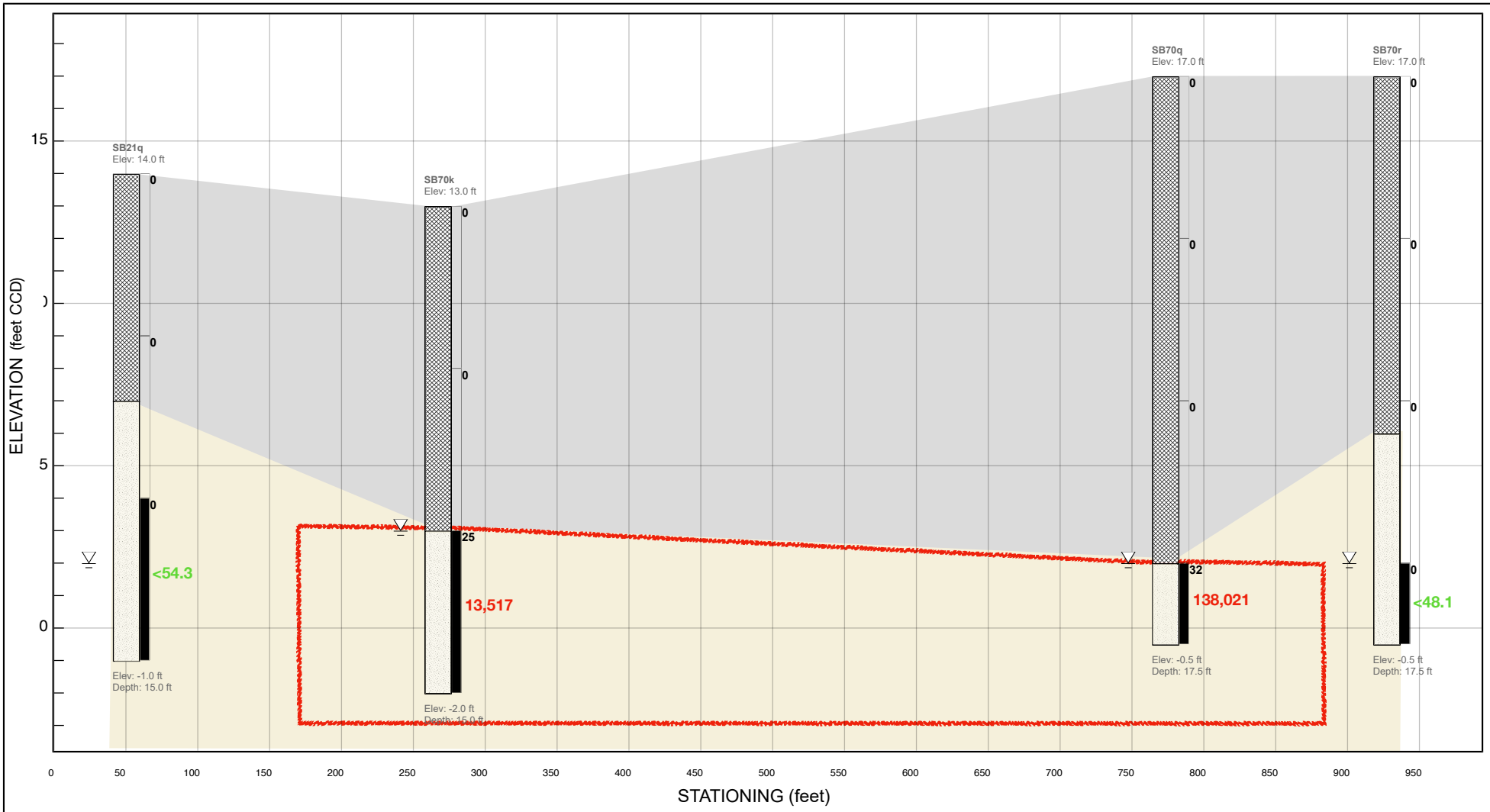
Estimated Extent of TPH Soil Attenuation Impact

Note: Stratigraphy and Extent of TPH Impacts are approximate and inferred where borings are not present

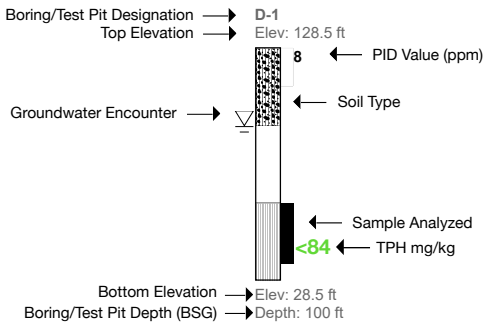
FIGURE 11B
TPH (Hotspot 2) Cross Section B-B'

8080 South Lake Shore Drive
Chicago, IL

PIONEER
Engineering & Environmental Services, LLC



EXPLORATION LOG LEGEND



LEGEND KEY

Fill

SP

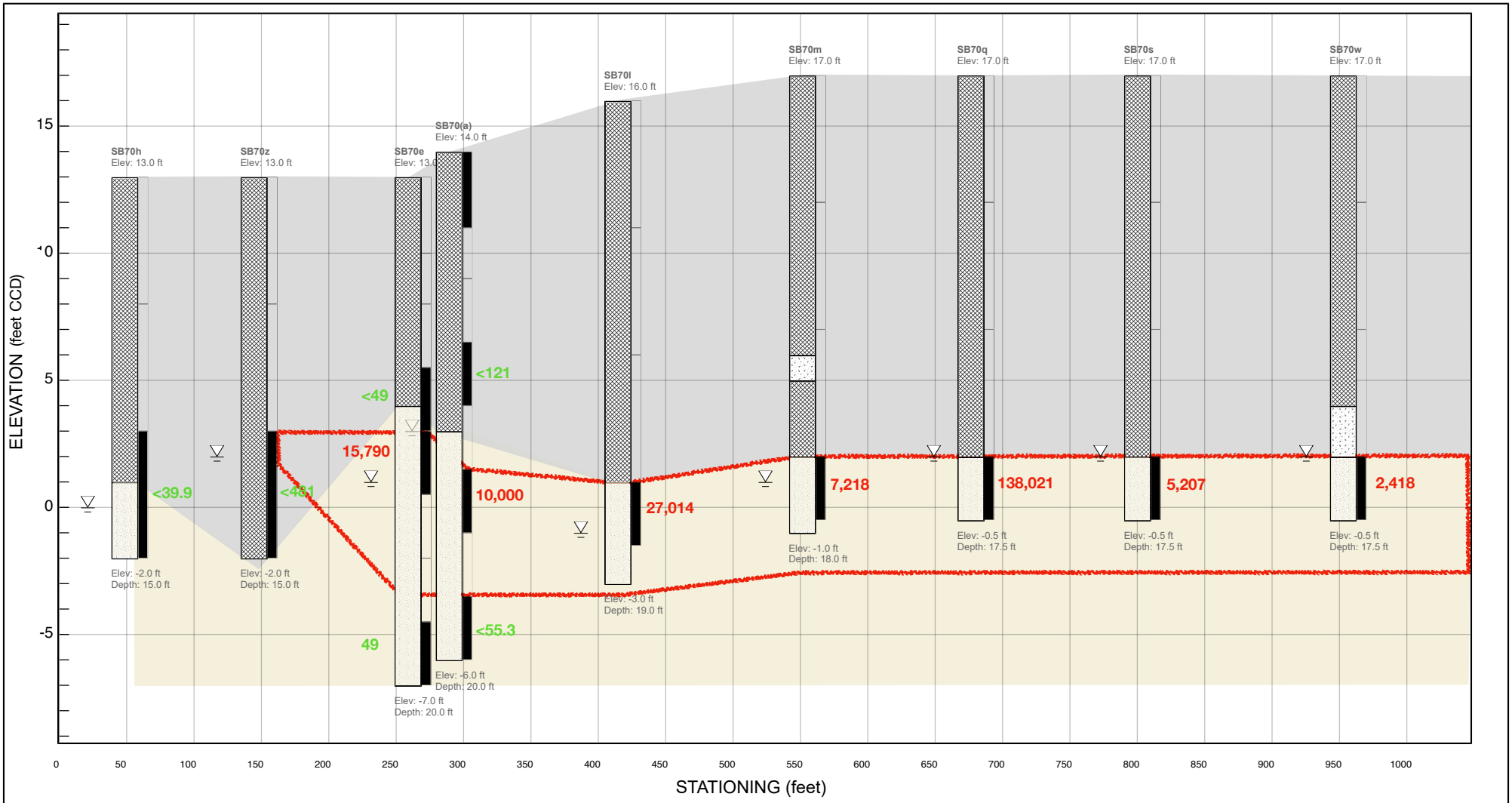
Estimated Extent of TPH Soil Attenuation Impact

Note: Stratigraphy and Extent of TPH Impacts are approximate and inferred where borings are not present

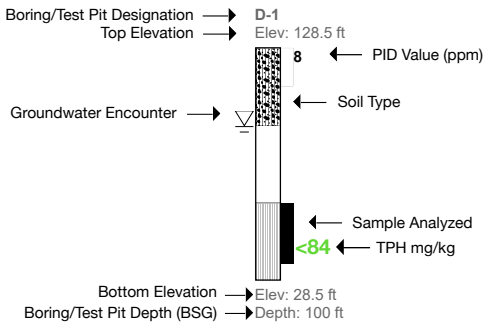
FIGURE 11C
TPH (Hotspot 3) Cross Section C-C'

8080 South Lake Shore Drive
Chicago, IL

PIONEER
Engineering & Environmental Services, LLC



EXPLORATION LOG LEGEND



LEGEND KEY

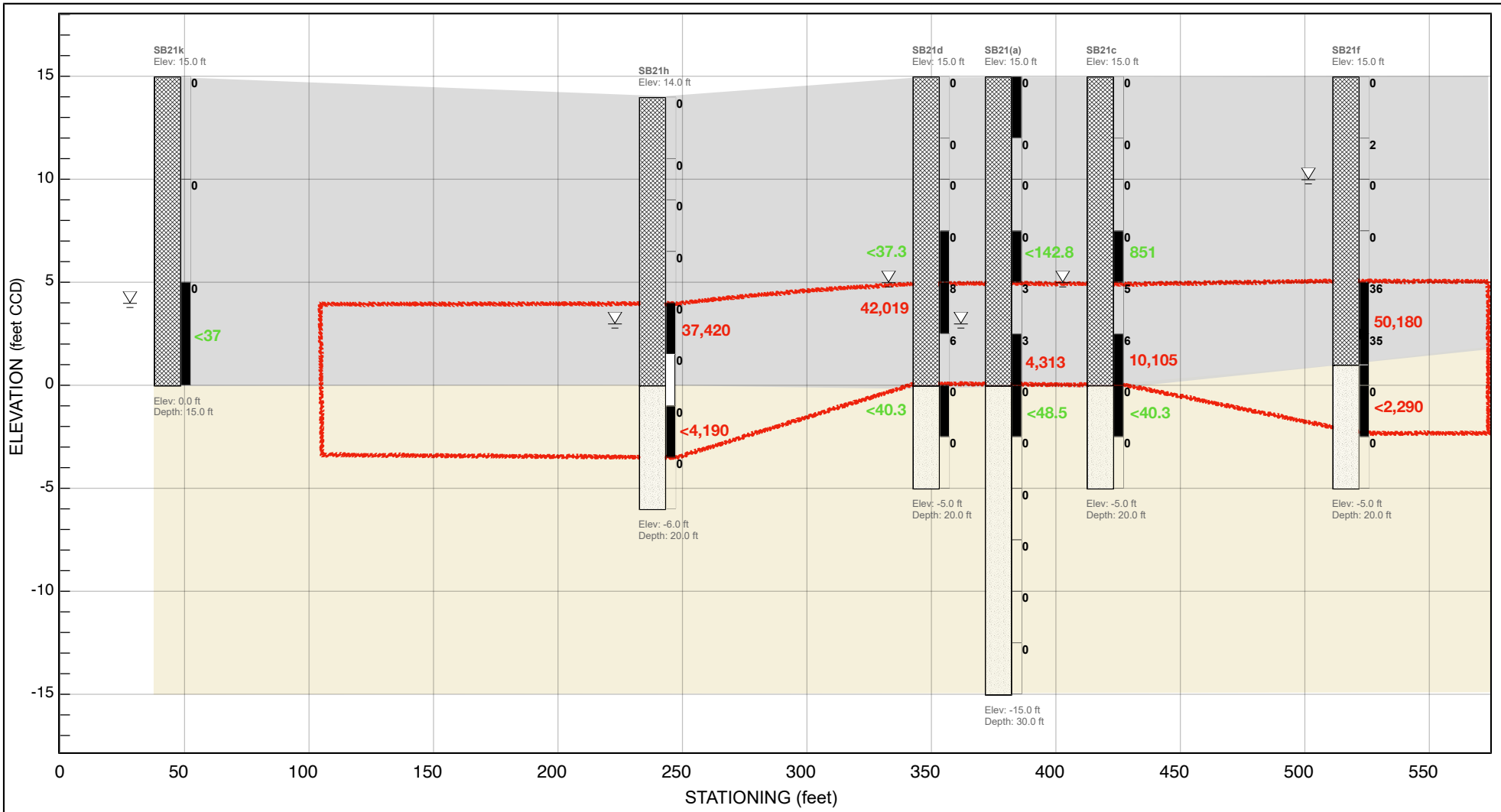
- Concrete
- Fill
- SP
- Estimated Extent of TPH Soil Attenuation Impact

Note: Stratigraphy and Extent of TPH Impacts are approximate and inferred where borings are not present

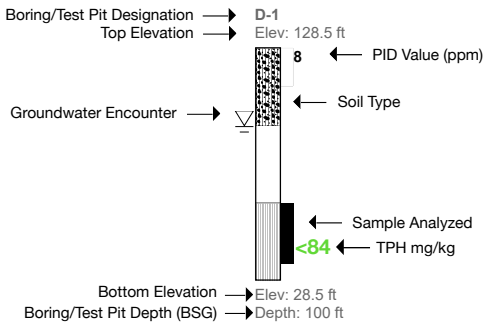
FIGURE 11D
TPH (Hotspot 3) Cross Section D-D'

8080 South Lake Shore Drive
Chicago, IL

PIONEER
Engineering & Environmental Services, LLC



EXPLORATION LOG LEGEND



LEGEND KEY

Fill

SP

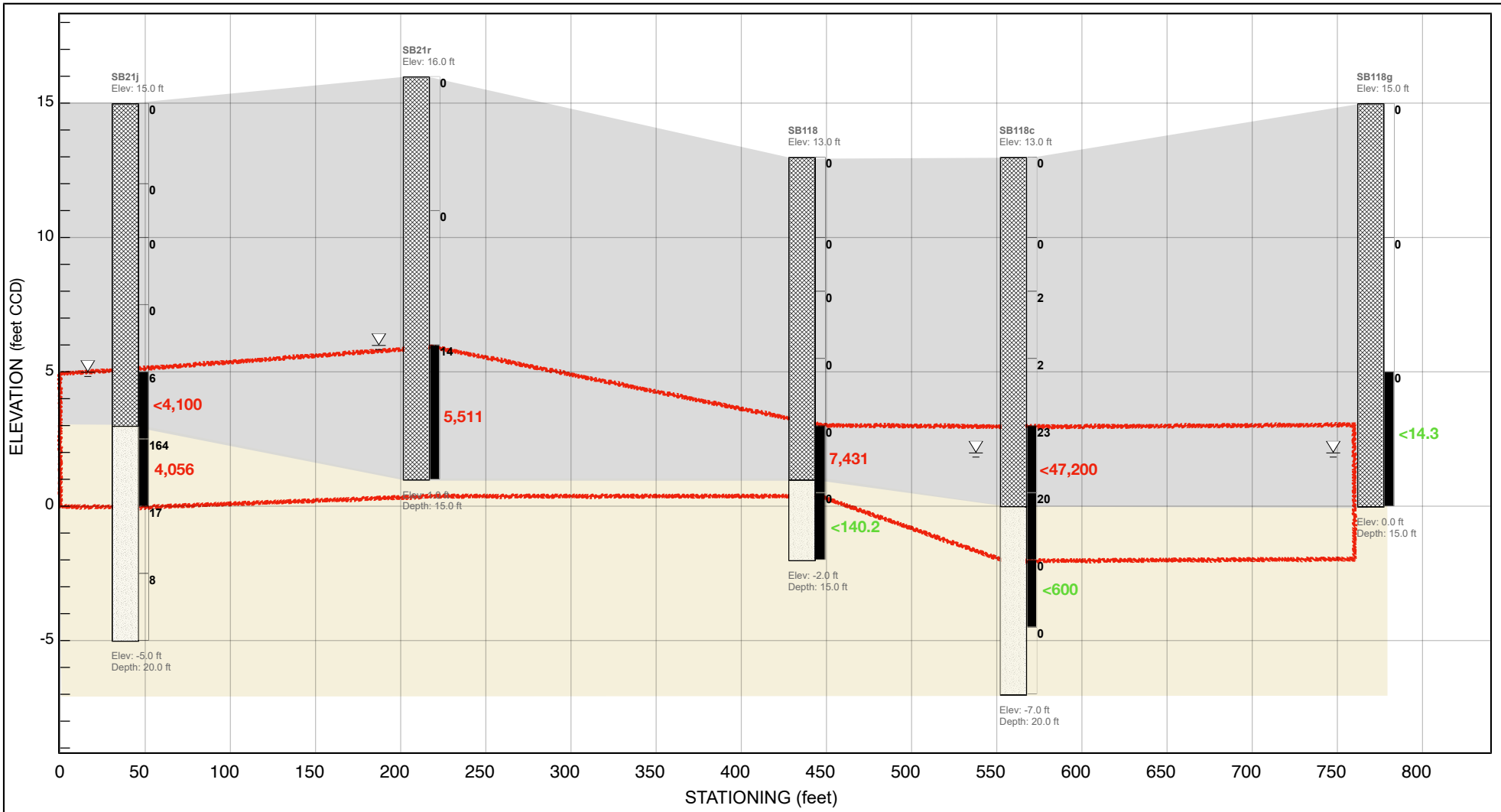
Estimated Extent of TPH Soil Attenuation Impact

Note: Stratigraphy and Extent of TPH Impacts are approximate and inferred where borings are not present

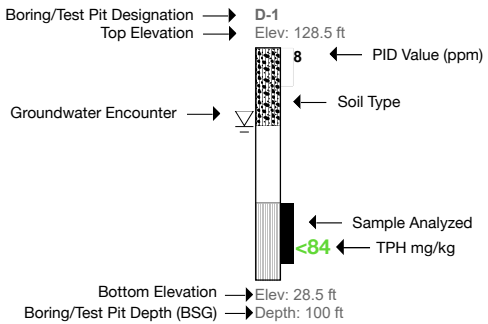
FIGURE 11E (1 of 2)
TPH (Hotspot 4) Cross Section E-E'

8080 South Lake Shore Drive
Chicago, IL

PIONEER
Engineering & Environmental Services, LLC



EXPLORATION LOG LEGEND



LEGEND KEY

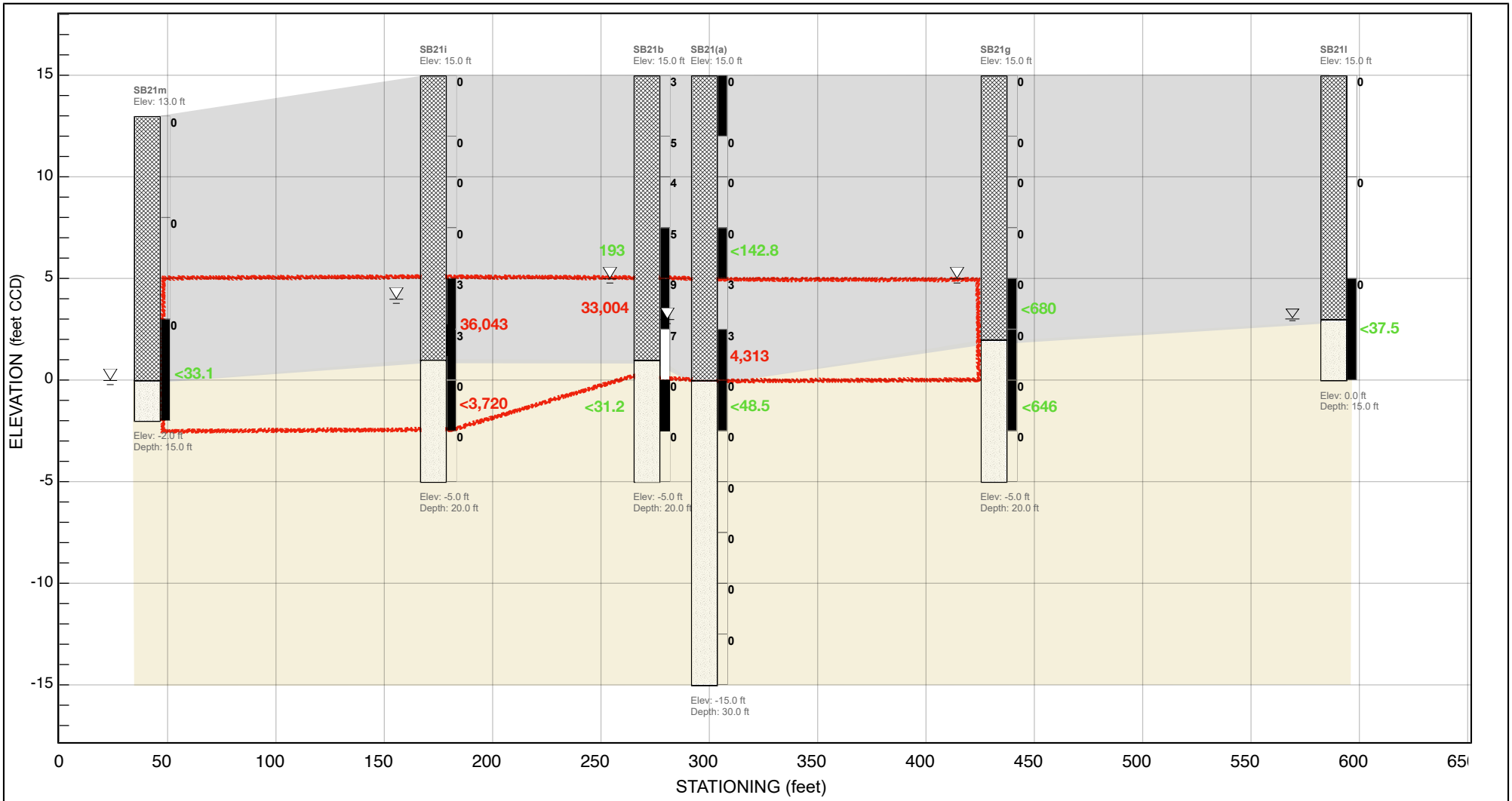
- Fill
- SP
- Estimated Extent of TPH Soil Attenuation Impact

Note: Stratigraphy and Extent of TPH Impacts are approximate and inferred where borings are not present

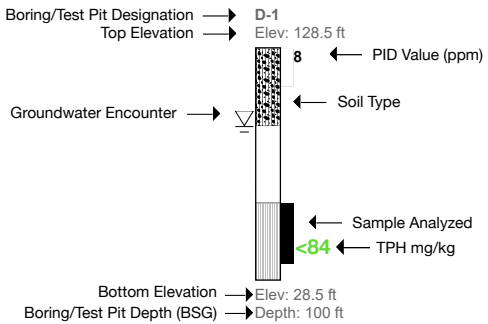
FIGURE 11E (2 of 2)
TPH (Hotspot 4) Cross Section E-E'

8080 South Lake Shore Drive
Chicago, IL

PIONEER
Engineering & Environmental Services, LLC



EXPLORATION LOG LEGEND



LEGEND KEY

Fill

SP

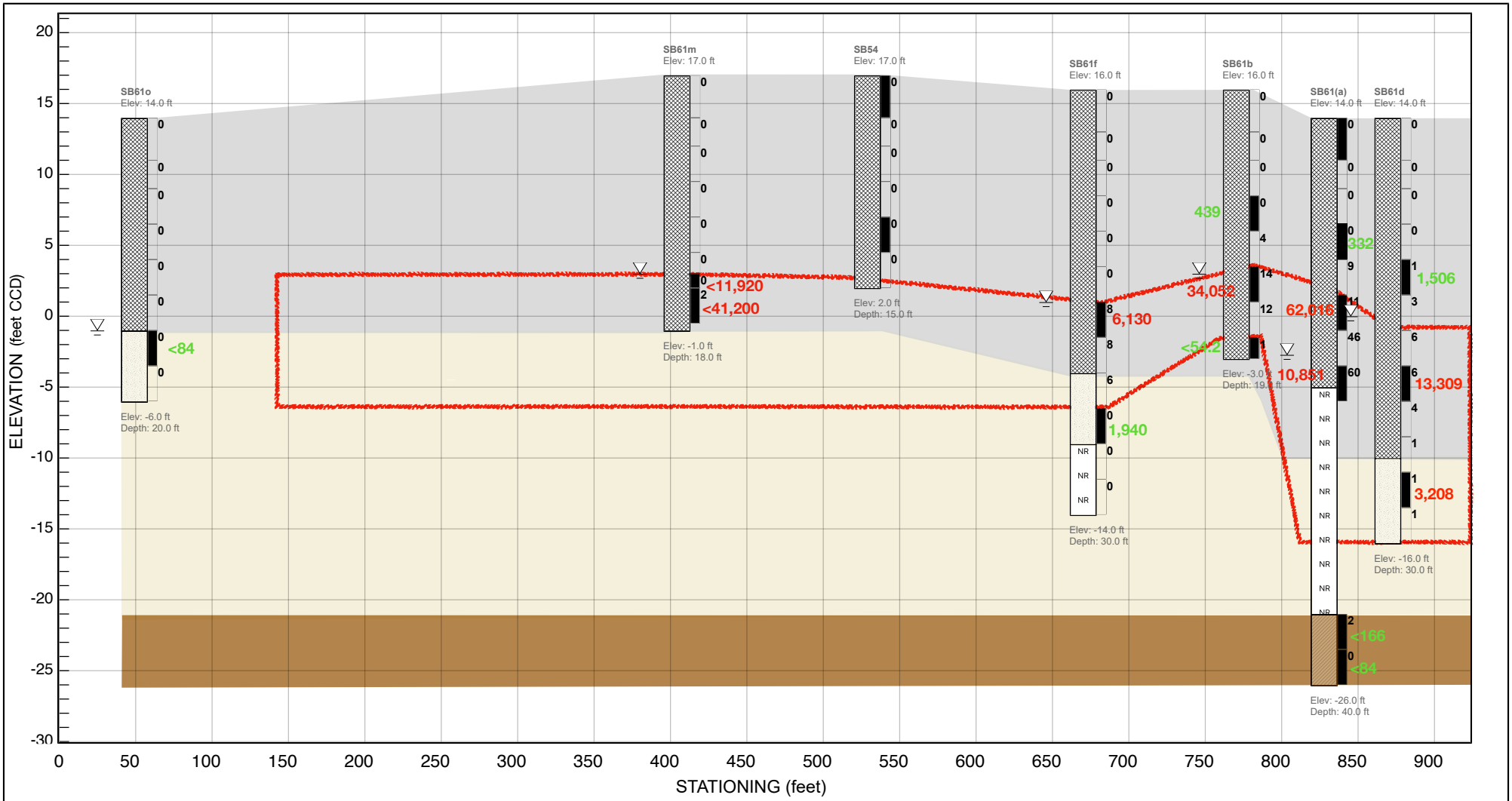
Estimated Extent of TPH Soil Attenuation Impact

Note: Stratigraphy and Extent of TPH Impacts are approximate and inferred where borings are not present

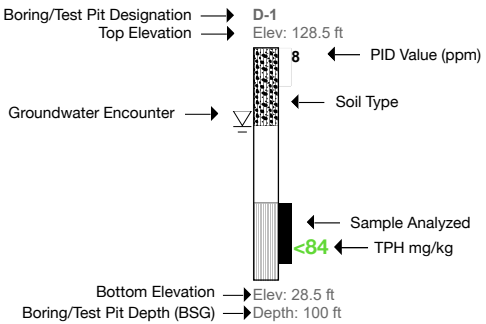
FIGURE 11F
TPH (Hotspot 4) Cross Section F-F'

8080 South Lake Shore Drive
Chicago, IL

PIONEER
Engineering & Environmental Services, LLC



EXPLORATION LOG LEGEND



LEGEND KEY

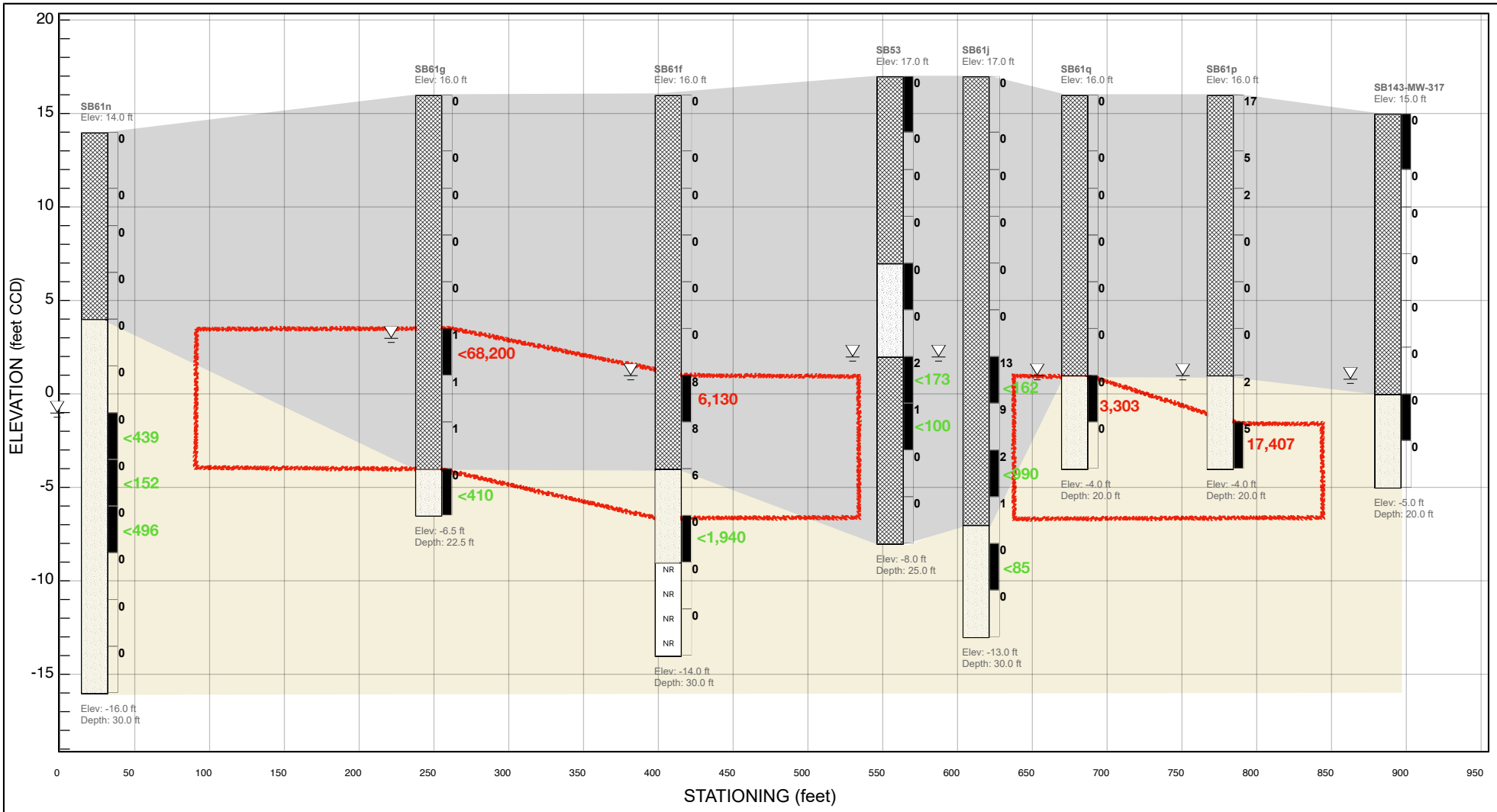
- CL
- Fill
- NR — No_Recovery
- SP
- Estimated Extent of TPH Soil Attenuation Impact

Note: Stratigraphy and Extent of TPH Impacts are approximate and inferred where borings are not present

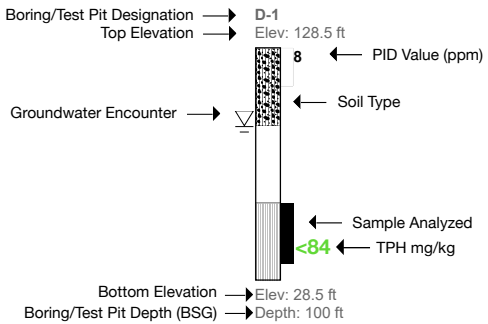
FIGURE 11G
TPH (Hotspot 5) Cross Section G-G'

8080 South Lake Shore Drive
Chicago, IL

PIONEER
Engineering & Environmental Services, LLC



EXPLORATION LOG LEGEND



LEGEND KEY

- Fill
- NR No_Recovery
- SP
- Estimated Extent of TPH Soil Attenuation Impact

Note: Stratigraphy and Extent of TPH Impacts are approximate and inferred where borings are not present

FIGURE 11H
TPH (Hotspot 5) Cross Section H-H'

8080 South Lake Shore Drive
Chicago, IL

PIONEER
Engineering & Environmental Services, LLC

North

SB112 0-3'
SB37 0-3' 12.5-15
SB38 0-3' 12.5-15'
SB40 0-3' 5-7.5'
SB50 0-3' 7.5-10'
SB39 0-3' 7.5-10'
SB42/ MW-312 0-3' 7.5-10' GW
SB41 0-3' 5-7.5'
SB49 0-3' 10-12.5'
SB60 0-3' 7.5-10'
MW-101 GW
SB43 0-3' 10-12.5'
SB47 0-3' 7.5-10'
SB48 0-3' 5-7.5'
SB59 0-3' 5-7.5'
SB97 0-3' 5-7.5'
SB96 0-3' 7.5-10'
SB87 0-3' 3-5'
SB86 0-3' 7.5-10'
SB79 0-3' 5-7.5'
SB98/ MW-311 0-3' 7.5-10' GW
SB78/ MW-309 0-3' 10-12.5' GW
GW MW-102
SB44 0-3' 5-7.5'
SB45 0-3' 5-7.5'
SB46 0-3' 3-5'
SB58 0-3' 10-12.5'
SG-3
MW-102D GW
SB95 0-3' 5-7.5'
SB88 0-3' 7.5-10'
SB85 0-3' 10-12.5'
SB80 0-3' 3-5'
LAKE MICHIGAN
MW-102D GW: VC
Groundwater Impact to be Addressed Through Future Remediation and/ or Modeling
SB56
SB57 0-3' 7.5-10'
SB56 0-3' 5-7.5'
SB99 0-3' 10-12.5'
SB94 0-3' 12.5-15'
SB89 0-3' 3-5'
SB84 0-3' 5-7.5'
SB81 0-3' 7.5-10'
SB77 0-3' 5-7.5'
EAST 83RD STREET
SB56 5-7.5' [2-HEX]
2-HEX at SB56 L & Sw = 770'
R26 Result: X = 55'
SB11/ MW-314 0-3' 5-7.5' GW
SB100 0-3' 3-5'
SB93 0-3' 5-7.5'
SB90/ MW-310 0-3' 7.5-10' GW
SB83 0-3' 3-5'
SB82 0-3' 5-7.5'
SB76 0-3' 7.5-10'
MW-104
MW-104D GW
SB10b
SB101 0-3' 12.5-15'
SB104 0-3'
SB91 0-3' 12.5-15'
SB92 0-3' 3-5'
SB107 0-3' 7.5-10'
SB10e
SB10c
SB10(a) 0-3' 5-7.5'
SB102 0-3' 7.5-10'
SB75/ MW-307 GW
SB10d
SB9 0-3' 7.5-10'
SB103 0-3' 5-7.5'
SB106 0-3'
SB108 0-3'
SB105 0-3' 10-12.5'
SB110/ MW-308 0-3' 5-7.5' GW
SB109 0-3' 5-7.5'
NSGP-1
NORTH SLIP
SB128 SB52 0-3' 7.5-10' SB129 0-3' 12.5-15' SB144 0-3' 5-7.5'
SB143/ MW-317 0-3' 15-17.5 GW
SB54 0-3' [2-HEX] 10-12.5' [2-HEX]
SB53 0-3' [2-HEX]
SB54 0-3' 10-12.5'
SB53 0-3' 10-12.5'
SB119
MW-202 GW
SG-2
MW-202 GW: B, Naph
Groundwater Impacts Modeled Separately; See Figure 16
0-3' 17.5-19' GW
SB61(a)/ MW-318
SB61(a) 0-3' [2-HEX] 17.5-19' [2-HEX, MC]
INSET
MC & 2-HEX at SB2 L & Sw = 670'
R26 Result: Max. X = 79'
SG-1
SB2 3-5' MC, [2-HEX]
SB2 0-3' 3-5'
DRIVE
SHORE
LAKE
SOUTH
SB136
SB8 0-3' 5-7.5'
SB139
SB140
SB4 0-3' 7.5-10'
SB7 0-3' 10-12.5'
SB137
EW-3 GW
SB1 0-3' 5-7.5'
SB142
SB138
NMW-4 GW
SB141
SB6 0-3' 3-5'
SB3 0-3' 5-7.5'
SB5 0-3' 5-7.5'
EAST 87TH STREET
SB113 0-3' 10-12.5'
SB114 0-3' 7.5-10'
SB115/ MW-315 0-3' 5-7.5' GW
SB116 0-3' 12.5-15'
SB117 0-3' 5-7.5'
SB17 0-3' 5-7.5'
SB16 0-3' 3-5'
SB15 0-3' 7.5-10'
SB14/ MW-301 0-3' 10-12.5' GW
SB13 0-3' 5-7.5'
SB12 0-3' 7.5-10'
MW-106 GW
SB17 0-3' [2-HEX]
MC at SB30, SB51 & SB61 L & Sw = 1,555'
R26 Result: Max. X = 3'
SB18 0-3' 7.5-10'
SB19 0-3' 5-7.5'
SB20 0-3' 3-5'
SB18 0-3' [2-HEX]
SB19 0-3' [2-HEX]
SB20 3-5' [2-HEX]
SB145 0-3'
SB111 0-3' 3-5'
SB130
SB34 5-7.5' [2-HEX]
SB135
SB33 0-3' 5-7.5'
SB23 0-3' 5-7.5'
SB22 0-3' 10-12.5'
SB21(a) 0-3' 12.5-15'
SB31 0-3' 7.5-10'
SB32 0-3' 5-7.5'
SB34 0-3' 5-7.5'
SB21 0-3' [2-HEX] 12.5-15' [2-HEX]
SB35 0-3' 7.5-10'
SB30 0-3' 12.5-15
SB132
SB131
SB30 12.5-15' [2-HEX, MC]
SB36/ MW-304 0-3' 5-7.5' GW
SB120 0-3' 5-7.5'
SB121 0-3' 5-7.5'
SB122 0-3' 15-17.5'
SB124 0-3'
SB126 0-3' 5-7.5'
SB127/ MW-316 GW
SB125 0-3' 7.5-10'
SB123 0-3' 5-7.5'
SB25 0-3' 7.5-10'
SB24/ SB134/ MW-313
MW-204 GW
SB133
SB26/ MW-302
SB118
SB27 0-3' 5-7.5'
SB27 0-3' 5-7.5' [2-HEX]
SB28 0-3' 7.5-10'
SB28 0-3' [2-HEX]
SB29
SB51/ MW-303 0-3' 5-7.5' GW
SB51 0-3'[2-HEX,MC]
SB128 SB52 SB129 SB144 SB143/ MW-317 SB54 SB53 SB119 MW-202 SG-2 SB61(a)/ MW-318
SEE INSET
SB70(a) 0-3' 12.5-15'
SB69 0-3' 3-5'
SB68 0-3' 7.5-10'
SB55 0-3' 5-7.5'
SSGP-1
"O"
AVENUE
SOUTH
SOUTH SLIP
SB71 0-3'
SB72 0-3' 7.5-10'
SB67 0-3' 3-5'
SB67 3-5' [2-HEX]
SB64 0-3' 7.5-10'
SB62/ MW-305 0-3' 7.5-10' GW
SB63 0-3' 5-7.5'
SB66 0-3' 5-7.5'
SB65/ MW-306 0-3' 7.5-10' GW
2-HEX (multiple samples) L & Sw = 3,490'
SB73 0-3' 5-7.5'
CALUMET RIVER
EAST 91ST STREET
SB74 0-3' 3-5'
2-HEX at SB67 L & Sw = 1,220'
R26 Result: X = 79'
R26 Results:
SB17: X = 59'
SB18: X = 53'
SB19: X = 63'
SB20: X = 60'
SB21: Max. X = 59'
SB27: X = 60'
SB28: X = 53'
SB31: Max. X = 121'
SB34: X = 46'
SB51: Max. X = 116'
SB53: X = 82'
SB54: Max. X = 82'
SB61: Max. X = 114'

Legend:
- Approximate Property Line
- Soil Boring Location (Pioneer 2024/ 2025)
- Monitoring Well Location (Pioneer 2024/ 2025)
- Soil Gas Sample Location (Pioneer 2025)
- Existing Monitoring Well Location
- Vessel Slip Gauging Point (Pioneer 2025)

(0-3') = soil sample interval
(GW) = groundwater sample
[ ] = indicates COC not detected, but detection limit > applicable Tier 1 SRO
2-HEX = 2-hexanone
B = benzene
MC = methylene chloride
Naph = naphthalene
VC = vinyl chloride

Monitoring wells are analytically clean unless specified otherwise

Borings not highlighted indicate sample not analyzed for VOCs

= COCs above Class II groundwater

= COCs below applicable objectives for Class II groundwater

= estimated source area

= line showing the ~longest dimension of the source area

R26 Result: X = 48' ⟶ = calculated distance to achieve the applicable Tier 1 GRO

PIONEER
Engineering & Environmental Services, LLC

Scale: 1" = 550' (0' – 550')	Date: August 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 12
Migration to Groundwater Modeling Source Areas - VOCs
8080 South Lake Shore Drive
Chicago, IL

North

PNAs & Carb. at SB41 & SB48
L & Sw = 1,375'

R26 Results:
SB41: Max. X = 55'
SB48: Max. X = 66'

Carb. at SB87
L & Sw = 775'

The S18 calculation indicates the predicted groundwater concentration is less than the applicable Tier 1 GRO.

SB41
0-3' PNAs, Carb.

SB48
5-7.5' PNAs, Carb.

SB87
0-3' Carb.

SB10(a)
3-5' PNAs, Carb, DBF

NOTE: these contaminants will be addressed through conventional remediation; any residual impacts that exceed the applicable Tier 1 SROs for migration to Class II groundwater will be addressed in the eventual RACR

PNAs & Carb. at SB115
L & Sw = 910'

R26 Results:
SB115: Max. X = 172'

SB115
0-3' PNAs
5-7.5' PNAs, Carb.

PNAs at B-2 & B-2W20
L & Sw = 940'

R26 Results:
B-2: X = 42'
B-2W20: Max. X = 118'

B-2 & B-2W20
7-9' PNAs

SB124 & SS-113
0-3' PNAs

PNAs at SS-113 & SB124
L & Sw = 660'

R26 Results:
SS-113: Max. X = 76'
The S18 calculation indicates the predicted groundwater concentrations at SB124 are less than the applicable Tier 1 GRO.

SS-012
0-0.5' PNAs

PNA at SS-012
L & Sw = 1,035'

The S18 calculation indicates the predicted groundwater concentration is less than the applicable Tier 1 GRO.

SS-010, E20, S20 & W20
0-0.5' PNAs

PNAs at SS-010
L & Sw = 1,100'

R26 Results:
SS-010S20: X = 26'
The S18 calculation indicates the predicted groundwater concentrations at SS-010, E20 and W20 are less than the applicable Tier 1 GRO.

EAST 83RD STREET
EAST 87TH STREET
EAST 91ST STREET
LAKE SHORE DRIVE
NORTH SLIP
SOUTH SLIP
"O" AVENUE
SOUTH CHICAGO
CALUMET RIVER
LAKE MICHIGAN

Legend:
- Approximate Property Line
- Soil Boring Location (Pioneer 2024/ 2025)
- Monitoring Well Location (Pioneer 2024/ 2025)
- Soil Gas Sample Location (Pioneer 2025)
- Existing Monitoring Well Location
- Vessel Slip Gauging Point (Pioneer 2025)

(0-3') = soil sample interval
GW = groundwater sample
Carb = carbazole
DBF = dibenzofuran
PNAs = polynuclear aromatic hydrocarbons

Monitoring wells do not exhibit any SVOCs / PNAs above applicable Tier 1 GROs

Borings not highlighted indicate sample not analyzed for SVOCs / PNAs

= COCs above Class II groundwater

= COCs below applicable objectives for Class II groundwater

= estimated source area

= line showing the ~longest dimension of the source area

R26 Result: X = 48'⟶ = calculated distance to achieve the applicable Tier 1 GRO

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Scale: 1" = 550' (0' – 550')	Date: July 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 13
Migration to Groundwater Modeling Source Areas - SVOCs
8080 South Lake Shore Drive
Chicago, IL

North

V at SB78, SB84, SB90, SB92, SB94 & SB98
Sw = 2,805'

R26 Results:
SB78: X = 55'
SB84: X = 62'
SB90: X = 74'
SB92: X = 62'
SB94: X = 48'
SB98: X = 80'

V at SB76
Sw = 850'

R26 Result:
X = 48'

V at SB108
Sw = 775'

R26 Result:
X = 39'

V at SB13
Sw =850'

R26 Result:
X = 48'

LAKE MICHIGAN

INSET

EAST 87TH STREET

EAST 91ST STREET

NORTH SLIP

SOUTH SHORE DRIVE

"O" AVENUE SOUTH

SOUTH SLIP

CALUMET RIVER

SEE INSET

Legend:
- Approximate Property Line
- Soil Boring Location (Pioneer 2024/ 2025)
- Monitoring Well Location (Pioneer 2024/ 2025)
- Soil Gas Sample Location (Pioneer 2025)
- Existing Monitoring Well Location
- Vessel Slip Gauging Point (Pioneer 2025)

(0-3') = soil sample interval
(GW) = groundwater sample
V = vanadium

Monitoring wells do not exhibit any inorganics above applicable Tier 1 GROs
Borings not highlighted indicate sample not analyzed for inorganics

- = COCs above Class II groundwater
- = COCs below applicable objectives for Class II groundwater
- = estimated source area
- = line showing the ~longest dimension of the source area

R26 Result: X = 48' → = calculated distance to achieve the applicable Tier 1 GRO

PIONEER
Engineering & Environmental Services, LLC

Scale: 1" = 550' (0' – 550')	Date: July 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 14
Migration to Groundwater Modeling Source Areas - Inorganics
8080 South Lake Shore Drive
Chicago, IL

North

SB112 0-3’
SB37 0-3’ 12.5-15
SB38 0-3’ 12.5-15’
SB40 0-3’ 5-7.5’
SB50 0-3’ 7.5-10’
SB39 0-3’ 7.5-10’
SB42/ MW-312 0-3’ 7.5-10’ GW
SB41 0-3’ 5-7.5’
SB49 0-3’ 10-12.5’
SB60 0-3’ 7.5-10’
MW-101 GW
SB43 0-3’ 10-12.5’
SB47 0-3’ 7.5-10’
SB48 0-3’ 5-7.5’
SB59 0-3’ 5-7.5’
SB97 0-3’ 5-7.5’
SB96 0-3’ 7.5-10’
SB87 0-3’ 3-5’
SB86 0-3’ 7.5-10’
SB79 0-3’ 5-7.5’
SB98/ MW-311 0-3’ 7.5-10’ GW
SB78/ MW-309 0-3’ 10-12.5’ GW
LAKE MICHIGAN
GW MW-102
SG-3
GW MW-102D
SB44 0-3’ 5-7.5’
SB45 0-3’ 5-7.5’
SB46 0-3’ 3-5’
SB58 0-3’ 10-12.5’
SB95 0-3’ 5-7.5’
SB88 0-3’ 7.5-10’
SB85 0-3’ 10-12.5’
SB80 0-3’ 3-5’
SB56 0-3’ 5-7.5’
SB57 0-3’ 7.5-10’
SB99 0-3’ 10-12.5’
SB94 0-3’ 12.5-15’
SB89 0-3’ 3-5’
SB84 0-3’ 5-7.5’
SB81 0-3’ 7.5-10’
SB77 0-3’ 5-7.5’
EAST 83RD STREET
SB11/ MW-314 0-3’ 5-7.5’ GW
SB100 0-3’ 3-5’
SB93 0-3’ 5-7.5’
SB90/ MW-310 0-3’ 7.5-10’ GW
SB83 0-3’ 3-5’
SB82 0-3’ 5-7.5’
SB76 0-3’ 7.5-10’
MW-104
MW-104D GW
SB10b
SB10e
SB10c
0-3’ 5-7.5’ SB10(a)
SB10d
SB101 0-3’ 12.5-15’
SB104 0-3’
SB91 0-3’ 12.5-15’
SB92 0-3’ 3-5’
SB107 0-3’ 7.5-10’
0-3’ 5-7.5’ GW SB75/ MW-307
SB102 0-3’ 7.5-10’
SB9 0-3’ 7.5-10’
SB103 0-3’ 5-7.5’
SB106 0-3’
SB108 0-3’
SB110/ MW-308 0-3’ 5-7.5’ GW
SB105 0-3’ 10-12.5’
SB109 0-3’ 5-7.5’
NSGP-1
SG-1 0-3’ 3-5’
SB2
DRIVE
SHORE
LAKE
SOUTH
NORTH SLIP
SB113 0-3’ 10-12.5’
SB114 0-3’ 7.5-10’
SB115/ MW-315 0-3’ 5-7.5’ GW
SB116 0-3’ 12.5-15’
SB117 0-3’ 5-7.5’
SB136
0-3’ 7.5-10’ SB139
SB140
SB4
SB8 0-3’ 5-7.5’
SB7 0-3’ 10-12.5’
SB137
EW-3 GW
SB1 0-3’ 5-7.5’
SB17 0-3’ 5-7.5’
SB16 0-3’ 3-5’
SB15 0-3’ 7.5-10’
SB14/ MW-301 0-3’ 10-12.5’ GW
SB13 0-3’ 5-7.5’
SB12 0-3’ 7.5-10’
MW-106 GW
SB142
SB138
NMW-4 GW
SB141
SB6 0-3’ 3-5’
SB3 0-3’ 5-7.5’
SB5 0-3’ 5-7.5’
SB18 0-3’ 7.5-10’
SB19 0-3’ 5-7.5’
SB20 0-3’ 3-5’
SB111
0-3’ 3-5’
SB145 0-3’
SB130
EAST 87TH STREET
SB135
0-3’ SB120
0-3’ SB121
SB122 0-3’ 15-17.5’
SB124
0-3’ SB33 5-7.5’
SB23 0-3’ 5-7.5’
SB22 0-3’ 10-12.5’
SB21(a) 0-3’ 12.5-15’
SB31 0-3’ 7.5-10’
SB32 0-3’ 5-7.5’
SB34 0-3’ 5-7.5’
SB35 0-3’ 7.5-10’
SB132
SB131
SB30 0-3’ 12.5-15’
SB36/ MW-304 0-3’ 5-7.5’ GW
SB126 0-3’ 5-7.5’
0-3’ 5-7.5’ GW SB127/ MW-316
SB25 0-3’ 3-5’
SB26/ MW-302 0-3’ 7.5-10’ GW
SB118
SB27 0-3’ 5-7.5’
SB133
0-3’ 10-12.5’ SB28
SB29
0-3’ 7.5-10’ SB51/ MW-303 0-3’ 5-7.5’ GW
SB128
SB129
SB144 0-3’ 12.5-15’
SB52 0-3’ 7.5-10
SB143/ MW-317 0-3’ 15-17.5’ GW
SB125 0-3’ 7.5-10’
SB123 0-3’ 5-7.5’
SB24/ SB134/ MW-313
MW-204 GW
SB55 0-3’ Dieldrin
SB55 0-3’ 5-7.5’
SB54 0-3’ 10-12.5’
SB53 0-3’ 10-12.5’
SB119
MW-202 GW
SG-2
SB70(a) 0-3’ 12.5-15’ 17.5-20’
SB69 0-3’ 3-5’
0-3’ 7.5-10’ SB68
SSGP-1
"O"
AVENUE
SOUTH
SOUTH SLIP
SB71 0-3’
SB72 0-3’ 7.5-10’
SB67 0-3’ 3-5’
SB64 0-3’ 7.5-10’
SB62/ MW-305 0-3’ 7.5-10’ GW
SB61(a)/ MW-318 0-3’ 17.5-19’ GW
SB63 0-3’ 5-7.5’
SB66 0-3’ 5-7.5’
SB65/ MW-306 0-3’ 7.5-10’ GW
SB73 0-3’ 5-7.5’
CALUMET RIVER
EAST 91ST STREET
SB74 0-3’ 3-5’

Dieldrin at SB55 L & Sw = 990’

The S18 calculation indicates the predicted groundwater concentration is less than the applicable Tier 1 GRO.

Legend:
- Approximate Property Line
- Soil Boring Location (Pioneer 2024/ 2025)
- Monitoring Well Location (Pioneer 2024/ 2025)
- Soil Gas Sample Location (Pioneer 2025)
- Existing Monitoring Well Location
- Vessel Slip Gauging Point (Pioneer 2025)

(0-3’) = soil sample interval

GW = groundwater sample

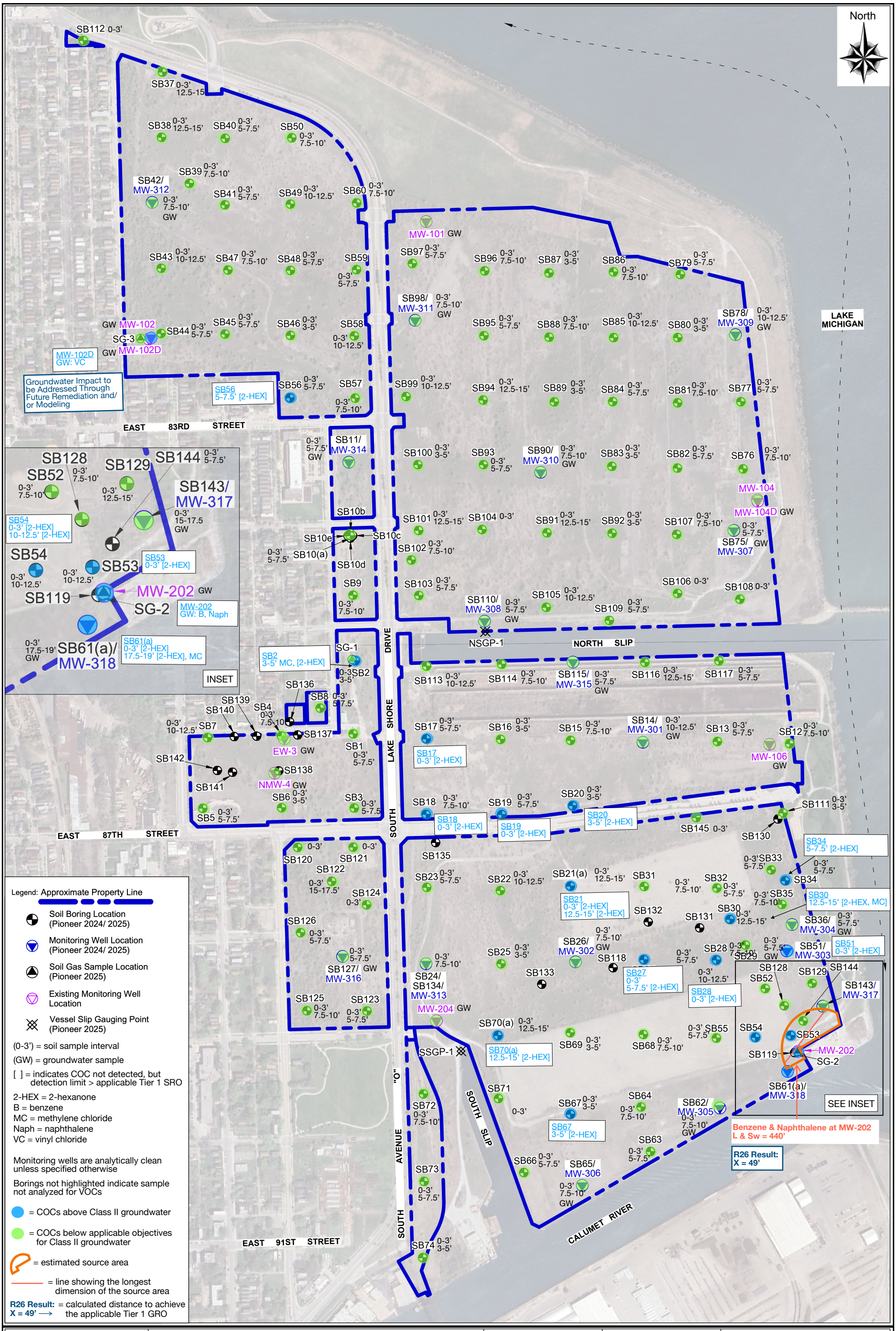
Monitoring wells do not exhibit any Pesticides above applicable Tier 1 GROs

- = COCs above Class II groundwater
- = COCs below applicable objectives for Class II groundwater
- = estimated source area
- = line showing the ~longest dimension of the source area

PIONEER
Engineering & Environmental Services, LLC

Scale: 1" = 550' (0' – 550')	Date: July 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 15
Migration to Groundwater Modeling Source Area - Pesticides
8080 South Lake Shore Drive
Chicago, IL



PIONEER
Engineering & Environmental Services, LLC

Scale: 1" = 550' (0' – 550')	Date: July 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 16
Groundwater Modeling Source Areas - Benzene/Naphthalene
8080 South Lake Shore Drive
Chicago, IL

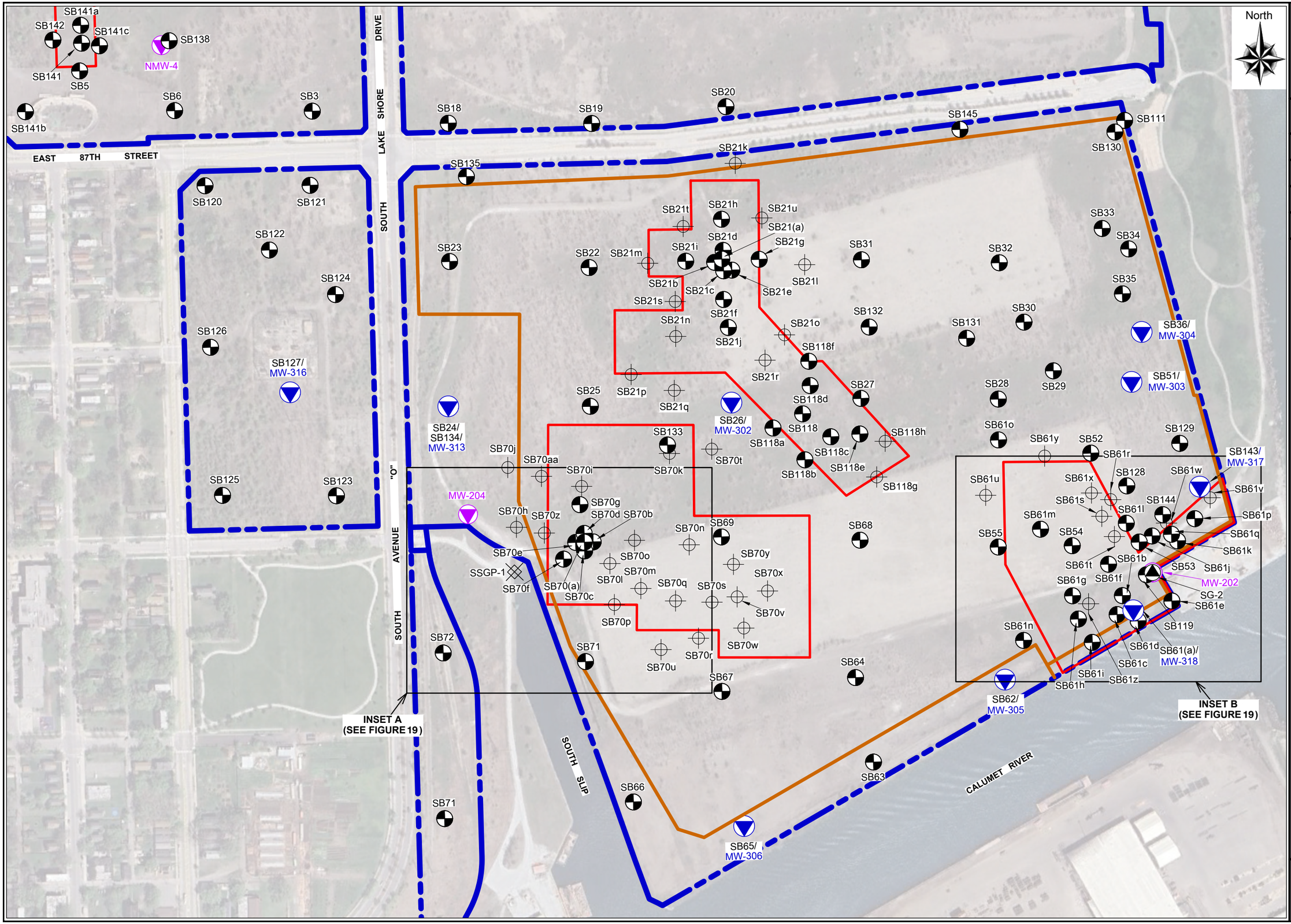


FIGURE 17
Hybrid Slurry Wall Alignment
8080 South Lake Shore Drive
Chicago, IL

Scale: 1" = 300'
0' 300'

Drawn by: M. S. Valadez

Job No: 24-0124-103

Date: August 2025

Checked by: Jacob Hartsock

Legend:

- Approximate Property Line
- Soil Boring Location (Pioneer 2024/2025)
- Monitoring Well Location (Pioneer 2024/2025)
- Soil Gas Location (Pioneer 2025)
- Test Pit Location (Pioneer 2025)
- Vessel Slip Gauging Point (Pioneer 2025)
- Existing Monitoring Well Location
- Estimated Extent of Current TPH Soil Attenuation Impacts
- Proposed Hybrid Slurry Wall

PIONEER
Engineering & Environmental Services, LLC

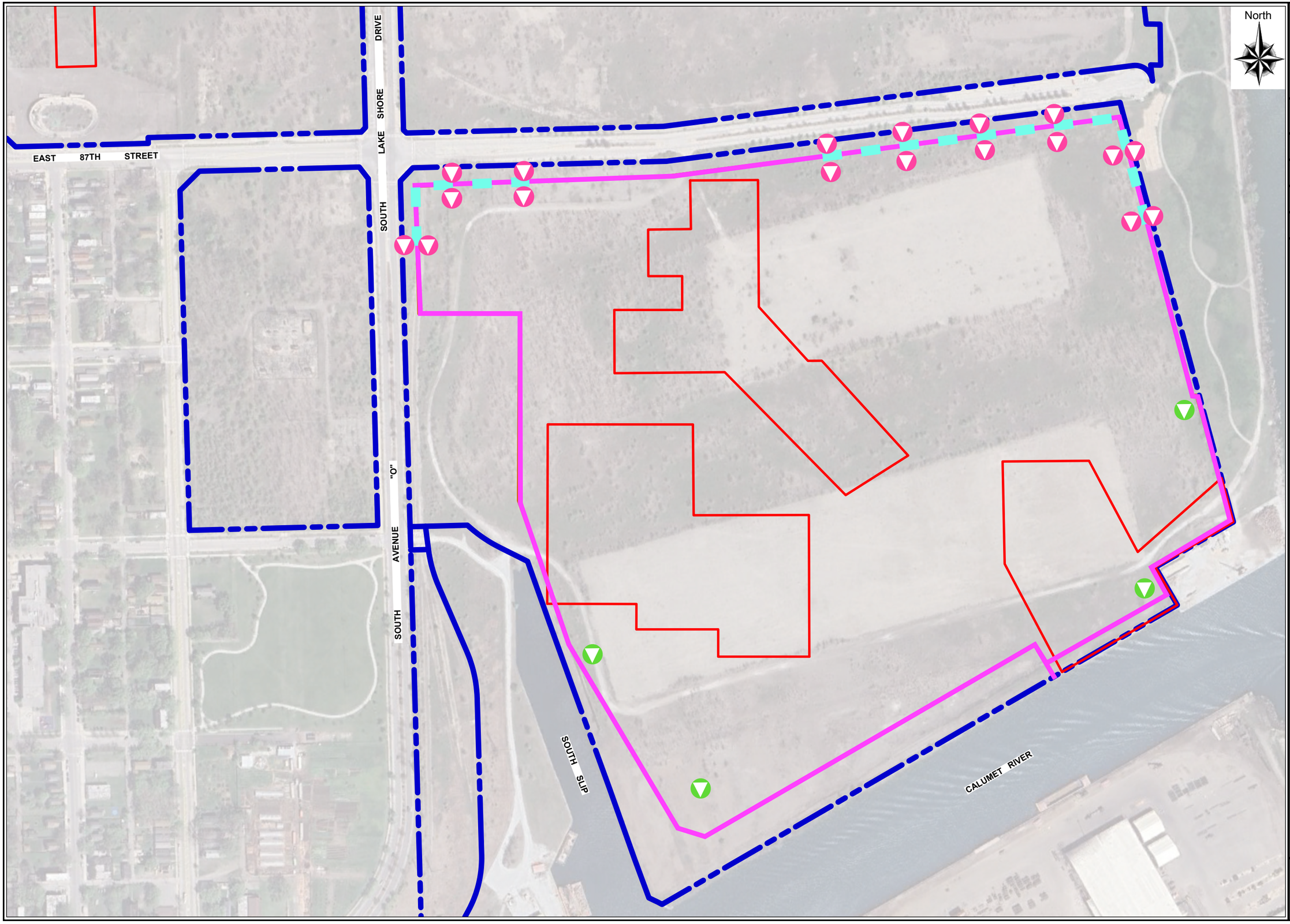


FIGURE 18
Post-Remedial Monitoring Well Locations
8080 South Lake Shore Drive
Chicago, IL

Scale: 1" = 300'
0' 300'

Drawn by: M. S. Valadez

Job No: 24-0124-103

Date: August 2025

Checked by: Jacob Hartsock

Legend:
- Approximate Property Line
- Estimated Extent of Current TPH Soil Attenuation Impacts
- Proposed Hybrid Slurry Wall
- Permeable Reactive Barrier (PRB) Gate
- Proposed PRB Gate Monitoring Well Location
- Proposed Hydraulic Control Monitoring Well Location

PIONEER
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INSET A

North

SB70aa
SB70i
SB70g
MW-204
SB70h
SB70z
SB70d
SB70e
SB70b
SB70c
SB70f
SB70(a)
SB70o
SB70n
SB70l
SSGP-1
SB70m
SB70q
SB70s
SB70p
SB70u
SB70r
SB72
SB71
SOUTH SLIP

INSET B

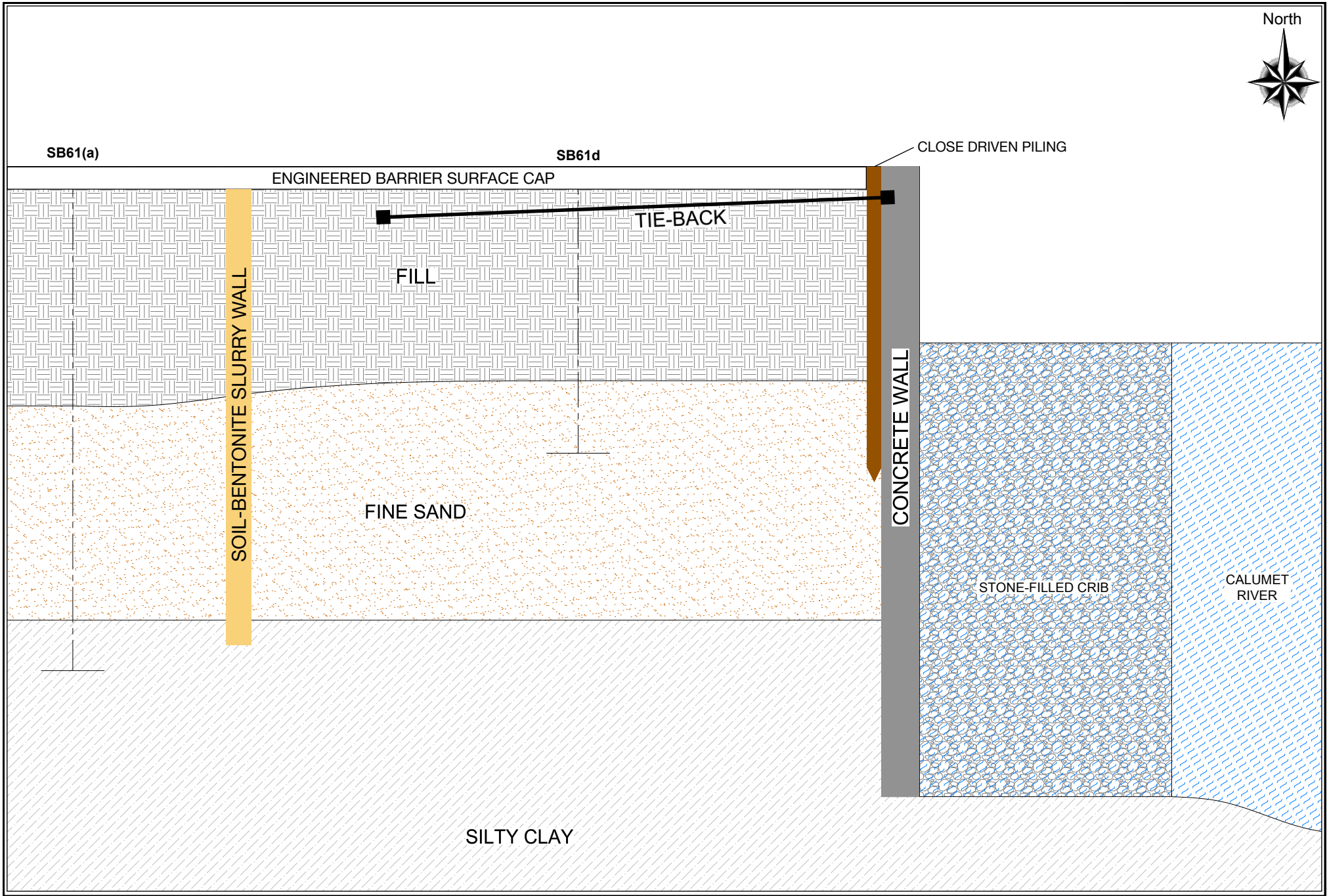
SB61y
SB52
SB143/
MW-317
SB128
SB61u
SB61x
SB61r
SB61v
SB144
SB61p
SB61s
SB61l
SB61w
SB61m
SB61t
SB61j
SB53
SB61q
SB55
SB54
SB61k
SB61f
SB119
MW-202
SG-2
SB61g
SB61z
SB61b
SB61(a)/
MW-318
SB61e
SB61c
SB61h
SB61d
SB61n
SB61i
CALUMET RIVER
SB62/
MW-305

Legend:
- Approximate Property Line
- Soil Boring Location (Pioneer 2024/2025)
- Monitoring Well Location (Pioneer 2024/2025)
- Soil Gas Location (Pioneer 2025)
- Test Pit Location (Pioneer 2025)
- Vessel Slip Gauging Point (Pioneer 2025)
- Existing Monitoring Well Location
- Impractical Remediation Area
- Estimated Extent of Current TPH Soil Attenuation Impacts
- Proposed Containment Wall
- Cross Section Line (See Figure 20)

PIONEER
Engineering & Environmental Services, LLC

Scale: 1" = 100' (0' – 100')	Date: August 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 19
Impractical Remediation Areas
8080 South Lake Shore Drive
Chicago, IL



PIONEER
Engineering & Environmental Services, LLC

Legend:

Scale: 1" = 10' (0' – 10')	Date: August 2025
Drawn by: M. S. Valadez	Checked by: Jacob Hartsock
Job No.: 24-0124-103	

FIGURE 20
Slurry Wall Cross Section
8080 South Lake Shore Drive
Chicago, IL

Table 1 Pioneer Soil Sample Analytical Results: VOCs

Table 2 Pioneer Soil Sample Analytical Results: SVOCs (excluding PNAs)

Table 3 Pioneer Soil Sample Analytical Results: PNAs

Table 4 Pioneer Soil Sample Analytical Results: TCL Metals & pH

Table 5 Pioneer Soil Sample Analytical Results: TCLP/SPLP Metals

Table 6 Pioneer Soil Sample Analytical Results: Pesticides

Table 7 Pioneer Soil Sample Analytical Results: PCBs

Table 8 Pioneer Soil Sample Analytical Results: TPH

Table 9 Pioneer Soil Sample Analytical Results: Total Sulfide

Table 10 Pioneer Soil Sample Analytical Results: Reactive Sulfide

Table 11 Pioneer Groundwater Sample Analytical Results: VOCs

Table 12 Pioneer Groundwater Sample Analytical Results: SVOCs (excluding PNAs)

Table 13 Pioneer Groundwater Sample Analytical Results: PNAs

Table 14 Pioneer Groundwater Sample Analytical Results: TCL Metals

Table 15 Pioneer Groundwater Sample Analytical Results: Pesticides

Table 16 Pioneer Groundwater Sample Analytical Results: PCBs

Table 17 Pioneer Soil Sample Analytical Results VOCs (TO-15)

Non-TACO SRO Calculation Spreadsheets

TABLE NO. 1 (1 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB1 (0-3)	SB1 (5-7.5)	SB2 (0-3)	SB2 (3-5)	SB3 (0-3)	SB3 (5-7.5)	SB4 (0-3)	SB4 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/28/24	8/28/24	8/28/24	8/28/24	8/28/24	8/28/24	8/28/24	8/28/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0009	<0.0009	<0.0010	<0.041	<0.0008	<0.0012	<0.0012	<0.0007	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0011	<0.0012	<0.0013	<0.059	<0.0010	<0.0015	<0.0015	<0.0009	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0008	<0.0009	<0.0009	<0.067	<0.0007	<0.0011	<0.0011	<0.0006	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0008	<0.0009	<0.0009	<0.033	<0.0007	<0.0011	<0.0011	<0.0007	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0009	<0.0010	<0.0010	<0.044	<0.0008	<0.0012	<0.0012	<0.0007	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0015	<0.0016	<0.0017	<0.053	<0.0013	<0.0019	<0.0019	<0.0012	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0005	<0.0006	<0.0006	<0.034	<0.0005	<0.0007	<0.0007	<0.0004	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0025	<0.0027	<0.0028	<0.28	<0.0023	<0.0032	<0.0033	<0.0020	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0034	<0.0037	<0.0039	**<0.27**	<0.0031	<0.0045	<0.0045	<0.0028	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0040	<0.0043	<0.0045	<0.25	<0.0037	<0.0052	<0.0053	<0.0033	--	--	--	--	--	--
Acetone	<0.0094	<0.010	<0.011	<0.67	<0.0087	0.023	<0.013	<0.0078	--	100,000	--	100,000	25	25
Benzene	<0.0007	<0.0007	<0.0008	0.020	<0.0006	<0.0009	<0.0009	<0.0005	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0007	<0.0007	<0.0008	<0.052	<0.0006	<0.0009	<0.0009	<0.0005	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0013	<0.0014	<0.0015	<0.088	<0.0012	<0.0017	<0.0017	<0.0011	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0028	<0.0030	<0.0031	<0.16	<0.0025	<0.0036	<0.0037	<0.0023	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0014	<0.0011	<0.0012	<0.099	<0.0009	<0.0014	<0.0014	<0.0008	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0007	<0.0008	0.0028	0.33	<0.0007	<0.0010	<0.0010	<0.0006	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0009	<0.0010	<0.0011	<0.038	<0.0008	<0.0012	<0.0013	<0.0007	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0018	<0.0020	<0.0021	<0.043	<0.0017	<0.0024	<0.0024	<0.0015	--	--	--	--	--	--
Chloroform	<0.0016	<0.0018	<0.0018	0.16	<0.0015	<0.0021	<0.0021	<0.0013	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0011	<0.0012	<0.0012	<0.072	<0.0010	<0.0014	<0.0014	<0.0009	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0009	<0.0009	<0.0010	<0.038	<0.0008	<0.0012	<0.0012	<0.0007	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0011	<0.0012	<0.0012	<0.058	<0.0009	<0.0014	<0.0014	<0.0008	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0010	<0.0011	<0.0012	<0.076	<0.0009	<0.0014	<0.0014	<0.0008	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0012	<0.0013	<0.0013	<0.016	<0.0011	<0.0015	<0.0016	<0.0009	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0007	<0.0007	<0.0008	<0.040	<0.0006	<0.0009	<0.0009	<0.0006	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0024	<0.0026	<0.0027	**0.35**	<0.0022	<0.0031	<0.0032	<0.0020	760	24	12,000	34	0.02	0.2
Styrene	<0.0010	<0.0011	<0.0011	<0.028	<0.0009	<0.0013	<0.0013	<0.0008	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0013	<0.0014	<0.0014	<0.036	<0.0012	<0.0016	<0.0017	<0.0010	110	20	2,400	28	0.06	0.3
Toluene	<0.0004	<0.0004	<0.0005	0.081	<0.0004	<0.0005	<0.0006	<0.0003	410,000	650	410,000	42	12	29
Total Xylenes	<0.0007	<0.0008	<0.0008	0.12	<0.0007	<0.0010	<0.0010	<0.0006	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0008	<0.0009	<0.0009	<0.040	<0.0007	<0.0011	<0.0011	<0.0007	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0006	<0.0006	<0.0006	0.054	<0.0005	<0.0008	<0.0008	<0.0005	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0009	<0.0010	<0.0010	<0.043	<0.0008	<0.0012	<0.0012	<0.0007	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (2 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB5 (0-3)	SB5 (5-7.5)	SB6 (0-3)	SB6 (3-5)	SB7 (0-3)	SB7 (10-12.5)	SB8 (0-3)	SB8 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/28/24	8/28/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0012	<0.0009	<0.0008	<0.0010	<0.0010	<0.0009	<0.0008	<0.0008	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0015	<0.0011	<0.0010	<0.0013	<0.0013	<0.0012	<0.0011	<0.0010	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0011	<0.0008	<0.0007	<0.0009	<0.0009	<0.0009	<0.0008	<0.0007	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0011	<0.0008	<0.0007	<0.0009	<0.0009	<0.0009	<0.0008	<0.0007	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0012	<0.0009	<0.0008	<0.0010	<0.0011	<0.0010	<0.0008	<0.0008	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0020	<0.0015	<0.0013	<0.0016	<0.0017	<0.0016	<0.0014	<0.0013	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0007	<0.0005	<0.0005	<0.0006	<0.0006	<0.0006	<0.0005	<0.0005	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0033	<0.0025	<0.0022	<0.0028	<0.0028	<0.0027	<0.0024	<0.0022	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0046	<0.0035	<0.0031	<0.0039	<0.0039	<0.0037	<0.0033	<0.0031	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0054	<0.0041	<0.0036	<0.0045	<0.0046	<0.0043	<0.0038	<0.0036	--	--	--	--	--	--
Acetone	0.028	<0.0096	<0.0085	0.016	<0.011	<0.010	<0.0090	<0.0085	--	100,000	--	100,000	25	25
Benzene	0.0017	<0.0007	<0.0006	0.0012	<0.0008	<0.0007	<0.0006	<0.0006	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0009	<0.0007	<0.0006	<0.0008	<0.0008	<0.0007	<0.0006	<0.0006	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0018	<0.0013	<0.0012	<0.0015	<0.0015	<0.0014	<0.0013	<0.0012	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0037	<0.0028	<0.0025	<0.0031	<0.0032	<0.0030	<0.0026	<0.0025	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0019	0.0017	0.0049	0.0039	0.0037	0.0039	<0.0009	<0.0009	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0010	<0.0007	<0.0006	<0.0008	<0.0008	<0.0008	<0.0007	<0.0006	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0013	<0.0009	<0.0008	<0.0011	<0.0011	<0.0010	<0.0009	<0.0008	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0025	<0.0019	<0.0017	<0.0021	<0.0021	<0.0020	<0.0018	<0.0017	--	--	--	--	--	--
Chloroform	<0.0022	<0.0016	<0.0015	<0.0018	<0.0018	<0.0018	<0.0015	<0.0015	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0015	<0.0011	<0.0009	<0.0012	<0.0012	<0.0012	<0.0010	<0.0009	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0012	<0.0009	<0.0008	<0.0010	<0.0010	<0.0009	<0.0008	<0.0008	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0015	<0.0011	<0.0009	<0.0012	<0.0012	<0.0012	<0.0010	<0.0009	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0014	<0.0011	<0.0009	<0.0012	<0.0012	<0.0011	<0.0010	<0.0009	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	0.0023	<0.0012	<0.0011	0.0043	<0.0014	<0.0013	<0.0011	<0.0011	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0009	<0.0007	<0.0006	<0.0008	<0.0008	<0.0007	<0.0006	<0.0006	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0032	<0.0024	<0.0022	<0.0027	<0.0027	<0.0026	<0.0023	<0.0022	760	24	12,000	34	0.02	0.2
Styrene	<0.0014	<0.0010	<0.0009	<0.0011	<0.0012	<0.0011	<0.0009	<0.0009	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0017	<0.0013	<0.0011	<0.0014	<0.0014	<0.0014	<0.0012	<0.0011	110	20	2,400	28	0.06	0.3
Toluene	0.0031	0.00047	<0.0004	0.0040	0.00058	0.0011	<0.0004	<0.0004	410,000	650	410,000	42	12	29
Total Xylenes	0.0026	<0.0007	<0.0006	0.0049	<0.0008	<0.0008	<0.0007	<0.0006	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0011	<0.0008	<0.0007	<0.0009	<0.0009	<0.0009	<0.0008	<0.0007	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0008	<0.0006	<0.0005	<0.0006	<0.0007	<0.0006	<0.0005	<0.0005	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0012	<0.0009	<0.0008	<0.0010	<0.0011	<0.0010	<0.0008	<0.0008	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (3 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB9 (0-3)	SB9 (7.5-10)	SB10 (0-3)	SB10 (5-7.5)	SB11 (0-3)	SB11 (5-7.5)	SB12 (0-3)	SB12 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0012	<0.0008	<0.0011	<0.0008	<0.0011	<0.0011	<0.0009	<0.0008	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0015	<0.0011	<0.0014	<0.0010	<0.0013	<0.0013	<0.0011	<0.0011	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0011	<0.0008	<0.0010	<0.0007	<0.0009	<0.0009	<0.0008	<0.0008	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0011	<0.0008	<0.0010	<0.0007	<0.0010	<0.0009	<0.0008	<0.0008	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0012	<0.0009	<0.0011	<0.0008	<0.0011	<0.0011	<0.0009	<0.0008	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0019	<0.0014	<0.0018	<0.0013	<0.0017	<0.0017	<0.0015	<0.0014	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0005	<0.0005	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0032	<0.0024	<0.0030	<0.0022	<0.0029	<0.0029	<0.0025	<0.0024	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0045	<0.0033	<0.0042	<0.0031	<0.0040	<0.0040	<0.0035	<0.0033	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0052	<0.0039	<0.0049	<0.0036	<0.0047	<0.0047	<0.0041	<0.0039	--	--	--	--	--	--
Acetone	<0.012	<0.0092	<0.012	<0.0086	<0.011	<0.011	<0.0097	<0.0091	--	100,000	--	100,000	25	25
Benzene	<0.0009	<0.0006	0.0017	<0.0006	<0.0008	<0.0008	<0.0007	<0.0006	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0009	<0.0007	<0.0008	<0.0006	<0.0008	<0.0008	<0.0007	<0.0007	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0017	<0.0013	<0.0016	<0.0012	<0.0015	<0.0015	<0.0013	<0.0013	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0036	<0.0027	<0.0034	<0.0025	<0.0033	<0.0032	<0.0028	<0.0027	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.0014	<0.0010	0.0017	<0.0009	<0.0012	0.0024	<0.0011	<0.0010	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0010	<0.0007	<0.0009	<0.0006	<0.0009	<0.0009	<0.0007	<0.0007	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0012	<0.0009	<0.0012	<0.0008	<0.0011	<0.0011	<0.0009	<0.0009	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0024	<0.0018	<0.0023	<0.0017	<0.0022	<0.0022	<0.0019	<0.0018	--	--	--	--	--	--
Chloroform	<0.0021	<0.0016	<0.0020	<0.0015	<0.0019	<0.0019	<0.0017	<0.0016	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0014	<0.0011	<0.0013	<0.0009	<0.0013	<0.0013	<0.0011	<0.0011	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0012	<0.0008	<0.0011	<0.0008	<0.0011	<0.0011	<0.0009	<0.0008	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0014	<0.0011	<0.0013	<0.0009	<0.0013	<0.0013	<0.0011	<0.0010	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0014	<0.0010	<0.0013	<0.0009	<0.0012	<0.0012	<0.0011	<0.0010	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0016	<0.0012	<0.0014	<0.0011	<0.0014	<0.0014	<0.0012	<0.0011	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0009	<0.0007	<0.0008	<0.0006	<0.0008	<0.0008	<0.0007	<0.0007	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0032	<0.0023	<0.0029	<0.0022	<0.0028	<0.0028	<0.0025	<0.0023	760	24	12,000	34	0.02	0.2
Styrene	<0.0013	<0.0009	<0.0012	<0.0009	<0.0012	<0.0012	<0.0010	<0.0009	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0017	<0.0012	<0.0015	0.0013	<0.0015	0.0015	<0.0013	<0.0012	110	20	2,400	28	0.06	0.3
Toluene	<0.0005	<0.0004	<0.0005	<0.0004	<0.0005	0.00057	<0.0004	<0.0004	410,000	650	410,000	42	12	29
Total Xylenes	<0.0010	<0.0007	0.0027	<0.0007	<0.0009	<0.0009	<0.0007	<0.0007	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0011	<0.0008	<0.0010	<0.0007	<0.0010	<0.0009	<0.0008	<0.0008	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0008	<0.0006	<0.0007	<0.0005	<0.0007	<0.0007	<0.0006	<0.0005	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0012	<0.0008	<0.0011	<0.0008	<0.0011	<0.0011	<0.0009	<0.0008	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (4 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB13 (0-3)	SB13 (5-7.5)	SB14 (0-3)	SB14 (10-12.5)	SB15 (0-3)	SB15 (7.5-10)	SB16 (0-3)	SB16 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0007	<0.0008	<0.0006	<0.0012	<0.0009	<0.0009	<0.0007	<0.0008	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0009	<0.0011	<0.0007	<0.0014	<0.0011	<0.0011	<0.0008	<0.0010	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0006	<0.0008	<0.0005	<0.0011	<0.0008	<0.0008	<0.0006	<0.0007	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0007	<0.0008	<0.0005	<0.0011	<0.0008	<0.0008	<0.0006	<0.0007	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0007	<0.0008	<0.0006	<0.0012	<0.0009	<0.0009	<0.0007	<0.0008	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0012	<0.0014	<0.0009	<0.0019	<0.0015	<0.0014	<0.0012	<0.0013	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0004	<0.0005	<0.0003	<0.0007	<0.0006	<0.0005	<0.0004	<0.0005	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0020	<0.0024	<0.0016	<0.0032	0.0073	<0.0024	<0.0020	<0.0023	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0028	<0.0033	<0.0023	<0.0044	<0.0035	<0.0034	<0.0027	<0.0031	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0033	<0.0039	<0.0026	<0.0051	<0.0041	<0.0040	<0.0032	<0.0037	--	--	--	--	--	--
Acetone	0.0099	<0.0091	<0.0062	<0.012	0.015	<0.0093	<0.0075	<0.0086	--	100,000	--	100,000	25	25
Benzene	<0.0005	<0.0006	<0.0004	<0.0009	<0.0007	<0.0007	<0.0005	<0.0006	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0006	<0.0007	<0.0004	<0.0009	<0.0007	<0.0007	<0.0005	<0.0006	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0011	<0.0013	<0.0008	<0.0017	<0.0013	<0.0013	<0.0010	<0.0012	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0023	<0.0027	<0.0018	<0.0035	<0.0028	<0.0027	<0.0022	<0.0025	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0012	0.0020	<0.0006	0.0020	0.0015	<0.0010	<0.0008	<0.0009	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0006	<0.0007	<0.0005	<0.0009	<0.0007	<0.0007	<0.0006	<0.0007	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0007	<0.0009	<0.0006	<0.0012	<0.0009	<0.0009	<0.0007	<0.0008	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0015	<0.0018	<0.0012	<0.0024	<0.0019	<0.0018	<0.0015	<0.0017	--	--	--	--	--	--
Chloroform	<0.0013	<0.0016	<0.0011	<0.0021	<0.0017	<0.0016	<0.0013	<0.0015	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0009	<0.0011	<0.0007	<0.0014	<0.0011	<0.0011	<0.0008	<0.0010	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0007	<0.0008	<0.0006	<0.0012	<0.0009	<0.0009	<0.0007	<0.0008	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0008	<0.0010	<0.0007	<0.0014	<0.0011	<0.0011	<0.0008	<0.0009	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0008	<0.0010	<0.0006	<0.0013	<0.0011	<0.0010	<0.0008	<0.0009	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0009	<0.0011	<0.0007	<0.0015	<0.0012	<0.0012	<0.0009	<0.0011	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0006	<0.0007	<0.0004	<0.0009	<0.0007	<0.0007	<0.0005	<0.0006	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0020	<0.0023	<0.0016	<0.0031	<0.0025	<0.0024	<0.0019	<0.0022	760	24	12,000	34	0.02	0.2
Styrene	<0.0008	<0.0009	<0.0006	<0.0013	<0.0010	<0.0010	<0.0008	<0.0009	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0010	<0.0012	<0.0008	<0.0016	<0.0013	<0.0012	<0.0010	<0.0012	110	20	2,400	28	0.06	0.3
Toluene	<0.0003	<0.0004	<0.0003	<0.0005	<0.0004	<0.0004	<0.0003	<0.0004	410,000	650	410,000	42	12	29
Total Xylenes	<0.0006	<0.0007	<0.0005	<0.0009	<0.0007	<0.0007	<0.0006	<0.0007	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0007	<0.0008	<0.0005	<0.0011	<0.0008	<0.0008	<0.0006	<0.0007	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0005	<0.0005	<0.0004	<0.0007	<0.0006	<0.0006	<0.0004	<0.0005	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0007	<0.0008	<0.0006	<0.0012	<0.0009	<0.0009	<0.0007	<0.0008	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (5 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB17 (0-3)	SB17 (5-7.5)	SB18 (0-3)	SB18 (7.5-10)	SB19 (0-3)	SB19 (5-7.5)	SB20 (0-3)	SB20 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.028	<0.0010	<0.025	<0.0010	<0.029	<0.0008	<0.0007	<0.034	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.040	<0.0013	<0.036	<0.0013	<0.042	<0.0011	<0.0009	<0.049	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.045	<0.0009	<0.041	<0.0009	<0.047	<0.0008	<0.0006	<0.055	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.023	<0.0009	<0.021	<0.0009	<0.024	<0.0008	<0.0006	<0.027	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.030	<0.0011	<0.027	<0.0010	<0.031	<0.0008	<0.0007	<0.036	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.036	<0.0017	<0.033	<0.0016	<0.037	<0.0014	<0.0012	<0.044	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.023	<0.0006	<0.021	<0.0006	<0.024	<0.0005	<0.0004	<0.028	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.19	<0.0028	<0.17	<0.0028	<0.20	<0.0024	<0.0020	<0.23	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	**<0.18**	<0.0039	**<0.17**	<0.0038	**<0.19**	<0.0033	<0.0028	**<0.22**	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.17	<0.0046	<0.15	<0.0045	<0.17	<0.0038	<0.0033	<0.20	--	--	--	--	--	--
Acetone	<0.45	<0.011	<0.41	<0.011	<0.47	<0.0091	<0.0077	<0.55	--	100,000	--	100,000	25	25
Benzene	<0.0076	<0.0008	0.016	<0.0007	<0.0080	<0.0006	<0.0005	<0.0093	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.035	<0.0008	<0.032	<0.0008	<0.037	<0.0006	<0.0005	<0.043	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.060	<0.0015	<0.054	<0.0015	<0.062	<0.0013	<0.0011	<0.073	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.11	<0.0032	<0.10	<0.0031	<0.12	<0.0027	<0.0023	<0.14	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.067	<0.0012	<0.061	0.0027	<0.070	<0.0010	0.0053	<0.081	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.026	<0.0008	<0.023	<0.0008	<0.027	<0.0007	<0.0006	<0.031	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.026	<0.0011	<0.023	<0.0011	<0.027	<0.0009	<0.0007	<0.031	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.029	<0.0021	<0.027	<0.0021	<0.030	<0.0018	<0.0015	<0.035	--	--	--	--	--	--
Chloroform	<0.057	<0.0019	<0.052	<0.0018	<0.060	<0.0016	<0.0013	<0.069	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.049	<0.0013	<0.044	<0.0012	<0.051	<0.0010	<0.0008	<0.059	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.026	<0.0010	<0.023	<0.0010	<0.027	<0.0008	<0.0007	<0.031	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.039	<0.0012	<0.036	<0.0012	<0.041	<0.0010	<0.0008	<0.048	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.051	<0.0012	<0.047	<0.0012	<0.054	<0.0010	<0.0008	<0.063	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.011	<0.0014	0.026	<0.0013	<0.011	<0.0011	<0.0009	<0.013	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.027	<0.0008	<0.024	<0.0008	<0.028	<0.0007	<0.0005	<0.033	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.13	<0.0028	<0.12	<0.0027	<0.14	<0.0023	<0.0020	<0.16	760	24	12,000	34	0.02	0.2
Styrene	<0.019	<0.0012	0.051	<0.0011	<0.020	<0.0009	<0.0008	<0.023	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.024	<0.0015	<0.022	<0.0014	<0.025	<0.0012	<0.0010	<0.029	110	20	2,400	28	0.06	0.3
Toluene	<0.013	<0.0005	0.069	0.0017	0.034	<0.0004	0.00055	0.017	410,000	650	410,000	42	12	29
Total Xylenes	0.046	<0.0008	0.13	0.0016	0.071	<0.0007	<0.0006	0.031	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.027	<0.0009	<0.025	<0.0009	<0.028	<0.0008	<0.0007	<0.033	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0092	<0.0007	<0.0084	<0.0006	<0.0096	<0.0005	<0.0005	<0.011	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.029	<0.0011	<0.027	<0.0010	<0.030	<0.0008	<0.0007	<0.035	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (6 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB21 (0-3)	SB21 (12.5-15)	SB22 (0-3)	SB22 (10-12.5)	SB23 (0-3)	SB23 (5-7.5)	SB24 (0-3)	SB24 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	9/3/24	9/3/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.028	<0.027	<0.024	<0.00070	0.0012	<0.0008	<0.0008	<0.0010	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.040	<0.039	<0.035	<0.00085	<0.0011	<0.0009	<0.0011	<0.0013	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.045	<0.044	<0.040	<0.00064	<0.0008	<0.0007	<0.0008	<0.0009	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.023	<0.022	<0.020	<0.00065	<0.0008	<0.0007	<0.0008	<0.0009	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.030	<0.029	<0.026	<0.00071	<0.0009	<0.0008	<0.0008	<0.0011	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.036	<0.035	<0.031	<0.0011	<0.0014	<0.0013	<0.0014	<0.0017	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.023	<0.023	<0.020	<0.00044	<0.0005	<0.0005	<0.0005	<0.0006	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.19	<0.19	<0.17	<0.0019	<0.0025	0.0074	0.0070	0.0028	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	**<0.18**	**<0.18**	<0.16	<0.0026	<0.0034	<0.0030	<0.0033	<0.0039	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.17	<0.16	<0.15	<0.0031	<0.0040	<0.0035	<0.0039	<0.0046	--	--	--	--	--	--
Acetone	<0.45	<0.44	<0.39	<0.0072	<0.0094	0.081	0.031	0.014	--	100,000	--	100,000	25	25
Benzene	<0.0076	<0.0074	<0.0067	<0.00054	<0.0007	<0.0006	0.0039	0.00087	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.035	<0.034	<0.031	<0.00055	<0.0007	<0.0006	<0.0007	<0.0008	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.060	<0.058	<0.052	<0.0010	<0.0013	<0.0012	<0.0013	<0.0015	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.11	<0.11	<0.097	<0.0021	<0.0027	<0.0024	<0.0027	<0.0032	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.067	<0.065	<0.058	0.0026	0.0016	<0.0009	0.0050	0.0056	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.026	<0.025	<0.023	<0.00058	<0.0007	<0.0006	<0.0007	<0.0008	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.025	<0.025	<0.022	<0.00073	<0.0009	<0.0008	<0.0009	<0.0011	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.029	<0.028	<0.026	<0.0014	<0.0018	<0.0016	<0.0018	<0.0021	--	--	--	--	--	--
Chloroform	<0.057	<0.056	<0.050	<0.0012	<0.0016	<0.0014	<0.0016	<0.0019	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.049	<0.048	<0.043	<0.00083	<0.0011	<0.0009	<0.0011	<0.0013	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.026	<0.025	<0.023	<0.00069	<0.0009	<0.0008	<0.0008	<0.0010	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.039	<0.038	<0.034	<0.00082	<0.0011	<0.0009	<0.0010	<0.0012	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.051	<0.050	<0.045	<0.00080	<0.0010	<0.0009	<0.0010	<0.0012	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	0.017	0.024	<0.0093	<0.00090	<0.0012	<0.0010	<0.0011	<0.0014	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.027	<0.026	<0.023	<0.00055	<0.0007	<0.0006	<0.0007	<0.0008	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.13	<0.13	<0.12	<0.0018	<0.0024	0.0033	<0.0023	<0.0028	760	24	12,000	34	0.02	0.2
Styrene	<0.019	<0.019	<0.017	<0.00077	<0.0010	<0.0008	<0.0009	<0.0012	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.024	<0.024	<0.021	<0.00096	<0.0013	<0.0011	<0.0012	<0.0014	110	20	2,400	28	0.06	0.3
Toluene	0.015	<0.013	<0.011	<0.00035	<0.0004	0.00050	0.0030	0.0018	410,000	650	410,000	42	12	29
Total Xylenes	0.050	0.091	<0.013	<0.00059	<0.0007	<0.0006	0.0012	0.0011	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.027	<0.027	<0.024	<0.00065	<0.0008	<0.0007	<0.0008	<0.0009	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0092	<0.0090	<0.0081	<0.00047	<0.0006	<0.0005	<0.0005	<0.0007	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.029	<0.028	<0.025	<0.00070	<0.0009	<0.0008	<0.0008	<0.0011	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (7 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB25 (0-3)	SB25 (3-5)	SB26 (0-3)	SB26 (7.5-10)	SB27 (0-3)	SB27 (5-7.5)	SB28 (0-3)	SB28 (10-12.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0007	<0.0009	<0.0010	<0.0009	<0.0009	<0.033	<0.027	<0.00079	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0009	<0.0011	<0.0012	<0.0011	<0.0012	<0.048	<0.039	<0.00097	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0007	<0.0008	<0.0009	<0.0008	<0.0009	<0.054	<0.044	<0.00073	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0007	<0.0008	<0.0009	<0.0008	<0.0009	<0.027	<0.022	<0.00073	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0008	<0.0009	<0.0010	<0.0009	<0.0009	<0.035	<0.029	<0.00080	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0013	<0.0014	<0.0016	<0.0015	<0.0016	<0.043	<0.034	<0.0013	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0005	<0.0005	<0.0006	<0.0005	<0.0006	<0.028	<0.022	<0.00050	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	0.0038	0.0033	<0.0028	<0.0025	<0.0027	<0.23	<0.18	0.0045	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0029	<0.0034	<0.0038	<0.0034	<0.0037	**<0.22**	**<0.17**	<0.0030	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0034	<0.0040	<0.0045	<0.0040	<0.0043	<0.20	<0.16	<0.0035	--	--	--	--	--	--
Acetone	0.012	0.013	<0.011	<0.0095	0.021	<0.54	<0.43	0.011	--	100,000	--	100,000	25	25
Benzene	<0.0006	<0.0007	<0.0007	0.00093	<0.0007	<0.0091	<0.0073	0.0067	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0006	<0.0007	<0.0008	<0.0007	<0.0007	<0.042	<0.034	<0.00063	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0011	<0.0013	<0.0015	<0.0013	<0.0014	<0.071	<0.057	<0.0011	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0024	<0.0027	<0.0031	<0.0028	<0.0030	<0.13	<0.11	<0.0024	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0022	0.0024	<0.0012	0.0042	0.0020	<0.079	<0.064	0.0014	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0006	<0.0007	<0.0008	<0.0007	<0.0008	<0.031	<0.025	<0.00066	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0008	<0.0009	<0.0011	<0.0009	<0.0010	<0.030	<0.025	<0.00082	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0016	<0.0018	<0.0021	<0.0019	<0.0020	<0.035	<0.028	<0.0016	--	--	--	--	--	--
Chloroform	<0.0014	<0.0016	<0.0018	<0.0016	<0.0017	<0.068	<0.055	<0.0014	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0009	<0.0011	<0.0012	<0.0011	<0.0012	<0.058	<0.047	<0.00095	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0007	<0.0009	<0.0010	<0.0009	<0.0009	<0.031	<0.025	<0.00079	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0009	<0.0011	<0.0012	<0.0011	<0.0012	<0.047	<0.038	<0.00094	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0009	<0.0010	<0.0012	<0.0010	<0.0011	<0.061	<0.049	<0.00090	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0010	<0.0012	<0.0013	0.0021	<0.0013	0.028	0.042	0.0037	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0006	<0.0007	<0.0008	<0.0007	<0.0007	<0.032	<0.026	<0.00063	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0021	<0.0024	<0.0027	<0.0024	<0.0026	<0.16	<0.13	<0.0021	760	24	12,000	34	0.02	0.2
Styrene	<0.0008	<0.0010	<0.0011	<0.0010	<0.0011	<0.023	<0.018	<0.00088	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0011	<0.0013	<0.0014	<0.0013	<0.0014	<0.029	<0.023	<0.0011	110	20	2,400	28	0.06	0.3
Toluene	0.00046	<0.0004	<0.0005	0.0019	<0.0004	0.028	0.040	0.0071	410,000	650	410,000	42	12	29
Total Xylenes	<0.0006	<0.0007	<0.0008	0.0029	<0.0008	0.047	0.090	0.0031	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0007	<0.0008	<0.0009	<0.0008	<0.0009	<0.033	<0.026	<0.00074	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	0.0014	0.0018	<0.0006	<0.0006	<0.0006	<0.011	<0.0089	<0.00053	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0007	<0.0009	<0.0010	<0.0009	<0.0009	<0.035	<0.028	<0.00080	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (8 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB29 (0-3)	SB29 (7.5-10)	SB30 (0-3)	SB30 (12.5-15)	SB31 (0-3)	SB31 (7.5-10)	SB32 (0-3)	SB32 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/3/24	9/3/24	9/3/24	9/3/24	9/4/24	9/4/24	9/4/24	9/4/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	0.022	0.0011	<0.0012	<0.060	<0.0011	<0.0009	<0.0008	<0.0010	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0017	<0.0011	<0.0015	<0.086	<0.0014	<0.0012	<0.0011	<0.0013	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0013	<0.00083	<0.0011	<0.097	<0.0010	<0.0009	<0.0008	<0.0009	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0013	<0.00083	<0.0011	<0.048	<0.0011	<0.0009	<0.0008	<0.0009	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0014	<0.00091	<0.0012	<0.063	<0.0011	<0.0009	<0.0009	<0.0010	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0022	<0.0014	<0.0019	<0.076	<0.0018	<0.0016	<0.0014	<0.0016	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0008	<0.00057	<0.0007	<0.049	<0.0007	<0.0006	<0.0005	<0.0006	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0037	<0.0024	<0.0032	<0.41	<0.0031	<0.0026	<0.0024	<0.0028	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0051	<0.0034	<0.0044	**<0.39**	<0.0042	<0.0036	<0.0033	<0.0038	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0060	<0.0039	<0.0052	<0.36	<0.0050	<0.0043	<0.0039	<0.0045	--	--	--	--	--	--
Acetone	<0.014	<0.0093	<0.012	<0.96	<0.012	<0.010	<0.0092	<0.011	--	100,000	--	100,000	25	25
Benzene	<0.0011	<0.00070	<0.0009	<0.016	<0.0008	<0.0007	<0.0006	0.0010	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0011	<0.00071	<0.0009	<0.075	<0.0009	<0.0007	<0.0007	<0.0008	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0020	<0.0013	<0.0017	<0.13	<0.0016	<0.0014	<0.0013	<0.0015	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0042	<0.0027	<0.0036	<0.24	<0.0034	<0.0030	<0.0027	<0.0031	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0029	<0.0010	<0.0013	<0.14	0.0047	0.0061	0.0055	0.0050	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0011	<0.00075	<0.0010	<0.055	<0.0009	<0.0008	<0.0007	<0.0008	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0014	<0.00093	<0.0012	<0.054	<0.0012	<0.0010	<0.0009	<0.0011	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0028	<0.0018	<0.0024	<0.062	<0.0023	<0.0020	<0.0018	<0.0021	--	--	--	--	--	--
Chloroform	<0.0024	<0.0016	<0.0021	<0.12	<0.0020	<0.0017	<0.0016	<0.0018	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0016	<0.0011	<0.0014	<0.10	<0.0014	<0.0012	<0.0011	<0.0012	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0014	<0.00089	<0.0012	<0.055	<0.0011	<0.0009	<0.0008	<0.0010	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0016	<0.0011	<0.0014	<0.084	<0.0013	<0.0012	<0.0011	<0.0012	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0016	<0.0010	<0.0014	<0.11	<0.0013	<0.0011	<0.0010	<0.0012	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0018	<0.0012	<0.0015	<0.023	<0.0015	<0.0013	<0.0012	<0.0013	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0011	<0.00071	<0.0009	<0.057	<0.0009	<0.0007	<0.0007	<0.0008	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0036	<0.0024	<0.0031	**<0.28**	<0.0030	<0.0026	<0.0023	<0.0027	760	24	12,000	34	0.02	0.2
Styrene	<0.0015	<0.0010	<0.0013	<0.041	<0.0013	<0.0011	<0.0009	<0.0011	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0019	<0.0012	<0.0016	<0.052	<0.0016	<0.0013	<0.0012	<0.0014	110	20	2,400	28	0.06	0.3
Toluene	<0.0006	<0.00045	<0.0005	<0.028	0.00056	0.00055	<0.0004	0.0014	410,000	650	410,000	42	12	29
Total Xylenes	<0.0012	<0.00076	<0.0010	<0.031	<0.0009	<0.0008	<0.0007	0.00088	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0013	<0.00084	<0.0011	<0.058	<0.0011	<0.0009	<0.0008	<0.0009	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0009	<0.00060	<0.0008	<0.020	<0.0007	<0.0006	<0.0006	<0.0006	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0014	<0.00090	<0.0012	<0.062	<0.0011	<0.0009	<0.0009	<0.0010	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (9 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB33 (0-3)	SB33 (5-7.5)	SB34 (0-3)	SB34 (5-7.5)	SB35 (0-3)	SB35 (7.5-10)	SB36 (0-3)	SB36 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0007	0.0015	0.0061	0.15	0.0020	0.0012	0.0029	0.0016	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0008	<0.0014	<0.0008	<0.042	<0.0011	<0.0010	<0.0011	<0.0011	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0006	<0.0011	<0.0006	<0.047	<0.0008	<0.0007	<0.0008	<0.00085	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0006	<0.0011	<0.0006	<0.023	<0.0008	<0.0007	<0.0008	<0.00086	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0007	<0.0012	<0.0007	<0.031	<0.0009	<0.0008	<0.0008	<0.00094	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0011	<0.0018	<0.0011	<0.037	<0.0015	<0.0013	<0.0014	<0.0015	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0004	<0.0007	<0.0004	<0.024	<0.0005	<0.0005	<0.0005	<0.00059	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	0.0077	0.0046	<0.0019	<0.20	<0.0025	0.0028	0.015	<0.0025	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0027	<0.0043	<0.0026	**<0.19**	<0.0034	<0.0031	<0.0033	<0.0035	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0031	<0.0050	<0.0031	<0.17	<0.0040	<0.0036	<0.0038	<0.0040	--	--	--	--	--	--
Acetone	0.032	0.019	0.0074	<0.47	<0.0094	0.014	0.075	0.013	--	100,000	--	100,000	25	25
Benzene	0.00067	<0.0008	<0.0005	<0.0079	<0.0007	<0.0006	<0.0006	<0.00072	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0005	<0.0009	<0.0005	<0.037	<0.0007	<0.0006	<0.0006	<0.00073	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0010	<0.0016	<0.0010	<0.062	<0.0013	<0.0012	<0.0013	<0.0013	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0022	<0.0035	<0.0021	<0.12	<0.0028	<0.0025	<0.0027	<0.0028	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.011	0.0051	0.0031	<0.069	0.0072	0.0070	0.0080	0.0010	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0006	<0.0009	<0.0005	<0.027	<0.0007	<0.0007	<0.0007	<0.00078	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0007	<0.0012	<0.0007	<0.026	<0.0009	<0.0008	<0.0009	<0.00096	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0014	<0.0023	<0.0014	<0.030	<0.0018	<0.0017	<0.0018	<0.0019	--	--	--	--	--	--
Chloroform	<0.0013	<0.0020	<0.0012	<0.059	<0.0016	<0.0015	<0.0016	<0.0016	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0008	<0.0014	<0.0008	<0.051	<0.0011	<0.0009	<0.0010	<0.0011	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0007	<0.0011	<0.0007	<0.027	<0.0009	<0.0008	<0.0008	<0.00092	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0008	<0.0014	<0.0008	<0.041	<0.0011	<0.0009	<0.0010	<0.0011	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0008	<0.0013	<0.0008	<0.053	<0.0010	<0.0009	<0.0010	<0.0011	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0009	<0.0015	<0.0009	0.024	<0.0012	<0.0011	<0.0011	<0.0012	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0005	<0.0009	<0.0005	<0.028	<0.0007	<0.0006	<0.0007	<0.00074	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0019	<0.0030	<0.0019	<0.14	<0.0024	<0.0022	<0.0023	<0.0024	760	24	12,000	34	0.02	0.2
Styrene	<0.0007	<0.0013	<0.0007	<0.020	<0.0010	<0.0009	<0.0009	<0.0010	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0009	<0.0016	0.0062	0.12	0.0091	0.0069	0.11	0.042	110	20	2,400	28	0.06	0.3
Toluene	0.00093	0.0011	<0.0003	0.023	0.00057	0.00052	<0.0004	<0.00046	410,000	650	410,000	42	12	29
Total Xylenes	0.00082	<0.0009	<0.0006	0.055	<0.0007	<0.0007	<0.0007	<0.00078	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0006	<0.0011	<0.0006	<0.028	<0.0008	<0.0007	<0.0008	<0.00086	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0004	<0.0007	<0.0004	<0.0095	<0.0006	<0.0005	0.00066	<0.00062	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0007	<0.0012	<0.0007	<0.030	<0.0009	<0.0008	<0.0008	<0.00093	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (10 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB37 (0-3)	SB37 (12.5-15)	SB38 (0-3)	SB38 (12.5-15)	SB39 (0-3)	SB39 (7.5-10)	SB40 (0-3)	SB40 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0009	<0.00099	<0.0010	<0.00089	<0.0009	<0.0008	<0.0008	<0.0009	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0012	<0.0012	<0.0013	<0.0011	<0.0012	<0.0011	<0.0010	<0.0011	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0009	<0.00092	<0.0009	<0.00082	<0.0008	<0.0008	<0.0007	<0.0008	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0009	<0.00092	<0.0009	<0.00082	<0.0008	<0.0008	<0.0007	<0.0008	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0010	<0.0010	<0.0010	<0.00090	<0.0009	<0.0008	<0.0008	<0.0009	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0016	<0.0016	<0.0017	<0.0014	<0.0015	<0.0014	<0.0013	<0.0015	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0006	<0.00063	<0.0006	<0.00056	<0.0006	<0.0005	<0.0005	<0.0005	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0027	<0.0027	<0.0028	<0.0024	<0.0026	0.0038	<0.0023	<0.0025	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0037	<0.0037	<0.0039	<0.0033	<0.0035	<0.0032	<0.0031	<0.0035	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0044	<0.0044	<0.0045	<0.0039	<0.0042	<0.0038	<0.0037	<0.0041	--	--	--	--	--	--
Acetone	<0.010	0.015	<0.011	<0.0092	0.030	0.040	0.0090	0.016	--	100,000	--	100,000	25	25
Benzene	<0.0007	<0.00077	<0.0008	<0.00069	<0.0007	<0.0006	<0.0006	<0.0007	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0007	<0.00079	<0.0008	<0.00070	<0.0007	<0.0006	<0.0006	<0.0007	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0014	<0.0014	<0.0015	<0.0013	<0.0014	<0.0012	<0.0012	<0.0013	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0030	<0.0030	<0.0031	<0.0027	<0.0029	<0.0026	<0.0025	<0.0028	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0018	<0.0011	<0.0012	<0.0010	0.0022	0.0030	<0.0009	0.0037	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0008	<0.00084	<0.0008	<0.00075	<0.0008	<0.0007	<0.0007	<0.0007	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0010	<0.0010	<0.0011	<0.00092	<0.0009	<0.0009	<0.0008	<0.0009	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0020	<0.0020	<0.0021	<0.0018	<0.0019	<0.0018	<0.0017	<0.0019	--	--	--	--	--	--
Chloroform	<0.0018	<0.0018	<0.0018	<0.0016	<0.0017	<0.0015	<0.0015	<0.0016	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0012	<0.0012	<0.0012	<0.0011	<0.0011	<0.0010	<0.0010	<0.0011	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0009	<0.00099	<0.0010	<0.00088	<0.0009	<0.0008	<0.0008	<0.0009	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0012	<0.0012	<0.0012	<0.0011	<0.0011	<0.0010	<0.0009	<0.0011	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0011	<0.0011	<0.0012	<0.0010	<0.0011	<0.0009	<0.0009	<0.0011	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0013	<0.0013	<0.0013	<0.0012	<0.0012	<0.0011	<0.0011	<0.0012	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0007	<0.00079	<0.0008	<0.00071	<0.0007	<0.0006	<0.0006	<0.0007	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0026	<0.0026	<0.0027	<0.0023	<0.0025	<0.0023	<0.0022	<0.0024	760	24	12,000	34	0.02	0.2
Styrene	<0.0011	<0.0011	<0.0011	<0.00099	<0.0011	<0.0009	<0.0009	<0.0010	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0014	<0.0014	<0.0014	<0.0012	<0.0013	<0.0012	<0.0012	<0.0013	110	20	2,400	28	0.06	0.3
Toluene	<0.0004	0.0012	<0.0005	<0.00044	<0.0004	0.00055	<0.0004	<0.0004	410,000	650	410,000	42	12	29
Total Xylenes	<0.0008	<0.00084	<0.0008	<0.00075	<0.0008	<0.0007	<0.0007	<0.0007	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0009	<0.00093	<0.0009	<0.00083	<0.0008	<0.0008	<0.0007	<0.0008	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0006	<0.00067	<0.0006	<0.00060	<0.0006	<0.0005	<0.0005	<0.0006	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0010	<0.0010	<0.0010	<0.00089	<0.0009	<0.0008	<0.0008	<0.0009	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (11 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB41 (0-3)	SB41 (5-7.5)	SB42 (0-3)	SB42 (7.5-10)	SB43 (0-3)	SB43 (10-12.5)	SB44 (0-3)	SB44 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/5/24	9/5/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0012	<0.0009	<0.0008	<0.0008	<0.00099	<0.0010	<0.0011	<0.0010	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0015	<0.0012	<0.0010	<0.0010	<0.0012	<0.0012	<0.0014	<0.0013	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0011	<0.0009	<0.0007	<0.0007	<0.00092	<0.00093	<0.0011	<0.00095	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0012	<0.0009	<0.0007	<0.0007	<0.00092	<0.00093	<0.0011	<0.00095	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0013	<0.0010	<0.0008	<0.0008	<0.0010	<0.0010	<0.0012	<0.0010	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0020	<0.0016	<0.0013	<0.0014	<0.0016	<0.0016	<0.0018	<0.0016	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0007	<0.0006	<0.0005	<0.0005	<0.00063	<0.00064	<0.0007	<0.00065	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0034	<0.0027	<0.0023	<0.0023	<0.0027	0.0094	<0.0031	<0.0028	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0046	<0.0037	<0.0032	<0.0032	<0.0037	<0.0038	<0.0043	<0.0038	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0054	<0.0044	<0.0037	<0.0037	<0.0044	<0.0044	<0.0050	<0.0045	--	--	--	--	--	--
Acetone	0.032	<0.010	<0.0087	<0.0088	<0.010	0.041	0.020	<0.011	--	100,000	--	100,000	25	25
Benzene	<0.0009	<0.0007	<0.0006	<0.0006	<0.00077	0.0057	<0.0008	<0.00080	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0009	<0.0007	<0.0006	<0.0006	<0.00079	<0.00080	<0.0009	<0.00081	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0018	<0.0014	<0.0012	<0.0012	<0.0014	<0.0014	<0.0016	<0.0015	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0038	<0.0030	<0.0026	<0.0026	<0.0030	<0.0031	<0.0035	<0.0031	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0078	0.0013	<0.0009	<0.0009	0.0037	0.0018	0.0040	0.0024	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0010	<0.0008	<0.0007	<0.0007	<0.00083	<0.00084	<0.0009	<0.00086	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0013	<0.0010	<0.0008	<0.0008	<0.0010	<0.0010	<0.0012	<0.0011	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0025	<0.0020	<0.0017	<0.0017	<0.0020	<0.0020	<0.0023	<0.0021	--	--	--	--	--	--
Chloroform	<0.0022	<0.0018	<0.0015	<0.0015	<0.0018	<0.0018	<0.0020	<0.0018	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0015	<0.0012	<0.0010	<0.0010	<0.0012	<0.0012	<0.0014	<0.0012	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0012	<0.0009	<0.0008	<0.0008	<0.00099	<0.0010	<0.0011	<0.0010	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0015	<0.0012	<0.0010	<0.0010	<0.0012	<0.0012	<0.0013	<0.0012	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0014	<0.0011	<0.0009	<0.0009	<0.0011	<0.0011	<0.0013	<0.0012	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0016	<0.0013	<0.0011	<0.0011	<0.0013	<0.0013	<0.0015	<0.0013	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0009	<0.0007	<0.0006	<0.0006	<0.00079	<0.00080	<0.0009	<0.00082	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0033	<0.0026	<0.0022	<0.0022	<0.0026	<0.0026	<0.0030	<0.0027	760	24	12,000	34	0.02	0.2
Styrene	<0.0014	<0.0011	<0.0009	<0.0009	<0.0011	<0.0011	<0.0013	<0.0011	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0017	<0.0014	<0.0012	<0.0012	<0.0014	<0.0014	<0.0016	<0.0014	110	20	2,400	28	0.06	0.3
Toluene	<0.0006	<0.0004	<0.0004	<0.0004	<0.00049	0.0033	<0.0005	<0.00051	410,000	650	410,000	42	12	29
Total Xylenes	<0.0010	<0.0008	<0.0007	<0.0007	<0.00084	<0.00085	<0.0009	<0.00087	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0012	<0.0009	<0.0007	<0.0007	<0.00093	<0.00094	<0.0011	<0.00096	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0008	<0.0006	<0.0005	<0.0005	<0.00067	<0.00067	<0.0007	<0.00069	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0012	<0.0010	<0.0008	<0.0008	<0.0010	<0.0010	<0.0011	<0.0010	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (12 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB45 (0-3)	SB45 (5-7.5)	SB46 (0-3)	SB46 (3-5)	SB47 (0-3)	SB47 (7.5-10)	SB48 (0-3)	SB48 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0009	<0.00089	<0.0007	<0.00086	<0.0009	<0.0011	<0.0011	<0.0008	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0012	<0.0011	<0.0009	<0.0011	<0.0012	<0.0013	<0.0013	<0.0011	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0009	<0.00083	<0.0007	<0.00080	<0.0008	<0.0010	<0.0009	<0.0008	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0009	<0.00083	<0.0007	<0.00080	<0.0008	<0.0010	<0.0009	<0.0008	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0009	<0.00091	<0.0007	<0.00088	<0.0009	<0.0011	<0.0011	<0.0008	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0016	<0.0014	<0.0012	<0.0014	<0.0015	<0.0017	<0.0017	<0.0014	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0006	<0.00057	<0.0004	<0.00055	<0.0006	<0.0006	<0.0006	<0.0005	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0026	<0.0024	<0.0021	0.0043	0.015	0.030	<0.0029	0.022	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0036	<0.0033	<0.0029	<0.0032	<0.0035	<0.0041	<0.0040	0.0040	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0043	<0.0039	<0.0034	<0.0038	<0.0041	<0.0048	<0.0046	<0.0038	--	--	--	--	--	--
Acetone	<0.010	0.025	<0.0080	0.032	0.081	0.14	<0.011	0.096	--	100,000	--	100,000	25	25
Benzene	<0.0007	0.016	0.00079	<0.00067	<0.0007	<0.0008	<0.0008	<0.0006	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0007	<0.00071	<0.0006	<0.00069	<0.0007	<0.0008	<0.0008	<0.0006	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0014	<0.0013	<0.0011	<0.0012	<0.0014	<0.0016	<0.0015	<0.0013	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0029	<0.0027	<0.0023	<0.0026	<0.0029	<0.0033	<0.0032	<0.0027	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0017	0.011	0.0019	0.020	0.0012	0.0030	<0.0012	0.0018	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0008	<0.00075	<0.0006	<0.00073	<0.0007	<0.0009	<0.0008	<0.0007	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0010	<0.00093	<0.0008	<0.00090	<0.0009	<0.0011	<0.0011	<0.0009	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0020	<0.0018	<0.0016	<0.0018	<0.0019	<0.0022	<0.0021	<0.0018	--	--	--	--	--	--
Chloroform	<0.0017	<0.0016	<0.0014	<0.0015	<0.0017	<0.0019	<0.0019	<0.0016	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0012	<0.0011	<0.0009	<0.0010	<0.0011	<0.0013	<0.0013	<0.0010	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0009	<0.00089	<0.0007	<0.00086	<0.0009	<0.0011	<0.0011	<0.0008	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0011	<0.0011	<0.0009	<0.0010	<0.0011	<0.0013	<0.0012	<0.0010	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0011	<0.0010	<0.0008	<0.00099	<0.0011	<0.0012	<0.0012	<0.0010	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0013	0.024	<0.0010	0.0020	<0.0012	<0.0014	<0.0014	<0.0011	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0007	<0.00071	<0.0006	<0.00069	<0.0007	<0.0008	<0.0008	<0.0007	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0026	<0.0024	<0.0020	<0.0023	<0.0025	<0.0029	<0.0028	<0.0023	760	24	12,000	34	0.02	0.2
Styrene	<0.0011	<0.00099	<0.0008	<0.00096	<0.0010	<0.0012	<0.0012	<0.0009	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0013	<0.0012	<0.0011	<0.0012	<0.0013	<0.0015	<0.0015	0.0043	110	20	2,400	28	0.06	0.3
Toluene	<0.0004	0.049	<0.0003	0.00067	<0.0004	0.00072	0.0014	0.00092	410,000	650	410,000	42	12	29
Total Xylenes	<0.0008	0.022	<0.0006	0.014	<0.0008	<0.0009	0.0015	0.00093	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0009	<0.00083	<0.0007	<0.00081	<0.0008	<0.0010	<0.0009	<0.0008	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0006	<0.00060	<0.0005	<0.00058	<0.0006	<0.0007	<0.0007	<0.0005	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0009	<0.00090	<0.0007	<0.00087	<0.0009	<0.0011	<0.0011	<0.0008	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (13 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB49 (0-3)	SB49 (10-12.5)	SB50 (0-3)	SB50 (7.5-10)	SB51 (0-3)	SB51 (5-7.5)	SB52 (0-3)	SB52 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0008	<0.0010	<0.0009	<0.0011	<0.048	<0.00094	<0.0011	<0.0013	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0011	<0.0012	<0.0011	<0.0014	<0.068	<0.0012	<0.0013	<0.0015	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0008	<0.00093	<0.0008	<0.0010	<0.077	<0.00087	<0.0009	<0.0012	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0008	<0.00094	<0.0008	<0.0010	<0.038	<0.00087	<0.0009	<0.0012	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0008	<0.0010	<0.0009	<0.0011	<0.051	<0.00096	<0.0011	<0.0013	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0014	<0.0016	<0.0015	<0.0018	<0.061	<0.0015	<0.0017	<0.0020	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0005	<0.00064	<0.0005	<0.00071	<0.039	<0.00060	<0.0006	<0.00080	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0024	<0.0027	<0.0025	<0.0030	<0.33	<0.0026	<0.0029	<0.0034	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0033	<0.0038	<0.0034	<0.0042	**<0.31**	<0.0035	<0.0040	<0.0047	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0038	<0.0044	<0.0040	<0.0049	<0.28	<0.0041	<0.0047	<0.0055	--	--	--	--	--	--
Acetone	0.021	<0.010	<0.0094	<0.012	<0.76	<0.0097	<0.011	<0.013	--	100,000	--	100,000	25	25
Benzene	<0.0006	<0.00078	<0.0007	<0.00087	<0.013	<0.00073	<0.0008	<0.00098	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0006	<0.00080	<0.0007	<0.00088	<0.060	<0.00075	<0.0008	<0.0010	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0013	<0.0015	<0.0013	<0.0016	<0.10	<0.0014	<0.0015	<0.0018	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0026	<0.0031	<0.0028	<0.0034	<0.19	<0.0029	<0.0032	<0.0038	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.0009	0.0058	0.0016	0.034	<0.11	<0.0011	0.0027	<0.0014	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0007	<0.00085	<0.0007	<0.00094	<0.044	<0.00079	<0.0009	<0.0011	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0009	<0.0011	<0.0009	<0.0012	<0.043	<0.00098	<0.0011	<0.0013	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0018	<0.0020	<0.0018	<0.0023	<0.050	<0.0019	<0.0022	<0.0026	--	--	--	--	--	--
Chloroform	<0.0015	<0.0018	<0.0016	<0.0020	<0.097	<0.0017	<0.0019	<0.0022	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0010	<0.0012	<0.0011	<0.0013	<0.083	<0.0011	<0.0013	<0.0015	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0008	<0.0010	<0.0009	<0.0011	<0.044	<0.00094	<0.0011	<0.0013	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0010	<0.0012	<0.0011	<0.0013	<0.067	<0.0011	<0.0013	<0.0015	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0010	<0.0012	<0.0010	<0.0013	<0.088	<0.0011	<0.0012	<0.0014	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0011	<0.0013	<0.0012	<0.0014	0.027	<0.0012	<0.0014	<0.0016	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0006	<0.00080	<0.0007	<0.00089	<0.046	<0.00075	<0.0008	<0.0010	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0023	<0.0027	<0.0024	<0.0029	**<0.23**	<0.0025	<0.0028	<0.0033	760	24	12,000	34	0.02	0.2
Styrene	<0.0009	<0.0011	<0.0010	<0.0012	<0.032	<0.0010	<0.0012	<0.0014	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0012	<0.0014	<0.0013	<0.0015	<0.041	<0.0013	<0.0015	<0.0017	110	20	2,400	28	0.06	0.3
Toluene	<0.0004	<0.00050	<0.0004	<0.00055	0.027	<0.00047	<0.0005	<0.00063	410,000	650	410,000	42	12	29
Total Xylenes	<0.0007	<0.00085	<0.0007	<0.00094	0.077	<0.00080	<0.0009	<0.0011	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0008	<0.00094	<0.0008	<0.0010	<0.046	<0.00088	<0.0010	<0.0012	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0005	<0.00068	<0.0006	<0.00075	<0.016	<0.00063	<0.0007	<0.00085	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0008	<0.0010	<0.0009	<0.0011	<0.050	<0.00095	<0.0011	<0.0013	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (14 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB53 (0-3)	SB53 (10-12.5)	SB54 (0-3)	SB54 (10-12.5)	SB55 (0-3)	SB55 (5-7.5)	SB56 (0-3)	SB56 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.036	<0.00093	<0.035	<0.036	<0.0007	<0.0008	<0.0010	<0.033	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.051	<0.0011	<0.050	<0.051	<0.0009	<0.0010	<0.0013	<0.047	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.058	<0.00086	<0.057	<0.058	<0.0007	<0.0007	<0.0009	<0.054	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.029	<0.00086	<0.028	<0.029	<0.0007	<0.0007	<0.0009	<0.027	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.038	<0.00094	<0.037	<0.038	<0.0008	<0.0008	<0.0010	<0.035	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.046	<0.0015	<0.045	<0.046	<0.0013	<0.0014	<0.0016	<0.042	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.030	<0.00059	<0.029	<0.029	<0.0005	<0.0005	<0.0006	<0.027	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.25	<0.0025	<0.24	<0.24	0.018	<0.0023	0.0055	<0.23	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	**<0.23**	<0.0035	**<0.23**	**<0.23**	<0.0029	<0.0032	<0.0038	**<0.21**	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.21	<0.0041	<0.21	<0.21	<0.0034	<0.0038	<0.0045	<0.20	--	--	--	--	--	--
Acetone	<0.58	<0.0096	<0.56	<0.57	0.040	<0.0089	0.030	<0.53	--	100,000	--	100,000	25	25
Benzene	<0.0098	<0.00072	0.13	<0.0097	<0.0006	<0.0006	0.0015	<0.0090	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.045	<0.00074	<0.044	<0.045	<0.0006	<0.0006	<0.0008	<0.042	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.076	<0.0013	<0.074	<0.076	<0.0011	<0.0012	<0.0015	<0.071	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.14	<0.0028	<0.14	<0.14	<0.0024	<0.0026	<0.0031	<0.13	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.085	0.0015	<0.083	<0.085	0.0021	<0.0009	0.0019	<0.079	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.033	<0.00078	<0.032	<0.033	<0.0006	<0.0007	<0.0008	<0.030	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.033	<0.00097	<0.032	<0.032	<0.0008	<0.0008	<0.0011	<0.030	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.037	<0.0019	<0.036	<0.037	<0.0016	<0.0017	<0.0021	<0.034	--	--	--	--	--	--
Chloroform	<0.073	<0.0016	<0.071	<0.073	<0.0014	<0.0015	<0.0018	<0.067	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.063	<0.0011	<0.061	<0.062	<0.0009	<0.0010	<0.0012	<0.058	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.033	<0.00092	<0.032	<0.033	<0.0007	<0.0008	<0.0010	<0.030	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.050	<0.0011	<0.049	<0.050	<0.0009	<0.0010	<0.0012	<0.046	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.066	<0.0011	<0.064	<0.065	<0.0009	<0.0009	<0.0012	<0.061	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.014	<0.0012	<0.013	<0.014	<0.0010	<0.0011	<0.0013	<0.013	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.034	<0.00074	<0.033	<0.034	<0.0006	<0.0006	<0.0008	<0.032	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.17	<0.0024	<0.17	<0.17	<0.0021	<0.0023	<0.0027	<0.16	760	24	12,000	34	0.02	0.2
Styrene	<0.024	<0.0010	<0.024	<0.024	<0.0008	<0.0009	<0.0011	<0.023	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.031	<0.0013	<0.030	<0.031	<0.0011	<0.0012	<0.0014	<0.029	110	20	2,400	28	0.06	0.3
Toluene	<0.017	<0.00046	<0.016	0.020	<0.0003	<0.0004	0.0020	0.034	410,000	650	410,000	42	12	29
Total Xylenes	0.067	<0.00079	0.028	0.024	<0.0006	<0.0007	0.00091	0.045	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.035	<0.00087	<0.034	<0.035	<0.0007	<0.0008	<0.0009	<0.032	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.012	<0.00062	<0.011	<0.012	<0.0005	<0.0005	<0.0006	<0.011	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.037	<0.00094	<0.036	<0.037	<0.0007	<0.0008	<0.0010	<0.034	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (15 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB57 (0-3)	SB57 (7.5-10)	SB58 (0-3)	SB58 (10-12.5)	SB59 (0-3)	SB59 (5-7.5)	SB60 (0-3)	SB60 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0011	<0.0011	<0.0011	<0.00093	<0.00084	<0.00091	<0.0009	<0.00089	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0014	<0.0013	<0.0014	<0.0011	<0.0010	<0.0011	<0.0012	<0.0011	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0010	<0.0010	<0.0010	<0.00086	<0.00078	<0.00084	<0.0008	<0.00082	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0010	<0.0010	<0.0010	<0.00087	<0.00078	<0.00084	<0.0008	<0.00083	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0011	<0.0011	<0.0011	<0.00095	<0.00086	<0.00092	<0.0009	<0.00090	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0018	<0.0017	<0.0018	<0.0015	<0.0013	<0.0015	<0.0015	<0.0014	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0007	<0.00070	<0.0007	<0.00060	<0.00054	<0.00058	<0.0006	<0.00057	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0031	<0.0030	<0.0030	<0.0025	<0.0023	<0.0025	0.0030	<0.0024	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0042	<0.0041	<0.0041	<0.0035	<0.0032	<0.0034	<0.0036	<0.0033	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0049	<0.0048	<0.0048	<0.0041	<0.0037	<0.0040	<0.0042	<0.0039	--	--	--	--	--	--
Acetone	<0.012	<0.011	0.019	<0.0097	<0.0087	<0.0094	0.014	0.031	--	100,000	--	100,000	25	25
Benzene	0.0011	<0.00085	<0.0008	<0.00073	0.0016	<0.00070	<0.0007	<0.00069	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0008	<0.00087	<0.0008	<0.00074	<0.00067	<0.00072	<0.0007	<0.00071	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0016	<0.0016	<0.0016	<0.0013	<0.0012	<0.0013	<0.0014	<0.0013	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0034	<0.0033	<0.0034	<0.0028	<0.0026	<0.0028	<0.0029	<0.0027	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0055	0.0051	0.0050	0.0032	0.0029	<0.0010	0.0033	0.0038	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0009	<0.00092	<0.0009	<0.00079	<0.00071	<0.00076	<0.0008	<0.00075	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0012	<0.0011	<0.0011	<0.00097	<0.00088	<0.00095	<0.0009	<0.00093	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0023	<0.0022	<0.0022	<0.0019	<0.0017	<0.0018	<0.0019	<0.0018	--	--	--	--	--	--
Chloroform	<0.0020	<0.0019	<0.0020	<0.0017	<0.0015	<0.0016	<0.0017	<0.0016	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0013	<0.0013	<0.0013	<0.0011	<0.0010	<0.0011	<0.0011	<0.0011	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0011	<0.0011	<0.0011	<0.00093	<0.00084	<0.00090	<0.0009	<0.00089	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0013	<0.0013	<0.0013	<0.0011	<0.0010	<0.0011	<0.0011	<0.0011	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0013	<0.0013	<0.0013	<0.0011	<0.00097	<0.0010	<0.0011	<0.0010	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0015	<0.0014	<0.0014	<0.0012	<0.0011	<0.0012	<0.0012	<0.0012	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0009	<0.00087	<0.0008	<0.00074	<0.00067	<0.00072	<0.0007	<0.00071	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0030	<0.0029	<0.0029	<0.0025	<0.0022	<0.0024	<0.0025	<0.0024	760	24	12,000	34	0.02	0.2
Styrene	<0.0013	<0.0012	<0.0012	<0.0010	<0.00094	<0.0010	<0.0011	<0.00099	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0016	<0.0015	<0.0015	<0.0013	0.0096	0.0058	<0.0013	<0.0012	110	20	2,400	28	0.06	0.3
Toluene	0.0017	0.00075	<0.0005	<0.00046	0.0022	0.00048	<0.0004	<0.00044	410,000	650	410,000	42	12	29
Total Xylenes	0.00098	<0.00093	<0.0009	<0.00079	0.0013	<0.00077	0.0012	<0.00075	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0011	<0.0010	<0.0010	<0.00087	<0.00079	<0.00085	<0.0008	<0.00083	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0007	<0.00073	<0.0007	<0.00063	<0.00057	<0.00061	<0.0006	<0.00060	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0011	<0.0011	<0.0011	<0.00094	<0.00085	<0.00092	<0.0009	<0.00090	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (16 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB61 (0-3)	SB61 (17.5-19)	SB62 (0-3)	SB62 (7.5-10)	SB63 (0-3)	SB63 (5-7.5)	SB64 (0-3)	SB64 (7.5-10)	SB65 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
										Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.026	<0.057	<0.0010	<0.0009	<0.00089	<0.0007	<0.0011	<0.0013	<0.0008	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.037	<0.081	<0.0012	<0.0012	<0.0011	<0.0009	<0.0013	<0.0016	<0.0011	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.042	<0.092	<0.0009	<0.0009	<0.00082	<0.0007	<0.0010	<0.0012	<0.0008	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.021	<0.046	<0.0009	<0.0009	<0.00083	<0.0007	<0.0010	<0.0012	<0.0008	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.027	<0.060	<0.0010	<0.0009	<0.00090	<0.0007	<0.0011	<0.0013	<0.0009	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.033	<0.073	<0.0016	<0.0016	<0.0014	<0.0012	<0.0017	<0.0021	<0.0014	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.021	<0.047	<0.0006	<0.0006	<0.00057	<0.0004	<0.0006	<0.0008	<0.0005	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.18	<0.39	<0.0027	<0.0026	<0.0024	<0.0021	0.015	<0.0036	<0.0024	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	**<0.17**	**<0.37**	<0.0038	<0.0036	<0.0033	<0.0029	<0.0041	<0.0050	<0.0034	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.15	<0.34	<0.0044	<0.0043	<0.0039	<0.0034	<0.0047	<0.0058	<0.0039	--	--	--	--	--	--
Acetone	<0.41	<0.91	<0.010	<0.010	<0.0092	<0.0080	0.038	<0.014	<0.0093	--	100,000	--	100,000	25	25
Benzene	<0.0070	0.074	<0.0007	<0.0007	<0.00069	<0.0006	0.0074	<0.0010	<0.0006	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.033	<0.072	<0.0008	<0.0007	<0.00071	<0.0006	<0.0008	<0.0010	<0.0007	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.055	<0.12	<0.0015	<0.0014	<0.0013	<0.0011	<0.0016	<0.0019	<0.0013	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.10	<0.23	<0.0031	<0.0029	<0.0027	<0.0024	<0.0033	<0.0040	<0.0027	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.062	<0.14	0.0074	0.0018	0.0029	0.0033	0.0057	0.0024	0.0039	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.024	<0.052	<0.0008	<0.0008	<0.00075	<0.0006	<0.0009	<0.0011	<0.0007	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.024	<0.052	<0.0011	<0.0010	<0.00093	<0.0008	<0.0011	<0.0014	<0.0009	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.027	<0.059	<0.0021	<0.0020	<0.0018	<0.0016	<0.0022	<0.0027	<0.0018	--	--	--	--	--	--
Chloroform	<0.053	<0.12	<0.0018	<0.0017	<0.0016	<0.0014	<0.0019	<0.0023	<0.0016	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.045	<0.099	<0.0012	<0.0012	<0.0011	<0.0009	<0.0013	<0.0016	<0.0011	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.024	<0.052	<0.0010	<0.0009	<0.00089	<0.0007	<0.0011	<0.0013	<0.0008	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.036	<0.080	<0.0012	<0.0011	<0.0011	<0.0009	<0.0013	<0.0016	<0.0011	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.047	<0.10	<0.0012	<0.0011	<0.0010	<0.0008	<0.0012	<0.0015	<0.0010	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0098	<0.022	<0.0013	<0.0013	<0.0012	<0.0010	0.0044	<0.0017	<0.0012	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.025	<0.055	<0.0008	<0.0007	<0.00071	<0.0006	<0.0008	<0.0011	<0.0007	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.12	**<0.27**	<0.0027	<0.0026	<0.0023	<0.0020	<0.0029	<0.0035	<0.0024	760	24	12,000	34	0.02	0.2
Styrene	<0.018	<0.039	<0.0011	<0.0011	<0.00099	<0.0008	<0.0012	<0.0015	<0.0009	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.022	<0.049	<0.0014	<0.0013	<0.0012	<0.0011	<0.0015	<0.0018	<0.0012	110	20	2,400	28	0.06	0.3
Toluene	0.029	0.049	0.0010	<0.0004	<0.00044	<0.0003	0.011	<0.0006	<0.0004	410,000	650	410,000	42	12	29
Total Xylenes	0.059	0.057	<0.0008	<0.0008	<0.00075	<0.0006	0.0051	<0.0011	<0.0007	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.025	<0.055	<0.0009	<0.0009	<0.00083	<0.0007	<0.0010	<0.0012	<0.0008	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0085	<0.019	<0.0006	<0.0006	<0.00060	<0.0005	<0.0007	<0.0008	<0.0006	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.027	<0.059	<0.0010	<0.0009	<0.00090	<0.0007	<0.0011	<0.0013	<0.0009	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (17 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB65 (7.5-10)	SB66 (0-3)	SB66 (5-7.5)	SB67 (0-3)	SB67 (3-5)	SB68 (0-3)	SB68 (7.5-10)	SB69 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/9/24	9/9/24	9/9/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0009	<0.00086	<0.0011	<0.00087	<0.042	<0.00074	<0.0008	<0.00095	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0011	<0.0011	<0.0013	<0.0011	<0.060	<0.00091	<0.0011	<0.0012	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0008	<0.00080	<0.0009	<0.00081	<0.068	<0.00068	<0.0008	<0.00088	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0008	<0.00080	<0.0010	<0.00081	<0.034	<0.00069	<0.0008	<0.00088	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0009	<0.00088	<0.0011	<0.00088	<0.045	<0.00075	<0.0008	<0.00096	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0014	<0.0014	<0.0017	<0.0014	<0.054	<0.0012	<0.0014	<0.0015	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0005	<0.00055	<0.0006	<0.00055	<0.035	<0.00047	<0.0005	<0.00061	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	0.0073	<0.0023	<0.0029	0.0034	<0.29	0.0078	<0.0023	<0.0026	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0034	<0.0032	<0.0040	<0.0033	**<0.27**	<0.0028	<0.0032	<0.0036	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0040	<0.0038	<0.0047	<0.0038	<0.25	<0.0032	<0.0038	<0.0042	--	--	--	--	--	--
Acetone	0.012	<0.0089	<0.011	<0.0090	<0.67	0.035	0.011	<0.0099	--	100,000	--	100,000	25	25
Benzene	<0.0007	<0.00067	<0.0008	<0.00068	<0.011	<0.00057	<0.0006	<0.00074	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0007	<0.00068	<0.0008	<0.00069	<0.053	<0.00059	<0.0006	<0.00075	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0013	<0.0012	<0.0015	<0.0013	<0.090	<0.0011	<0.0012	<0.0014	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0028	<0.0026	<0.0033	<0.0026	<0.17	<0.0023	<0.0026	<0.0029	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0059	0.0034	0.0037	0.0046	<0.10	0.010	0.010	0.0057	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0007	<0.00073	<0.0009	<0.00073	<0.039	<0.00062	<0.0007	<0.00080	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0009	<0.00090	<0.0011	<0.00091	<0.038	<0.00077	<0.0009	<0.00099	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0018	<0.0017	<0.0022	<0.0018	<0.044	<0.0015	<0.0018	<0.0019	--	--	--	--	--	--
Chloroform	<0.0016	<0.0015	<0.0019	<0.0015	<0.086	<0.0013	<0.0015	<0.0017	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0011	<0.0010	<0.0013	<0.0010	<0.073	<0.00089	<0.0010	<0.0011	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0009	<0.00086	<0.0011	<0.00087	<0.039	<0.00074	<0.0008	<0.00095	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0011	<0.0010	<0.0013	<0.0010	<0.059	<0.00088	<0.0010	<0.0011	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0010	<0.00099	<0.0012	<0.0010	<0.077	<0.00085	<0.0009	<0.0011	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0012	<0.0011	<0.0014	<0.0011	<0.016	<0.00096	<0.0011	<0.0012	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0007	<0.00069	<0.0008	<0.00069	<0.040	<0.00059	<0.0006	<0.00076	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0024	<0.0023	<0.0028	<0.0023	<0.20	<0.0020	<0.0023	<0.0025	760	24	12,000	34	0.02	0.2
Styrene	<0.0010	<0.00096	<0.0012	<0.00097	<0.029	<0.00082	<0.0009	<0.0011	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0013	<0.0012	<0.0015	<0.0012	<0.036	<0.0010	<0.0012	<0.0013	110	20	2,400	28	0.06	0.3
Toluene	0.00077	<0.00043	<0.0005	<0.00043	<0.020	0.00042	<0.0004	<0.00047	410,000	650	410,000	42	12	29
Total Xylenes	<0.0007	<0.00073	<0.0009	<0.00074	0.033	<0.00063	<0.0007	<0.00080	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0008	<0.00081	<0.0010	<0.00081	<0.041	<0.00069	<0.0008	<0.00089	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0006	<0.00058	<0.0007	<0.00058	<0.014	<0.00050	<0.0005	<0.00064	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0009	<0.00087	<0.0011	<0.00088	<0.044	<0.00075	<0.0008	<0.00096	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (18 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB69 (3-5)	SB70 (0-3)	SB70 (12.5-15)	SB70 (17.5-20)	SB71 (0-3)	SB72 (0-3)	SB72 (7.5-10)	SB73 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/9/24	9/9/24	9/9/24	9/9/24	9/9/24	9/10/24	9/10/24	9/10/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0009	<0.00083	<0.022	<0.00073	<0.0007	<0.0012	<0.0008	<0.0012	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0011	<0.0010	<0.031	<0.00090	<0.0008	<0.0014	<0.0010	<0.0015	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0008	<0.00077	<0.035	<0.00068	<0.0006	<0.0011	<0.0007	<0.0012	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0008	<0.00077	<0.018	<0.00068	<0.0006	<0.0011	<0.0007	<0.0012	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0009	<0.00084	<0.023	<0.00075	<0.0007	<0.0012	<0.0008	<0.0013	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0014	<0.0013	<0.028	<0.0012	<0.0011	<0.0019	<0.0014	<0.0020	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0005	<0.00053	<0.018	<0.00047	<0.0004	<0.0007	<0.0005	<0.0007	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0024	<0.0023	<0.15	<0.0020	0.0030	<0.0032	0.0043	<0.0034	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0034	<0.0031	**<0.14**	<0.0028	<0.0026	<0.0044	<0.0032	<0.0047	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0040	<0.0037	<0.13	<0.0032	<0.0031	<0.0052	<0.0037	<0.0055	--	--	--	--	--	--
Acetone	<0.0094	<0.0086	<0.35	<0.0076	0.010	<0.012	0.016	<0.013	--	100,000	--	100,000	25	25
Benzene	<0.0007	<0.00065	<0.0060	<0.00057	0.00074	<0.0009	<0.0006	<0.0009	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0007	<0.00066	<0.028	<0.00058	<0.0005	<0.0009	<0.0006	<0.0009	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0013	<0.0012	<0.047	<0.0011	<0.0010	<0.0017	<0.0012	<0.0018	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0027	<0.0025	<0.087	<0.0022	<0.0021	<0.0036	<0.0026	<0.0038	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0036	<0.00095	<0.052	0.0033	0.0054	<0.0013	0.0010	0.0031	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0007	<0.00070	<0.020	<0.00062	<0.0005	<0.0009	<0.0007	<0.0010	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0009	<0.00087	<0.020	<0.00077	<0.0007	<0.0012	<0.0008	<0.0013	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0018	<0.0017	<0.023	<0.0015	<0.0014	<0.0024	<0.0017	<0.0025	--	--	--	--	--	--
Chloroform	<0.0016	<0.0015	<0.045	<0.0013	<0.0012	<0.0021	<0.0015	<0.0022	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0011	<0.0010	<0.038	<0.00088	<0.0008	<0.0014	<0.0010	<0.0015	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0009	<0.00083	<0.020	<0.00073	<0.0007	<0.0012	<0.0008	<0.0012	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0011	<0.00098	<0.031	<0.00087	<0.0008	<0.0014	<0.0010	<0.0015	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0010	<0.00095	<0.040	<0.00084	<0.0008	<0.0014	<0.0009	<0.0014	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0012	<0.0011	<0.0083	<0.00095	<0.0009	<0.0015	<0.0011	<0.0016	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0007	<0.00066	<0.021	<0.00059	<0.0005	<0.0009	<0.0006	<0.0009	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0024	<0.0022	<0.10	<0.0019	<0.0018	<0.0031	<0.0023	<0.0033	760	24	12,000	34	0.02	0.2
Styrene	<0.0010	<0.00092	<0.015	<0.00082	<0.0007	<0.0013	<0.0009	<0.0014	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0013	<0.0012	<0.019	<0.0010	<0.0009	<0.0016	<0.0012	<0.0017	110	20	2,400	28	0.06	0.3
Toluene	<0.0004	<0.00041	<0.010	0.00058	0.00035	<0.0005	0.00047	<0.0006	410,000	650	410,000	42	12	29
Total Xylenes	<0.0007	<0.00070	<0.011	<0.00062	<0.0005	<0.0010	<0.0007	<0.0011	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0008	<0.00078	<0.021	<0.00069	<0.0006	<0.0011	<0.0008	<0.0012	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0006	<0.00056	<0.0072	<0.00049	<0.0004	<0.0007	<0.0005	<0.0008	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0009	<0.00084	<0.023	<0.00074	<0.0007	<0.0012	<0.0008	<0.0013	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (19 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB73 (5-7.5)	SB74 (0-3)	SB74 (3-5)	SB75 (0-3)	SB75 (5-7.5)	SB76 (0-3)	SB76 (7.5-10)	SB77 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0012	<0.0012	<0.0011	<0.00092	<0.00087	0.0017	0.019	<0.00087	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0015	<0.0015	<0.0013	<0.0011	<0.0011	<0.0013	<0.0015	<0.0011	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0011	<0.0011	<0.0010	<0.00085	<0.00081	<0.00095	<0.0012	<0.00080	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0011	<0.0012	<0.0010	<0.00086	<0.00081	<0.00095	<0.0012	<0.00081	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0012	<0.0013	<0.0011	<0.00094	<0.00089	<0.0010	<0.0013	<0.00088	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0019	<0.0020	<0.0017	<0.0015	<0.0014	<0.0016	<0.0020	<0.0014	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0007	<0.00079	<0.0006	<0.00059	<0.00056	<0.00065	<0.0008	<0.00055	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	0.023	<0.0034	<0.0029	0.028	<0.0024	0.0051	<0.0034	0.0060	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0045	<0.0046	<0.0041	<0.0035	<0.0033	<0.0038	<0.0047	<0.0033	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0052	<0.0054	<0.0048	<0.0040	<0.0038	<0.0045	<0.0055	<0.0038	--	--	--	--	--	--
Acetone	0.074	<0.013	<0.011	0.034	0.012	0.018	0.018	0.029	--	100,000	--	100,000	25	25
Benzene	<0.0009	<0.00096	<0.0008	<0.00072	<0.00068	<0.00079	<0.0009	<0.00067	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0009	<0.00098	<0.0008	<0.00073	<0.00069	<0.00081	<0.0010	<0.00069	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0017	<0.0018	<0.0016	<0.0013	<0.0013	<0.0015	<0.0018	<0.0013	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0036	<0.0038	<0.0033	<0.0028	<0.0027	<0.0031	<0.0038	<0.0026	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0023	0.0032	0.0038	0.0045	0.0031	0.0034	0.012	0.0084	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0010	<0.0010	<0.0009	<0.00078	<0.00074	<0.00086	<0.0011	<0.00073	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0012	<0.0013	<0.0011	<0.00096	<0.00091	<0.0011	<0.0013	<0.00090	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0024	<0.0025	<0.0022	<0.0019	<0.0018	<0.0021	<0.0026	<0.0018	--	--	--	--	--	--
Chloroform	<0.0021	<0.0022	<0.0019	<0.0016	<0.0016	<0.0018	<0.0022	<0.0015	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0014	<0.0015	<0.0013	<0.0011	<0.0010	<0.0012	<0.0015	<0.0010	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0012	<0.0012	<0.0011	<0.00092	<0.00087	<0.0010	<0.0013	<0.00086	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0014	<0.0015	<0.0013	<0.0011	<0.0010	<0.0012	<0.0015	<0.0010	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0014	<0.0014	<0.0012	<0.0011	<0.0010	<0.0012	<0.0014	<0.00099	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0015	<0.0016	<0.0014	<0.0012	<0.0011	<0.0013	<0.0016	<0.0011	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0009	<0.00099	<0.0008	<0.00073	<0.00070	<0.00081	<0.0010	<0.00069	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0031	<0.0033	<0.0029	<0.0024	<0.0023	<0.0027	<0.0033	<0.0023	760	24	12,000	34	0.02	0.2
Styrene	<0.0013	<0.0014	<0.0012	<0.0010	<0.00097	<0.0011	<0.0014	<0.00096	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0016	<0.0017	<0.0015	<0.0013	<0.0012	<0.0014	<0.0018	<0.0012	110	20	2,400	28	0.06	0.3
Toluene	<0.0005	<0.00061	<0.0005	0.00055	<0.00043	<0.00051	<0.0006	0.00069	410,000	650	410,000	42	12	29
Total Xylenes	<0.0010	<0.0010	<0.0009	0.0011	<0.00074	<0.00087	<0.0011	<0.00073	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0011	<0.0012	<0.0010	<0.00086	<0.00082	<0.00095	<0.0012	<0.00081	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0008	<0.00083	<0.0007	<0.00062	<0.00059	<0.00069	<0.0008	<0.00058	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0012	<0.0012	<0.0011	<0.00093	<0.00088	<0.0010	<0.0013	<0.00088	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (20 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB77 (5-7.5)	SB78 (0-3)	SB78 (10-12.5)	SB79 (0-3)	SB79 (5-7.5)	SB80 (0-3)	SB80 (3-5)	SB81 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/11/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0009	<0.00060	<0.0008	<0.00081	<0.0011	<0.0008	<0.0008	<0.0009	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0012	<0.00074	<0.0011	<0.00099	<0.0014	<0.0010	<0.0010	<0.0011	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0008	<0.00056	<0.0008	<0.00075	<0.0011	<0.0007	<0.0007	<0.0008	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0008	<0.00056	<0.0008	<0.00075	<0.0011	<0.0007	<0.0007	<0.0008	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0009	<0.00061	<0.0009	<0.00082	<0.0012	<0.0008	<0.0008	<0.0009	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0015	<0.00097	<0.0014	<0.0013	<0.0018	<0.0014	<0.0013	<0.0015	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0006	<0.00039	<0.0005	<0.00052	<0.0007	<0.0005	<0.0005	<0.0005	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0026	0.0018	<0.0024	<0.0022	<0.0031	0.0057	<0.0023	<0.0025	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0036	<0.0023	<0.0033	<0.0030	<0.0043	<0.0032	<0.0032	<0.0035	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0042	<0.0027	<0.0039	<0.0036	<0.0050	<0.0037	<0.0037	<0.0041	--	--	--	--	--	--
Acetone	0.011	<0.0063	<0.0092	0.010	<0.012	0.032	<0.0087	0.020	--	100,000	--	100,000	25	25
Benzene	<0.0007	<0.00047	<0.0006	<0.00063	<0.0008	<0.0006	0.00093	<0.0007	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0007	<0.00048	<0.0007	<0.00064	<0.0009	<0.0006	<0.0006	<0.0007	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0014	<0.00087	<0.0013	<0.0012	<0.0016	<0.0012	<0.0012	<0.0013	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0029	<0.0018	<0.0027	<0.0025	<0.0035	<0.0026	<0.0026	<0.0028	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0060	<0.00069	<0.0010	0.0064	0.0072	0.0062	0.0051	<0.0011	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0008	<0.00051	<0.0007	<0.00068	<0.0009	<0.0007	<0.0007	<0.0007	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0010	<0.00063	<0.0009	<0.00084	<0.0012	<0.0008	<0.0008	<0.0009	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0019	<0.0012	<0.0018	<0.0016	<0.0023	<0.0017	<0.0017	<0.0019	--	--	--	--	--	--
Chloroform	<0.0017	<0.0011	<0.0016	<0.0014	<0.0020	<0.0015	<0.0015	<0.0016	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0012	<0.00072	<0.0011	<0.00097	<0.0014	<0.0010	<0.0010	<0.0011	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0009	<0.00060	<0.0008	<0.00081	<0.0011	<0.0008	<0.0008	<0.0009	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0011	<0.00072	<0.0011	<0.00096	<0.0014	<0.0010	<0.0010	<0.0011	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0011	<0.00069	<0.0010	<0.00093	<0.0013	<0.0009	<0.0009	<0.0011	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0012	<0.00078	<0.0012	<0.0011	<0.0015	<0.0011	<0.0011	<0.0012	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0007	<0.00048	<0.0007	<0.00064	<0.0009	<0.0006	<0.0006	<0.0007	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0025	<0.0016	<0.0023	<0.0021	<0.0030	<0.0022	<0.0022	<0.0025	760	24	12,000	34	0.02	0.2
Styrene	<0.0011	<0.00067	<0.0009	<0.00090	<0.0013	<0.0009	<0.0009	<0.0010	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0013	<0.00084	<0.0012	<0.0011	<0.0016	<0.0012	<0.0012	<0.0013	110	20	2,400	28	0.06	0.3
Toluene	<0.0004	<0.00030	<0.0004	<0.00040	<0.0005	<0.0004	0.00080	0.00082	410,000	650	410,000	42	12	29
Total Xylenes	<0.0008	<0.00051	<0.0007	<0.00069	<0.0009	<0.0007	<0.0007	<0.0007	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0009	<0.00056	<0.0008	<0.00076	<0.0011	<0.0007	<0.0007	<0.0008	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0006	<0.00041	<0.0006	<0.00054	<0.0007	<0.0005	<0.0005	<0.0006	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0009	<0.00061	<0.0009	<0.00082	<0.0012	<0.0008	<0.0008	<0.0009	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (21 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB81 (7.5-10)	SB82 (0-3)	SB82 (5-7.5)	SB83 (0-3)	SB83 (3-5)	SB84 (0-3)	SB84 (5-7.5)	SB85 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0009	<0.00088	<0.0015	<0.00076	<0.00089	<0.00094	<0.0010	<0.00096	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0011	<0.0011	<0.0019	<0.00093	<0.0011	<0.0012	<0.0013	<0.0012	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0008	<0.00081	<0.0014	<0.00070	<0.00082	<0.00087	<0.0009	<0.00088	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0008	<0.00082	<0.0014	<0.00070	<0.00083	<0.00088	<0.0009	<0.00089	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0009	<0.00089	<0.0016	<0.00077	<0.00090	<0.00096	<0.0010	<0.00097	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0015	<0.0014	<0.0025	<0.0012	<0.0014	<0.0015	<0.0016	<0.0015	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0005	<0.00056	<0.0009	<0.00048	<0.00057	<0.00060	<0.0006	<0.00061	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0025	<0.0024	<0.0042	0.0041	<0.0024	<0.0026	<0.0028	<0.0026	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0034	<0.0033	<0.0058	<0.0028	<0.0033	<0.0035	<0.0039	<0.0036	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0040	<0.0039	<0.0067	<0.0033	<0.0039	<0.0041	<0.0045	<0.0042	--	--	--	--	--	--
Acetone	<0.0094	<0.0091	<0.016	0.028	0.011	<0.0098	<0.011	<0.0099	--	100,000	--	100,000	25	25
Benzene	<0.0007	<0.00068	<0.0012	<0.00059	<0.00069	<0.00073	<0.0008	<0.00074	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0007	<0.00070	<0.0012	<0.00060	<0.00071	<0.00075	<0.0008	<0.00076	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0013	<0.0013	<0.0022	<0.0011	<0.0013	<0.0014	<0.0015	<0.0014	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0028	<0.0027	<0.0047	<0.0023	<0.0027	<0.0029	<0.0031	<0.0029	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0019	0.0050	<0.0017	0.0067	0.0055	0.0047	0.0053	0.0048	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0007	<0.00074	<0.0013	<0.00064	<0.00075	<0.00079	<0.0008	<0.00080	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0009	<0.00092	<0.0016	<0.00079	<0.00093	<0.00098	<0.0011	<0.0010	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0018	<0.0018	<0.0031	<0.0015	<0.0018	<0.0019	<0.0021	<0.0019	--	--	--	--	--	--
Chloroform	<0.0016	<0.0016	<0.0027	<0.0013	<0.0016	<0.0017	<0.0018	<0.0017	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0011	<0.0011	<0.0018	<0.00091	<0.0011	<0.0011	<0.0012	<0.0011	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0009	<0.00088	<0.0015	<0.00075	<0.00089	<0.00094	<0.0010	<0.00095	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0011	<0.0010	<0.0018	<0.00090	<0.0011	<0.0011	<0.0012	<0.0011	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0010	<0.0010	<0.0018	<0.00087	<0.0010	<0.0011	<0.0012	<0.0011	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0012	<0.0011	<0.0020	<0.00098	<0.0012	<0.0012	<0.0013	<0.0012	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0007	<0.00070	<0.0012	<0.00060	<0.00071	<0.00075	<0.0008	<0.00076	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0024	<0.0023	<0.0041	<0.0020	<0.0024	<0.0025	<0.0027	<0.0025	760	24	12,000	34	0.02	0.2
Styrene	<0.0010	<0.00098	<0.0017	<0.00084	<0.00099	<0.0010	<0.0011	<0.0011	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0013	<0.0012	<0.0021	<0.0010	<0.0012	<0.0013	<0.0014	<0.0013	110	20	2,400	28	0.06	0.3
Toluene	<0.0004	<0.00044	0.0013	0.0011	<0.00044	<0.00047	<0.0005	<0.00047	410,000	650	410,000	42	12	29
Total Xylenes	<0.0007	<0.00075	<0.0013	0.00080	<0.00075	<0.00080	<0.0008	<0.00081	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0008	<0.00082	<0.0014	<0.00071	<0.00083	<0.00088	<0.0009	<0.00089	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0006	<0.00059	<0.0010	<0.00051	<0.00060	<0.00063	<0.0006	<0.00064	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0009	<0.00089	<0.0016	<0.00076	<0.00090	<0.00095	<0.0010	<0.00096	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (22 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB85 (10-12.5)	SB86 (0-3)	SB86 (7.5-10)	SB87 (0-3)	SB87 (3-5)	SB88 (0-3)	SB88 (7.5-10)	SB89 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/11/24	9/11/24	9/11/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.00079	<0.00097	<0.0011	<0.00091	<0.0007	<0.0006	<0.0006	<0.0007	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.00097	<0.0012	<0.0013	<0.0011	<0.0009	<0.0008	<0.0008	<0.0009	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.00073	<0.00090	<0.0009	<0.00084	<0.0007	<0.0006	<0.0006	<0.0007	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.00073	<0.00091	<0.0010	<0.00085	<0.0007	<0.0006	<0.0006	<0.0007	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.00080	<0.00099	<0.0011	<0.00093	<0.0008	<0.0006	<0.0006	<0.0007	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0013	<0.0016	<0.0017	<0.0015	<0.0013	<0.0011	<0.0011	<0.0012	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.00050	<0.00062	<0.0006	<0.00058	<0.0005	<0.0004	<0.0004	<0.0004	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0021	<0.0026	<0.0029	<0.0025	<0.0021	<0.0018	<0.0018	<0.0020	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0030	<0.0037	<0.0040	<0.0034	<0.0030	<0.0025	<0.0025	<0.0028	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0035	<0.0043	<0.0047	<0.0040	<0.0035	<0.0029	<0.0030	<0.0033	--	--	--	--	--	--
Acetone	<0.0082	0.012	0.011	0.018	<0.0082	<0.0068	<0.0070	0.015	--	100,000	--	100,000	25	25
Benzene	<0.00061	<0.00076	<0.0008	<0.00071	<0.0006	<0.0005	<0.0005	<0.0005	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.00063	<0.00077	<0.0008	<0.00072	<0.0006	<0.0005	<0.0005	<0.0006	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0011	<0.0014	<0.0015	<0.0013	<0.0011	<0.0009	<0.0009	<0.0011	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0024	<0.0030	<0.0033	<0.0028	<0.0024	<0.0020	<0.0021	<0.0023	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0033	0.0047	0.0046	0.0073	0.0086	0.0041	<0.0007	0.0013	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.00066	<0.00082	<0.0009	<0.00077	<0.0006	<0.0005	<0.0005	<0.0006	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.00082	<0.0010	<0.0011	<0.00095	<0.0008	<0.0006	<0.0007	<0.0007	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0016	<0.0020	<0.0022	<0.0019	<0.0016	<0.0013	<0.0014	<0.0015	--	--	--	--	--	--
Chloroform	<0.0014	<0.0017	<0.0019	<0.0016	<0.0014	<0.0012	<0.0012	<0.0013	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.00095	<0.0012	<0.0013	<0.0011	<0.0009	<0.0007	<0.0008	<0.0009	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.00079	<0.00097	<0.0011	<0.00091	<0.0007	<0.0006	<0.0006	<0.0007	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.00094	<0.0012	<0.0013	<0.0011	<0.0009	<0.0007	<0.0008	<0.0008	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.00090	<0.0011	<0.0012	<0.0010	<0.0009	<0.0007	<0.0007	<0.0008	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0008	<0.0008	<0.0009	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.00063	<0.00078	<0.0008	<0.00073	<0.0006	<0.0005	<0.0005	<0.0006	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0021	<0.0026	<0.0028	<0.0024	<0.0021	<0.0017	<0.0018	<0.0020	760	24	12,000	34	0.02	0.2
Styrene	<0.00088	<0.0011	<0.0012	<0.0010	<0.0008	<0.0007	<0.0007	<0.0008	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0011	<0.0013	<0.0015	<0.0013	<0.0011	<0.0009	<0.0009	<0.0010	110	20	2,400	28	0.06	0.3
Toluene	<0.00039	<0.00048	<0.0005	0.0010	0.00078	0.0011	0.0011	<0.0003	410,000	650	410,000	42	12	29
Total Xylenes	<0.00067	<0.00082	<0.0009	0.00089	<0.0006	0.00098	0.0012	<0.0006	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.00074	<0.00091	<0.0010	<0.00085	<0.0007	<0.0006	<0.0006	<0.0007	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.00053	<0.00065	<0.0007	<0.00061	<0.0005	<0.0004	<0.0004	<0.0005	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.00080	<0.00098	<0.0011	<0.00092	<0.0008	<0.0006	<0.0006	<0.0007	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (23 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB89 (3-5)	SB90 (0-3)	SB90 (7.5-10)	SB91 (0-3)	SB91 (12.5-15)	SB92 (0-3)	SB92 (3-5)	SB93 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/16/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0007	<0.00074	<0.0007	<0.00082	<0.00087	<0.0010	<0.0008	<0.00095	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0009	<0.00091	<0.0009	<0.0010	<0.0011	<0.0013	<0.0011	<0.0012	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0007	<0.00068	<0.0006	<0.00076	<0.00080	<0.00096	<0.0008	<0.00088	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0007	<0.00069	<0.0006	<0.00076	<0.00081	<0.00097	<0.0008	<0.00088	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0007	<0.00075	<0.0007	<0.00083	<0.00088	<0.0011	<0.0008	<0.00096	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0012	<0.0012	<0.0012	<0.0013	<0.0014	<0.0017	<0.0014	<0.0015	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0004	<0.00047	<0.0004	<0.00052	<0.00055	<0.00066	<0.0005	<0.00060	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	0.0047	<0.0020	0.021	<0.0022	<0.0024	0.012	0.0083	<0.0026	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0029	<0.0028	0.0076	<0.0031	<0.0033	<0.0039	<0.0033	<0.0036	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0034	<0.0032	<0.0032	<0.0036	<0.0038	<0.0046	<0.0039	<0.0042	--	--	--	--	--	--
Acetone	0.020	0.016	0.083	<0.0085	<0.0090	0.079	0.043	0.014	--	100,000	--	100,000	25	25
Benzene	<0.0006	<0.00057	<0.0005	<0.00064	<0.00067	<0.00081	<0.0006	<0.00074	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0006	<0.00059	<0.0005	<0.00065	<0.00069	<0.00082	<0.0007	<0.00075	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0011	<0.0011	<0.0011	<0.0012	<0.0013	<0.0015	<0.0013	<0.0014	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0023	<0.0022	<0.0022	<0.0025	<0.0026	<0.0032	<0.0027	<0.0029	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0055	0.00097	0.0036	0.0033	0.0010	0.0067	0.0057	0.0064	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0006	<0.00062	<0.0006	<0.00069	<0.00073	<0.00087	<0.0007	<0.00080	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0008	<0.00077	<0.0007	<0.00086	<0.00091	<0.0011	<0.0009	<0.00099	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0016	<0.0015	<0.0015	<0.0017	<0.0018	<0.0021	<0.0018	<0.0019	--	--	--	--	--	--
Chloroform	<0.0014	<0.0013	<0.0013	<0.0015	<0.0015	<0.0018	<0.0016	<0.0017	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0009	<0.00089	<0.0008	<0.00098	<0.0010	<0.0012	<0.0011	<0.0011	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0007	<0.00074	<0.0007	<0.00082	<0.00087	<0.0010	<0.0008	<0.00094	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0009	<0.00088	<0.0008	<0.00097	<0.0010	<0.0012	<0.0010	<0.0011	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0008	<0.00085	<0.0008	<0.00094	<0.00099	<0.0012	<0.0010	<0.0011	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0010	<0.00096	<0.0009	<0.0011	<0.0011	<0.0013	<0.0011	<0.0012	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0006	<0.00059	<0.0005	<0.00065	<0.00069	<0.00083	<0.0007	<0.00076	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0020	<0.0020	<0.0019	<0.0022	<0.0023	<0.0027	<0.0023	<0.0025	760	24	12,000	34	0.02	0.2
Styrene	<0.0008	<0.00082	<0.0008	<0.00091	<0.00097	<0.0012	<0.0009	<0.0011	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0011	<0.0010	<0.0010	<0.0011	<0.0012	<0.0014	<0.0012	<0.0013	110	20	2,400	28	0.06	0.3
Toluene	0.00051	<0.00037	<0.0003	<0.00041	<0.00043	<0.00052	<0.0004	0.0012	410,000	650	410,000	42	12	29
Total Xylenes	<0.0006	<0.00063	<0.0006	<0.00069	<0.00074	<0.00088	<0.0007	0.0012	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0007	<0.00069	<0.0006	<0.00077	<0.00081	<0.00097	<0.0008	<0.00088	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0005	<0.00050	<0.0005	<0.00055	<0.00058	<0.00070	<0.0005	<0.00064	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0007	<0.00075	<0.0007	<0.00083	<0.00088	<0.0010	<0.0008	<0.00096	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (24 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB93 (5-7.5)	SB94 (0-3)	SB94 (12.5-15)	SB95 (0-3)	SB95 (5-7.5)	SB96 (0-3)	SB96 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.00091	<0.0007	<0.00085	<0.0008	<0.0007	<0.0007	<0.0009	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0011	<0.0008	<0.0010	<0.0011	<0.0009	<0.0009	<0.0011	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.00084	<0.0006	<0.00079	<0.0008	<0.0007	<0.0007	<0.0008	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.00085	<0.0006	<0.00079	<0.0008	<0.0007	<0.0007	<0.0008	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.00092	<0.0007	<0.00086	<0.0009	<0.0007	<0.0007	<0.0009	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0015	<0.0011	<0.0014	<0.0014	<0.0012	<0.0012	<0.0015	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.00058	<0.0004	<0.00054	<0.0005	<0.0004	<0.0004	<0.0005	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0025	<0.0019	<0.0023	0.0025	0.0084	0.0026	0.0059	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0034	<0.0026	<0.0032	<0.0033	<0.0029	<0.0028	<0.0034	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0040	<0.0031	<0.0037	<0.0039	<0.0034	<0.0033	<0.0040	--	--	--	--	--	--
Acetone	0.012	0.016	<0.0088	<0.0092	0.027	0.0087	0.040	--	100,000	--	100,000	25	25
Benzene	0.0020	<0.0005	<0.00066	<0.0006	0.00094	<0.0005	<0.0007	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.00072	<0.0005	<0.00067	<0.0007	<0.0006	<0.0006	<0.0007	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0013	<0.0010	<0.0012	<0.0013	<0.0011	<0.0011	<0.0013	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0028	<0.0021	<0.0026	<0.0027	<0.0023	<0.0023	<0.0028	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0043	0.0041	0.0017	0.0064	0.0041	0.0084	0.011	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.00076	<0.0005	<0.00072	<0.0007	<0.0006	<0.0006	<0.0007	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.00095	<0.0007	<0.00089	<0.0009	<0.0008	<0.0007	<0.0009	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0018	<0.0014	<0.0017	<0.0018	<0.0016	<0.0015	<0.0019	--	--	--	--	--	--
Chloroform	<0.0016	<0.0012	<0.0015	<0.0016	<0.0014	<0.0013	<0.0016	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0011	<0.0008	<0.0010	<0.0011	<0.0009	<0.0009	<0.0011	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.00091	<0.0006	<0.00085	<0.0008	<0.0007	<0.0007	<0.0009	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0011	<0.0008	<0.0010	<0.0011	<0.0009	<0.0009	<0.0011	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0010	<0.0008	<0.00097	<0.0010	<0.0008	<0.0008	<0.0011	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0012	<0.0009	<0.0011	<0.0012	<0.0010	<0.0009	<0.0012	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.00072	<0.0005	<0.00068	<0.0007	<0.0006	<0.0006	<0.0007	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0024	<0.0018	<0.0022	<0.0023	<0.0020	<0.0020	<0.0024	760	24	12,000	34	0.02	0.2
Styrene	<0.0010	<0.0007	<0.00095	<0.0009	<0.0008	<0.0008	<0.0010	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0013	<0.0009	<0.0012	<0.0012	<0.0011	<0.0011	<0.0013	110	20	2,400	28	0.06	0.3
Toluene	0.0025	<0.0003	<0.00042	0.0018	0.0014	0.00040	<0.0004	410,000	650	410,000	42	12	29
Total Xylenes	0.0011	<0.0005	<0.00072	0.0022	0.0011	<0.0006	<0.0007	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.00085	<0.0006	<0.00079	<0.0008	<0.0007	<0.0007	<0.0008	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.00061	<0.0004	<0.00057	<0.0006	<0.0005	<0.0005	<0.0006	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.00092	<0.0007	<0.00086	<0.0009	<0.0007	<0.0007	<0.0009	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (25 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB97 (0-3)	SB97 (5-7.5)	SB98 (0-3)	SB98 (7.5-10)	SB99 (0-3)	SB99 (10-12.5)	SB100 (0-3)	SB100 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/16/24	9/16/24	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0006	<0.0012	<0.0008	<0.00085	<0.00098	<0.0016	<0.0008	<0.0019	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0008	<0.0014	<0.0011	<0.0010	<0.0012	<0.0020	<0.0009	<0.0023	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0006	<0.0011	<0.0008	<0.00078	<0.00091	<0.0015	<0.0007	<0.0017	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0006	<0.0011	<0.0008	<0.00079	<0.00092	<0.0015	<0.0007	<0.0017	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0006	<0.0012	<0.0008	<0.00086	<0.0010	<0.0016	<0.0008	<0.0019	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0010	<0.0018	<0.0014	<0.0014	<0.0016	<0.0026	<0.0013	<0.0030	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0004	<0.00073	<0.0005	<0.00054	<0.00063	<0.0010	<0.0005	<0.0012	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	0.0046	<0.0031	<0.0023	<0.0023	<0.0027	<0.0043	<0.0022	<0.0051	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0024	<0.0043	<0.0032	<0.0032	<0.0037	<0.0060	<0.0030	<0.0070	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0028	<0.0051	<0.0038	<0.0037	<0.0043	<0.0070	<0.0036	<0.0082	--	--	--	--	--	--
Acetone	0.020	<0.012	<0.0089	<0.0088	<0.010	<0.017	<0.0084	<0.019	--	100,000	--	100,000	25	25
Benzene	<0.0005	<0.00089	<0.0006	<0.00066	<0.00076	<0.0012	0.0015	<0.0015	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0005	<0.00091	<0.0006	<0.00067	<0.00078	<0.0013	<0.0006	<0.0015	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0009	<0.0017	<0.0012	<0.0012	<0.0014	<0.0023	<0.0012	<0.0027	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0020	<0.0035	<0.0026	<0.0026	<0.0030	<0.0049	<0.0025	<0.0057	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0020	<0.0013	0.0013	0.0023	0.0072	0.0020	0.0046	0.0060	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0005	<0.00097	<0.0007	<0.00071	<0.00083	<0.0013	<0.0006	<0.0016	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0006	<0.0012	<0.0009	<0.00088	<0.0010	<0.0017	<0.0008	<0.0020	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0013	<0.0023	<0.0017	<0.0017	<0.0020	<0.0032	<0.0016	<0.0038	--	--	--	--	--	--
Chloroform	<0.0012	<0.0020	<0.0015	<0.0015	<0.0017	<0.0028	<0.0014	<0.0033	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0007	<0.0014	<0.0010	<0.0010	<0.0012	<0.0019	<0.0009	<0.0022	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0006	<0.0011	<0.0008	<0.00084	<0.00098	<0.0016	<0.0008	<0.0019	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0007	<0.0014	<0.0010	<0.0010	<0.0012	<0.0019	<0.0009	<0.0022	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0007	<0.0013	<0.0009	<0.00097	<0.0011	<0.0018	<0.0009	<0.0021	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0008	<0.0015	<0.0011	<0.0011	<0.0013	<0.0021	<0.0011	<0.0024	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0005	<0.00092	<0.0006	<0.00067	<0.00078	<0.0013	<0.0006	<0.0015	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0017	<0.0030	<0.0023	<0.0022	<0.0026	<0.0042	<0.0021	<0.0050	760	24	12,000	34	0.02	0.2
Styrene	<0.0007	<0.0013	<0.0009	<0.00094	<0.0011	<0.0018	<0.0009	<0.0021	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0009	<0.0016	<0.0012	<0.0012	<0.0014	<0.0022	<0.0011	<0.0026	110	20	2,400	28	0.06	0.3
Toluene	<0.0003	<0.00057	<0.0004	0.0022	<0.00049	<0.00079	<0.0004	<0.00093	410,000	650	410,000	42	12	29
Total Xylenes	<0.0005	<0.00097	<0.0007	<0.00072	<0.00083	<0.0014	<0.0006	<0.0016	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0006	<0.0011	<0.0008	<0.00079	<0.00092	<0.0015	<0.0007	<0.0018	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0004	<0.00077	<0.0005	<0.00057	<0.00066	<0.0011	<0.0005	<0.0013	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0006	<0.0012	<0.0008	<0.00085	<0.00099	<0.0016	<0.0008	<0.0019	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (26 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB101 (0-3)	SB101 (12.5-15)	SB102 (0-3)	SB102 (7.5-10)	SB103 (0-3)	SB103 (5-7.5)	SB104 (0-3)	SB105 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/17/24	9/17/24	9/17/24	9/17/24	9/18/24	9/18/24	9/18/24	9/18/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0008	<0.0013	<0.0009	<0.00083	<0.0008	<0.0008	<0.0008	<0.0008	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0011	<0.0016	<0.0011	<0.0010	<0.0011	<0.0010	<0.0010	<0.0009	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0008	<0.0012	<0.0008	<0.00077	<0.0008	<0.0007	<0.0007	<0.0007	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0008	<0.0012	<0.0008	<0.00077	<0.0008	<0.0007	<0.0007	<0.0007	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0008	<0.0013	<0.0009	<0.00084	<0.0008	<0.0008	<0.0008	<0.0008	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0014	<0.0021	<0.0015	<0.0013	<0.0014	<0.0013	<0.0014	<0.0013	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0005	<0.00082	<0.0005	<0.00053	<0.0005	<0.0005	<0.0005	<0.0005	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0024	<0.0035	<0.0025	<0.0022	<0.0023	<0.0022	<0.0023	<0.0022	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0033	<0.0048	<0.0034	<0.0031	<0.0032	<0.0031	<0.0032	<0.0030	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0038	<0.0057	<0.0040	<0.0036	<0.0038	<0.0036	<0.0037	<0.0035	--	--	--	--	--	--
Acetone	<0.0091	<0.013	<0.0094	<0.0086	<0.0090	<0.0085	<0.0088	<0.0083	--	100,000	--	100,000	25	25
Benzene	<0.0006	<0.0010	<0.0007	<0.00064	<0.0006	<0.0006	<0.0006	0.00077	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0006	<0.0010	<0.0007	<0.00066	<0.0006	<0.0006	<0.0006	<0.0006	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0013	<0.0019	<0.0013	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0027	<0.0039	<0.0028	<0.0025	<0.0026	<0.0025	<0.0026	<0.0024	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0066	0.0036	0.013	<0.00094	0.0022	0.0045	0.0086	0.0031	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0007	<0.0011	<0.0007	<0.00070	<0.0007	<0.0006	<0.0007	<0.0006	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0009	<0.0013	<0.0009	<0.00086	<0.0009	<0.0008	<0.0008	<0.0008	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0018	<0.0026	<0.0018	<0.0017	<0.0018	<0.0017	<0.0017	<0.0016	--	--	--	--	--	--
Chloroform	<0.0016	<0.0023	<0.0016	<0.0015	<0.0015	<0.0014	<0.0015	<0.0014	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0010	<0.0015	<0.0011	<0.00099	<0.0010	<0.0009	<0.0010	<0.0009	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0008	<0.0013	<0.0009	<0.00082	<0.0008	<0.0008	<0.0008	<0.0008	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0010	<0.0015	<0.0011	<0.00098	<0.0010	<0.0009	<0.0010	<0.0009	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0010	<0.0015	<0.0010	<0.00095	<0.0009	<0.0009	<0.0009	<0.0009	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0011	<0.0017	<0.0012	<0.0011	<0.0011	<0.0011	<0.0011	<0.0010	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0007	<0.0010	<0.0007	<0.00066	<0.0006	<0.0006	<0.0006	<0.0006	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0023	<0.0034	<0.0024	<0.0022	<0.0023	<0.0022	<0.0022	<0.0021	760	24	12,000	34	0.02	0.2
Styrene	<0.0009	<0.0014	<0.0010	<0.00092	<0.0009	<0.0009	<0.0009	<0.0008	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0012	<0.0018	<0.0013	<0.0011	<0.0012	<0.0011	<0.0012	<0.0011	110	20	2,400	28	0.06	0.3
Toluene	<0.0004	<0.00064	<0.0004	<0.00041	<0.0004	<0.0004	0.00048	0.0017	410,000	650	410,000	42	12	29
Total Xylenes	<0.0007	<0.0011	<0.0007	<0.00070	<0.0007	<0.0006	<0.0007	0.00086	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0008	<0.0012	<0.0008	<0.00077	<0.0008	<0.0007	<0.0008	<0.0007	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0005	<0.00086	<0.0006	<0.00056	<0.0005	<0.0005	<0.0005	<0.0005	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0008	<0.0013	<0.0009	<0.00083	<0.0008	<0.0008	<0.0008	<0.0008	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (27 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB105 (10-12.5) 9/18/24	SB106 (0-3) 9/18/24	SB107 (0-3) 9/18/24	SB107 (7.5-10) 9/18/24	SB108 (0-3) 9/20/24	SB109 (0-3) 9/20/24	SB109 (5-7.5) 9/20/24	SB110 (0-3) 9/20/24	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0011	<0.00086	<0.0009	<0.0011	<0.00077	<0.00092	<0.0011	<0.00069	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0013	<0.0011	<0.0011	<0.0013	<0.00094	<0.0011	<0.0013	<0.00085	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.00098	<0.00080	<0.0008	<0.0010	<0.00071	<0.00085	<0.0010	<0.00064	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.00099	<0.00080	<0.0008	<0.0010	<0.00071	<0.00085	<0.0010	<0.00064	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0011	<0.00088	<0.0009	<0.0011	<0.00078	<0.00093	<0.0011	<0.00070	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0017	<0.0014	<0.0014	<0.0017	<0.0012	<0.0015	<0.0018	<0.0011	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.00067	<0.00055	<0.0005	<0.00069	<0.00049	<0.00058	<0.0007	<0.00044	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0029	0.015	<0.0025	<0.0029	0.010	<0.0025	<0.0030	0.0048	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0040	<0.0032	<0.0034	<0.0041	<0.0029	<0.0034	<0.0041	<0.0026	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0047	<0.0038	<0.0040	<0.0047	<0.0034	<0.0040	<0.0048	<0.0030	--	--	--	--	--	--
Acetone	<0.011	0.065	0.015	<0.011	0.051	0.018	<0.011	0.014	--	100,000	--	100,000	25	25
Benzene	<0.00082	<0.00067	0.00093	<0.00084	0.00077	<0.00071	<0.0008	0.00080	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.00084	<0.00068	<0.0007	<0.00086	<0.00061	<0.00073	<0.0008	<0.00055	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0015	<0.0012	<0.0013	<0.0016	<0.0011	<0.0013	<0.0016	<0.0010	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0032	<0.0026	<0.0028	<0.0033	<0.0023	<0.0028	<0.0033	<0.0021	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0013	0.030	0.0074	0.0056	0.0023	0.0080	0.0078	0.0028	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.00089	<0.00073	<0.0007	<0.00091	<0.00065	<0.00077	<0.0009	<0.00058	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0011	<0.00090	<0.0009	<0.0011	<0.00080	<0.00096	<0.0011	<0.00072	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0021	<0.0017	<0.0018	<0.0022	<0.0016	<0.0019	<0.0022	<0.0014	--	--	--	--	--	--
Chloroform	<0.0019	<0.0015	<0.0016	<0.0019	<0.0014	<0.0016	<0.0019	<0.0012	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0013	<0.0010	<0.0011	<0.0013	<0.00092	<0.0011	<0.0013	<0.00083	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0011	<0.00086	<0.0009	<0.0011	<0.00076	<0.00091	<0.0011	<0.00069	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0013	<0.0010	<0.0011	<0.0013	<0.00091	<0.0011	<0.0013	<0.00082	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0012	<0.00099	<0.0010	<0.0012	<0.00088	<0.0011	<0.0013	<0.00079	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0014	<0.0011	<0.0012	<0.0014	<0.0010	<0.0012	<0.0014	<0.00090	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.00084	<0.00069	<0.0007	<0.00086	<0.00061	<0.00073	<0.0008	<0.00055	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0028	<0.0023	<0.0024	<0.0029	<0.0020	<0.0024	<0.0029	<0.0018	760	24	12,000	34	0.02	0.2
Styrene	<0.0012	<0.00096	<0.0010	<0.0012	<0.00085	<0.0010	<0.0012	<0.00077	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0015	<0.0012	<0.0013	<0.0015	<0.0011	<0.0013	<0.0015	<0.00096	110	20	2,400	28	0.06	0.3
Toluene	<0.00053	0.00094	0.0015	<0.00054	0.00091	0.00086	0.0032	0.0020	410,000	650	410,000	42	12	29
Total Xylenes	<0.00090	0.0013	0.0022	<0.00092	0.00068	0.00083	0.0024	0.0013	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.00099	<0.00080	<0.0008	<0.0010	<0.00072	<0.00086	<0.0010	<0.00064	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.00071	<0.00058	<0.0006	<0.00073	<0.00052	<0.00062	<0.0007	<0.00046	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0011	<0.00087	<0.0009	<0.0011	<0.00077	<0.00093	<0.0011	<0.00070	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (28 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB110 (5-7.5) 9/20/24	SB111 (0-3) 9/20/24	SB111 (3-5) 9/20/24	SB112 (0-3) 9/20/24	SB113 (0-3) 9/20/24	SB113 (10-12.5) 9/20/24	SB114 (0-3) 9/20/24	SB114 (7.5-12) 9/20/24	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0008	<0.0011	<0.0011	<0.0015	<0.0008	<0.0008	<0.0022	<0.0009	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0009	<0.0013	<0.0014	<0.0018	<0.0011	<0.0010	<0.0022	<0.0012	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.0007	<0.00098	<0.0010	<0.0014	<0.0008	<0.0007	<0.0022	<0.0009	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0007	<0.00099	<0.0010	<0.0014	<0.0008	<0.0007	<0.0022	<0.0009	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.0008	<0.0011	<0.0011	<0.0015	<0.0009	<0.0008	<0.0022	<0.0010	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0013	<0.0017	<0.0018	<0.0024	<0.0014	<0.0013	<0.0056	<0.0016	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0005	<0.00067	<0.0007	<0.00096	<0.0005	<0.0005	<0.0022	<0.0006	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0022	<0.0029	<0.0030	<0.0041	<0.0024	<0.0023	<0.0056	<0.0027	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0030	<0.0040	<0.0042	<0.0056	<0.0033	<0.0031	<0.0056	<0.0037	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0035	<0.0046	<0.0049	<0.0066	<0.0039	<0.0037	<0.0056	<0.0043	--	--	--	--	--	--
Acetone	<0.0084	<0.011	<0.012	<0.016	<0.0092	<0.0087	0.029	<0.010	--	100,000	--	100,000	25	25
Benzene	<0.0006	<0.00082	<0.0008	<0.0012	<0.0006	<0.0006	<0.0022	<0.0007	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0006	<0.00084	<0.0008	<0.0012	<0.0007	<0.0006	<0.0022	<0.0007	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0012	<0.0015	<0.0016	<0.0022	<0.0013	<0.0012	<0.0022	<0.0014	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0025	<0.0032	<0.0034	<0.0046	<0.0027	<0.0026	<0.0056	<0.0030	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0028	<0.0012	<0.0013	<0.0017	0.0051	0.0050	<0.0056	0.0066	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0006	<0.00089	<0.0009	<0.0013	<0.0007	<0.0007	<0.0022	<0.0008	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.0008	<0.0011	<0.0012	<0.0016	<0.0009	<0.0008	<0.0022	<0.0010	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0016	<0.0021	<0.0023	<0.0030	<0.0018	<0.0017	<0.0056	<0.0020	--	--	--	--	--	--
Chloroform	<0.0014	<0.0019	<0.0020	<0.0027	<0.0016	<0.0015	<0.0022	<0.0017	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0009	<0.0013	<0.0013	<0.0018	<0.0011	<0.0010	<0.0056	<0.0012	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0008	<0.0011	<0.0011	<0.0015	<0.0008	<0.0008	<0.0022	<0.0009	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0009	<0.0013	<0.0013	<0.0018	<0.0010	<0.0009	<0.0022	<0.0012	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0009	<0.0012	<0.0013	<0.0017	<0.0010	<0.0009	<0.0022	<0.0011	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0010	<0.0014	<0.0014	<0.0020	<0.0011	<0.0011	<0.0022	<0.0013	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0006	<0.00084	<0.0008	<0.0012	<0.0007	<0.0006	<0.0022	<0.0007	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0021	<0.0028	<0.0029	<0.0040	<0.0023	<0.0022	<0.0056	<0.0026	760	24	12,000	34	0.02	0.2
Styrene	<0.0009	<0.0012	<0.0012	<0.0017	<0.0009	<0.0009	<0.0022	<0.0011	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0011	<0.0015	<0.0015	<0.0021	<0.0012	<0.0012	<0.0022	<0.0014	110	20	2,400	28	0.06	0.3
Toluene	0.0013	<0.00053	<0.0005	<0.00075	<0.0004	<0.0004	<0.0022	<0.0004	410,000	650	410,000	42	12	29
Total Xylenes	0.00077	<0.00090	<0.0009	<0.0013	<0.0007	<0.0007	<0.0044	<0.0008	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0007	<0.00099	<0.0010	<0.0014	<0.0008	<0.0007	<0.0022	<0.0009	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0005	<0.00071	<0.0007	<0.0010	<0.0005	<0.0005	<0.0022	<0.0006	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.0008	<0.0011	<0.0011	<0.0015	<0.0008	<0.0008	<0.0022	<0.0009	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (29 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB115 (0-3)	SB115 (5-7.5)	SB116 (0-3)	SB116 (12.5-15)	SB117 (0-3)	SB117 (5-7.5)	B120 (0-3)	B121 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	2/3/25	2/3/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.00086	<0.00079	<0.0023	<0.0026	<0.00093	<0.0013	<0.00033	<0.00056	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.0011	<0.00097	<0.0023	<0.0026	<0.0011	<0.0015	<0.00043	<0.00073	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.00080	<0.00073	<0.0023	<0.0026	<0.00086	<0.0012	<0.00041	<0.00070	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.00080	<0.00074	<0.0023	<0.0026	<0.00087	<0.0012	<0.00037	<0.00063	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.00088	<0.00080	<0.0023	<0.0026	<0.00095	<0.0013	<0.00040	<0.00067	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0014	<0.0013	<0.0056	<0.0064	<0.0015	<0.0020	<0.00027	<0.00046	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.00055	<0.00050	<0.0023	<0.0026	<0.00059	<0.00081	<0.00137	<0.00230	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0023	<0.0021	<0.0056	<0.0064	<0.0025	<0.0034	<0.0859	<0.0180	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.0032	<0.0030	<0.0056	<0.0064	<0.0035	<0.0047	<0.00197	<0.00333	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.0038	<0.0035	<0.0056	<0.0064	<0.0041	<0.0056	<0.00061	<0.00104	--	--	--	--	--	--
Acetone	<0.0089	0.011	<0.023	0.026	<0.0097	<0.013	<0.00062	<0.00105	--	100,000	--	100,000	25	25
Benzene	<0.00067	<0.00061	<0.0023	<0.0026	<0.00072	<0.00098	<0.00442	0.0115	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.00068	<0.00063	<0.0023	<0.0026	<0.00074	<0.0010	<0.00025	<0.00043	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0012	<0.0011	<0.0023	<0.0026	<0.0013	<0.0018	<0.00137	<0.00230	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0026	<0.0024	<0.0056	<0.0064	<0.0028	<0.0038	<0.00038	<0.00064	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.0051	0.0077	<0.0056	<0.0064	0.0035	0.0056	<0.00125	<0.00211	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.00073	<0.00067	<0.0023	<0.0026	<0.00078	<0.0011	<0.00032	<0.00054	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.00090	<0.00082	<0.0023	<0.0026	<0.00097	<0.0013	<0.00024	<0.00040	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.0017	<0.0016	<0.0056	<0.0064	<0.0019	<0.0026	<0.00229	<0.00386	--	--	--	--	--	--
Chloroform	<0.0015	<0.0014	<0.0023	<0.0026	<0.0017	<0.0022	<0.00037	<0.00063	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.0010	<0.00095	<0.0056	<0.0064	<0.0011	<0.0015	<0.00321	<0.00540	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.00086	<0.00079	<0.0023	<0.0026	<0.00093	<0.0013	<0.00031	<0.00053	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0010	<0.00094	<0.0023	<0.0026	<0.0011	<0.0015	<0.00020	<0.00035	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.00099	<0.00091	<0.0023	<0.0026	<0.0011	<0.0014	<0.00035	<0.00060	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0011	<0.0010	<0.0023	<0.0026	<0.0012	<0.0016	<0.00032	<0.00054	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.00069	<0.00063	<0.0023	<0.0026	<0.00074	<0.0010	<0.00029	<0.00049	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.0023	<0.0021	0.0070	0.0075	<0.0025	<0.0033	<0.00215	<0.00362	760	24	12,000	34	0.02	0.2
Styrene	<0.00096	<0.00088	<0.0023	<0.0026	<0.0010	<0.0014	<0.00024	<0.00040	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0012	<0.0011	<0.0023	<0.0026	<0.0013	<0.0018	<0.00050	<0.00084	110	20	2,400	28	0.06	0.3
Toluene	0.0014	<0.00039	<0.0023	<0.0026	0.00099	0.00079	<0.00039	<0.00066	410,000	650	410,000	42	12	29
Total Xylenes	0.0022	<0.00067	<0.0045	<0.0051	<0.00079	<0.0011	<0.00022	<0.00037	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.00081	<0.00074	<0.0023	<0.0026	<0.00087	<0.0012	<0.00030	<0.00051	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.00058	<0.00053	<0.0023	<0.0026	<0.00063	<0.00085	<0.00030	<0.00050	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.00087	<0.00080	<0.0023	<0.0026	<0.00094	<0.0013	<0.00085	<0.00145	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (30 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	B122 (0-3)	B122 (15-17.5)	B123 (0-3)	B123 (5-7.5)	B125 (0-3)	B125 (7.5-10)	B126 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	2/3/25	2/3/25	2/3/25	2/3/25	2/4/25	2/4/25	2/4/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.000420	<0.00039	<0.0004	<0.00036	<0.00040	<0.00033	<0.00035	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.000546	<0.00051	<0.0006	<0.00047	<0.00052	<0.00043	<0.00046	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.000525	<0.00049	<0.0005	<0.00045	<0.00050	<0.00041	<0.00044	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.000473	<0.00044	<0.0005	<0.00040	<0.00045	<0.00037	<0.00040	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.000504	<0.00047	<0.0005	<0.00043	<0.00048	<0.00039	<0.00042	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.000347	<0.00032	<0.0003	<0.00030	<0.00033	<0.00027	<0.00029	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.00172	<0.00163	<0.0019	<0.00149	<0.00164	<0.00136	<0.00147	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.0918	<0.0177	<0.0886	<0.0837	<0.352	<0.333	<0.343	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.00249	<0.00236	<0.0028	<0.00215	<0.00237	<0.00197	<0.00212	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.000777	<0.00073	<0.0008	<0.00067	<0.00074	<0.00061	<0.00066	--	--	--	--	--	--
Acetone	<0.000788	<0.00074	<0.0008	<0.00068	<0.00075	<0.00062	<0.00067	--	100,000	--	100,000	25	25
Benzene	<0.00558	<0.00528	0.0135	0.0121	<0.00531	0.0135	0.0171	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.000326	<0.00030	<0.0003	<0.00028	<0.00031	<0.00025	<0.00027	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.00172	<0.00163	<0.0019	<0.00149	<0.00164	<0.00136	<0.00147	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.000483	<0.00045	<0.0005	<0.00041	<0.00046	<0.00038	<0.00041	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.00158	<0.00149	0.00797	<0.00136	<0.00150	<0.00125	<0.00134	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.000410	<0.00038	<0.0004	<0.00035	<0.00039	<0.00032	<0.00034	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.000305	<0.00028	<0.0003	<0.00026	<0.00029	<0.00024	<0.00025	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.00289	<0.00273	<0.0032	<0.00250	<0.00275	<0.00229	<0.00246	--	--	--	--	--	--
Chloroform	<0.000473	<0.00044	<0.0005	<0.00040	<0.00045	<0.00037	<0.00040	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.00404	<0.00383	<0.0045	<0.00349	<0.00385	<0.00320	<0.00344	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.000399	<0.00037	<0.0004	<0.00034	<0.00038	<0.00031	<0.00034	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.000263	<0.00024	<0.0002	<0.00022	<0.00025	<0.00020	<0.00022	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.000452	<0.00042	<0.0005	<0.00039	<0.00043	<0.00035	<0.00038	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.000410	<0.00038	<0.0004	<0.00035	<0.00039	<0.00032	<0.00034	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.000368	<0.00034	<0.0004	<0.00031	<0.00035	<0.00029	<0.00031	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.00271	<0.00256	<0.0030	<0.00234	<0.00258	<0.00215	<0.00231	760	24	12,000	34	0.02	0.2
Styrene	<0.000305	<0.00028	<0.0003	<0.00026	<0.00029	<0.00024	<0.00025	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.000630	<0.00059	<0.0007	<0.00054	<0.00060	<0.00049	<0.00053	110	20	2,400	28	0.06	0.3
Toluene	<0.000494	<0.00046	<0.0005	<0.00042	<0.00047	0.00105	<0.00042	410,000	650	410,000	42	12	29
Total Xylenes	<0.000284	<0.00026	<0.0003	<0.00024	<0.00027	<0.00022	<0.00024	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.000389	<0.00036	<0.0004	<0.00033	<0.00037	<0.00030	<0.00033	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.000378	<0.00035	<0.0004	<0.00032	<0.00036	<0.00029	<0.00032	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.00108	<0.00102	<0.0012	<0.00093	<0.00103	<0.00085	<0.00092	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (31 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	B126 (5-7.5)	B127 (0-3)	B127 (5-7.5)	SB128 (0-3)	SB128 (7.5-10)	SB129 (0-3)	SB129 (5-7.5)	SB143 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	2/4/25	2/4/25	2/4/25	2/10/25	2/10/25	2/10/25	2/10/25	2/18/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.000422	<0.00046	<0.0003	<0.00051	<0.00036	<0.00036	<0.00039	<0.00063	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.000549	<0.00060	<0.0004	<0.00067	<0.00047	<0.00047	<0.00051	<0.00082	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.000528	<0.00058	<0.0004	<0.00064	<0.00045	<0.00045	<0.00049	<0.00078	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.000475	<0.00052	<0.0004	<0.00058	<0.00041	<0.00040	<0.00044	<0.00070	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.000507	<0.00056	<0.0004	<0.00062	<0.00043	<0.00043	<0.00047	<0.00075	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.000348	<0.00038	<0.0003	<0.00042	<0.00030	<0.00029	<0.00032	<0.00052	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.00173	<0.00192	<0.0015	<0.00213	<0.00150	<0.00148	<0.00162	<0.00258	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.355	<0.0929	<0.0845	<0.0169	<0.0166	<0.0166	<0.0176	<0.00374	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.00250	<0.00277	<0.0022	<0.00307	<0.00217	<0.00214	<0.00235	<0.00117	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.000781	<0.00086	<0.0006	<0.00095	<0.00067	<0.00066	<0.00073	<0.00118	--	--	--	--	--	--
Acetone	<0.000791	<0.00087	<0.0007	<0.00097	<0.00068	<0.00067	<0.00074	<0.00837	--	100,000	--	100,000	25	25
Benzene	0.0160	0.0358	0.0237	<0.00688	<0.00486	<0.00480	<0.00526	<0.00048	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.000327	<0.00036	0.00352	<0.00040	<0.00028	<0.00028	<0.00030	<0.00258	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.00173	<0.00192	<0.0015	<0.00213	<0.00150	<0.00148	<0.00162	<0.00072	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.000485	<0.00053	<0.0004	<0.00059	<0.00042	<0.00041	<0.00045	<0.00236	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.00158	0.0198	0.0242	0.00530	0.00215	0.00264	0.00507	<0.00061	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.000412	<0.00045	<0.0003	<0.00050	<0.00035	<0.00035	<0.00038	<0.00045	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.000306	<0.00033	<0.0002	<0.00037	<0.00026	<0.00026	<0.00028	<0.00433	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.00290	<0.00322	<0.0025	<0.00356	<0.00252	<0.00249	<0.00272	<0.00070	--	--	--	--	--	--
Chloroform	<0.000475	<0.00052	<0.0004	<0.00058	<0.00041	<0.00040	<0.00044	<0.00607	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.00406	<0.00451	<0.0036	<0.00499	<0.00353	<0.00348	<0.00381	<0.00059	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.000401	<0.00044	<0.0003	<0.00049	<0.00034	<0.00034	<0.00037	<0.00039	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.000264	<0.00029	<0.0002	<0.00032	<0.00022	<0.00022	<0.00024	<0.00067	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.000454	<0.00050	<0.0004	<0.00055	<0.00039	<0.00038	<0.00042	<0.00061	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.000412	<0.00045	<0.0003	<0.00050	<0.00035	<0.00035	0.00125	<0.00055	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.000369	<0.00041	<0.0003	<0.00045	<0.00032	<0.00031	<0.00034	<0.00407	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.00272	<0.00302	<0.0024	<0.00334	<0.00236	<0.00233	<0.00255	<0.00045	760	24	12,000	34	0.02	0.2
Styrene	<0.000306	<0.00033	<0.0002	<0.00037	<0.00026	<0.00026	<0.00028	<0.00094	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.000633	<0.00070	<0.0005	<0.00077	<0.00054	<0.00054	<0.00059	<0.00074	110	20	2,400	28	0.06	0.3
Toluene	<0.000496	0.00246	0.00271	<0.00060	<0.00043	<0.00042	0.00122	<0.00042	410,000	650	410,000	42	12	29
Total Xylenes	<0.000285	<0.00031	<0.0002	<0.00035	<0.00024	<0.00024	0.000772	<0.00058	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.000390	<0.00043	<0.0003	<0.00047	<0.00033	<0.00033	<0.00036	<0.00041	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.000380	<0.00042	<0.0003	<0.00046	<0.00033	<0.00032	<0.00035	<0.00056	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.00109	<0.00121	<0.0009	<0.00133	<0.00094	<0.00093	<0.00102	<0.00162	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 1 (32 of 32)
Soil Sample Analytical Results: VOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB143 (15-17.5)	SB144 (0-3)	SB144 (12.5-15)	SB145 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
					Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	2/18/25	2/18/25	2/18/25	4/8/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.000632	<0.00039	<0.0003	<0.0008	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane	<0.000821	<0.00051	<0.0004	<0.0010	--	--	--	--	--	--
1,1,2-Trichloroethane	<0.000790	<0.00049	<0.0004	<0.0007	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.000711	<0.00044	<0.0004	<0.0007	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.000758	<0.00047	<0.0004	<0.0008	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.000521	<0.00032	<0.0002	<0.0014	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.00259	<0.00162	<0.0014	<0.0005	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)	<0.00374	<0.00234	<0.0021	<0.0023	1,000,000(2)	112,194(2)	408,090(2)	145(2)	17.6(2)	17.6(2)
2-Hexanone	<0.00117	<0.00073	<0.0006	<0.0032	10,220(2)	731(2)	1,020(2)	4.73(2)	0.161(2)	0.161(2)
4-Methyl-2-pentanone (MIBK)	<0.00118	<0.00074	<0.0006	<0.0037	--	--	--	--	--	--
Acetone	<0.00839	<0.00524	<0.0048	<0.0088	--	100,000	--	100,000	25	25
Benzene	<0.000490	<0.00030	<0.0002	<0.0006	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.00259	<0.00162	<0.0014	<0.0006	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.000727	<0.00045	<0.0004	<0.0012	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.00237	<0.00148	<0.0013	<0.0026	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.000616	<0.00038	<0.0003	<0.0009	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.000458	<0.00028	<0.0002	<0.0007	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.00434	<0.00272	<0.0024	<0.0008	41,000	210	4,100	1.3	1	6.5
Chloroethane	<0.000711	<0.00044	<0.0004	<0.0017	--	--	--	--	--	--
Chloroform	<0.00608	<0.00380	<0.0034	<0.0015	940	0.54	2,000	0.76	0.6	2.9
Chloromethane	<0.000600	<0.00037	<0.0003	<0.0010	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.000395	<0.00024	<0.0002	<0.0008	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.000679	<0.00042	<0.0003	<0.0010	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.000616	<0.00038	<0.0003	<0.0009	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.000553	<0.00034	<0.0003	<0.0011	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.00408	<0.00255	<0.0023	<0.0006	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.000458	<0.00028	<0.0002	<0.0022	760	24	12,000	34	0.02	0.2
Styrene	<0.000948	<0.00059	<0.0005	<0.0009	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.000743	<0.00046	<0.0004	<0.0012	110	20	2,400	28	0.06	0.3
Toluene	<0.000427	<0.00026	<0.0002	<0.0004	410,000	650	410,000	42	12	29
Total Xylenes	<0.000585	<0.00036	<0.0003	<0.0007	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.000411	<0.00025	<0.0002	<0.0007	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.000569	<0.00035	<0.0003	<0.0005	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.00163	<0.00102	<0.0009	<0.0008	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)
(2) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (1 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB1 (0-3)	SB1 (5-7.5)	SB2 (0-3)	SB2 (3-5)	SB3 (0-3)	SB3 (5-7.5)	SB4 (0-3)	SB4 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
									Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	8/28/24	8/28/24	8/28/24	8/28/24	8/28/24	8/28/24	8/28/24	8/28/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.074	<0.036	<0.051	<0.055	<0.049	<0.054	<0.054	<0.038	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.042	<0.021	<0.029	<0.031	<0.028	<0.031	<0.031	<0.022	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.047	<0.023	<0.032	<0.035	<0.031	<0.034	<0.034	<0.024	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.049	<0.024	<0.034	<0.036	<0.032	<0.036	<0.036	<0.025	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.039	<0.019	<0.027	<0.029	<0.026	<0.029	<0.028	<0.020	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.035	<0.017	<0.024	<0.026	<0.023	<0.026	<0.026	<0.018	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.037	<0.018	<0.025	<0.027	<0.024	<0.027	<0.027	<0.019	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.23	<0.11	<0.16	<0.17	<0.15	<0.17	<0.17	<0.12	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.60	<0.30	<0.41	<0.44	<0.40	<0.44	<0.44	<0.31	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.059	<0.029	<0.040	<0.043	<0.039	<0.043	<0.043	<0.030	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.035	<0.017	<0.024	<0.026	<0.023	<0.026	<0.026	<0.018	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.039	<0.019	<0.027	<0.029	<0.026	<0.028	<0.028	<0.020	--	--	--	--	--	--	--
2-Chlorophenol	<0.033	<0.016	<0.023	<0.025	<0.022	<0.024	<0.024	<0.017	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.021	<0.010	1.0	0.87	0.032	0.20	0.16	<0.011	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.055	<0.027	<0.037	<0.040	<0.036	<0.040	<0.040	<0.028	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.056	<0.027	<0.038	<0.041	<0.037	<0.041	<0.040	<0.028	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.070	<0.035	<0.048	<0.052	<0.046	<0.051	<0.051	<0.036	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.085	<0.042	<0.058	<0.062	<0.056	<0.062	<0.062	<0.043	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.076	<0.037	<0.052	<0.056	<0.050	<0.055	<0.055	<0.039	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.047	<0.023	<0.032	<0.035	<0.031	<0.034	<0.034	<0.024	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.58	<0.29	<0.40	<0.43	<0.39	<0.43	<0.43	<0.30	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.071	<0.035	<0.049	<0.052	<0.047	<0.052	<0.052	<0.036	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.040	<0.020	<0.028	<0.030	<0.027	<0.029	<0.029	<0.021	--	--	--	--	--	--	--
4-Chloroaniline	<1.1	<0.54	<0.75	<0.80	<0.72	<0.79	<0.79	<0.56	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.14	<0.067	<0.093	<0.10	<0.090	<0.099	<0.099	<0.070	--	--	--	--	--	--	--
4-Nitroaniline	<0.077	<0.038	<0.052	<0.056	<0.050	<0.056	<0.056	<0.039	--	--	--	--	--	--	--
4-Nitrophenol	<0.38	<0.19	<0.26	<0.28	<0.25	<0.28	<0.28	<0.20	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.039	<0.019	<0.027	<0.029	<0.026	<0.028	<0.028	<0.020	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.048	<0.024	<0.033	<0.035	<0.032	<0.035	<0.035	<0.024	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.074	<0.037	<0.051	<0.055	<0.049	<0.054	<0.054	<0.038	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.41	0.27	<0.28	<0.30	<0.27	0.85	<0.30	<0.21	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.052	<0.025	<0.035	<0.038	<0.034	<0.038	<0.038	<0.026	410,000	930	410,000	930	930	930	*
Carbazole	<0.041	<0.020	0.54	0.060	0.081	0.66	0.041	<0.021	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.037	<0.018	0.99	0.24	0.047	0.094	0.068	0.042	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.047	<0.023	<0.033	<0.035	<0.031	<0.035	<0.035	<0.024	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.023	<0.011	<0.015	<0.017	<0.015	<0.016	<0.016	<0.012	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.033	<0.016	<0.022	<0.024	<0.022	<0.024	<0.024	<0.017	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.72	<0.36	<0.50	<0.53	<0.48	<0.53	<0.53	<0.37	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.020	<0.0098	<0.014	<0.015	<0.013	<0.015	<0.014	<0.010	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.058	<0.029	<0.040	<0.043	<0.039	<0.043	<0.043	<0.030	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<1.1	<0.54	<0.75	<0.81	<0.72	<0.80	<0.80	<0.56	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.052	<0.026	<0.036	<0.038	<0.034	<0.038	<0.038	<0.027	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.053	<0.026	<0.037	<0.039	<0.035	<0.039	<0.039	<0.027	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.033	<0.016	<0.022	<0.024	<0.022	<0.024	<0.024	<0.017	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.020	<0.010	<0.014	<0.015	<0.013	<0.015	<0.015	<0.010	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.062	<0.030	<0.042	<0.045	<0.041	<0.045	<0.045	<0.032	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.26	<0.13	<0.18	<0.19	<0.17	<0.19	<0.19	<0.13	24	--	520	--	0.03	0.14	*^
Phenol	<0.045	<0.022	<0.031	<0.033	<0.030	<0.033	<0.033	<0.023	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (2 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB5 (0-3)	SB5 (5-7.5)	SB6 (0-3)	SB6 (3-5)	SB7 (0-3)	SB7 (10-12.5)	SB8 (0-3)	SB8 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
									Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	8/28/24	8/28/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.084	<0.026	<0.050	<0.027	<0.052	<0.027	<0.049	<0.025	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.048	<0.015	<0.029	<0.015	<0.030	<0.015	<0.028	<0.014	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.053	<0.017	<0.032	<0.017	<0.033	<0.017	<0.031	<0.016	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.056	<0.017	<0.033	<0.018	<0.035	<0.018	<0.033	<0.017	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.044	<0.014	<0.026	<0.014	<0.028	<0.014	<0.026	<0.013	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.040	<0.013	<0.024	<0.013	<0.025	<0.013	<0.024	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.042	<0.013	<0.025	<0.013	<0.026	<0.013	<0.024	<0.012	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.26	<0.082	<0.16	<0.083	<0.16	<0.085	<0.15	<0.079	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.68	<0.21	<0.41	<0.21	<0.42	<0.22	<0.40	<0.20	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.067	<0.021	<0.040	<0.021	<0.042	<0.022	<0.039	<0.020	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.040	<0.013	<0.024	<0.013	<0.025	<0.013	<0.024	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.044	<0.014	<0.026	<0.014	<0.027	<0.014	<0.026	<0.013	--	--	--	--	--	--	--
2-Chlorophenol	<0.038	<0.012	<0.023	<0.012	<0.024	<0.012	<0.022	<0.011	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.048	<0.0074	0.047	0.16	0.26	<0.0076	0.014	<0.0071	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.062	<0.019	<0.037	<0.020	<0.039	<0.020	<0.036	<0.019	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.063	<0.020	<0.038	<0.020	<0.039	<0.020	<0.037	<0.019	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.080	<0.025	<0.048	<0.025	<0.050	<0.026	<0.047	<0.024	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.096	<0.030	<0.057	<0.030	<0.060	<0.031	<0.056	<0.029	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.086	<0.027	<0.051	<0.027	<0.053	<0.028	<0.051	<0.026	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.054	<0.017	<0.032	<0.017	<0.033	<0.017	<0.031	<0.016	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.66	<0.21	<0.40	<0.21	<0.41	<0.21	<0.39	<0.20	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.081	<0.025	<0.048	<0.025	<0.050	<0.026	<0.047	<0.024	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.046	<0.014	<0.027	<0.014	<0.028	<0.015	<0.027	<0.014	--	--	--	--	--	--	--
4-Chloroaniline	<1.2	<0.39	<0.74	<0.39	<0.77	<0.40	<0.72	<0.37	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.15	<0.048	<0.092	<0.049	<0.096	<0.050	<0.090	<0.046	--	--	--	--	--	--	--
4-Nitroaniline	<0.087	<0.027	<0.052	<0.027	<0.054	<0.028	<0.051	<0.026	--	--	--	--	--	--	--
4-Nitrophenol	<0.44	<0.14	<0.26	<0.14	<0.27	<0.14	<0.26	<0.13	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.044	<0.014	<0.026	<0.014	<0.027	<0.014	<0.026	<0.013	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.054	<0.017	<0.032	<0.017	<0.034	<0.018	<0.032	<0.016	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.085	<0.026	<0.050	<0.027	<0.052	<0.027	<0.050	<0.025	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.46	<0.14	<0.28	<0.15	<0.29	<0.15	<0.27	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.059	<0.018	<0.035	<0.018	<0.036	<0.019	<0.034	<0.018	410,000	930	410,000	930	930	930	*
Carbazole	<0.047	<0.015	0.033	<0.015	0.066	<0.015	<0.027	<0.014	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.042	<0.013	0.032	0.053	0.12	<0.014	<0.025	<0.013	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.054	<0.017	<0.032	<0.017	<0.033	<0.017	<0.032	0.017	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.026	<0.0080	<0.015	<0.0081	<0.016	<0.0083	<0.015	<0.0076	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.037	<0.012	<0.022	<0.012	<0.023	<0.012	<0.022	<0.011	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.82	<0.26	<0.49	<0.26	<0.51	<0.27	<0.48	<0.25	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.023	<0.0071	<0.013	<0.0071	<0.014	<0.0073	<0.013	<0.0067	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.066	<0.021	<0.040	<0.021	<0.041	<0.021	<0.039	<0.020	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<1.3	<0.39	<0.75	<0.39	<0.77	<0.40	<0.73	<0.37	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.059	<0.018	<0.035	<0.019	<0.037	<0.019	<0.035	<0.018	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.061	<0.019	<0.036	<0.019	<0.038	<0.020	<0.036	<0.018	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.037	<0.012	<0.022	<0.012	<0.023	<0.012	<0.022	<0.011	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.023	<0.0073	<0.014	<0.0073	<0.014	<0.0075	<0.014	<0.0069	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.070	<0.022	<0.042	<0.022	<0.043	<0.023	<0.041	<0.021	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.29	<0.092	<0.18	<0.093	<0.18	<0.095	<0.17	<0.088	24	--	520	--	0.03	0.14	*^
Phenol	<0.051	<0.016	<0.031	<0.016	<0.032	<0.017	<0.030	<0.015	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (3 of 36) Soil Sample Analytical Results: SVOCs 8080 S. Lake Shore Dr. / Chicago, IL								Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Sample ID (Interval)	SB9 (0-3)	SB9 (7.5-10)	SB10 (0-3)	SB10 (5-7.5)	SB11 (0-3)	SB11 (5-7.5)	SB12 (0-3)	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24							
1,2,4-Trichlorobenzene	<0.050	<0.024	<0.051	<0.049	<0.048	<0.054	<0.054	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.028	<0.014	<0.029	<0.028	<0.027	<0.031	<0.031	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.032	<0.015	<0.033	<0.031	<0.030	<0.034	<0.034	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.033	<0.016	<0.034	<0.033	<0.031	<0.036	<0.036	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.026	<0.013	<0.027	<0.026	<0.025	<0.028	<0.029	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.024	<0.011	<0.025	<0.023	<0.023	<0.026	<0.026	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.025	<0.012	<0.025	<0.024	<0.023	<0.027	<0.027	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.16	<0.074	<0.16	0.35	<0.15	<0.17	<0.17	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.40	<0.19	<0.42	<0.40	<0.39	<0.44	<0.44	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.040	<0.019	<0.041	<0.039	<0.038	<0.043	<0.043	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.024	<0.011	<0.025	<0.023	<0.023	<0.026	<0.026	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.026	<0.012	<0.027	<0.026	<0.025	<0.028	<0.028	--	--	--	--	--	--	--
2-Chlorophenol	<0.023	<0.011	<0.023	<0.022	<0.021	<0.024	<0.025	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.068	<0.0067	0.32	4.1	0.046	0.33	0.14	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.037	<0.018	<0.038	0.13	<0.035	<0.040	<0.040	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.037	<0.018	<0.039	<0.037	<0.036	<0.041	<0.041	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.047	<0.023	<0.049	<0.047	<0.045	<0.051	<0.052	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.057	<0.027	<0.059	<0.056	<0.054	<0.062	<0.062	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.051	<0.024	<0.053	0.56	<0.049	<0.055	<0.056	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.032	<0.015	<0.033	<0.031	<0.030	<0.034	<0.035	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.39	<0.19	<0.41	<0.39	<0.38	<0.43	<0.43	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.048	<0.023	<0.049	<0.047	<0.046	<0.052	<0.052	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.027	<0.013	<0.028	<0.027	<0.026	<0.029	<0.030	--	--	--	--	--	--	--
4-Chloroaniline	<0.73	<0.35	<0.76	<0.72	<0.70	<0.79	<0.80	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.092	<0.044	<0.094	<0.090	<0.087	<0.099	<0.10	--	--	--	--	--	--	--
4-Nitroaniline	<0.052	<0.025	<0.053	<0.051	<0.049	<0.056	<0.056	--	--	--	--	--	--	--
4-Nitrophenol	<0.26	<0.12	<0.27	<0.26	<0.25	<0.28	<0.28	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.026	<0.012	<0.027	<0.026	<0.025	<0.028	<0.028	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.032	<0.015	<0.033	<0.032	<0.031	<0.035	<0.035	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.050	<0.024	<0.052	<0.049	<0.048	<0.054	<0.055	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.27	<0.13	<0.28	<0.27	<0.26	<0.30	<0.30	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.035	<0.017	<0.036	<0.034	<0.033	<0.038	<0.038	410,000	930	410,000	930	930	930	*
Carbazole	0.032	<0.013	0.84	**48**	0.20	0.056	0.053	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	0.038	<0.012	0.27	**28**	0.079	0.077	0.061	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.032	0.018	<0.033	<0.032	<0.030	<0.035	<0.035	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.015	<0.0072	<0.016	<0.015	<0.014	<0.016	<0.017	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.022	<0.011	<0.023	<0.022	<0.021	<0.024	<0.024	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.49	<0.23	<0.50	<0.48	<0.47	<0.53	<0.53	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.013	<0.0064	<0.014	<0.013	<0.013	<0.014	<0.015	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.039	<0.019	<0.041	<0.039	<0.038	<0.043	<0.043	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.74	<0.35	<0.76	<0.73	<0.71	<0.80	<0.81	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.035	<0.017	<0.036	<0.035	<0.033	<0.038	<0.038	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.036	<0.017	<0.037	<0.036	<0.034	<0.039	<0.039	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.022	<0.011	<0.023	<0.022	<0.021	<0.024	<0.024	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.014	<0.0066	<0.014	<0.014	<0.013	<0.015	<0.015	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.041	<0.020	<0.043	<0.041	<0.040	<0.045	<0.045	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.17	<0.083	<0.18	<0.17	<0.17	<0.19	<0.19	24	--	520	--	0.03	0.14	*^
Phenol	<0.030	<0.014	<0.031	0.18	<0.029	<0.033	<0.033	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (4 of 36) Soil Sample Analytical Results: SVOCs 8080 S. Lake Shore Dr. / Chicago, IL								Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Sample ID (Interval)	SB12 (7.5-10)	SB13 (0-3)	SB13 (5-7.5)	SB14 (0-3)	SB14 (10-12.5)	SB15 (0-3)	SB15 (7.5-10)	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24							
1,2,4-Trichlorobenzene	<0.025	<0.050	<0.025	<0.050	<0.029	<0.053	<0.024	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.014	<0.029	<0.014	<0.029	<0.016	<0.030	<0.014	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.016	<0.032	<0.016	<0.032	<0.018	<0.034	<0.015	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.016	<0.033	<0.017	<0.033	<0.019	<0.035	<0.016	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.013	<0.027	<0.013	<0.027	<0.015	<0.028	<0.013	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.012	<0.024	<0.012	<0.024	<0.014	<0.025	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.012	<0.025	<0.012	<0.025	<0.014	<0.026	<0.012	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.077	<0.16	<0.079	<0.16	0.13	<0.17	<0.076	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.20	<0.41	<0.21	<0.41	<0.23	<0.43	<0.20	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.020	<0.040	<0.020	<0.040	<0.023	<0.043	<0.019	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.012	<0.024	<0.012	<0.024	<0.014	<0.025	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.013	<0.026	<0.013	<0.026	<0.015	<0.028	<0.013	--	--	--	--	--	--	--
2-Chlorophenol	<0.011	<0.023	<0.011	<0.023	<0.013	<0.024	<0.011	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.0076	0.067	0.085	0.059	0.35	0.051	0.022	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.018	<0.037	<0.019	<0.037	0.028	<0.039	<0.018	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.018	<0.038	<0.019	<0.038	<0.022	<0.040	<0.018	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.023	<0.048	<0.024	<0.048	<0.027	<0.051	<0.023	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.028	<0.058	<0.029	<0.058	<0.033	<0.061	<0.028	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.025	<0.052	<0.026	<0.052	0.14	<0.055	<0.025	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.016	<0.032	<0.016	<0.032	<0.018	<0.034	<0.016	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.19	<0.40	<0.20	<0.40	<0.23	<0.42	<0.19	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.023	<0.048	<0.024	<0.048	<0.028	<0.051	<0.023	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.013	<0.027	<0.014	<0.027	<0.016	<0.029	<0.013	--	--	--	--	--	--	--
4-Chloroaniline	<0.36	<0.74	<0.37	<0.74	<0.42	<0.79	<0.36	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.045	<0.093	<0.046	<0.093	<0.053	<0.098	<0.045	--	--	--	--	--	--	--
4-Nitroaniline	<0.025	<0.052	<0.026	<0.052	<0.030	<0.055	<0.025	--	--	--	--	--	--	--
4-Nitrophenol	<0.13	<0.26	<0.13	<0.26	<0.15	<0.28	<0.13	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.013	<0.026	<0.013	<0.026	<0.015	<0.028	<0.013	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.016	<0.033	<0.016	<0.033	<0.019	<0.035	<0.016	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.025	<0.051	<0.025	<0.051	<0.029	<0.054	<0.024	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.13	<0.28	<0.14	<0.28	<0.16	1.1	0.25	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.017	<0.035	<0.018	<0.035	<0.020	<0.037	<0.017	410,000	930	410,000	930	930	930	*
Carbazole	<0.014	0.031	<0.014	0.039	0.071	0.053	0.035	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.012	0.031	0.029	0.032	0.12	0.034	0.023	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	0.020	<0.032	0.021	<0.032	<0.018	0.051	0.019	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0075	<0.015	<0.0077	<0.015	<0.0088	<0.016	<0.0074	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.011	<0.022	<0.011	<0.022	<0.013	<0.024	0.017	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.24	<0.49	<0.25	<0.49	<0.28	<0.52	<0.24	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0066	<0.014	<0.0068	<0.014	<0.0077	<0.014	<0.0065	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.019	<0.040	<0.020	<0.040	<0.023	<0.042	<0.019	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.36	<0.75	<0.38	<0.75	<0.43	<0.79	<0.36	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.017	<0.035	<0.018	<0.035	<0.020	<0.037	<0.017	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.018	<0.036	<0.018	<0.036	<0.021	<0.039	<0.018	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.011	<0.022	<0.011	<0.022	<0.013	<0.024	<0.011	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0068	<0.014	<0.0070	<0.014	<0.0080	<0.015	<0.0067	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.020	<0.042	<0.021	<0.042	<0.024	<0.044	<0.020	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.086	<0.18	<0.089	<0.18	<0.10	<0.19	<0.085	24	--	520	--	0.03	0.14	*^
Phenol	<0.015	<0.031	<0.015	<0.031	0.27	<0.032	<0.015	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (5 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB16 (0-3)	SB16 (3-5)	SB17 (0-3)	SB17 (5-7.5)	SB18 (0-3)	SB18 (7.5-10)	SB19 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	8/29/24	8/29/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.024	<0.025	<0.026	<0.027	<0.026	<0.027	<0.025	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.014	<0.014	<0.015	<0.015	<0.015	<0.016	<0.014	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.015	<0.016	<0.017	<0.017	<0.016	<0.017	<0.016	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.016	<0.017	<0.017	<0.018	<0.017	<0.018	<0.017	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.013	<0.013	<0.014	<0.014	<0.014	<0.014	<0.013	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.012	<0.012	<0.013	<0.013	<0.012	<0.013	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.012	<0.012	<0.013	<0.013	<0.013	<0.014	<0.012	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.076	<0.079	<0.082	<0.085	<0.081	<0.086	<0.079	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.20	<0.20	<0.21	<0.22	<0.21	<0.22	<0.20	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.019	<0.020	<0.021	<0.022	<0.021	<0.022	<0.020	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.012	<0.012	<0.013	<0.013	<0.012	<0.013	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.013	<0.013	<0.014	<0.014	<0.013	<0.014	<0.013	--	--	--	--	--	--	--
2-Chlorophenol	<0.011	<0.011	<0.012	<0.012	<0.012	<0.012	<0.011	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.0068	0.017	0.054	<0.0076	0.19	0.088	0.10	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.018	<0.019	<0.019	<0.020	<0.019	<0.020	<0.019	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.018	<0.019	<0.020	<0.020	<0.019	<0.021	<0.019	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.023	<0.024	<0.025	<0.026	<0.024	<0.026	<0.024	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.028	<0.029	<0.030	<0.031	<0.029	<0.031	<0.029	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.025	<0.026	<0.027	<0.028	<0.026	<0.028	<0.026	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.016	<0.016	<0.017	<0.017	<0.016	<0.017	<0.016	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.19	<0.20	<0.21	<0.21	<0.20	<0.22	<0.20	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.023	<0.024	<0.025	<0.026	<0.025	<0.026	<0.024	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.013	<0.014	<0.014	<0.015	<0.014	<0.015	<0.014	--	--	--	--	--	--	--
4-Chloroaniline	<0.36	<0.37	<0.39	<0.40	<0.38	<0.40	<0.37	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.045	<0.046	<0.048	<0.050	<0.047	<0.050	<0.046	--	--	--	--	--	--	--
4-Nitroaniline	<0.025	<0.026	<0.027	<0.028	<0.027	<0.028	<0.026	--	--	--	--	--	--	--
4-Nitrophenol	<0.13	<0.13	<0.14	<0.14	<0.13	<0.14	<0.13	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.013	<0.013	<0.014	<0.014	<0.013	<0.014	<0.013	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.016	<0.016	<0.017	<0.017	<0.017	<0.018	<0.016	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.024	<0.025	<0.026	<0.027	<0.026	<0.028	<0.025	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	0.34	<0.14	<0.14	<0.15	<0.14	<0.15	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.017	<0.018	<0.018	<0.019	<0.018	<0.019	<0.018	410,000	930	410,000	930	930	930	*
Carbazole	<0.013	0.026	0.091	<0.015	0.33	0.028	0.062	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.012	<0.013	0.025	<0.013	0.23	0.050	0.055	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.016	<0.016	<0.017	<0.017	<0.017	<0.018	<0.016	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0074	<0.0077	<0.0080	<0.0082	0.25	<0.0084	<0.0077	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.011	<0.011	<0.012	<0.012	<0.011	<0.012	<0.011	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.24	<0.25	<0.26	<0.26	<0.25	<0.27	<0.25	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0065	<0.0068	<0.0070	<0.0073	<0.0069	<0.0074	<0.0068	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.019	<0.020	<0.021	<0.021	<0.020	<0.022	<0.020	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.36	<0.38	<0.39	<0.40	<0.38	<0.41	<0.37	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.017	<0.018	<0.018	<0.019	<0.018	<0.019	<0.018	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.018	<0.018	<0.019	<0.020	<0.019	<0.020	<0.018	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.011	<0.011	<0.012	<0.012	<0.011	<0.012	<0.011	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0067	<0.0070	<0.0073	<0.0075	<0.0071	<0.0076	<0.0070	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.020	<0.021	<0.022	<0.022	<0.021	<0.023	<0.021	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.085	<0.089	<0.092	<0.095	<0.090	<0.096	<0.088	24	--	520	--	0.03	0.14	*^
Phenol	<0.015	<0.015	<0.016	<0.016	<0.016	<0.017	<0.015	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (6 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB19 (5-7.5)	SB20 (0-3)	SB20 (3-5)	SB21 (0-3)	SB21 (12.5-15)	SB22 (0-3)	SB22 (10-12.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.023	<0.026	<0.028	<0.026	<0.052	<0.051	<0.025	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.013	<0.015	<0.016	<0.015	<0.030	<0.029	<0.014	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.015	<0.017	<0.017	<0.017	<0.033	<0.032	<0.016	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.016	<0.017	<0.018	<0.017	<0.034	<0.034	<0.016	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.012	<0.014	<0.015	<0.014	<0.027	<0.027	<0.013	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.011	<0.013	<0.013	<0.012	<0.025	<0.024	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.012	<0.013	<0.014	<0.013	<0.026	<0.025	<0.012	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.073	<0.082	<0.086	<0.082	<0.16	<0.16	<0.078	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.19	<0.21	<0.22	<0.21	<0.42	<0.42	<0.20	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.019	<0.021	<0.022	<0.021	<0.041	<0.041	<0.020	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.011	<0.013	<0.013	<0.012	<0.025	<0.024	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.012	<0.014	<0.014	<0.014	<0.027	<0.027	<0.013	--	--	--	--	--	--	--
2-Chlorophenol	<0.011	<0.012	<0.012	<0.012	<0.023	<0.023	<0.011	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.0066	0.069	0.31	0.083	0.66	<0.014	<0.0070	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.017	<0.019	<0.020	<0.019	<0.038	<0.038	<0.018	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.018	<0.020	<0.021	<0.020	<0.039	<0.039	<0.019	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.022	<0.025	<0.026	<0.025	<0.049	<0.049	<0.024	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.027	<0.030	<0.031	<0.030	<0.059	<0.059	<0.028	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.024	<0.027	<0.028	<0.027	<0.053	<0.053	<0.025	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.015	<0.017	<0.018	<0.017	<0.033	<0.033	<0.016	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.18	<0.21	<0.22	<0.21	<0.41	<0.40	<0.20	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.022	<0.025	<0.026	<0.025	<0.050	<0.049	<0.024	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.013	<0.014	<0.015	<0.014	<0.028	<0.028	<0.014	--	--	--	--	--	--	--
4-Chloroaniline	<0.34	<0.39	<0.40	<0.38	<0.76	<0.75	<0.36	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.043	<0.048	<0.050	<0.048	<0.095	<0.094	<0.046	--	--	--	--	--	--	--
4-Nitroaniline	<0.024	<0.027	<0.028	<0.027	<0.054	<0.053	<0.026	--	--	--	--	--	--	--
4-Nitrophenol	<0.12	<0.14	<0.14	<0.14	<0.27	<0.27	<0.13	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.012	<0.014	<0.014	<0.014	<0.027	<0.027	<0.013	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.015	<0.017	<0.018	<0.017	<0.033	<0.033	<0.016	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.024	<0.026	<0.028	<0.026	<0.052	<0.052	<0.025	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	0.20	<0.14	0.16	<0.14	<0.28	<0.28	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.016	<0.018	<0.019	<0.018	<0.036	<0.036	<0.017	410,000	930	410,000	930	930	930	*
Carbazole	<0.013	0.12	0.76	0.18	<0.029	<0.028	<0.014	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.012	0.072	0.54	0.060	0.067	0.043	<0.012	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.015	<0.017	<0.018	<0.017	<0.033	<0.033	<0.016	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0071	<0.0080	<0.0084	<0.0079	<0.016	<0.016	<0.0076	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.010	<0.012	<0.012	<0.012	<0.023	<0.023	<0.011	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.23	<0.26	<0.27	<0.26	<0.51	<0.50	<0.24	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0063	<0.0070	<0.0074	<0.0070	<0.014	<0.014	<0.0067	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.018	<0.021	<0.022	<0.021	<0.041	<0.040	<0.020	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.35	<0.39	<0.41	<0.39	<0.77	<0.76	<0.37	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.016	<0.018	<0.019	<0.018	<0.036	<0.036	<0.017	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.017	<0.019	<0.020	<0.019	<0.037	<0.037	<0.018	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.010	<0.012	<0.012	<0.012	<0.023	<0.023	<0.011	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0065	<0.0073	<0.0076	<0.0072	<0.014	<0.014	<0.0069	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.019	<0.022	<0.023	<0.022	<0.043	<0.043	<0.021	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.082	<0.092	<0.096	<0.091	<0.18	<0.18	<0.087	24	--	520	--	0.03	0.14	*^
Phenol	<0.014	<0.016	<0.017	<0.016	<0.032	<0.031	<0.015	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (7 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB23 (0-3)	SB23 (5-7.5)	SB24 (0-3)	SB24 (7.5-10)	SB25 (0-3)	SB25 (3-5)	SB26 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	8/30/24	8/30/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.025	<0.025	<0.051	<0.051	<0.047	<0.049	<0.026	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.014	<0.014	<0.029	<0.029	<0.027	<0.028	<0.015	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.016	<0.016	<0.032	<0.032	<0.030	<0.031	<0.017	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.017	<0.016	<0.034	<0.034	<0.031	<0.033	<0.017	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.013	<0.013	<0.027	<0.027	<0.025	<0.026	<0.014	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.012	<0.012	<0.024	<0.024	<0.023	<0.024	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.013	<0.012	<0.025	<0.025	<0.023	<0.024	<0.013	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.079	<0.078	<0.16	<0.16	<0.15	<0.16	<0.082	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.21	<0.20	<0.41	<0.41	<0.38	<0.40	<0.21	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.020	<0.020	<0.041	<0.041	<0.038	<0.039	<0.021	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.012	<0.012	<0.024	<0.024	<0.023	<0.024	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.013	<0.013	<0.027	<0.027	<0.025	<0.026	<0.014	--	--	--	--	--	--	--
2-Chlorophenol	<0.011	<0.011	<0.023	<0.023	<0.021	<0.022	<0.012	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.060	0.045	0.18	0.072	0.036	0.081	<0.0074	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.019	<0.018	<0.038	<0.038	<0.035	<0.037	<0.019	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.019	<0.019	<0.038	<0.038	<0.035	<0.037	<0.020	20,440(4)	38.8(4)	--	--	--	--	--
2-Nitrophenol	<0.024	<0.024	<0.048	<0.049	<0.045	<0.047	<0.025	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.029	<0.028	<0.058	<0.058	<0.054	<0.057	<0.030	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	0.034	<0.025	0.097	<0.052	<0.048	<0.051	<0.027	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.016	<0.016	<0.032	<0.033	<0.030	<0.032	<0.017	--	--	20,405(4)	2(4)	0.882(4)	0.882(4)	--
4,6-Dinitro-2-methylphenol	<0.20	<0.20	<0.40	<0.40	<0.37	<0.39	<0.21	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.024	<0.024	<0.049	<0.049	<0.045	<0.047	<0.025	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.014	<0.013	<0.028	<0.028	<0.026	<0.027	<0.014	--	--	--	--	--	--	--
4-Chloroaniline	<0.37	<0.36	<0.75	<0.75	<0.69	<0.73	<0.38	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.047	<0.045	<0.093	<0.094	<0.087	<0.091	<0.048	--	--	--	--	--	--	--
4-Nitroaniline	<0.026	<0.026	<0.053	<0.053	<0.049	<0.051	<0.027	--	--	--	--	--	--	--
4-Nitrophenol	<0.13	<0.13	<0.26	<0.27	<0.25	<0.26	<0.14	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.013	<0.013	<0.027	<0.027	<0.025	<0.026	<0.014	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.016	<0.016	<0.033	<0.033	<0.030	<0.032	<0.017	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.025	<0.025	<0.051	<0.051	<0.047	<0.050	<0.026	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.14	<0.14	0.43	<0.28	<0.26	<0.27	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.018	<0.017	<0.035	<0.036	<0.033	<0.034	<0.018	410,000	930	410,000	930	930	930	*
Carbazole	0.032	0.11	0.37	0.061	0.41	2.2	<0.014	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	0.043	0.054	0.25	0.046	0.12	0.46	<0.013	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.016	<0.016	<0.033	<0.033	<0.030	<0.032	<0.017	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0077	<0.0075	<0.015	<0.016	<0.014	<0.015	<0.0080	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.011	<0.011	0.074	<0.023	<0.021	<0.022	<0.012	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.25	<0.24	<0.50	<0.50	<0.46	<0.48	<0.26	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0068	<0.0066	<0.014	<0.014	<0.013	<0.013	<0.0070	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.020	<0.020	<0.040	<0.040	<0.037	<0.039	<0.021	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.38	<0.37	<0.75	<0.76	<0.70	<0.73	<0.39	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.018	<0.017	<0.036	<0.036	<0.033	<0.035	<0.018	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.018	<0.018	<0.037	<0.037	<0.034	<0.036	<0.019	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.011	<0.011	<0.023	<0.023	<0.021	<0.022	<0.012	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0070	<0.0068	<0.014	<0.014	<0.013	<0.014	<0.0072	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.021	<0.021	<0.042	<0.043	<0.039	<0.041	<0.022	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.089	<0.087	<0.18	<0.18	<0.17	<0.17	<0.092	24	--	520	--	0.03	0.14	*^
Phenol	0.047	<0.015	0.082	<0.031	<0.029	<0.030	<0.016	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (8 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB26 (7.5-10)	SB27 (0-3)	SB27 (5-7.5)	SB28 (0-3)	SB28 (10-12.5)	SB29 (0-3)	SB29 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.026	<0.040	<0.044	<0.039	<0.028	<0.027	<0.053	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.015	<0.023	<0.025	<0.022	<0.016	<0.016	<0.030	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.016	<0.025	<0.028	<0.025	<0.018	<0.017	<0.034	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.017	<0.026	<0.029	<0.026	<0.019	<0.018	<0.035	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.014	<0.021	<0.023	<0.020	<0.015	<0.014	<0.028	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.012	<0.019	<0.021	<0.018	<0.014	<0.013	<0.025	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.013	<0.020	<0.022	<0.019	<0.014	<0.014	<0.026	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.082	<0.13	<0.14	<0.12	<0.089	<0.086	<0.17	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.21	<0.32	<0.36	<0.31	<0.23	<0.22	<0.43	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.021	<0.032	<0.035	<0.031	<0.023	<0.022	<0.042	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.012	<0.019	<0.021	<0.018	<0.014	<0.013	<0.025	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.014	<0.021	<0.023	<0.020	<0.015	<0.014	<0.028	--	--	--	--	--	--	--
2-Chlorophenol	<0.012	<0.018	<0.020	<0.017	<0.013	<0.012	<0.024	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.0073	0.044	0.062	0.035	0.021	0.19	0.12	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.019	<0.029	<0.033	<0.029	<0.021	<0.020	<0.039	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.020	<0.030	<0.033	<0.029	<0.021	<0.021	<0.040	20,440(4)	38.8(4)	--	--	--	--	--
2-Nitrophenol	<0.025	<0.038	<0.042	<0.037	<0.027	<0.026	<0.050	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.030	<0.046	<0.050	<0.044	<0.032	<0.031	<0.061	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.027	<0.041	<0.045	<0.040	<0.029	<0.028	<0.055	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.017	<0.025	<0.028	<0.025	<0.018	<0.017	<0.034	--	--	20,405(4)	2(4)	0.882(4)	0.882(4)	--
4,6-Dinitro-2-methylphenol	<0.21	<0.31	<0.35	<0.31	<0.22	<0.22	<0.42	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.025	<0.038	<0.042	<0.037	<0.027	<0.026	<0.051	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.014	<0.022	<0.024	<0.021	<0.015	<0.015	<0.029	--	--	--	--	--	--	--
4-Chloroaniline	<0.38	<0.59	<0.65	<0.57	<0.42	<0.40	<0.78	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.048	<0.073	<0.081	<0.071	<0.052	<0.050	<0.098	--	--	--	--	--	--	--
4-Nitroaniline	<0.027	<0.041	<0.046	<0.040	<0.029	<0.028	<0.055	--	--	--	--	--	--	--
4-Nitrophenol	<0.14	<0.21	<0.23	<0.20	<0.15	<0.14	<0.28	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.014	<0.021	<0.023	<0.020	<0.015	<0.014	<0.028	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.017	<0.026	<0.028	<0.025	<0.018	<0.018	<0.034	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.026	<0.040	<0.044	<0.039	<0.028	<0.028	<0.053	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.14	<0.22	<0.24	<0.21	<0.16	<0.15	<0.29	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.018	<0.028	<0.031	<0.027	<0.020	<0.019	<0.037	410,000	930	410,000	930	930	930	*
Carbazole	<0.014	<0.022	<0.024	<0.021	<0.016	0.032	0.039	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.013	<0.020	<0.022	0.024	<0.014	0.071	0.043	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.017	<0.026	<0.028	<0.025	<0.018	<0.018	<0.034	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0079	<0.012	<0.013	<0.012	<0.0086	<0.0083	<0.016	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.012	<0.018	<0.020	<0.017	<0.013	<0.012	<0.024	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.26	<0.39	<0.43	<0.38	<0.28	<0.27	<0.52	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0070	<0.011	<0.012	<0.010	<0.0076	<0.0074	<0.014	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.021	<0.031	<0.035	<0.031	<0.022	<0.022	<0.042	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.39	<0.59	<0.65	<0.58	<0.42	<0.41	<0.79	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.018	<0.028	<0.031	<0.027	<0.020	<0.019	<0.037	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.019	<0.029	<0.032	<0.028	<0.020	<0.020	<0.038	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.012	<0.018	<0.020	<0.017	<0.013	<0.012	<0.024	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0072	<0.011	<0.012	<0.011	<0.0078	<0.0076	<0.015	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.022	<0.033	<0.037	<0.032	<0.024	0.071	<0.044	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.091	<0.14	<0.15	<0.14	<0.099	<0.096	<0.19	24	--	520	--	0.03	0.14	*^
Phenol	<0.016	<0.024	<0.027	<0.024	<0.017	<0.017	<0.032	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (9 of 36) Soil Sample Analytical Results: SVOCs 8080 S. Lake Shore Dr. / Chicago, IL								Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Sample ID (Interval)	SB30 (0-3)	SB30 (12.5-15)	SB31 (0-3)	SB31 (7.5-10)	SB32 (0-3)	SB32 (5-7.5)	SB33 (0-3)	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	9/3/24	9/3/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24							
1,2,4-Trichlorobenzene	<0.051	<0.12	<0.026	<0.028	<0.026	<0.026	<0.026	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.029	<0.067	<0.015	<0.016	<0.015	<0.015	<0.015	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.032	<0.074	<0.016	<0.018	<0.016	<0.017	<0.016	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.034	<0.078	<0.017	<0.019	<0.017	<0.017	<0.017	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.027	<0.062	<0.014	<0.015	<0.014	<0.014	<0.014	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.024	<0.056	<0.012	<0.014	<0.012	<0.013	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.025	<0.058	<0.013	<0.014	<0.013	<0.013	<0.013	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.16	<0.37	<0.081	<0.089	<0.081	<0.083	<0.080	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.41	<0.95	<0.21	<0.23	<0.21	<0.21	<0.21	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.041	<0.094	<0.021	<0.023	<0.021	<0.021	<0.020	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.024	<0.056	<0.012	<0.014	<0.012	<0.013	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.027	<0.061	<0.013	<0.015	<0.014	<0.014	<0.013	--	--	--	--	--	--	--
2-Chlorophenol	<0.023	<0.053	<0.012	<0.013	<0.012	<0.012	<0.012	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.14	<0.033	0.011	0.051	0.048	0.19	0.026	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.038	<0.087	<0.019	<0.021	<0.019	<0.019	<0.019	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.038	<0.088	<0.019	<0.021	<0.019	<0.020	<0.019	20,440(4)	38.8(4)	--	--	--	--	--
2-Nitrophenol	<0.048	<0.11	<0.024	<0.027	<0.025	<0.025	<0.024	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.058	<0.13	<0.029	<0.032	<0.030	<0.030	<0.029	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.052	<0.12	<0.026	<0.029	<0.027	<0.027	<0.026	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.033	<0.075	<0.016	<0.018	<0.017	<0.017	<0.016	--	--	20,405(4)	2(4)	0.882(4)	0.882(4)	--
4,6-Dinitro-2-methylphenol	<0.40	<0.93	<0.20	<0.22	<0.20	<0.21	<0.20	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.049	<0.11	<0.025	<0.027	<0.025	<0.025	<0.025	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.028	<0.064	<0.014	<0.015	<0.014	<0.014	<0.014	--	--	--	--	--	--	--
4-Chloroaniline	<0.75	<1.7	<0.38	<0.42	<0.38	<0.39	<0.38	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.094	<0.22	<0.047	<0.052	<0.048	<0.048	<0.047	--	--	--	--	--	--	--
4-Nitroaniline	<0.053	<0.12	<0.027	<0.029	<0.027	<0.027	<0.026	--	--	--	--	--	--	--
4-Nitrophenol	<0.26	<0.61	<0.13	<0.15	<0.13	<0.14	<0.13	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.027	<0.061	<0.013	<0.015	<0.014	<0.014	<0.013	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.033	<0.076	<0.017	<0.018	<0.017	<0.017	<0.017	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.051	<0.12	<0.026	<0.028	<0.026	<0.027	<0.026	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.28	<0.64	<0.14	<0.16	<0.14	<0.14	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.036	<0.082	<0.018	<0.020	<0.018	<0.018	<0.018	410,000	930	410,000	930	930	930	*
Carbazole	0.061	<0.065	0.035	<0.016	0.037	0.087	0.028	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	0.088	<0.058	0.021	0.024	0.032	0.065	0.033	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.033	<0.075	<0.017	<0.018	<0.017	<0.017	<0.016	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.016	<0.036	<0.0078	<0.0086	<0.0079	<0.0080	<0.0078	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.023	<0.052	<0.011	<0.013	<0.011	<0.012	<0.011	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.50	<1.1	<0.25	<0.28	<0.25	<0.26	<0.25	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.014	<0.032	<0.0069	<0.0076	<0.0070	<0.0071	<0.0069	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.040	<0.093	<0.020	<0.022	<0.020	<0.021	<0.020	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.76	<1.7	<0.38	<0.42	<0.38	<0.39	<0.38	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.036	<0.082	<0.018	<0.020	<0.018	<0.018	<0.018	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.037	<0.085	<0.019	<0.020	<0.019	<0.019	<0.018	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.023	<0.052	<0.011	<0.013	<0.011	<0.012	<0.011	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.014	<0.032	<0.0071	<0.0078	<0.0072	<0.0073	<0.0071	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.042	<0.098	<0.021	<0.024	<0.022	<0.022	<0.021	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.18	<0.41	<0.090	<0.099	<0.091	<0.092	<0.090	24	--	520	--	0.03	0.14	*^
Phenol	<0.031	<0.071	<0.016	<0.017	<0.016	<0.016	0.044	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (10 of 36) Soil Sample Analytical Results: SVOCs 8080 S. Lake Shore Dr. / Chicago, IL								Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Sample ID (Interval)	SB33 (5-7.5)	SB34 (0-3)	SB34 (5-7.5)	SB35 (0-3)	SB35 (7.5-10)	SB36 (0-3)	SB36 (5-7.5)	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24							
1,2,4-Trichlorobenzene	<0.028	<0.027	<0.026	<0.050	<0.026	<0.051	<0.051	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.016	<0.015	<0.015	<0.028	<0.015	<0.029	<0.029	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.018	<0.017	<0.016	<0.031	<0.016	<0.032	<0.033	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.019	<0.018	<0.017	<0.033	<0.017	<0.034	<0.034	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.015	<0.014	<0.014	<0.026	<0.014	<0.027	<0.027	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.014	<0.013	<0.012	<0.024	<0.012	<0.024	<0.024	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.014	<0.013	<0.013	<0.025	<0.013	<0.025	<0.025	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.089	<0.084	<0.081	<0.16	<0.081	<0.16	<0.16	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.23	<0.22	<0.21	<0.40	<0.21	<0.41	<0.42	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.023	<0.021	<0.021	<0.040	<0.021	<0.041	<0.041	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.014	<0.013	<0.012	<0.024	<0.012	<0.024	<0.024	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.015	<0.014	<0.013	<0.026	<0.014	<0.027	<0.027	--	--	--	--	--	--	--
2-Chlorophenol	<0.013	<0.012	<0.012	<0.022	<0.012	<0.023	<0.023	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.054	0.092	0.065	0.043	0.048	0.093	0.077	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.021	<0.020	<0.019	<0.037	<0.019	<0.038	<0.038	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.021	<0.020	<0.019	<0.037	<0.019	<0.038	<0.039	20,440(4)	38.8(4)	--	--	--	--	--
2-Nitrophenol	<0.027	<0.025	<0.024	<0.047	<0.025	<0.049	<0.049	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.032	<0.030	<0.029	<0.057	<0.030	<0.059	<0.059	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.029	<0.027	<0.026	<0.051	<0.027	<0.052	<0.053	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.018	<0.017	<0.016	<0.032	<0.016	<0.033	<0.033	--	--	20,405(4)	2(4)	0.882(4)	0.882(4)	--
4,6-Dinitro-2-methylphenol	<0.22	<0.21	<0.20	<0.39	<0.20	<0.40	<0.41	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.027	<0.026	<0.025	<0.048	<0.025	<0.049	<0.049	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.015	<0.015	<0.014	<0.027	<0.014	<0.028	<0.028	--	--	--	--	--	--	--
4-Chloroaniline	<0.42	<0.39	<0.38	<0.73	<0.38	<0.75	<0.75	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.052	<0.049	<0.047	<0.091	<0.048	<0.094	<0.094	--	--	--	--	--	--	--
4-Nitroaniline	<0.029	<0.028	<0.027	<0.051	<0.027	<0.053	<0.053	--	--	--	--	--	--	--
4-Nitrophenol	<0.15	<0.14	<0.13	<0.26	<0.13	<0.27	<0.27	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.015	<0.014	<0.013	<0.026	<0.014	<0.027	<0.027	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.018	<0.017	<0.017	<0.032	<0.017	<0.033	<0.033	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.028	<0.027	<0.026	<0.050	<0.026	<0.051	<0.052	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.16	<0.15	<0.14	<0.27	<0.14	<0.28	<0.28	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.020	0.031	<0.018	0.052	<0.018	<0.036	<0.036	410,000	930	410,000	930	930	930	*
Carbazole	<0.016	0.050	0.023	0.073	0.056	0.036	0.037	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	0.026	0.091	0.021	0.052	0.036	0.18	0.066	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.018	<0.017	<0.016	<0.032	<0.017	<0.033	<0.033	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0086	0.022	<0.0078	0.079	<0.0079	<0.016	<0.016	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.013	<0.012	<0.011	<0.022	<0.011	<0.023	<0.023	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.28	<0.26	<0.25	<0.49	<0.25	<0.50	<0.50	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0076	<0.0071	<0.0069	<0.013	<0.0069	<0.014	<0.014	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.022	<0.021	<0.020	<0.039	<0.020	<0.040	<0.041	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.42	<0.40	<0.38	<0.74	<0.38	<0.76	<0.76	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.020	<0.019	<0.018	<0.035	<0.018	<0.036	<0.036	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.020	<0.019	<0.019	<0.036	<0.019	<0.037	<0.037	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.013	<0.012	<0.011	<0.022	<0.011	<0.023	<0.023	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0078	<0.0074	<0.0071	<0.014	<0.0072	<0.014	<0.014	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.024	<0.022	<0.021	<0.041	<0.022	<0.043	<0.043	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.099	<0.093	<0.090	<0.17	<0.091	<0.18	<0.18	24	--	520	--	0.03	0.14	*^
Phenol	<0.017	<0.016	<0.016	<0.030	<0.016	<0.031	<0.031	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (11 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB37 (0-3)	SB37 (12.5-15)	SB38 (0-3)	SB38 (12.5-15)	SB39 (0-3)	SB39 (7.5-10)	SB40 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.052	<0.026	<0.052	<0.025	<0.051	<0.026	<0.049	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.030	<0.015	<0.029	<0.014	<0.029	<0.015	<0.028	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.033	<0.017	<0.033	<0.016	<0.032	<0.016	<0.031	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.034	<0.017	<0.034	<0.017	<0.034	<0.017	<0.032	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.027	<0.014	<0.027	<0.013	<0.027	<0.014	<0.026	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.025	<0.012	<0.025	<0.012	<0.024	<0.012	<0.023	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.026	<0.013	<0.026	<0.012	<0.025	<0.013	<0.024	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.16	<0.082	<0.16	<0.078	<0.16	<0.081	<0.15	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.42	<0.21	<0.42	<0.20	<0.41	<0.21	<0.39	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.041	<0.021	<0.041	<0.020	<0.041	<0.021	<0.039	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.025	<0.012	<0.025	<0.012	<0.024	<0.012	<0.023	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.027	<0.014	<0.027	<0.013	<0.027	<0.014	<0.025	--	--	--	--	--	--	--
2-Chlorophenol	<0.023	<0.012	<0.023	<0.011	<0.023	<0.012	<0.022	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.17	0.037	0.023	0.14	0.076	0.024	0.043	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.038	<0.019	<0.038	<0.018	<0.038	<0.019	0.051	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.039	<0.020	<0.039	<0.019	<0.038	<0.019	<0.036	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.049	<0.025	<0.049	<0.024	<0.048	<0.025	<0.046	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.059	<0.030	<0.059	<0.029	<0.058	<0.030	<0.055	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.053	<0.027	<0.053	<0.026	<0.052	<0.027	<0.050	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.033	<0.017	<0.033	<0.016	<0.032	<0.017	<0.031	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.41	<0.21	<0.41	<0.20	<0.40	<0.20	<0.38	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.050	<0.025	<0.049	<0.024	<0.049	<0.025	<0.046	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.028	<0.014	<0.028	<0.014	<0.028	<0.014	<0.026	--	--	--	--	--	--	--
4-Chloroaniline	<0.76	<0.38	<0.76	<0.37	<0.75	<0.38	<0.71	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.095	<0.048	<0.095	<0.046	<0.094	<0.048	<0.089	--	--	--	--	--	--	--
4-Nitroaniline	<0.054	<0.027	<0.053	<0.026	<0.053	<0.027	<0.050	--	--	--	--	--	--	--
4-Nitrophenol	<0.27	<0.14	<0.27	<0.13	<0.26	<0.13	<0.25	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.027	<0.014	<0.027	<0.013	<0.027	<0.014	<0.025	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.033	<0.017	<0.033	<0.016	<0.033	<0.017	<0.031	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.052	<0.026	<0.052	<0.025	<0.051	<0.026	<0.049	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.28	<0.14	<0.28	<0.14	<0.28	<0.14	<0.27	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.036	<0.018	<0.036	<0.017	<0.036	<0.018	<0.034	410,000	930	410,000	930	930	930	*
Carbazole	0.038	<0.014	0.17	0.65	1.3	0.13	0.32	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	0.087	0.018	0.041	0.36	0.36	0.049	0.095	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.033	<0.017	<0.033	<0.016	<0.033	<0.017	<0.031	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.016	<0.0080	<0.016	<0.0076	<0.016	<0.0079	<0.015	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.023	<0.012	<0.023	<0.011	<0.023	<0.011	<0.022	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.51	<0.26	<0.51	<0.24	<0.50	<0.25	<0.48	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.014	<0.0070	<0.014	<0.0067	<0.014	<0.0070	<0.013	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.041	<0.021	<0.041	<0.020	<0.040	<0.020	<0.038	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.77	<0.39	<0.77	<0.37	<0.76	<0.39	<0.72	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.036	<0.018	<0.036	<0.017	<0.036	<0.018	<0.034	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.037	<0.019	<0.037	<0.018	<0.037	<0.019	<0.035	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.023	<0.012	<0.023	<0.011	<0.023	<0.011	<0.022	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.014	<0.0072	<0.014	<0.0069	<0.014	<0.0072	<0.013	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.043	<0.022	<0.043	<0.021	<0.042	<0.022	<0.040	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.18	<0.092	<0.18	<0.087	<0.18	<0.091	<0.17	24	--	520	--	0.03	0.14	*^
Phenol	<0.032	<0.016	<0.031	<0.015	<0.031	0.099	0.17	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (12 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB40 (5-7.5)	SB41 (0-3)	SB41 (5-7.5)	SB42 (0-3)	SB42 (7.5-10)	SB43 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
							Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.027	<0.090	<0.078	<0.074	<0.034	<0.077	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.015	<0.051	<0.045	<0.042	<0.020	<0.044	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.017	<0.057	<0.050	<0.047	<0.022	<0.049	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.018	<0.060	<0.052	<0.049	<0.023	<0.051	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.014	<0.048	<0.041	<0.039	<0.018	<0.040	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.013	<0.043	<0.037	<0.035	<0.016	<0.037	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.013	<0.044	<0.039	<0.037	<0.017	<0.038	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	0.12	<0.28	<0.25	<0.23	<0.11	<0.24	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.22	<0.73	<0.63	<0.60	<0.28	<0.62	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.021	<0.072	<0.062	<0.059	<0.027	<0.061	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.013	<0.043	<0.037	<0.035	<0.016	<0.037	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.014	<0.047	<0.041	<0.039	<0.018	<0.040	--	--	--	--	--	--	--
2-Chlorophenol	<0.012	<0.041	<0.035	<0.033	<0.015	<0.035	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.12	1.6	0.14	0.11	<0.0096	<0.022	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.020	<0.067	<0.058	<0.055	<0.025	<0.057	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.020	<0.068	<0.059	<0.056	<0.026	<0.058	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.025	<0.086	<0.074	<0.070	<0.033	<0.073	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.031	<0.10	<0.090	<0.085	<0.039	<0.088	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	0.12	<0.092	<0.080	<0.076	<0.035	<0.079	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.017	<0.057	<0.050	<0.047	<0.022	<0.049	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.21	<0.71	<0.62	<0.58	<0.27	<0.61	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.026	<0.086	<0.075	<0.071	<0.033	<0.073	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.015	<0.049	<0.043	<0.040	<0.019	<0.042	--	--	--	--	--	--	--
4-Chloroaniline	<0.39	<1.3	<1.2	<1.1	<0.50	<1.1	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.049	<0.17	<0.14	<0.14	<0.063	<0.14	--	--	--	--	--	--	--
4-Nitroaniline	<0.028	<0.093	<0.081	<0.076	<0.035	<0.079	--	--	--	--	--	--	--
4-Nitrophenol	<0.14	<0.47	<0.41	<0.38	<0.18	<0.40	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.014	<0.047	<0.041	<0.039	<0.018	<0.040	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.017	<0.058	<0.051	<0.048	<0.022	<0.050	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.027	<0.091	<0.079	<0.074	<0.034	<0.077	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.15	<0.49	<0.43	<0.41	<0.19	<0.42	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	0.020	<0.063	<0.055	<0.052	<0.024	<0.053	410,000	930	410,000	930	930	930	*
Carbazole	0.091	**12**	1.2	0.47	<0.019	<0.042	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	0.063	6.3	0.44	0.17	<0.017	<0.038	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.017	<0.058	<0.050	<0.047	<0.022	<0.049	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0081	<0.027	<0.024	<0.023	<0.010	<0.023	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.012	<0.040	<0.035	<0.033	<0.015	<0.034	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.26	<0.88	<0.77	<0.72	<0.34	<0.75	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0072	<0.024	<0.021	<0.020	<0.0092	<0.021	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.021	<0.071	<0.062	<0.058	<0.027	<0.061	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.40	<1.3	<1.2	<1.1	<0.51	<1.1	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.019	<0.063	<0.055	<0.052	<0.024	<0.054	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.019	<0.065	<0.057	<0.053	<0.025	<0.055	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.012	<0.040	<0.035	<0.033	<0.015	<0.034	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0074	<0.025	<0.022	<0.020	<0.0095	<0.021	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.022	<0.075	<0.065	<0.061	<0.029	<0.064	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.094	<0.32	<0.27	<0.26	<0.12	<0.27	24	--	520	--	0.03	0.14	*^
Phenol	0.81	<0.055	<0.048	<0.045	<0.021	<0.047	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (13 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB43 (10-12.5)	SB44 (0-3)	SB44 (5-7.5)	SB45 (0-3)	SB45 (5-7.5)	SB46 (0-3)	SB46 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/4/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.052	<0.025	<0.027	<0.024	<0.051	<0.051	<0.050	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.030	<0.014	<0.015	<0.014	<0.029	<0.029	<0.028	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.033	<0.016	<0.017	<0.015	<0.032	<0.032	<0.032	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.035	<0.017	<0.018	<0.016	<0.034	<0.033	<0.033	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.028	<0.013	<0.014	<0.013	<0.027	<0.027	<0.026	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.025	<0.012	<0.013	<0.012	<0.024	<0.024	<0.024	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.026	<0.012	<0.013	<0.012	<0.025	<0.025	<0.025	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.16	<0.078	<0.083	<0.076	<0.16	<0.16	<0.16	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.42	<0.20	<0.22	<0.20	<0.41	<0.41	<0.41	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.042	<0.020	<0.021	<0.019	<0.041	<0.040	<0.040	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.025	<0.012	<0.013	<0.012	<0.024	<0.024	<0.024	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.027	<0.013	<0.014	<0.013	<0.027	<0.026	<0.026	--	--	--	--	--	--	--
2-Chlorophenol	<0.024	<0.011	<0.012	<0.011	<0.023	<0.023	<0.023	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.62	0.50	0.13	0.12	0.16	0.32	0.18	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.039	<0.018	<0.020	<0.018	0.046	<0.037	<0.037	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.039	<0.019	<0.020	<0.018	<0.038	<0.038	<0.038	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.050	<0.024	<0.025	<0.023	<0.048	<0.048	<0.047	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.060	<0.029	<0.030	<0.028	<0.058	<0.058	<0.057	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.054	<0.026	<0.027	<0.025	0.19	<0.052	<0.051	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.033	<0.016	<0.017	<0.015	<0.032	<0.032	<0.032	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.41	<0.20	<0.21	<0.19	<0.40	<0.40	<0.39	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.050	<0.024	<0.026	<0.023	<0.049	<0.048	<0.048	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.029	<0.014	<0.014	<0.013	<0.028	<0.028	<0.027	--	--	--	--	--	--	--
4-Chloroaniline	<0.77	<0.37	<0.39	<0.36	<0.75	<0.74	<0.73	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.096	<0.046	<0.049	<0.044	<0.093	<0.093	<0.092	--	--	--	--	--	--	--
4-Nitroaniline	<0.054	<0.026	<0.028	<0.025	<0.053	<0.052	<0.052	--	--	--	--	--	--	--
4-Nitrophenol	<0.27	<0.13	<0.14	<0.13	<0.26	<0.26	<0.26	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.027	<0.013	<0.014	<0.013	<0.027	<0.026	<0.026	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.034	<0.016	<0.017	<0.016	<0.033	<0.033	<0.032	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.053	<0.025	<0.027	<0.024	<0.051	<0.051	<0.050	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.29	<0.14	<0.15	<0.13	<0.28	<0.28	<0.27	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.037	<0.017	<0.019	<0.017	<0.035	<0.035	<0.035	410,000	930	410,000	930	930	930	*
Carbazole	0.043	<0.014	<0.015	<0.013	0.48	0.46	0.22	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	0.17	0.091	0.038	0.034	0.26	1.5	0.55	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.034	<0.016	<0.017	<0.016	<0.033	<0.032	<0.032	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.016	<0.0076	<0.0081	<0.0074	<0.015	<0.015	<0.015	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.023	<0.011	<0.012	<0.011	<0.023	<0.022	<0.022	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.51	<0.24	<0.26	<0.24	<0.50	<0.50	<0.49	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.014	<0.0067	<0.0071	<0.0065	<0.014	<0.014	<0.013	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.041	<0.020	<0.021	<0.019	<0.040	<0.040	<0.039	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.78	<0.37	<0.40	<0.36	<0.75	<0.75	<0.74	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.037	<0.017	<0.019	<0.017	<0.036	<0.035	<0.035	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.038	<0.018	<0.019	<0.017	<0.037	<0.036	<0.036	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.023	<0.011	<0.012	<0.011	<0.023	<0.022	<0.022	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.014	<0.0069	<0.0074	<0.0067	<0.014	<0.014	<0.014	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.044	<0.021	<0.022	<0.020	<0.042	<0.042	<0.042	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.18	<0.087	<0.093	<0.085	<0.18	<0.18	<0.18	24	--	520	--	0.03	0.14	*^
Phenol	<0.032	1.0	<0.016	<0.015	0.069	<0.031	<0.030	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (14 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB47 (0-3)	SB47 (7.5-10)	SB48 (0-3)	SB48 (5-7.5)	SB49 (0-3)	SB49 (10-12.5)	SB50 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.026	<0.025	<0.051	<0.050	<0.026	<0.030	<0.024	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.015	<0.014	<0.029	<0.029	<0.015	<0.017	<0.014	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.016	<0.016	<0.032	<0.032	<0.016	<0.019	<0.015	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.017	<0.017	<0.034	<0.033	<0.017	<0.020	<0.016	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.014	<0.013	<0.027	<0.027	<0.014	<0.016	<0.013	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.012	<0.012	<0.024	<0.024	<0.012	<0.014	<0.011	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.013	<0.013	<0.025	<0.025	<0.013	<0.015	<0.012	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.081	<0.080	<0.16	<0.16	<0.081	<0.095	<0.075	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.21	<0.21	<0.41	<0.41	<0.21	<0.25	<0.19	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.021	<0.020	<0.041	<0.040	<0.021	<0.024	<0.019	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.012	<0.012	<0.024	<0.024	<0.012	<0.014	<0.011	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.014	<0.013	<0.027	<0.026	<0.014	<0.016	<0.013	--	--	--	--	--	--	--
2-Chlorophenol	<0.012	<0.011	<0.023	<0.023	<0.012	<0.014	<0.011	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.0073	<0.0071	<0.014	1.4	<0.0073	<0.0085	0.14	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.019	<0.019	<0.038	<0.037	<0.019	<0.022	<0.018	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.019	<0.019	<0.038	<0.038	<0.019	<0.023	<0.018	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.025	<0.024	<0.048	<0.048	<0.025	<0.029	<0.023	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.030	<0.029	<0.058	<0.058	<0.030	<0.035	<0.027	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.027	<0.026	<0.052	<0.052	<0.027	<0.031	<0.025	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.016	<0.016	<0.033	<0.032	<0.016	<0.019	<0.015	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.20	<0.20	<0.40	<0.40	<0.20	<0.24	<0.19	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.025	<0.024	<0.049	<0.048	<0.025	<0.029	<0.023	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.014	<0.014	<0.028	<0.027	<0.014	<0.017	<0.013	--	--	--	--	--	--	--
4-Chloroaniline	<0.38	<0.37	<0.75	<0.74	<0.38	<0.45	<0.35	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.047	<0.047	<0.094	<0.092	<0.047	<0.056	<0.044	--	--	--	--	--	--	--
4-Nitroaniline	<0.027	<0.026	<0.053	<0.052	<0.027	<0.031	<0.025	--	--	--	--	--	--	--
4-Nitrophenol	<0.13	<0.13	<0.27	<0.26	<0.13	<0.16	<0.12	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.014	<0.013	<0.027	<0.026	<0.014	<0.016	<0.013	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.017	<0.016	<0.033	<0.032	<0.017	<0.020	<0.015	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.026	<0.026	<0.051	<0.051	<0.026	<0.030	<0.024	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	0.24	<0.14	<0.28	<0.28	<0.14	<0.17	<0.13	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.018	<0.018	<0.036	<0.035	<0.018	<0.021	<0.017	410,000	930	410,000	930	930	930	*
Carbazole	0.056	0.11	0.19	**4.8**	0.015	<0.017	0.028	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.013	0.16	0.10	3.5	<0.013	<0.015	0.038	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.017	<0.016	<0.033	<0.032	<0.017	<0.019	<0.015	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0079	<0.0077	<0.016	<0.015	<0.0079	<0.0092	<0.0073	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.011	<0.011	<0.023	<0.022	<0.011	<0.013	<0.011	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.25	<0.25	<0.50	<0.49	<0.25	<0.30	<0.23	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0069	<0.0068	<0.014	<0.014	<0.0069	<0.0081	<0.0064	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.020	<0.020	<0.040	<0.040	<0.020	<0.024	<0.019	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.38	<0.38	<0.76	<0.75	<0.38	<0.45	<0.36	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.018	<0.018	<0.036	<0.035	<0.018	<0.021	<0.017	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.019	<0.018	<0.037	<0.036	<0.019	<0.022	<0.017	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.011	<0.011	<0.023	<0.022	<0.011	<0.013	<0.011	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0071	<0.0070	<0.014	<0.014	<0.0071	<0.0084	<0.0066	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.022	<0.021	<0.042	<0.042	<0.022	<0.025	<0.020	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.091	<0.089	<0.18	<0.18	<0.091	<0.11	<0.084	24	--	520	--	0.03	0.14	*^
Phenol	<0.016	<0.015	<0.031	<0.031	<0.016	<0.018	<0.015	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (15 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB50 (7.5-10)	SB51 (0-3)	SB51 (5-7.5)	SB52 (0-3)	SB52 (7.5-10)	SB53 (0-3)	SB53 (10-12.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.053	0.70	<0.027	<0.056	<0.056	<0.054	<0.027	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.030	<0.016	<0.015	<0.032	<0.032	<0.031	<0.016	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.033	<0.018	<0.017	<0.036	<0.035	<0.034	<0.017	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.035	<0.018	<0.018	<0.037	<0.037	<0.036	<0.018	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.028	<0.015	<0.014	<0.030	<0.029	<0.028	<0.014	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.025	<0.013	<0.013	<0.027	<0.026	<0.026	<0.013	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.026	<0.014	<0.013	<0.028	<0.027	<0.026	<0.013	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.17	<0.087	<0.084	<0.18	<0.17	<0.17	<0.085	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.43	<0.23	<0.22	<0.45	<0.45	<0.43	<0.22	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.042	<0.022	<0.021	<0.045	<0.044	<0.043	<0.022	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.025	<0.013	<0.013	<0.027	<0.026	<0.026	<0.013	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.028	<0.015	<0.014	<0.029	<0.029	<0.028	<0.014	--	--	--	--	--	--	--
2-Chlorophenol	<0.024	<0.013	<0.012	<0.025	<0.025	<0.024	<0.012	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.015	0.71	<0.0075	0.080	0.88	0.22	<0.0077	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.039	<0.021	<0.020	<0.041	<0.041	<0.040	<0.020	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.040	<0.021	<0.020	<0.042	<0.042	<0.040	<0.020	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.050	<0.026	<0.025	<0.053	<0.053	<0.051	<0.026	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.060	<0.032	<0.031	<0.064	<0.064	<0.061	<0.031	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.054	<0.029	<0.027	<0.058	<0.057	<0.055	<0.028	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.034	<0.018	<0.017	<0.036	<0.035	<0.034	<0.017	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.42	<0.22	<0.21	<0.44	<0.44	<0.42	<0.22	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.050	<0.027	<0.026	<0.054	<0.053	<0.051	<0.026	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.029	<0.015	<0.015	<0.031	<0.030	<0.029	<0.015	--	--	--	--	--	--	--
4-Chloroaniline	<0.77	<0.41	<0.39	<0.82	<0.82	<0.79	<0.40	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.097	<0.051	<0.049	<0.10	<0.10	<0.098	<0.050	--	--	--	--	--	--	--
4-Nitroaniline	<0.054	<0.029	<0.028	<0.058	<0.057	<0.055	<0.028	--	--	--	--	--	--	--
4-Nitrophenol	<0.27	<0.14	<0.14	<0.29	<0.29	<0.28	<0.14	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.028	<0.015	<0.014	<0.029	<0.029	<0.028	<0.014	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.034	<0.018	<0.017	<0.036	<0.036	<0.035	<0.018	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.053	<0.028	<0.027	<0.056	<0.056	<0.054	<0.027	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.29	<0.15	<0.15	<0.31	<0.30	<0.29	<0.15	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.037	<0.019	<0.019	<0.039	<0.039	<0.037	<0.019	410,000	930	410,000	930	930	930	*
Carbazole	0.14	0.040	<0.015	0.089	0.095	0.054	<0.015	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	0.092	0.17	<0.013	0.13	0.17	0.079	<0.014	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.034	<0.018	<0.017	<0.036	<0.036	<0.034	<0.017	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.016	<0.0085	<0.0081	<0.017	<0.017	<0.016	<0.0083	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.023	<0.012	<0.012	<0.025	<0.025	<0.024	<0.012	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.52	<0.27	<0.26	<0.55	<0.54	<0.53	<0.27	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.014	<0.0075	<0.0072	<0.015	<0.015	<0.014	<0.0073	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.042	<0.022	<0.021	<0.044	<0.044	<0.042	<0.022	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.78	<0.41	<0.40	<0.83	<0.83	<0.80	<0.41	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.037	<0.019	<0.019	<0.039	<0.039	<0.038	<0.019	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.038	<0.020	<0.019	<0.041	<0.040	<0.039	<0.020	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.023	<0.012	<0.012	<0.025	<0.025	<0.024	<0.012	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.015	<0.0077	<0.0074	<0.016	<0.015	<0.015	<0.0075	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.044	<0.023	<0.022	<0.047	<0.046	<0.045	<0.023	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.18	<0.097	<0.094	<0.20	<0.19	<0.19	<0.096	24	--	520	--	0.03	0.14	*^
Phenol	<0.032	<0.017	<0.016	<0.034	<0.034	<0.033	<0.017	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (16 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB54 (0-3)	SB54 (10-12.5)	SB55 (0-3)	SB55 (5-7.5)	SB56 (0-3)	SB56 (5-7.5)	SB57 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/5/24	9/5/24	9/5/24	9/5/24	9/6/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.054	<0.060	<0.050	<0.056	<0.026	<0.028	<0.025	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.031	<0.034	<0.029	<0.032	<0.015	<0.016	<0.014	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.034	<0.038	<0.032	<0.035	<0.017	<0.018	<0.016	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.036	<0.040	<0.033	<0.037	<0.017	<0.018	<0.017	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.029	<0.032	<0.026	<0.029	<0.014	<0.015	<0.013	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.026	<0.028	<0.024	<0.027	<0.013	<0.013	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.027	<0.029	<0.025	<0.027	<0.013	<0.014	<0.012	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.17	<0.19	<0.16	<0.17	<0.082	<0.087	<0.079	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.44	<0.48	<0.41	<0.45	<0.21	<0.23	<0.20	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.043	<0.048	<0.040	<0.044	<0.021	<0.022	<0.020	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.026	<0.028	<0.024	<0.027	<0.013	<0.013	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.029	<0.031	<0.026	<0.029	<0.014	<0.015	<0.013	--	--	--	--	--	--	--
2-Chlorophenol	<0.025	<0.027	<0.023	<0.025	<0.012	<0.013	<0.011	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.033	0.034	0.028	0.034	0.025	0.074	<0.0071	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.040	<0.044	<0.037	<0.041	<0.019	<0.021	<0.019	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.041	<0.045	<0.038	<0.042	<0.020	<0.021	<0.019	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.052	<0.057	<0.048	<0.053	<0.025	<0.026	<0.024	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.062	<0.068	<0.057	<0.064	<0.030	<0.032	<0.029	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.056	<0.061	<0.051	<0.057	<0.027	<0.029	<0.026	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.035	<0.038	<0.032	<0.035	<0.017	<0.018	<0.016	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.43	<0.47	<0.40	<0.44	<0.21	<0.22	<0.20	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.052	<0.057	<0.048	<0.053	<0.025	<0.027	<0.024	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.030	<0.033	<0.027	<0.030	<0.014	<0.015	<0.014	--	--	--	--	--	--	--
4-Chloroaniline	<0.80	<0.88	<0.74	<0.82	<0.39	<0.41	<0.37	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.10	<0.11	<0.092	<0.10	<0.048	<0.051	<0.046	--	--	--	--	--	--	--
4-Nitroaniline	<0.056	<0.062	<0.052	<0.057	<0.027	<0.029	<0.026	--	--	--	--	--	--	--
4-Nitrophenol	<0.28	<0.31	<0.26	<0.29	<0.14	<0.14	<0.13	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.029	<0.031	<0.026	<0.029	<0.014	<0.015	<0.013	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.035	<0.039	<0.032	<0.036	<0.017	<0.018	<0.016	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.055	<0.060	<0.050	<0.056	<0.026	<0.028	<0.025	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.30	<0.33	<0.27	<0.31	<0.14	<0.15	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.038	<0.042	<0.035	<0.039	<0.018	<0.019	<0.018	410,000	930	410,000	930	930	930	*
Carbazole	0.035	<0.033	0.035	<0.031	<0.014	<0.015	<0.014	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.027	<0.030	<0.025	<0.028	<0.013	0.029	<0.013	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.035	<0.038	<0.032	0.044	<0.017	<0.018	<0.016	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.017	<0.018	<0.015	<0.017	<0.0080	<0.0085	<0.0077	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.024	<0.026	<0.022	<0.025	<0.012	<0.012	<0.011	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.53	<0.58	<0.49	<0.54	<0.26	<0.27	<0.25	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.015	<0.016	<0.013	<0.015	<0.0070	<0.0075	<0.0068	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.043	<0.047	<0.040	<0.044	<0.021	<0.022	<0.020	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.81	<0.89	<0.74	<0.83	<0.39	<0.41	<0.38	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.038	<0.042	<0.035	<0.039	<0.018	<0.020	<0.018	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.039	<0.043	<0.036	<0.040	<0.019	<0.020	<0.018	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.024	<0.026	<0.022	<0.025	<0.012	<0.012	<0.011	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.015	<0.017	<0.014	<0.015	<0.0072	<0.0077	<0.0070	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.045	<0.050	<0.042	<0.046	<0.022	<0.023	<0.021	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.19	<0.21	<0.18	<0.19	<0.092	<0.098	<0.088	24	--	520	--	0.03	0.14	*^
Phenol	<0.033	<0.036	<0.030	<0.034	<0.016	<0.017	<0.015	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (17 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB57 (7.5-10)	SB58 (0-3)	SB58 (10-12.5)	SB59 (0-3)	SB59 (5-7.5)	SB60 (0-3)	SB60 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.027	<0.051	<0.049	<0.052	<0.049	<0.050	<0.049	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.015	<0.029	<0.028	<0.030	<0.028	<0.029	<0.028	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.017	<0.032	<0.031	<0.033	<0.031	<0.032	<0.031	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.018	<0.034	<0.032	<0.035	<0.033	<0.033	<0.033	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.014	<0.027	<0.026	<0.027	<0.026	<0.026	<0.026	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.013	<0.024	<0.023	<0.025	<0.024	<0.024	<0.023	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.013	<0.025	<0.024	<0.026	<0.024	<0.025	<0.024	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.083	<0.16	<0.15	<0.16	<0.15	<0.16	<0.15	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.21	<0.41	<0.39	<0.42	<0.40	<0.41	<0.40	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.021	<0.041	<0.039	<0.042	<0.039	<0.040	<0.039	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.013	<0.024	<0.023	<0.025	<0.024	<0.024	<0.023	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.014	<0.027	<0.025	<0.027	<0.026	<0.026	<0.026	--	--	--	--	--	--	--
2-Chlorophenol	<0.012	<0.023	<0.022	<0.024	<0.022	<0.023	<0.022	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.0075	<0.014	<0.014	0.14	0.016	0.039	0.025	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.020	<0.038	<0.036	<0.038	<0.036	<0.037	<0.036	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.020	<0.038	<0.036	<0.039	<0.037	<0.038	<0.037	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.025	<0.049	<0.046	<0.049	<0.047	<0.048	<0.047	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.030	<0.058	<0.056	<0.060	<0.056	<0.057	<0.056	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.027	<0.052	<0.050	<0.053	<0.051	<0.051	<0.050	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.017	<0.033	<0.031	<0.033	<0.031	<0.032	<0.031	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.21	<0.40	<0.38	<0.41	<0.39	<0.40	<0.39	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.025	<0.049	<0.047	<0.050	<0.047	<0.048	<0.047	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.014	<0.028	<0.026	<0.028	<0.027	<0.027	<0.027	--	--	--	--	--	--	--
4-Chloroaniline	<0.39	<0.75	<0.71	<0.76	<0.72	<0.74	<0.72	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.049	<0.094	<0.089	<0.096	<0.091	<0.092	<0.090	--	--	--	--	--	--	--
4-Nitroaniline	<0.027	<0.053	<0.050	<0.054	<0.051	<0.052	<0.051	--	--	--	--	--	--	--
4-Nitrophenol	<0.14	<0.27	<0.25	<0.27	<0.26	<0.26	<0.25	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.014	<0.027	<0.025	<0.027	<0.026	<0.026	<0.026	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.017	<0.033	<0.031	<0.034	<0.032	<0.032	<0.032	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.027	<0.051	<0.049	<0.052	<0.050	<0.050	<0.049	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.15	<0.28	<0.27	<0.29	<0.27	<0.27	<0.27	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.018	0.16	<0.034	<0.036	<0.034	<0.035	<0.034	410,000	930	410,000	930	930	930	*
Carbazole	<0.015	<0.028	<0.027	0.21	<0.027	<0.028	<0.027	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.013	<0.025	<0.024	0.10	<0.025	<0.025	<0.024	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.017	<0.033	<0.031	<0.033	<0.032	<0.032	<0.031	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0081	<0.016	<0.015	<0.016	<0.015	<0.015	<0.015	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.012	<0.023	<0.022	<0.023	<0.022	<0.022	<0.022	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.26	<0.50	<0.48	<0.51	<0.48	<0.49	<0.48	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0071	<0.014	<0.013	<0.014	<0.013	<0.013	<0.013	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.021	<0.040	<0.038	<0.041	<0.039	<0.040	<0.039	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.39	<0.76	<0.72	<0.77	<0.73	<0.74	<0.73	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.019	<0.036	<0.034	<0.036	<0.035	<0.035	<0.034	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.019	<0.037	<0.035	<0.038	<0.036	<0.036	<0.035	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.012	<0.023	<0.022	<0.023	<0.022	<0.022	<0.022	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0073	<0.014	<0.013	<0.014	<0.014	<0.014	<0.014	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.022	<0.043	<0.040	<0.043	<0.041	<0.042	<0.041	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.093	<0.18	<0.17	<0.18	<0.17	<0.18	<0.17	24	--	520	--	0.03	0.14	*^
Phenol	<0.016	<0.031	<0.030	<0.032	<0.030	<0.030	<0.030	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (18 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB61 (0-3)	SB61 (17.5-19)	SB62 (0-3)	SB62 (7.5-10)	SB63 (0-3)	SB63 (5-7.5)	SB64 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.051	<0.38	<0.028	<0.028	<0.026	<0.028	<0.053	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.029	<0.21	<0.016	<0.016	<0.015	<0.016	<0.030	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.032	<0.24	<0.018	<0.017	<0.016	<0.018	<0.034	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.034	<0.25	<0.018	<0.018	<0.017	<0.019	<0.035	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.027	<0.20	<0.015	<0.015	<0.014	<0.015	<0.028	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.024	<0.18	<0.013	<0.013	<0.012	<0.013	<0.025	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.025	<0.19	<0.014	<0.014	<0.013	<0.014	<0.026	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.16	<1.2	<0.087	<0.087	<0.080	<0.088	<0.17	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.41	<3.1	<0.22	<0.22	<0.21	<0.23	<0.43	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.041	**<0.30**	<0.022	<0.022	<0.020	<0.022	<0.042	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.024	<0.18	<0.013	<0.013	<0.012	<0.013	<0.025	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.027	<0.20	<0.014	<0.014	<0.013	<0.015	<0.028	--	--	--	--	--	--	--
2-Chlorophenol	<0.023	<0.17	<0.013	<0.012	<0.012	<0.013	<0.024	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.090	2.0	<0.0078	<0.0078	0.011	0.017	0.067	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.038	<0.28	<0.020	<0.020	<0.019	<0.021	<0.039	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.038	<0.28	<0.021	<0.021	<0.019	<0.021	<0.040	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.048	<0.36	<0.026	<0.026	<0.024	<0.027	<0.050	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.058	<0.43	<0.032	<0.032	<0.029	<0.032	<0.061	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.052	<0.39	<0.028	<0.028	<0.026	<0.029	<0.054	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.032	<0.24	<0.018	<0.018	<0.016	<0.018	<0.034	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.40	<3.0	<0.22	<0.22	<0.20	<0.22	<0.42	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.049	<0.36	<0.027	<0.026	<0.025	<0.027	<0.051	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.028	<0.21	<0.015	<0.015	<0.014	<0.015	<0.029	--	--	--	--	--	--	--
4-Chloroaniline	<0.75	<5.5	<0.41	<0.41	<0.38	<0.41	<0.78	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.094	<0.69	<0.051	<0.051	<0.047	<0.051	<0.097	--	--	--	--	--	--	--
4-Nitroaniline	<0.053	<0.39	<0.029	<0.029	<0.027	<0.029	<0.055	--	--	--	--	--	--	--
4-Nitrophenol	<0.26	<2.0	<0.14	<0.14	<0.13	<0.15	<0.28	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.027	<0.20	<0.014	<0.014	<0.013	<0.015	<0.028	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.033	<0.24	<0.018	<0.018	<0.017	<0.018	<0.034	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.051	<0.38	<0.028	<0.028	<0.026	<0.028	<0.053	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.28	<2.1	<0.15	<0.15	<0.14	<0.15	<0.29	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.035	<0.26	<0.019	<0.019	<0.018	<0.020	<0.037	410,000	930	410,000	930	930	930	*
Carbazole	0.042	<0.21	<0.015	<0.015	0.038	0.037	0.29	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	0.11	1.8	<0.014	<0.014	0.013	0.038	0.13	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.033	<0.24	<0.018	<0.018	<0.016	<0.018	<0.034	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.016	<0.11	<0.0084	<0.0084	<0.0078	<0.0085	<0.016	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.023	<0.17	<0.012	<0.012	<0.011	<0.012	<0.024	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.50	<3.7	<0.27	<0.27	<0.25	<0.27	<0.52	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.014	<0.10	<0.0074	<0.0074	<0.0069	<0.0075	<0.014	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.040	<0.30	<0.022	<0.022	<0.020	<0.022	<0.042	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.76	<5.6	<0.41	<0.41	<0.38	<0.42	<0.79	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.036	<0.26	<0.019	<0.019	<0.018	<0.020	<0.037	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.037	<0.27	<0.020	<0.020	<0.019	<0.020	<0.038	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.023	<0.17	<0.012	<0.012	<0.011	<0.012	<0.024	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.014	<0.10	<0.0077	<0.0076	<0.0071	<0.0077	<0.015	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.042	<0.31	<0.023	<0.023	<0.021	<0.023	<0.044	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.18	<1.3	<0.097	<0.097	<0.090	<0.098	<0.19	24	--	520	--	0.03	0.14	*^
Phenol	<0.031	<0.23	<0.017	<0.017	<0.016	<0.017	<0.032	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (19 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB64 (7.5-10)	SB65 (0-3)	SB65 (7.5-10)	SB66 (0-3)	SB66 (5-7.5)	SB67 (0-3)	SB67 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.060	<0.025	<0.051	<0.052	<0.051	<0.050	<0.026	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.034	<0.014	<0.029	<0.030	<0.029	<0.028	<0.015	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.038	<0.016	<0.032	<0.033	<0.032	<0.032	<0.016	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.040	<0.016	<0.034	<0.034	<0.034	<0.033	<0.017	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.032	<0.013	<0.027	<0.027	<0.027	<0.026	<0.014	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.029	<0.012	<0.024	<0.025	<0.024	<0.024	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.030	<0.012	<0.025	<0.026	<0.025	<0.025	<0.013	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.19	<0.078	<0.16	<0.16	<0.16	<0.16	<0.082	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.49	<0.20	<0.41	<0.42	<0.41	<0.40	<0.21	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.048	<0.020	<0.041	<0.041	<0.040	<0.040	<0.021	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.029	<0.012	<0.024	<0.025	<0.024	<0.024	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.031	<0.013	<0.027	<0.027	<0.026	<0.026	<0.014	--	--	--	--	--	--	--
2-Chlorophenol	<0.027	<0.011	<0.023	<0.023	<0.023	<0.023	<0.012	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.026	0.014	<0.014	0.019	<0.014	<0.014	0.012	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.044	<0.018	<0.038	<0.038	<0.037	<0.037	<0.019	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.045	<0.019	<0.038	<0.039	<0.038	<0.037	<0.020	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.057	<0.024	<0.048	<0.049	<0.048	<0.047	<0.025	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.069	<0.028	<0.058	<0.059	<0.058	<0.057	<0.030	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.062	<0.026	<0.052	<0.053	<0.052	<0.051	<0.027	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.038	<0.016	<0.032	<0.033	<0.032	<0.032	<0.017	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.47	<0.20	<0.40	<0.41	<0.40	<0.39	<0.21	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.057	<0.024	<0.049	<0.050	<0.049	<0.048	<0.025	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.033	<0.014	<0.028	<0.028	<0.028	<0.027	<0.014	--	--	--	--	--	--	--
4-Chloroaniline	<0.88	<0.37	<0.75	<0.76	<0.74	<0.73	<0.38	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.11	<0.046	<0.093	<0.095	<0.093	<0.092	<0.048	--	--	--	--	--	--	--
4-Nitroaniline	<0.062	<0.026	<0.053	<0.054	<0.052	<0.052	<0.027	--	--	--	--	--	--	--
4-Nitrophenol	<0.31	<0.13	<0.26	<0.27	<0.26	<0.26	<0.14	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.031	<0.013	<0.027	<0.027	<0.026	<0.026	<0.014	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.039	<0.016	<0.033	<0.034	<0.033	<0.032	<0.017	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.060	<0.025	<0.051	<0.052	<0.051	<0.050	<0.026	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.33	<0.14	<0.28	<0.29	1.1	<0.27	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.042	<0.017	<0.035	<0.036	<0.035	<0.035	<0.018	410,000	930	410,000	930	930	930	*
Carbazole	<0.033	0.043	<0.028	0.16	0.053	0.043	0.019	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.030	0.035	<0.025	0.044	0.032	<0.025	<0.013	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.038	<0.016	0.050	0.047	0.045	0.036	0.031	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.018	<0.0076	<0.015	<0.016	<0.015	<0.015	<0.0079	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.027	<0.011	<0.023	<0.023	<0.022	<0.022	<0.012	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.59	<0.24	<0.50	<0.51	<0.50	<0.49	<0.26	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.016	<0.0067	<0.014	<0.014	<0.014	<0.013	<0.0070	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.047	<0.020	<0.040	<0.041	<0.040	<0.039	<0.021	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.89	<0.37	<0.75	<0.77	<0.75	<0.74	<0.39	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.042	<0.017	<0.036	<0.036	<0.035	<0.035	<0.018	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.043	<0.018	<0.037	<0.038	<0.037	<0.036	<0.019	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.027	<0.011	<0.023	<0.023	<0.022	<0.022	<0.012	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.017	<0.0069	<0.014	<0.014	<0.014	<0.014	<0.0072	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.050	<0.021	<0.042	<0.043	<0.042	<0.041	<0.022	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.21	<0.087	<0.18	<0.18	<0.18	<0.17	<0.091	24	--	520	--	0.03	0.14	*^
Phenol	<0.036	<0.015	<0.031	<0.032	<0.031	<0.030	<0.016	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (20 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB68 (0-3)	SB68 (7.5-10)	SB69 (0-3)	SB69 (3-5)	SB70 (0-3)	SB70 (12.5-15)	SB70 (17.5-20)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/9/24	9/9/24	9/9/24	9/9/24	9/9/24	9/9/24	9/9/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.049	<0.051	<0.052	<0.052	<0.024	<0.051	<0.027	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.028	<0.029	<0.029	<0.030	<0.014	<0.029	<0.016	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.031	<0.032	<0.033	<0.033	<0.015	<0.032	<0.017	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.032	<0.034	<0.034	<0.034	<0.016	<0.034	<0.018	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.026	<0.027	<0.027	<0.027	<0.013	<0.027	<0.014	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.023	<0.024	<0.025	<0.025	<0.012	<0.024	<0.013	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.024	<0.025	<0.026	<0.026	<0.012	<0.025	<0.013	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.15	<0.16	<0.16	<0.16	<0.077	<0.16	<0.086	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.39	<0.41	<0.42	<0.42	<0.20	<0.41	<0.22	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.039	<0.041	<0.041	<0.041	<0.019	<0.041	<0.022	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.023	<0.024	<0.025	<0.025	<0.012	<0.024	<0.013	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.025	<0.027	<0.027	<0.027	<0.013	<0.027	<0.014	--	--	--	--	--	--	--
2-Chlorophenol	<0.022	<0.023	<0.023	<0.023	<0.011	<0.023	<0.012	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.047	0.040	<0.015	0.023	0.0071	4.3	<0.0077	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.036	<0.038	<0.038	<0.038	<0.018	<0.038	<0.020	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.037	<0.038	<0.039	<0.039	<0.018	<0.038	<0.021	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.046	<0.049	<0.049	<0.049	<0.023	<0.048	<0.026	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.056	<0.059	<0.059	<0.059	<0.028	<0.058	<0.031	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.050	<0.052	<0.053	<0.053	<0.025	<0.052	<0.028	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.031	<0.033	<0.033	<0.033	<0.016	<0.032	<0.017	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.38	<0.40	<0.41	<0.41	<0.19	<0.40	<0.22	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.047	<0.049	<0.049	<0.050	<0.023	<0.049	<0.026	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.026	<0.028	<0.028	<0.028	<0.013	<0.028	<0.015	--	--	--	--	--	--	--
4-Chloroaniline	<0.71	<0.75	<0.76	<0.76	<0.36	<0.75	<0.40	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.089	<0.094	<0.095	<0.095	<0.045	<0.094	<0.050	--	--	--	--	--	--	--
4-Nitroaniline	<0.050	<0.053	<0.053	<0.054	<0.025	<0.053	<0.028	--	--	--	--	--	--	--
4-Nitrophenol	<0.25	<0.27	<0.27	<0.27	<0.13	<0.26	<0.14	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.025	<0.027	<0.027	<0.027	<0.013	<0.027	<0.014	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.031	<0.033	<0.033	<0.034	<0.016	<0.033	<0.018	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.049	<0.051	<0.052	<0.052	<0.025	<0.051	<0.027	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.27	<0.28	<0.28	<0.29	<0.13	<0.28	<0.15	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.034	<0.036	<0.036	<0.036	<0.017	<0.036	<0.019	410,000	930	410,000	930	930	930	*
Carbazole	0.24	0.12	0.032	0.044	<0.014	<0.028	<0.015	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	0.11	0.049	<0.026	<0.026	0.014	2.9	<0.014	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.031	<0.033	<0.033	<0.033	<0.016	<0.033	<0.018	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.015	<0.016	<0.016	<0.016	<0.0074	<0.016	<0.0083	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.022	<0.023	<0.023	<0.023	<0.011	<0.023	<0.012	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.48	<0.50	<0.51	<0.51	<0.24	<0.50	<0.27	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.013	<0.014	<0.014	<0.014	<0.0066	<0.014	<0.0073	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.038	<0.040	<0.041	<0.041	<0.019	<0.040	<0.022	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.72	<0.76	<0.77	<0.77	<0.36	<0.76	<0.41	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.034	<0.036	<0.036	<0.036	<0.017	<0.036	<0.019	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.035	<0.037	<0.037	<0.037	<0.018	<0.037	<0.020	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.022	<0.023	<0.023	<0.023	<0.011	<0.023	<0.012	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.013	<0.014	<0.014	<0.014	<0.0068	<0.014	<0.0076	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.040	<0.043	<0.043	<0.043	<0.020	<0.042	<0.023	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.17	<0.18	<0.18	<0.18	<0.086	<0.18	<0.096	24	--	520	--	0.03	0.14	*^
Phenol	<0.030	<0.031	<0.031	<0.032	<0.015	<0.031	<0.017	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (21 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB71 (0-3)	SB72 (0-3)	SB72 (7.5-10)	SB73 (0-3)	SB73 (5-7.5)	SB74 (0-3)	SB74 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/9/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.051	<0.029	<0.027	<0.025	<0.027	<0.027	<0.028	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.029	<0.017	<0.015	<0.014	<0.016	<0.015	<0.016	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.032	<0.018	<0.017	<0.016	<0.017	<0.017	<0.018	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.033	<0.019	<0.018	<0.017	<0.018	<0.018	<0.018	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.027	<0.015	<0.014	<0.013	<0.014	<0.014	<0.015	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.024	<0.014	<0.013	<0.012	<0.013	<0.013	<0.013	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.025	<0.014	<0.013	<0.012	<0.014	<0.013	<0.014	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.16	<0.091	<0.085	<0.078	<0.086	<0.085	<0.087	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.41	<0.24	<0.22	<0.20	<0.22	<0.22	<0.22	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.040	<0.023	<0.022	<0.020	<0.022	<0.022	<0.022	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.024	<0.014	<0.013	<0.012	<0.013	<0.013	<0.013	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.026	<0.015	<0.014	<0.013	<0.014	<0.014	<0.015	--	--	--	--	--	--	--
2-Chlorophenol	<0.023	<0.013	<0.012	<0.011	<0.012	<0.012	<0.013	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.11	0.42	<0.0076	0.071	<0.0077	0.24	0.49	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.037	<0.022	<0.020	<0.018	<0.020	<0.020	<0.021	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.038	<0.022	<0.020	<0.019	<0.021	<0.020	<0.021	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.048	<0.028	<0.026	<0.024	<0.026	<0.026	<0.026	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.058	<0.033	<0.031	<0.029	<0.031	<0.031	<0.032	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.052	<0.030	<0.028	<0.026	<0.028	<0.028	<0.028	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.032	<0.019	<0.017	<0.016	<0.017	<0.017	<0.018	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.40	<0.23	<0.21	<0.20	<0.22	<0.21	<0.22	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.048	<0.028	<0.026	<0.024	<0.026	<0.026	<0.027	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.028	<0.016	<0.015	<0.014	<0.015	<0.015	<0.015	--	--	--	--	--	--	--
4-Chloroaniline	<0.74	<0.43	<0.40	<0.37	<0.40	<0.40	<0.41	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.093	<0.054	<0.050	<0.046	<0.050	<0.050	<0.051	--	--	--	--	--	--	--
4-Nitroaniline	<0.052	<0.030	<0.028	<0.026	<0.028	<0.028	<0.029	--	--	--	--	--	--	--
4-Nitrophenol	<0.26	<0.15	<0.14	<0.13	<0.14	<0.14	<0.14	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.026	<0.015	<0.014	<0.013	<0.014	<0.014	<0.015	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.033	<0.019	<0.017	<0.016	<0.018	<0.017	<0.018	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.051	<0.029	<0.027	<0.025	<0.028	<0.027	<0.028	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.28	<0.16	<0.15	<0.14	<0.15	<0.15	<0.15	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.035	<0.020	<0.019	<0.017	<0.019	<0.019	<0.019	410,000	930	410,000	930	930	930	*
Carbazole	0.13	0.036	<0.015	<0.014	<0.015	0.023	0.048	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	0.10	0.12	<0.013	<0.012	<0.014	0.11	0.21	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.032	<0.019	<0.017	<0.016	<0.018	<0.017	<0.018	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.015	<0.0089	<0.0082	<0.0076	<0.0083	<0.0082	<0.0084	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.022	<0.013	<0.012	<0.011	<0.012	<0.012	<0.012	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.49	<0.29	<0.26	<0.24	<0.27	<0.26	<0.27	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.014	<0.0078	<0.0073	<0.0067	<0.0074	<0.0072	<0.0075	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.040	<0.023	<0.021	<0.020	<0.022	<0.021	<0.022	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.75	<0.43	<0.40	<0.37	<0.41	<0.40	<0.41	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.035	<0.020	<0.019	<0.017	<0.019	<0.019	<0.019	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.036	<0.021	<0.020	<0.018	<0.020	<0.019	<0.020	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.022	<0.013	<0.012	<0.011	<0.012	<0.012	<0.012	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.014	<0.0081	<0.0075	<0.0069	<0.0076	<0.0075	<0.0077	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.042	<0.024	<0.022	<0.021	<0.023	<0.022	<0.023	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.18	<0.10	<0.095	<0.087	<0.096	<0.095	<0.097	24	--	520	--	0.03	0.14	*^
Phenol	<0.031	<0.018	<0.016	<0.015	<0.017	<0.016	<0.017	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (22 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB75 (0-3)	SB75 (5-7.5)	SB76 (0-3)	SB76 (7.5-10)	SB77 (0-3)	SB77 (5-7.5)	SB78 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.025	<0.052	<0.027	<0.030	<0.025	<0.025	<0.024	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.014	<0.030	<0.015	<0.017	<0.014	<0.014	<0.014	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.016	<0.033	<0.017	<0.019	<0.016	<0.016	<0.015	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.016	<0.035	<0.018	<0.020	<0.016	<0.017	<0.016	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.013	<0.028	<0.014	<0.016	<0.013	<0.013	<0.013	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.012	<0.025	<0.013	<0.014	<0.012	<0.012	<0.011	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.012	<0.026	<0.013	<0.015	<0.012	<0.013	<0.012	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.077	<0.16	<0.084	<0.094	<0.077	<0.080	<0.075	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.20	<0.42	<0.22	<0.24	<0.20	<0.21	<0.19	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.020	<0.042	<0.021	<0.024	<0.020	<0.020	<0.019	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.012	<0.025	<0.013	<0.014	<0.012	<0.012	<0.011	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.013	<0.027	<0.014	<0.016	<0.013	<0.013	<0.013	--	--	--	--	--	--	--
2-Chlorophenol	<0.011	<0.024	<0.012	<0.014	<0.011	<0.011	<0.011	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.0069	<0.015	<0.0075	<0.0084	<0.0069	<0.0071	0.045	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.018	<0.039	<0.020	<0.022	<0.018	<0.019	<0.018	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.018	<0.039	<0.020	<0.022	<0.018	<0.019	<0.018	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.023	<0.050	<0.025	<0.028	<0.023	<0.024	<0.023	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.028	<0.060	<0.031	<0.034	<0.028	<0.029	<0.027	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.025	<0.054	<0.027	<0.031	<0.025	<0.026	<0.025	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.016	<0.033	<0.017	<0.019	<0.016	<0.016	<0.015	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.19	<0.41	<0.21	<0.24	<0.19	<0.20	<0.19	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.023	<0.050	<0.026	<0.029	<0.024	<0.024	<0.023	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.013	<0.029	<0.015	<0.016	<0.013	<0.014	<0.013	--	--	--	--	--	--	--
4-Chloroaniline	<0.36	<0.77	<0.39	<0.44	<0.36	<0.37	<0.35	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.045	<0.096	<0.049	<0.055	<0.045	<0.047	<0.044	--	--	--	--	--	--	--
4-Nitroaniline	<0.025	<0.054	<0.028	<0.031	<0.025	<0.026	<0.025	--	--	--	--	--	--	--
4-Nitrophenol	<0.13	<0.27	<0.14	<0.16	<0.13	<0.13	<0.12	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.013	<0.027	<0.014	<0.016	<0.013	<0.013	<0.013	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.016	<0.034	<0.017	<0.019	<0.016	<0.016	<0.015	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.025	<0.053	<0.027	<0.030	<0.025	<0.025	<0.024	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.13	<0.29	<0.15	0.52	<0.13	<0.14	<0.13	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.017	<0.036	<0.019	<0.021	4.9	<0.018	<0.017	410,000	930	410,000	930	930	930	*
Carbazole	<0.014	<0.029	0.050	<0.017	0.034	<0.014	0.026	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.012	<0.026	0.036	<0.015	<0.012	<0.013	0.023	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.016	<0.034	<0.017	<0.019	<0.016	<0.016	<0.015	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0075	<0.016	<0.0082	<0.0091	<0.0075	<0.0077	<0.0073	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.011	<0.023	<0.012	<0.013	0.013	<0.011	<0.011	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.24	<0.51	<0.26	<0.29	<0.24	<0.25	<0.23	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0066	<0.014	<0.0072	<0.0080	<0.0066	<0.0068	<0.0064	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.019	<0.041	<0.021	<0.024	<0.019	<0.020	<0.019	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.36	<0.78	<0.40	<0.44	<0.37	<0.38	<0.36	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.017	<0.037	<0.019	<0.021	<0.017	<0.018	<0.017	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.018	<0.038	<0.019	<0.022	<0.018	<0.018	<0.017	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.011	<0.023	<0.012	<0.013	<0.011	<0.011	<0.011	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0068	<0.014	<0.0074	<0.0083	<0.0068	<0.0070	<0.0066	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.020	<0.044	<0.022	<0.025	<0.020	<0.021	<0.020	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.086	<0.18	<0.094	<0.10	<0.086	<0.089	<0.084	24	--	520	--	0.03	0.14	*^
Phenol	<0.015	<0.032	0.099	<0.018	<0.015	<0.015	<0.015	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (23 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB78 (10-12.5)	SB79 (0-3)	SB79 (5-7.5)	SB80 (0-3)	SB80 (3-5)	SB81 (0-3)	SB81 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/11/24	9/11/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.025	<0.025	<0.025	<0.050	<0.025	<0.13	<0.026	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.014	<0.014	<0.014	<0.028	<0.014	<0.073	<0.015	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.016	<0.016	<0.016	<0.032	<0.016	<0.081	<0.017	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.017	<0.017	<0.016	<0.033	<0.017	<0.085	<0.017	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.013	<0.013	<0.013	<0.026	<0.013	<0.068	<0.014	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.012	<0.012	<0.012	<0.024	<0.012	<0.061	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.012	<0.012	<0.012	<0.025	<0.012	<0.063	<0.013	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.079	<0.078	<0.078	<0.16	<0.079	<0.40	<0.082	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.20	<0.20	<0.20	<0.40	<0.20	<1.0	<0.21	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.020	<0.020	<0.020	<0.040	<0.020	<0.10	<0.021	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.012	<0.012	<0.012	<0.024	<0.012	<0.061	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.013	<0.013	<0.013	<0.026	<0.013	<0.067	<0.014	--	--	--	--	--	--	--
2-Chlorophenol	<0.011	<0.011	<0.011	<0.022	<0.011	<0.058	<0.012	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.0071	<0.0070	<0.0070	<0.014	<0.0071	<0.036	<0.0074	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.019	<0.018	<0.018	<0.037	<0.019	<0.095	<0.019	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.019	<0.019	<0.019	<0.037	<0.019	<0.096	<0.020	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.024	<0.024	<0.024	<0.047	<0.024	<0.12	<0.025	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.029	<0.029	<0.028	<0.057	<0.029	<0.15	<0.030	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.026	<0.026	<0.025	<0.051	<0.026	<0.13	<0.027	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.016	<0.016	<0.016	<0.032	<0.016	<0.082	<0.017	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.20	<0.20	<0.20	<0.39	<0.20	<1.0	<0.21	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.024	<0.024	<0.024	<0.048	<0.024	<0.12	<0.025	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.014	<0.014	<0.013	<0.027	<0.014	<0.070	<0.014	--	--	--	--	--	--	--
4-Chloroaniline	<0.37	<0.37	<0.36	<0.73	<0.37	<1.9	<0.38	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.046	<0.046	<0.046	<0.091	<0.046	<0.24	<0.048	--	--	--	--	--	--	--
4-Nitroaniline	<0.026	<0.026	<0.026	<0.051	<0.026	<0.13	<0.027	--	--	--	--	--	--	--
4-Nitrophenol	<0.13	<0.13	<0.13	<0.26	<0.13	<0.67	<0.14	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.013	<0.013	<0.013	<0.026	<0.013	<0.067	<0.014	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.016	<0.016	<0.016	<0.032	<0.016	<0.083	<0.017	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.025	<0.025	<0.025	<0.050	<0.025	<0.13	<0.026	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.14	0.25	<0.14	<0.27	<0.14	<0.70	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.018	<0.017	<0.017	<0.035	<0.017	0.16	<0.018	410,000	930	410,000	930	930	930	*
Carbazole	<0.014	<0.014	<0.014	0.044	0.015	0.072	<0.014	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.013	<0.012	<0.012	<0.025	<0.013	<0.064	<0.013	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.016	<0.016	<0.016	<0.032	<0.016	<0.082	<0.017	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0077	<0.0076	<0.0075	<0.015	<0.0076	<0.039	<0.0080	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.011	<0.011	<0.011	0.25	<0.011	<0.057	<0.012	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.25	<0.24	<0.24	<0.49	<0.25	<1.3	<0.26	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0068	<0.0067	<0.0067	<0.013	<0.0067	<0.034	<0.0070	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.020	<0.020	<0.020	<0.039	<0.020	<0.10	<0.021	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.37	<0.37	<0.37	<0.74	<0.37	<1.9	<0.39	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.018	<0.018	<0.017	<0.035	<0.018	<0.090	<0.018	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.018	<0.018	<0.018	<0.036	<0.018	<0.093	<0.019	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.011	<0.011	<0.011	<0.022	<0.011	<0.057	<0.012	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0070	<0.0069	<0.0069	<0.014	<0.0069	<0.036	<0.0072	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.021	<0.021	<0.021	<0.041	<0.021	<0.11	<0.022	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.088	<0.088	<0.087	<0.17	<0.088	<0.45	<0.092	24	--	520	--	0.03	0.14	*^
Phenol	<0.015	<0.015	<0.015	<0.030	<0.015	<0.078	<0.016	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (24 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB82 (0-3)	SB82 (5-7.5)	SB83 (0-3)	SB83 (3-5)	SB84 (0-3)	SB84 (5-7.5)	SB85 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.026	<0.030	<0.050	<0.048	<0.026	<0.025	<0.025	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.015	<0.017	<0.028	<0.027	<0.015	<0.014	<0.014	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.017	<0.019	<0.032	<0.030	<0.016	<0.016	<0.016	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.017	<0.020	<0.033	<0.032	<0.017	<0.017	<0.017	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.014	<0.016	<0.026	<0.025	<0.014	<0.013	<0.013	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.012	<0.014	<0.024	<0.023	<0.012	<0.012	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.013	<0.015	<0.025	<0.024	<0.013	<0.012	<0.013	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.082	<0.094	<0.16	<0.15	<0.081	<0.079	<0.079	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.21	<0.24	<0.40	<0.39	<0.21	<0.20	<0.21	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.021	<0.024	<0.040	<0.038	<0.021	<0.020	<0.020	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.012	<0.014	<0.024	<0.023	<0.012	<0.012	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.014	<0.016	<0.026	<0.025	<0.014	<0.013	<0.013	--	--	--	--	--	--	--
2-Chlorophenol	<0.012	<0.014	<0.023	<0.022	<0.012	<0.011	<0.011	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.0074	<0.0085	0.047	0.041	<0.0073	0.019	0.043	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.019	<0.022	<0.037	<0.035	<0.019	<0.019	<0.019	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.020	<0.023	<0.037	<0.036	<0.019	<0.019	<0.019	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.025	<0.029	<0.047	<0.046	<0.025	<0.024	<0.024	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.030	<0.034	<0.057	<0.055	<0.030	<0.029	<0.029	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.027	<0.031	<0.051	<0.049	<0.026	<0.026	<0.026	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.017	<0.019	<0.032	<0.031	<0.016	<0.016	<0.016	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.21	<0.24	<0.39	<0.38	<0.20	<0.20	<0.20	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.025	<0.029	<0.048	<0.046	<0.025	<0.024	<0.024	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.014	<0.016	<0.027	<0.026	<0.014	<0.014	<0.014	--	--	--	--	--	--	--
4-Chloroaniline	<0.38	<0.44	<0.73	<0.71	<0.38	<0.37	<0.37	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.048	<0.055	<0.092	<0.088	<0.047	<0.046	<0.047	--	--	--	--	--	--	--
4-Nitroaniline	<0.027	<0.031	<0.052	<0.050	<0.027	<0.026	<0.026	--	--	--	--	--	--	--
4-Nitrophenol	<0.14	<0.16	<0.26	<0.25	<0.13	<0.13	<0.13	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.014	<0.016	<0.026	<0.025	<0.014	<0.013	<0.013	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.017	<0.019	<0.032	<0.031	<0.017	<0.016	<0.016	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.026	<0.030	<0.050	<0.048	<0.026	<0.025	<0.025	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.14	<0.16	<0.27	<0.26	<0.14	<0.14	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.018	<0.021	<0.035	<0.033	<0.018	<0.018	<0.018	410,000	930	410,000	930	930	930	*
Carbazole	<0.014	<0.017	0.033	<0.027	<0.014	<0.014	<0.014	290	--	6,200	--	0.6	2.8	--
Dibenzofuran	<0.013	<0.015	<0.025	<0.024	<0.013	<0.013	0.014	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.017	<0.019	<0.032	<0.031	<0.017	<0.016	<0.016	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0080	<0.0091	<0.015	<0.015	<0.0079	<0.0076	<0.0077	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.012	<0.013	<0.022	<0.021	<0.011	<0.011	<0.011	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.26	<0.29	<0.49	<0.47	<0.25	<0.25	<0.25	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0070	<0.0081	<0.013	<0.013	<0.0069	<0.0067	<0.0068	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.021	<0.024	<0.039	<0.038	<0.020	<0.020	<0.020	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.39	<0.45	<0.74	<0.71	<0.38	<0.37	<0.38	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.018	<0.021	<0.035	<0.034	<0.018	<0.018	<0.018	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.019	<0.022	<0.036	<0.035	<0.019	<0.018	<0.018	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.012	<0.013	<0.022	<0.021	<0.011	<0.011	<0.011	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0072	<0.0083	<0.014	<0.013	<0.0071	<0.0069	<0.0070	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.022	<0.025	<0.041	<0.040	<0.021	<0.021	<0.021	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.092	<0.11	<0.17	<0.17	<0.090	<0.088	<0.089	24	--	520	--	0.03	0.14	*^
Phenol	<0.016	<0.018	<0.030	<0.029	<0.016	<0.015	<0.015	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (25 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB85 (10-12.5)	SB86 (0-3)	SB86 (7.5-10)	SB87 (0-3)	SB87 (3-5)	SB88 (0-3)	SB88 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/11/24	9/11/24	9/11/24	9/12/24	9/12/24	9/12/24	9/12/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.026	<0.049	<0.052	<0.054	<0.026	<0.025	<0.025	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.015	<0.028	<0.029	<0.031	<0.015	<0.014	<0.014	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.017	<0.031	<0.033	<0.034	<0.016	<0.016	<0.016	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.017	<0.032	<0.034	<0.036	<0.017	<0.016	<0.016	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.014	<0.026	<0.027	<0.029	<0.014	<0.013	<0.013	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.012	<0.023	<0.025	<0.026	<0.012	<0.012	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.013	<0.024	<0.025	<0.027	<0.013	<0.012	<0.012	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.082	<0.15	<0.16	<0.17	<0.082	<0.078	<0.078	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.21	<0.39	<0.42	<0.44	<0.21	<0.20	<0.20	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.021	<0.039	<0.041	<0.043	<0.021	<0.020	<0.020	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.012	<0.023	<0.025	<0.026	<0.012	<0.012	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.014	<0.025	<0.027	<0.028	<0.014	<0.013	<0.013	--	--	--	--	--	--	--
2-Chlorophenol	<0.012	<0.022	<0.023	<0.025	<0.012	<0.011	<0.011	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.0073	<0.014	0.027	0.27	0.030	<0.0070	<0.0070	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.019	<0.036	<0.038	<0.040	<0.019	<0.018	<0.018	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.020	<0.037	<0.039	<0.041	<0.020	<0.019	<0.019	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.025	<0.046	<0.049	<0.052	<0.025	<0.024	<0.023	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.030	<0.056	<0.059	<0.062	<0.030	<0.028	<0.028	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.027	<0.050	<0.053	<0.056	<0.027	<0.025	<0.025	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.017	<0.031	<0.033	<0.035	<0.017	<0.016	<0.016	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.21	<0.38	<0.41	<0.43	<0.21	<0.20	<0.20	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.025	<0.047	<0.049	<0.052	<0.025	<0.024	<0.024	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.014	<0.027	<0.028	<0.030	<0.014	<0.013	<0.013	--	--	--	--	--	--	--
4-Chloroaniline	<0.38	<0.72	<0.76	<0.80	<0.38	<0.36	<0.36	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.048	<0.089	<0.095	<0.10	<0.048	<0.045	<0.045	--	--	--	--	--	--	--
4-Nitroaniline	<0.027	<0.050	<0.053	<0.056	<0.027	<0.026	<0.026	--	--	--	--	--	--	--
4-Nitrophenol	<0.14	<0.25	<0.27	<0.28	<0.14	<0.13	<0.13	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.014	<0.025	<0.027	<0.028	<0.014	<0.013	<0.013	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.017	<0.031	<0.033	<0.035	<0.017	<0.016	<0.016	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.026	<0.049	<0.052	<0.055	<0.026	<0.025	<0.025	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.14	<0.27	<0.28	<0.30	<0.14	<0.14	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.018	<0.034	<0.036	<0.038	<0.018	<0.017	<0.017	410,000	930	410,000	930	930	930	*
Carbazole	<0.014	0.044	0.29	**3.8**	0.68	<0.014	<0.014	290	--	6,200	--	0.6	2.8	NA
Dibenzofuran	<0.013	<0.024	0.083	1.7	0.23	0.013	<0.012	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.017	<0.031	<0.033	<0.035	<0.017	<0.016	<0.016	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0080	<0.015	<0.016	<0.017	<0.0079	<0.0075	<0.0075	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.012	<0.022	<0.023	<0.024	<0.012	<0.011	<0.011	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.26	<0.48	<0.50	<0.53	<0.25	<0.24	<0.24	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0070	<0.013	<0.014	<0.015	<0.0070	<0.0067	<0.0066	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.021	<0.038	<0.041	<0.043	<0.021	<0.020	<0.020	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.39	<0.72	<0.77	<0.81	<0.39	<0.37	<0.37	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.018	<0.034	<0.036	<0.038	<0.018	<0.017	<0.017	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.019	<0.035	<0.037	<0.039	<0.019	<0.018	<0.018	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.012	<0.022	<0.023	<0.024	<0.012	<0.011	<0.011	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0072	<0.013	<0.014	<0.015	<0.0072	<0.0068	<0.0068	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.022	<0.040	<0.043	<0.045	<0.022	<0.021	<0.021	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.092	<0.17	<0.18	<0.19	<0.091	<0.087	<0.087	24	--	520	--	0.03	0.14	*^
Phenol	0.037	<0.030	<0.031	<0.033	<0.016	<0.015	<0.015	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (26 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB89 (0-3)	SB89 (3-5)	SB90 (0-3)	SB90 (7.5-10)	SB91 (0-3)	SB91 (12.5-15)	SB92 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.025	<0.024	<0.024	<0.026	<0.025	<0.026	<0.026	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.014	<0.014	<0.014	<0.015	<0.014	<0.015	<0.015	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.016	<0.015	<0.015	<0.016	<0.016	<0.017	<0.016	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.017	<0.016	<0.016	<0.017	<0.017	<0.017	<0.017	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.013	<0.013	<0.013	<0.014	<0.013	<0.014	<0.014	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.012	<0.012	<0.011	<0.012	<0.012	<0.013	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.013	<0.012	<0.012	<0.013	<0.012	<0.013	<0.013	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.079	<0.076	<0.074	<0.081	<0.079	<0.082	<0.081	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.21	<0.20	<0.19	<0.21	<0.20	<0.21	<0.21	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.020	<0.019	<0.019	<0.021	<0.020	<0.021	<0.020	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.012	<0.012	<0.011	<0.012	<0.012	<0.013	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.013	<0.013	<0.012	<0.014	<0.013	<0.014	<0.013	--	--	--	--	--	--	--
2-Chlorophenol	<0.011	<0.011	<0.011	<0.012	<0.011	<0.012	<0.012	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.0071	<0.0068	<0.0067	<0.0073	0.020	0.028	<0.0072	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.019	<0.018	<0.018	<0.019	<0.019	<0.019	<0.019	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.019	<0.018	<0.018	<0.019	<0.019	<0.020	<0.019	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.024	<0.023	<0.023	<0.025	<0.024	<0.025	<0.024	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.029	<0.028	<0.027	<0.030	<0.029	<0.030	<0.029	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.026	<0.025	<0.024	<0.027	<0.026	<0.027	<0.026	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.016	<0.016	<0.015	<0.017	<0.016	<0.017	<0.016	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.20	<0.19	<0.19	<0.20	<0.20	<0.21	<0.20	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.024	<0.023	<0.023	<0.025	<0.024	<0.025	<0.025	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.014	<0.013	<0.013	<0.014	<0.014	<0.014	<0.014	--	--	--	--	--	--	--
4-Chloroaniline	<0.37	<0.36	<0.35	<0.38	<0.37	<0.39	<0.38	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.047	<0.045	<0.044	<0.048	<0.046	<0.048	<0.047	--	--	--	--	--	--	--
4-Nitroaniline	<0.026	<0.025	<0.025	<0.027	<0.026	<0.027	<0.027	--	--	--	--	--	--	--
4-Nitrophenol	<0.13	<0.13	<0.12	<0.13	<0.13	<0.14	<0.13	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.013	<0.013	<0.012	<0.014	<0.013	<0.014	<0.013	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.016	<0.016	<0.015	<0.017	<0.016	<0.017	<0.017	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.025	<0.024	<0.024	<0.026	<0.025	<0.026	<0.026	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.14	<0.13	<0.13	<0.14	0.15	0.22	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.018	<0.017	<0.017	<0.018	<0.017	0.022	<0.018	410,000	930	410,000	930	930	930	*
Carbazole	<0.014	<0.013	<0.013	<0.014	0.014	0.025	<0.014	290	--	6,200	--	0.6	2.8	NA
Dibenzofuran	<0.013	<0.012	<0.012	<0.013	0.013	0.018	<0.013	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.016	<0.016	<0.015	<0.017	<0.016	<0.017	<0.016	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0077	<0.0074	<0.0072	<0.0079	<0.0076	<0.0080	<0.0078	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.011	<0.011	<0.011	<0.011	<0.011	<0.012	<0.011	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.25	<0.24	<0.23	<0.25	<0.25	<0.26	<0.25	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0068	<0.0065	<0.0064	<0.0070	<0.0067	<0.0070	<0.0069	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.020	<0.019	<0.019	<0.020	<0.020	<0.021	<0.020	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.38	<0.36	<0.35	<0.38	<0.37	<0.39	<0.38	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.018	<0.017	<0.017	<0.018	<0.018	<0.018	<0.018	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.018	<0.018	<0.017	<0.019	<0.018	<0.019	<0.019	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.011	<0.011	<0.011	<0.011	<0.011	<0.012	<0.011	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0070	<0.0067	<0.0066	<0.0072	<0.0069	<0.0072	<0.0071	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.021	<0.020	<0.020	<0.022	<0.021	<0.022	<0.021	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.089	<0.085	<0.083	<0.091	<0.088	<0.092	<0.090	24	--	520	--	0.03	0.14	*^
Phenol	<0.015	0.050	<0.014	<0.016	<0.015	<0.016	<0.016	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (27 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB92 (3-5)	SB93 (0-3)	SB93 (5-7.5)	SB94 (0-3)	SB94 (12.5-15)	SB95 (0-3)	SB95 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/12/24	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.025	<0.072	<0.078	<0.073	<0.038	<0.038	<0.034	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.014	<0.041	<0.045	<0.042	<0.022	<0.022	<0.020	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.016	<0.046	<0.049	<0.046	<0.024	<0.024	<0.022	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.016	<0.048	<0.052	<0.048	<0.025	<0.025	<0.023	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.013	<0.038	<0.041	<0.039	<0.020	<0.020	<0.018	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.012	<0.034	<0.037	<0.035	<0.018	<0.018	<0.016	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.012	<0.036	<0.039	<0.036	<0.019	<0.019	<0.017	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.077	<0.23	<0.25	<0.23	<0.12	<0.12	<0.11	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.20	<0.58	<0.63	<0.59	<0.31	<0.31	<0.28	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.020	<0.058	<0.062	<0.058	<0.031	<0.030	<0.027	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.012	<0.034	<0.037	<0.035	<0.018	<0.018	<0.016	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.013	<0.038	<0.041	<0.038	<0.020	<0.020	<0.018	--	--	--	--	--	--	--
2-Chlorophenol	<0.011	<0.033	<0.035	<0.033	<0.017	<0.017	<0.016	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.0069	0.92	0.11	0.029	0.027	0.13	0.12	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.018	<0.053	<0.058	<0.054	<0.028	<0.028	<0.025	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.019	<0.054	<0.059	<0.055	<0.029	<0.029	<0.026	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.023	<0.069	<0.074	<0.069	<0.036	<0.036	<0.033	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.028	<0.083	<0.089	<0.084	<0.044	<0.044	<0.039	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.025	<0.074	<0.080	<0.075	<0.039	<0.039	<0.035	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.016	<0.046	<0.050	<0.047	<0.024	<0.024	<0.022	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.19	<0.57	<0.62	<0.58	<0.30	<0.30	<0.27	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.024	<0.069	<0.075	<0.070	<0.037	<0.037	<0.033	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.013	<0.039	<0.043	<0.040	<0.021	<0.021	<0.019	--	--	--	--	--	--	--
4-Chloroaniline	<0.36	<1.1	<1.1	<1.1	<0.56	<0.56	<0.50	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.045	<0.13	<0.14	<0.13	<0.070	<0.070	<0.063	--	--	--	--	--	--	--
4-Nitroaniline	<0.026	<0.075	<0.081	<0.076	<0.040	<0.039	<0.036	--	--	--	--	--	--	--
4-Nitrophenol	<0.13	<0.37	<0.41	<0.38	<0.20	<0.20	<0.18	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.013	<0.038	<0.041	<0.038	<0.020	<0.020	<0.018	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.016	<0.047	<0.050	<0.047	<0.025	<0.025	<0.022	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.025	<0.072	<0.079	<0.073	<0.038	<0.038	<0.035	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.14	<0.40	<0.43	<0.40	<0.21	<0.21	<0.19	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.017	<0.050	<0.054	<0.051	<0.027	<0.027	<0.024	410,000	930	410,000	930	930	930	*
Carbazole	<0.014	0.38	<0.043	<0.040	<0.021	<0.021	<0.019	290	--	6,200	--	0.6	2.8	NA
Dibenzofuran	<0.012	1.7	0.053	<0.036	<0.019	0.042	0.039	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.016	<0.046	<0.050	<0.047	<0.025	<0.024	<0.022	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.0075	<0.022	<0.024	<0.022	<0.012	<0.012	<0.010	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.011	<0.032	<0.035	<0.032	<0.017	<0.017	<0.015	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.24	<0.71	<0.77	<0.72	<0.37	<0.37	<0.34	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0066	<0.019	<0.021	<0.020	<0.010	<0.010	<0.0092	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.019	<0.057	<0.062	<0.058	<0.030	<0.030	<0.027	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.37	<1.1	<1.2	<1.1	<0.57	<0.57	<0.51	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.017	<0.051	<0.055	<0.051	<0.027	<0.027	<0.024	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.018	<0.052	<0.056	<0.053	<0.028	<0.028	<0.025	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.011	<0.032	<0.035	<0.032	<0.017	<0.017	<0.015	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0068	<0.020	<0.022	<0.020	<0.011	<0.011	<0.0095	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.021	<0.060	<0.065	<0.061	<0.032	<0.032	<0.029	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.086	<0.25	<0.27	<0.26	<0.13	<0.13	<0.12	24	--	520	--	0.03	0.14	*^
Phenol	<0.015	<0.044	<0.048	<0.044	<0.023	<0.023	<0.021	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (28 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB96 (0-3)	SB96 (7.5-10)	SB97 (0-3)	SB97 (5-7.5)	SB98 (0-3)	SB98 (7.5-10)	SB99 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/16/24	9/16/24	9/16/24	9/16/24	9/17/24	9/17/24	9/17/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.074	<0.036	<0.036	<0.071	<0.024	<0.026	<0.026	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.042	<0.020	<0.021	<0.041	<0.014	<0.015	<0.015	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.047	<0.023	<0.023	<0.045	<0.015	<0.016	<0.016	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.049	<0.024	<0.024	<0.047	<0.016	<0.017	<0.017	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.039	<0.019	<0.019	<0.038	<0.013	<0.014	<0.013	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.035	<0.017	<0.017	<0.034	<0.011	<0.012	<0.012	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.036	<0.018	<0.018	<0.035	<0.012	<0.013	<0.013	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.23	<0.11	<0.11	<0.22	<0.074	<0.080	<0.080	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.60	<0.29	<0.29	<0.58	<0.19	<0.21	<0.21	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.059	<0.029	<0.029	<0.057	<0.019	<0.020	<0.020	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.035	<0.017	<0.017	<0.034	<0.011	<0.012	<0.012	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.039	<0.019	<0.019	<0.037	<0.012	<0.013	<0.013	--	--	--	--	--	--	--
2-Chlorophenol	<0.033	<0.016	<0.016	<0.032	<0.011	<0.012	<0.012	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.032	0.021	0.024	0.035	0.0097	0.035	0.021	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.054	<0.026	<0.027	<0.053	<0.018	<0.019	<0.019	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.055	<0.027	<0.027	<0.054	<0.018	<0.019	<0.019	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.070	<0.034	<0.034	<0.068	<0.023	<0.024	<0.024	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.084	<0.041	<0.041	<0.082	<0.027	<0.029	<0.029	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.076	<0.037	<0.037	<0.073	<0.024	<0.026	<0.026	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.047	<0.023	<0.023	<0.046	<0.015	<0.016	<0.016	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.58	<0.28	<0.29	<0.56	<0.19	<0.20	<0.20	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.071	<0.034	<0.035	<0.068	<0.023	<0.025	<0.025	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.040	<0.019	<0.020	<0.039	<0.013	<0.014	<0.014	--	--	--	--	--	--	--
4-Chloroaniline	<1.1	<0.53	<0.53	<1.0	<0.35	<0.38	<0.38	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.14	<0.066	<0.066	<0.13	<0.044	<0.047	<0.047	--	--	--	--	--	--	--
4-Nitroaniline	<0.076	<0.037	<0.037	<0.074	<0.025	<0.027	<0.026	--	--	--	--	--	--	--
4-Nitrophenol	<0.38	<0.19	<0.19	<0.37	<0.12	<0.13	<0.13	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.039	<0.019	<0.019	<0.037	<0.012	<0.013	<0.013	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.048	<0.023	<0.023	<0.046	<0.015	<0.017	<0.017	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.074	<0.036	<0.036	<0.072	<0.024	<0.026	<0.026	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.40	<0.20	<0.20	<0.39	<0.13	<0.14	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.051	<0.025	<0.025	<0.050	<0.017	<0.018	<0.018	410,000	930	410,000	930	930	930	*
Carbazole	<0.041	<0.020	<0.020	<0.039	<0.013	<0.014	0.14	290	--	6,200	--	0.6	2.8	NA
Dibenzofuran	<0.037	<0.018	0.019	<0.036	<0.012	<0.013	0.042	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.047	<0.023	<0.023	<0.046	<0.015	<0.016	<0.016	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.022	<0.011	<0.011	<0.022	<0.0072	<0.0078	<0.0078	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.033	<0.016	<0.016	<0.032	<0.011	<0.011	<0.011	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.72	<0.35	<0.35	<0.70	<0.23	<0.25	<0.25	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.020	<0.0096	<0.0097	<0.019	<0.0064	<0.0069	<0.0069	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.058	<0.028	<0.029	<0.056	<0.019	<0.020	<0.020	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<1.1	<0.53	<0.54	<1.1	<0.35	<0.38	<0.38	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.052	<0.025	<0.025	<0.050	<0.017	<0.018	<0.018	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.053	<0.026	0.050	<0.052	<0.017	<0.019	<0.018	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.033	<0.016	<0.016	<0.032	<0.011	<0.011	<0.011	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.020	<0.0099	<0.010	<0.020	<0.0066	<0.0071	<0.0071	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.061	<0.030	<0.030	<0.059	<0.020	<0.021	<0.021	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.26	<0.13	<0.13	<0.25	<0.083	<0.090	<0.090	24	--	520	--	0.03	0.14	*^
Phenol	<0.045	<0.022	<0.022	0.048	<0.014	<0.016	<0.016	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (29 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB99 (10-12.5)	SB100 (0-3)	SB100 (3-5)	SB101 (0-3)	SB101 (12.5-15)	SB102 (0-3)	SB102 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.036	<0.024	<0.025	<0.025	<0.029	<0.025	<0.049	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.020	<0.013	<0.014	<0.015	<0.017	<0.015	<0.028	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.023	<0.015	<0.016	<0.016	<0.019	<0.016	<0.031	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.024	<0.016	<0.016	<0.017	<0.019	<0.017	<0.033	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.019	<0.012	<0.013	<0.013	<0.016	<0.013	<0.026	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.017	<0.011	<0.012	<0.012	<0.014	<0.012	<0.024	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.018	<0.012	<0.012	<0.013	<0.015	<0.013	<0.024	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.11	<0.074	<0.077	<0.080	<0.092	<0.080	<0.15	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.29	<0.19	<0.20	<0.21	<0.24	<0.21	<0.40	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.028	<0.019	<0.020	<0.020	<0.023	<0.020	<0.039	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.017	<0.011	<0.012	<0.012	<0.014	<0.012	<0.024	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.019	<0.012	<0.013	<0.013	<0.015	<0.013	<0.026	--	--	--	--	--	--	--
2-Chlorophenol	<0.016	<0.011	<0.011	<0.011	<0.013	<0.012	<0.022	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.018	<0.0067	<0.0069	<0.0072	<0.0083	0.021	0.088	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.026	<0.017	<0.018	<0.019	<0.022	<0.019	<0.036	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.027	<0.018	<0.018	<0.019	<0.022	<0.019	<0.037	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.034	<0.022	<0.023	<0.024	<0.028	<0.024	<0.047	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.041	<0.027	<0.028	<0.029	<0.034	<0.029	<0.057	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.037	<0.024	<0.025	<0.026	<0.030	<0.026	<0.051	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.023	<0.015	<0.016	<0.016	<0.019	<0.016	<0.031	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.28	<0.19	<0.19	<0.20	<0.23	<0.20	<0.39	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.034	<0.023	<0.024	<0.024	<0.028	<0.024	<0.047	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.019	<0.013	<0.013	<0.014	<0.016	<0.014	<0.027	--	--	--	--	--	--	--
4-Chloroaniline	<0.52	<0.35	<0.36	<0.37	<0.43	<0.37	<0.73	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.066	<0.043	<0.045	<0.047	<0.054	<0.047	<0.091	--	--	--	--	--	--	--
4-Nitroaniline	<0.037	<0.024	<0.025	<0.026	<0.030	<0.026	<0.051	--	--	--	--	--	--	--
4-Nitrophenol	<0.19	<0.12	<0.13	<0.13	<0.15	<0.13	<0.26	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.019	<0.012	<0.013	<0.013	<0.015	<0.013	<0.026	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.023	<0.015	<0.016	<0.016	<0.019	<0.016	<0.032	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.036	<0.024	<0.025	<0.026	<0.030	<0.026	<0.050	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.20	<0.13	<0.14	<0.14	<0.16	<0.14	<0.27	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.025	<0.016	<0.017	0.082	<0.020	<0.018	<0.034	410,000	930	410,000	930	930	930	*
Carbazole	<0.020	0.051	0.038	<0.014	0.017	0.027	0.085	290	--	6,200	--	0.6	2.8	NA
Dibenzofuran	<0.018	0.016	<0.012	<0.013	<0.015	0.032	0.050	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.023	<0.015	<0.016	<0.016	<0.019	<0.016	<0.032	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.011	<0.0072	<0.0075	<0.0077	<0.0089	<0.0077	<0.015	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.016	<0.010	<0.011	<0.011	<0.013	<0.011	<0.022	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.35	<0.23	<0.24	<0.25	<0.29	<0.25	<0.48	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.0096	<0.0064	<0.0066	<0.0068	<0.0079	<0.0068	<0.013	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.028	<0.019	<0.019	<0.020	<0.023	<0.020	<0.039	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.53	<0.35	<0.37	<0.38	<0.44	<0.38	<0.73	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.025	<0.017	<0.017	<0.018	<0.021	<0.018	<0.035	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.026	<0.017	<0.018	<0.018	<0.021	<0.018	<0.036	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.016	<0.010	<0.011	<0.011	<0.013	<0.011	<0.022	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0099	<0.0065	<0.0068	<0.0070	<0.0081	<0.0070	<0.014	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.030	<0.020	<0.020	<0.021	<0.024	<0.021	<0.041	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.13	<0.083	<0.086	<0.089	<0.10	<0.089	<0.17	24	--	520	--	0.03	0.14	*^
Phenol	<0.022	<0.014	<0.015	<0.015	<0.018	<0.015	<0.030	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (30 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB103 (0-3)	SB103 (5-7.5)	SB104 (0-3)	SB105 (0-3)	SB105 (10-12.5)	SB106 (0-3)	SB107 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/18/24	9/18/24	9/18/24	9/18/24	9/18/24	9/18/24	9/18/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.071	<0.035	<0.039	<0.073	<0.040	<0.075	<0.037	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.040	<0.020	<0.022	<0.041	<0.023	<0.043	<0.021	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.045	<0.022	<0.025	<0.046	<0.026	<0.048	<0.024	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.047	<0.023	<0.026	<0.048	<0.027	<0.050	<0.025	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.037	<0.018	<0.021	<0.038	<0.021	<0.040	<0.020	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.034	<0.017	<0.019	<0.035	<0.019	<0.036	<0.018	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.035	<0.017	<0.019	<0.036	<0.020	<0.037	<0.018	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.22	<0.11	<0.12	<0.23	<0.13	<0.24	<0.12	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.58	<0.28	<0.32	<0.59	<0.33	<0.61	<0.30	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.057	<0.028	<0.031	<0.058	<0.032	<0.060	<0.030	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.034	<0.017	<0.019	<0.035	<0.019	<0.036	<0.018	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.037	<0.018	<0.020	<0.038	<0.021	<0.039	<0.020	--	--	--	--	--	--	--
2-Chlorophenol	<0.032	<0.016	<0.018	<0.033	<0.018	<0.034	<0.017	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.022	0.073	<0.011	0.26	0.033	0.044	0.034	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.052	<0.026	<0.029	<0.054	<0.030	<0.056	<0.028	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.053	<0.026	<0.029	<0.055	<0.030	<0.056	<0.028	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.067	<0.033	<0.037	<0.069	<0.038	<0.071	<0.035	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.081	<0.040	<0.045	<0.083	<0.046	<0.086	<0.043	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.073	<0.036	<0.040	<0.074	<0.042	<0.077	<0.038	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.045	<0.022	<0.025	<0.046	<0.026	<0.048	<0.024	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.56	<0.28	<0.31	<0.57	<0.32	<0.59	<0.29	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.068	<0.033	<0.037	<0.070	<0.039	<0.072	<0.036	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.039	<0.019	<0.021	<0.040	<0.022	<0.041	<0.020	--	--	--	--	--	--	--
4-Chloroaniline	<1.0	<0.51	<0.57	<1.1	<0.59	<1.1	<0.55	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.13	<0.064	<0.072	<0.13	<0.074	<0.14	<0.069	--	--	--	--	--	--	--
4-Nitroaniline	<0.073	<0.036	<0.040	<0.075	<0.042	<0.078	<0.039	--	--	--	--	--	--	--
4-Nitrophenol	<0.37	<0.18	<0.20	<0.38	<0.21	<0.39	<0.19	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.037	<0.018	<0.020	<0.038	<0.021	<0.039	<0.020	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.046	<0.023	<0.025	<0.047	<0.026	<0.049	<0.024	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.071	<0.035	<0.039	<0.073	<0.041	<0.075	<0.038	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.39	<0.19	<0.21	<0.40	<0.22	<0.41	<0.20	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.049	<0.024	<0.027	<0.051	<0.028	<0.052	<0.026	410,000	930	410,000	930	930	930	*
Carbazole	<0.039	<0.019	0.21	0.058	<0.022	<0.042	0.11	290	--	6,200	--	0.6	2.8	NA
Dibenzofuran	<0.035	0.028	0.065	0.10	<0.020	<0.037	0.064	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.046	<0.022	<0.025	<0.047	<0.026	<0.048	<0.024	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.022	<0.011	<0.012	<0.022	<0.012	<0.023	<0.011	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.031	<0.015	<0.017	<0.032	<0.018	<0.033	<0.017	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.70	<0.34	<0.38	<0.71	<0.40	<0.74	<0.37	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.019	<0.0094	<0.010	<0.019	<0.011	<0.020	<0.010	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.056	<0.028	<0.031	<0.057	<0.032	<0.059	<0.029	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<1.1	<0.52	<0.58	<1.1	<0.60	<1.1	<0.55	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.050	<0.024	<0.027	<0.051	<0.028	<0.053	<0.026	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.051	<0.025	<0.028	<0.052	<0.029	<0.054	<0.027	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.031	<0.015	<0.017	<0.032	<0.018	<0.033	<0.017	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.020	<0.0097	<0.011	<0.020	<0.011	<0.021	<0.010	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.059	<0.029	<0.033	<0.060	<0.034	<0.062	<0.031	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.25	<0.12	<0.14	<0.25	<0.14	<0.26	<0.13	24	--	520	--	0.03	0.14	*^
Phenol	<0.043	<0.021	<0.024	<0.044	<0.025	<0.046	<0.023	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (31 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB107 (7.5-10)	SB108 (0-3)	SB109 (0-3)	SB109 (5-7.5)	SB110 (0-3)	SB110 (5-7.5)	SB111 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/18/24	9/19/24	9/19/24	9/19/24	9/19/24	9/19/24	9/19/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.046	<0.025	<0.025	<0.029	<0.025	<0.075	<0.049	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.026	<0.014	<0.014	<0.016	<0.014	<0.043	<0.028	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.029	<0.016	<0.016	<0.018	<0.016	<0.047	<0.031	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.031	<0.017	<0.017	<0.019	<0.016	<0.050	<0.033	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.024	<0.013	<0.013	<0.015	<0.013	<0.040	<0.026	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.022	<0.012	<0.012	<0.014	<0.012	<0.036	<0.024	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.023	<0.012	<0.013	<0.014	<0.012	<0.037	<0.024	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.14	<0.078	<0.080	<0.090	<0.078	<0.24	<0.15	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.37	<0.20	<0.21	<0.23	<0.20	<0.61	<0.40	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.037	<0.020	<0.020	<0.023	<0.020	<0.060	<0.039	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.022	<0.012	<0.012	<0.014	<0.012	<0.036	<0.024	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.024	<0.013	<0.013	<0.015	<0.013	<0.039	<0.026	--	--	--	--	--	--	--
2-Chlorophenol	<0.021	<0.011	<0.011	<0.013	<0.011	<0.034	<0.022	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.023	0.058	0.057	0.22	0.016	0.10	<0.014	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.034	<0.018	<0.019	<0.021	<0.018	<0.055	<0.036	100,000	--	100,000	--	15	15	*
2-Nitroaniline	0.041	<0.019	<0.019	<0.022	<0.019	<0.056	<0.037	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.044	<0.024	<0.024	<0.027	<0.023	<0.071	<0.047	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.053	<0.029	<0.029	<0.033	<0.028	<0.086	<0.056	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.047	<0.026	<0.026	<0.029	<0.025	<0.077	<0.051	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.029	<0.016	<0.016	<0.018	<0.016	<0.048	<0.031	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.36	<0.20	<0.20	<0.23	<0.20	<0.59	<0.39	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.044	<0.024	<0.024	<0.027	<0.024	<0.072	<0.047	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.025	<0.014	<0.014	<0.016	<0.013	<0.041	<0.027	--	--	--	--	--	--	--
4-Chloroaniline	<0.68	<0.37	<0.37	<0.42	<0.36	<1.1	<0.72	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.085	<0.046	<0.047	<0.053	<0.045	<0.14	<0.091	--	--	--	--	--	--	--
4-Nitroaniline	<0.048	<0.026	<0.026	<0.030	<0.026	<0.078	<0.051	--	--	--	--	--	--	--
4-Nitrophenol	<0.24	<0.13	<0.13	<0.15	<0.13	<0.39	<0.26	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.024	<0.013	<0.013	<0.015	<0.013	<0.039	<0.026	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.030	<0.016	<0.016	<0.019	<0.016	<0.048	<0.032	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.046	<0.025	<0.026	<0.029	<0.025	<0.075	<0.050	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.25	<0.14	<0.14	<0.16	<0.14	<0.41	<0.27	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.032	<0.017	<0.018	<0.020	0.045	<0.052	<0.034	410,000	930	410,000	930	930	930	*
Carbazole	0.059	0.071	<0.014	<0.016	<0.014	<0.041	0.063	290	--	6,200	--	0.6	2.8	NA
Dibenzofuran	0.028	0.080	0.019	0.055	<0.012	0.040	0.049	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.030	<0.016	<0.016	<0.018	<0.016	<0.048	<0.032	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.014	<0.0076	<0.0077	<0.0087	<0.0075	<0.023	<0.015	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.020	<0.011	<0.011	<0.013	<0.011	<0.033	<0.022	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.45	<0.24	<0.25	<0.28	<0.24	<0.73	<0.48	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.012	<0.0067	<0.0068	<0.0077	<0.0066	<0.020	<0.013	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.036	<0.020	<0.020	<0.023	<0.020	<0.059	<0.039	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.69	<0.37	<0.38	<0.43	<0.37	<1.1	<0.73	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.032	<0.017	<0.018	<0.020	<0.017	<0.053	<0.035	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.033	<0.018	<0.018	<0.021	<0.018	<0.054	<0.036	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.020	<0.011	<0.011	<0.013	<0.011	<0.033	<0.022	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.013	<0.0069	<0.0070	<0.0079	<0.0068	<0.021	<0.014	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.038	<0.021	<0.021	<0.024	<0.021	<0.062	<0.041	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.16	<0.087	<0.089	<0.10	<0.087	<0.26	<0.17	24	--	520	--	0.03	0.14	*^
Phenol	<0.028	<0.015	<0.015	<0.017	<0.015	<0.046	<0.030	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (32 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB111 (3-5)	SB112 (0-3)	SB113 (0-3)	SB113 (10-12.5)	SB114 (0-3)	SB114 (7.5-12)	SB115 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/19/24	9/19/24	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.049	<0.061	<0.051	<0.044	<0.052	<0.026	<0.053	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.028	<0.035	<0.029	<0.025	<0.030	<0.015	<0.030	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.031	<0.038	<0.032	<0.028	<0.033	<0.016	<0.034	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.033	<0.040	<0.034	<0.029	<0.034	<0.017	<0.035	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.026	<0.032	<0.027	<0.023	<0.027	<0.014	<0.028	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.024	<0.029	<0.024	<0.021	<0.025	<0.012	<0.025	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.024	<0.030	<0.025	<0.022	<0.026	<0.013	<0.026	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.15	<0.19	<0.16	<0.14	<0.16	<0.082	<0.17	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.40	<0.49	<0.41	<0.35	<0.42	<0.21	<0.43	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.039	<0.049	<0.041	<0.035	<0.041	<0.021	<0.042	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.024	<0.029	<0.024	<0.021	<0.025	<0.012	<0.025	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.026	<0.032	<0.027	<0.023	<0.027	<0.014	<0.028	--	--	--	--	--	--	--
2-Chlorophenol	<0.022	<0.027	<0.023	<0.020	<0.023	<0.012	<0.024	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.020	<0.017	0.044	<0.012	<0.015	0.015	1.3	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.036	<0.045	<0.038	<0.032	<0.038	<0.019	<0.039	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.037	<0.046	<0.038	<0.033	<0.039	<0.020	<0.040	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.047	<0.058	<0.048	<0.042	<0.049	<0.025	<0.050	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.056	<0.070	<0.058	<0.050	<0.059	<0.030	<0.061	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.051	<0.062	<0.052	<0.045	<0.053	<0.027	<0.054	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.031	<0.039	<0.032	<0.028	<0.033	<0.017	<0.034	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.39	<0.48	<0.40	<0.35	<0.41	<0.21	<0.42	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.047	<0.058	<0.049	<0.042	<0.050	<0.025	<0.051	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.027	<0.033	<0.028	<0.024	<0.028	<0.014	<0.029	--	--	--	--	--	--	--
4-Chloroaniline	<0.73	<0.89	<0.75	<0.64	<0.76	<0.38	<0.78	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.091	<0.11	<0.094	<0.080	<0.095	<0.048	<0.097	--	--	--	--	--	--	--
4-Nitroaniline	<0.051	<0.063	<0.053	<0.045	<0.054	<0.027	<0.055	--	--	--	--	--	--	--
4-Nitrophenol	<0.26	<0.32	<0.26	<0.23	<0.27	<0.14	<0.28	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.026	<0.032	<0.027	<0.023	<0.027	<0.014	<0.028	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.032	<0.039	<0.033	<0.028	<0.034	<0.017	<0.034	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.050	<0.061	<0.051	<0.044	<0.052	<0.026	<0.053	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.27	<0.33	<0.28	<0.24	<0.29	<0.14	<0.29	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.034	<0.042	<0.035	<0.030	<0.036	<0.018	<0.037	410,000	930	410,000	930	930	930	*
Carbazole	<0.027	<0.034	0.077	<0.024	<0.029	<0.014	2.7	290	--	6,200	--	0.6	2.8	NA
Dibenzofuran	<0.025	<0.030	0.082	<0.022	<0.026	<0.013	3.4	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.032	<0.039	<0.033	<0.028	<0.033	0.037	<0.034	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.015	<0.019	<0.016	<0.013	<0.016	<0.0079	<0.016	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.022	<0.027	<0.023	<0.019	<0.023	<0.012	<0.023	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.48	<0.60	<0.50	<0.43	<0.51	<0.25	<0.52	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.013	<0.016	<0.014	<0.012	<0.014	<0.0070	<0.014	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.039	<0.048	<0.040	<0.035	<0.041	<0.021	<0.042	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.73	<0.90	<0.76	<0.65	<0.77	<0.39	<0.79	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.035	<0.043	<0.036	<0.031	<0.036	<0.018	<0.037	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.036	<0.044	<0.037	<0.032	<0.038	<0.019	<0.038	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.022	<0.027	<0.023	<0.019	<0.023	<0.012	<0.023	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.014	<0.017	<0.014	<0.012	<0.014	<0.0072	<0.015	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.041	<0.051	<0.042	<0.036	<0.043	<0.022	<0.044	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.17	<0.21	<0.18	<0.15	<0.18	<0.091	<0.19	24	--	520	--	0.03	0.14	*^
Phenol	<0.030	<0.037	<0.031	<0.027	<0.032	<0.016	<0.032	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (33 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB115 (5-7.5)	SB116 (0-3)	SB116 (12.5-15)	SB117 (0-3)	SB117 (5-7.5)	B120 (0-3)	B121 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	2/3/25	2/3/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.051	<0.13	<0.030	<0.026	<0.041	<0.149	<0.0311	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.029	<0.074	<0.017	<0.015	<0.023	<0.0802	<0.0168	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.032	<0.082	<0.019	<0.017	<0.026	<0.086	<0.018	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.034	<0.086	<0.020	<0.017	<0.027	<0.0630	<0.0132	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.027	<0.069	<0.016	<0.014	<0.022	<0.602	<0.126	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.024	<0.062	<0.014	<0.013	<0.020	<0.613	<0.128	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.025	<0.064	<0.015	<0.013	<0.020	<0.573	<0.120	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.16	<0.41	<0.095	<0.082	<0.13	<0.922	<0.193	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.41	<1.1	<0.25	<0.21	<0.33	<1.21	<0.253	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.041	<0.10	<0.024	<0.021	<0.033	<0.235	<0.0491	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.024	<0.062	<0.014	<0.013	<0.020	<0.0859	<0.0180	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.027	<0.068	<0.016	<0.014	<0.021	<0.0974	<0.0204	--	--	--	--	--	--	--
2-Chlorophenol	<0.023	<0.059	<0.014	<0.012	<0.019	<0.544	<0.114	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	3.1	0.19	0.043	0.052	<0.012	0.684	<0.0216	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	0.056	<0.096	<0.022	<0.019	<0.030	<0.132	<0.0275	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.038	<0.098	<0.023	<0.020	<0.031	<0.636	<0.133	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.049	<0.12	<0.029	<0.025	<0.039	<0.647	<0.135	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.059	<0.15	<0.035	<0.030	<0.047	<0.567	<0.119	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	0.19	<0.13	<0.031	<0.027	<0.042	<0.136	<0.0284	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.033	<0.083	<0.019	<0.017	<0.026	<0.607	<0.127	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.40	<1.0	<0.24	<0.21	<0.32	<0.985	<0.206	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.049	<0.12	<0.029	<0.025	<0.039	<0.103	<0.0216	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.028	<0.071	<0.017	<0.014	<0.022	<0.590	<0.123	--	--	--	--	--	--	--
4-Chloroaniline	<0.75	<1.9	<0.45	<0.39	<0.60	<0.796	<0.166	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.094	<0.24	<0.056	<0.048	<0.075	<0.0745	<0.0156	--	--	--	--	--	--	--
4-Nitroaniline	<0.053	<0.13	<0.031	<0.027	<0.042	<0.372	<0.0778	--	--	--	--	--	--	--
4-Nitrophenol	<0.27	<0.68	<0.16	<0.14	<0.21	<0.521	<0.109	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.027	<0.068	<0.016	<0.014	<0.021	<0.109	<0.0228	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.033	<0.084	<0.020	<0.017	<0.026	<0.166	<0.0347	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.051	<0.13	<0.030	<0.026	<0.041	<0.138	<0.0287	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.28	<0.71	<0.17	<0.14	<0.22	<0.676	<0.141	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.036	<0.091	<0.021	<0.018	<0.029	<0.670	<0.140	410,000	930	410,000	930	930	930	*
Carbazole	**11**	0.24	<0.017	<0.015	<0.023	0.180	<0.0156	290	--	6,200	--	0.6	2.8	NA
Dibenzofuran	12	0.28	<0.015	<0.013	<0.020	0.602	<0.0180	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.033	<0.084	<0.019	<0.017	<0.026	<0.561	<0.117	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.016	<0.040	<0.0092	<0.0080	<0.012	<0.624	<0.131	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.023	<0.058	<0.013	<0.012	<0.018	<0.521	<0.109	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.50	<1.3	<0.30	<0.26	<0.40	<0.751	<0.157	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.014	<0.035	<0.0081	<0.0071	<0.011	<0.613	<0.128	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.040	<0.10	<0.024	<0.021	<0.032	<0.590	<0.123	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.76	<1.9	<0.45	<0.39	<0.61	<0.498	<0.104	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.036	<0.091	<0.021	<0.018	<0.029	<0.556	<0.116	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.037	<0.094	<0.022	<0.019	<0.030	<0.0917	<0.0192	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.023	<0.058	<0.013	<0.012	<0.018	<0.0688	<0.0144	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.014	<0.036	<0.0084	<0.0073	<0.011	<0.212	<0.0443	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.043	<0.11	<0.025	<0.022	<0.034	<0.158	<0.0330	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.18	<0.46	<0.11	<0.092	<0.14	<1.00	<0.210	24	--	520	--	0.03	0.14	*^
Phenol	0.073	<0.079	<0.018	<0.016	<0.025	<0.579	<0.121	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (34 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	B122 (0-3)	B122 (15-17.5)	B123 (0-3)	B123 (5-7.5)	B125 (0-3)	B125 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
							Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	2/3/25	2/3/25	2/3/25	2/3/25	2/4/25	2/4/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.159	<0.0307	<0.154	<0.145	<0.610	<0.578	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.0857	<0.0165	<0.0827	<0.0782	<0.329	<0.311	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.092	<0.018	<0.089	<0.084	<0.352	<0.333	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.0673	<0.0130	<0.0650	<0.0614	<0.258	<0.245	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.643	<0.124	<0.620	<0.586	<2.46	<2.33	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.655	<0.126	<0.632	<0.597	<2.51	<2.38	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.612	<0.118	<0.591	<0.558	<2.35	<2.22	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.985	<0.190	<0.951	<0.899	<3.78	<3.58	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<1.29	<0.249	<1.25	<1.18	<4.95	<4.69	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	**<0.251**	<0.0485	<0.242	<0.229	**<0.962**	**<0.911**	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.0918	<0.0177	<0.0886	<0.0837	<0.352	<0.333	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.104	<0.0201	<0.100	<0.0949	<0.399	<0.378	--	--	--	--	--	--	--
2-Chlorophenol	<0.581	<0.112	<0.561	<0.530	<2.23	<2.11	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.114	<0.0213	<0.106	0.128	<0.422	<0.400	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.141	<0.0272	<0.136	<0.128	<0.540	<0.511	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.679	<0.131	<0.656	<0.620	<2.61	<2.47	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.692	<0.134	<0.667	<0.631	<2.65	<2.51	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.606	<0.117	<0.585	<0.553	<2.32	<2.20	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.145	<0.0280	<0.140	<0.132	<0.556	<0.527	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.649	<0.125	<0.626	<0.592	<2.49	<2.36	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<1.05	<0.203	<1.02	<0.960	<4.04	<3.82	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.110	<0.0213	<0.106	<0.100	<0.422	<0.400	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.630	<0.122	<0.608	<0.575	<2.42	<2.29	--	--	--	--	--	--	--
4-Chloroaniline	<0.851	<0.164	<0.821	<0.776	<3.26	<3.09	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.0796	<0.0154	<0.0768	<0.0726	<0.305	<0.289	--	--	--	--	--	--	--
4-Nitroaniline	<0.398	<0.0768	<0.384	<0.363	<1.53	<1.44	--	--	--	--	--	--	--
4-Nitrophenol	<0.557	<0.108	<0.537	<0.508	<2.14	<2.02	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.116	<0.0225	<0.112	<0.106	<0.446	<0.422	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.177	<0.0343	<0.171	<0.162	<0.681	<0.645	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.147	<0.0284	<0.142	<0.134	<0.563	<0.533	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<0.722	<0.139	<0.697	<0.659	<2.77	<2.62	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.716	<0.138	<0.691	<0.653	<2.75	<2.60	410,000	930	410,000	930	930	930	*
Carbazole	<0.0796	<0.0154	<0.0768	<0.0726	<0.305	<0.289	290	--	6,200	--	0.6	2.8	NA
Dibenzofuran	<0.0918	<0.0177	<0.0886	<0.0837	<0.352	<0.333	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.600	<0.116	<0.579	<0.547	<2.30	<2.18	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.667	<0.129	<0.644	<0.609	<2.56	<2.42	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.557	0.145	<0.537	<0.508	<2.14	<2.02	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.802	<0.155	<0.774	<0.731	<3.07	<2.91	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.655	<0.126	<0.632	<0.597	<2.51	<2.38	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.630	<0.122	<0.608	<0.575	<2.42	<2.29	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.532	<0.103	<0.514	<0.486	<2.04	<1.93	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.594	<0.115	<0.573	<0.542	<2.28	<2.16	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.0979	<0.0189	<0.0945	<0.0893	<0.376	<0.356	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.0734	<0.0142	<0.0709	<0.0670	<0.282	<0.267	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.226	<0.0437	<0.219	<0.207	<0.868	<0.822	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.169	<0.0326	<0.163	<0.154	<0.648	<0.613	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<1.07	<0.207	<1.03	<0.977	<4.11	<3.89	24	--	520	--	0.03	0.14	*^
Phenol	<0.618	<0.119	<0.597	<0.564	<2.37	<2.25	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 2 (35 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	B126 (0-3)	B126 (5-7.5)	B127 (0-3)	B127 (5-7.5)	SB128 (0-3)	SB128 (7.5-10)	SB129 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	2/4/25	2/4/25	2/4/25	2/4/25	2/10/25	2/10/25	2/10/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.595	<0.615	<0.161	<0.146	<0.0293	<0.0287	0.0784	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.320	<0.331	<0.0867	<0.0788	<0.0158	<0.0155	<0.0155	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.343	<0.355	<0.093	<0.0845	<0.017	<0.017	<0.017	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.252	<0.260	<0.0681	<0.0619	<0.0124	<0.0121	<0.0122	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<2.40	<2.48	<0.650	<0.591	<0.118	<0.116	<0.116	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<2.45	<2.53	<0.663	<0.602	<0.121	<0.118	<0.119	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<2.29	<2.37	<0.619	<0.563	<0.113	<0.110	<0.111	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<3.68	<3.81	<0.997	<0.907	<0.182	<0.178	<0.179	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<4.83	<4.99	<1.31	<1.19	<0.238	<0.233	<0.234	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	**<0.938**	**<0.970**	**<0.254**	<0.231	<0.0462	<0.0453	<0.0455	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.343	<0.355	<0.0929	<0.0845	<0.0169	<0.0166	<0.0166	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.389	<0.402	<0.105	<0.0957	<0.0192	<0.0188	<0.0189	--	--	--	--	--	--	--
2-Chlorophenol	<2.17	<2.25	<0.588	<0.535	<0.107	<0.105	<0.105	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	<0.412	<0.426	0.136	<0.101	0.0402	0.184	0.302	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.526	<0.544	<0.142	<0.130	<0.0259	<0.0254	<0.0255	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<2.54	<2.63	<0.687	<0.625	<0.125	<0.123	<0.123	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<2.59	<2.67	<0.700	<0.636	<0.127	<0.125	<0.125	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<2.26	<2.34	<0.613	<0.557	<0.112	<0.109	<0.110	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.542	<0.561	<0.147	<0.133	<0.0267	<0.0262	<0.0263	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<2.42	<2.51	<0.656	<0.597	<0.120	<0.117	<0.118	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<3.93	<4.07	<1.07	<0.968	<0.194	<0.190	<0.191	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.412	<0.426	<0.111	<0.101	<0.0203	<0.0199	<0.0200	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<2.36	<2.44	<0.638	<0.580	<0.116	<0.114	<0.114	--	--	--	--	--	--	--
4-Chloroaniline	<3.18	<3.29	<0.861	<0.783	<0.157	<0.153	<0.154	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.297	<0.308	<0.0805	<0.0732	<0.0147	<0.0144	<0.0144	--	--	--	--	--	--	--
4-Nitroaniline	<1.49	<1.54	<0.403	<0.366	<0.0733	<0.0718	<0.0721	--	--	--	--	--	--	--
4-Nitrophenol	<2.08	<2.15	<0.564	<0.512	<0.103	<0.100	<0.101	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.435	<0.449	<0.118	<0.107	<0.0214	<0.0210	<0.0211	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.663	<0.686	<0.180	<0.163	<0.0327	<0.0320	<0.0322	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.549	<0.568	<0.149	<0.135	<0.0271	<0.0265	<0.0266	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	<2.70	<2.79	<0.731	<0.664	<0.133	<0.130	<0.131	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<2.68	<2.77	<0.725	<0.659	<0.132	<0.129	<0.130	410,000	930	410,000	930	930	930	*
Carbazole	<0.297	<0.308	0.140	0.114	0.0459	0.0684	0.0473	290	--	6,200	--	0.6	2.8	NA
Dibenzofuran	<0.343	<0.355	<0.0929	<0.0845	0.0365	0.408	0.0902	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<2.24	<2.32	<0.607	<0.552	<0.111	<0.108	<0.109	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<2.49	<2.58	<0.675	<0.614	<0.123	<0.120	<0.121	--	--	--	--	--	--	--
Di-n-butylphthalate	<2.08	<2.15	<0.564	<0.512	<0.103	<0.100	<0.101	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<3.00	<3.10	<0.811	<0.738	<0.148	<0.145	<0.145	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<2.45	<2.53	<0.663	<0.602	<0.121	<0.118	<0.119	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<2.36	<2.44	<0.638	<0.580	<0.116	<0.114	<0.114	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<1.99	<2.06	<0.539	<0.490	<0.0981	<0.0960	<0.0965	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<2.22	<2.29	<0.601	<0.546	<0.109	<0.107	<0.108	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.366	<0.378	<0.0991	<0.0901	<0.0180	<0.0177	<0.0177	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.275	<0.284	<0.0743	<0.0676	<0.0135	<0.0132	<0.0133	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.846	<0.875	<0.229	<0.208	<0.0417	<0.0408	<0.0410	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.631	<0.653	<0.171	<0.155	<0.0311	<0.0305	<0.0306	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<4.00	<4.14	<1.08	<0.985	<0.197	<0.193	<0.194	24	--	520	--	0.03	0.14	*^
Phenol	<2.31	<2.39	<0.625	<0.569	<0.114	<0.111	<0.112	610,000	--	61,000	--	100	100	*

TABLE NO. 2 (36 of 36)
Soil Sample Analytical Results: SVOCs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB129 (5-7.5)	SB141 (0-3)	SB143 (15-17.5)	SB144 (0-3)	SB144 (12.5-15)	SB145 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limits (ADLs)
							Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	2/10/25	2/18/25	2/18/25	2/18/25	2/18/25	4/8/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
1,2,4-Trichlorobenzene	<0.0306	<0.153	<0.0460	<0.149	<0.0342	<0.026	20,000	3,200	2,000	920	5	53	*
1,2-Dichlorobenzene	<0.0165	<0.0823	<0.0248	<0.0804	<0.0184	<0.015	180,000	560	18,000	310	17	43	*
1,3-Dichlorobenzene	<0.018	<0.082	<0.0265	<0.0861	<0.0198	<0.017	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.0129	<0.0646	<0.0195	<0.0631	<0.0145	<0.017	--	17,000	--	340	2	11	*
2,4,5-Trichlorophenol	<0.123	<0.617	<0.186	<0.603	<0.138	<0.014	200,000	--	200,000	--	270	1,400	*
2,4,6-Trichlorophenol	<0.126	<0.629	<0.189	<0.614	<0.141	<0.013	520	390	11,000	540	0.2	0.77	0.66
2,4-Dichlorophenol	<0.118	<0.588	<0.177	<0.574	<0.132	<0.013	6,100	--	610	--	1	1	*
2,4-Dimethylphenol	<0.189	<0.946	<0.285	<0.924	<0.212	<0.083	41,000	--	41,000	--	9	9	*
2,4-Dinitrophenol	<0.248	<1.24	<0.373	<1.21	<0.278	<0.21	4,100	--	410	--	0.2	0.2	3.3
2,4-Dinitrotoluene	<0.0482	<0.241	<0.0725	<0.235	<0.0540	<0.021	8.4	--	180	--	0.0008	0.0008	0.250
2,6-Dinitrotoluene	<0.0176	<0.0882	<0.0265	<0.0861	<0.0198	<0.026	8.4	--	180	--	0.0007	0.0007	0.260
2-Chloronaphthalene	<0.0200	<0.0999	<0.0301	<0.0976	<0.0224	<0.014	--	--	--	--	--	--	--
2-Chlorophenol	<0.112	<0.558	<0.168	<0.545	<0.125	<0.012	10,000	53,000	10,000	53,000	4	20	*
2-Methylnaphthalene	0.0784	0.259	0.395	0.631	<0.0237	0.045	8,176(4)	--	816(4)	--	2.91(4)	14.57(4)	--
2-Methylphenol (o-Cresol)	<0.0270	<0.135	<0.0407	<0.132	<0.0303	<0.020	100,000	--	100,000	--	15	15	*
2-Nitroaniline	<0.131	<0.652	<0.196	<0.637	<0.146	<0.020	20,440(4)	38.8(4)	20,405(4)	2(4)	0.882(4)	0.882(4)	--
2-Nitrophenol	<0.133	<0.664	<0.200	<0.649	<0.149	<0.025	--	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.116	<0.582	<0.175	<0.568	<0.130	<0.16	13	--	280	--	0.007	0.033	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.0279	<0.139	0.0560	<0.136	<0.0312	<0.027	102,200(4)	372,403(4)	4,081(4)	2,409(4)	5.6(4)	5.6(4)	--
3-Nitroaniline	<0.125	<0.623	<0.188	<0.608	<0.140	<0.017	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	<0.202	<1.01	<0.304	<0.987	<0.227	<0.21	--	--	--	--	--	--	--
4-Bromophenyl-phenyl ether	<0.0212	<0.106	<0.0318	<0.103	<0.0237	<0.025	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.121	<0.605	<0.182	<0.591	<0.136	<0.031	--	--	--	--	--	--	--
4-Chloroaniline	<0.163	<0.817	<0.246	<0.798	<0.183	<0.39	8,200	--	820	--	0.7	0.7	*
4-Chlorophenyl-phenyl ether	<0.0153	<0.0764	<0.0230	<0.0746	<0.0171	<0.048	--	--	--	--	--	--	--
4-Nitroaniline	<0.0764	<0.382	<0.115	<0.373	<0.0856	<0.027	--	--	--	--	--	--	--
4-Nitrophenol	<0.107	<0.535	<0.161	<0.522	<0.120	<0.40	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.0223	<0.112	<0.0336	<0.109	<0.0250	<0.014	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.0341	<0.170	<0.0513	<0.166	<0.0382	<0.017	5	0.47	75	0.66	0.0004	0.0004	0.66
Bis(2-chloroisopropyl)ether(2)	<0.0282	<0.141	<0.0425	<0.138	<0.0316	<0.027	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	0.160	<0.694	<0.209	<0.677	<0.155	<0.14	410	31,000	4,100	31,000	3,600	31,000	*
Butylbenzylphthalate	<0.138	<0.688	<0.207	<0.672	<0.154	<0.018	410,000	930	410,000	930	930	930	*
Carbazole	0.0274	0.159	0.0607	0.295	0.0189	0.088	290	--	6,200	--	0.6	2.8	NA
Dibenzofuran	0.0282	0.200	0.131	0.576	<0.0198	0.021	2,044(4)	--	816(4)	--	2.6(4)	13(4)	--
Diethylphthalate	<0.115	<0.576	<0.173	<0.562	<0.129	<0.017	1,000,000	2,000	1,000,000	2,000	470	470	*
Dimethylphthalate	<0.128	<0.641	<0.193	<0.626	<0.144	<0.0080	--	--	--	--	--	--	--
Di-n-butylphthalate	<0.107	<0.535	<0.161	<0.522	<0.120	<0.012	200,000	2,300	200,000	2,300	2,300	2,300	*
Di-n-octylphthalate	<0.154	<0.770	<0.232	<0.752	<0.173	<0.26	41,000	10,000	4,100	10,000	10,000	10,000	*
Hexachlorobenzene	<0.126	<0.629	<0.189	<0.614	<0.141	<0.0071	4	1.8	78	2.6	2	11	*
Hexachlorobutadiene	<0.121	<0.605	<0.182	<0.591	<0.136	<0.021	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	<0.102	<0.511	<0.154	<0.499	<0.115	<0.39	14,000	16	14,000	1.1	400	2,200	*
Hexachloroethane	<0.114	<0.570	<0.172	<0.557	<0.128	<0.018	2,000	--	2,000	--	0.5	2.6	*
Isophorone	<0.0188	<0.0940	<0.0283	<0.0918	<0.0211	<0.019	410,000	4,600	410,000	4,600	8	8	*
Nitrobenzene	<0.0141	<0.0705	<0.0212	<0.0689	<0.0158	<0.012	1,000	140	1,000	9.4	0.1	0.1	0.26
N-Nitroso-di-n-propylamine	<0.0435	<0.217	<0.0655	<0.212	<0.0487	<0.021	0.8	--	18	--	0.00005	0.00005	0.0018**
N-Nitrosodiphenylamine	<0.0325	<0.162	<0.0488	<0.158	<0.0364	<0.073	1,200	--	25,000	--	1	5.6	*
Pentachlorophenol	<0.206	<1.03	<0.310	<1.00	<0.230	<0.41	24	--	520	--	0.03	0.14	*^
Phenol	<0.119	<0.594	<0.179	<0.580	<0.133	<0.016	610,000	--	61,000	--	100	100	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
Bolded cell indicates the detection limit exceeds the ADL and an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO
** Per a NELAP accredited laboratory, the published ADL is incorrect; the allowable test method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the published ADL.
^ Per a NELAP accredited laboratory, while there is no ADL published in 35 IAC 742, the allowable analytical testing method pursuant to 35 IAC 740 (Method 8270C) cannot achieve the most stringent Tier 1 SROs.
(1) The laboratory is currently unable to separate the 3- and 4-Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported and the more stringent non-TACO SROs are presented
(2) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether
(3) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A) (Note: Csat for 2-Chlorophenol is pH-specific)
(4) Non-TACO SRO calculated in accordance with the Illinois EPA's online "Procedures for Determining Soil Remediation Objectives for Non-TACO Chemicals" (see the calculation spreadsheets following the analytical data tables)

TABLE NO. 3 (1 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB1 (0-3)	SB1 (5-7.5)	SB2 (0-3)	SB2 (3-5)	SB3 (0-3)	SB3 (5-7.5)	SB4 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/28/24	8/28/24	8/28/24	8/28/24	8/28/24	8/28/24	8/28/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.021	<0.010	0.62	<0.016	0.080	0.030	<0.015	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.018	<0.0087	0.74	<0.013	0.040	0.25	0.047	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.055	<0.010	1.8	0.12	0.25	0.87	0.10	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.29	0.014	3.9	0.30	1.2	4.1	0.30	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.37	<0.049	4.9	0.17	1.4	4.1	0.29	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.43	<0.049	4.3	0.20	1.6	4.0	0.39	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.37	<0.011	1.9	0.11	0.77	1.8	0.17	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.35	<0.019	4.3	0.13	1.4	3.8	0.32	78	--	1,700	--	49	250
Chrysene	0.33	0.019	3.6	0.51	1.3	4.0	0.37	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.10	<0.051	0.79	<0.076	0.23	0.53	<0.075	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.50	0.017	7.2	0.47	2.5	8.8	0.43	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.031	<0.015	1.3	<0.023	0.083	0.11	0.046	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.34	<0.050	2.1	<0.074	0.86	2.0	0.18	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.019	<0.0092	1.3	0.27	0.061	0.16	0.11	41,000	270	4,100	1.8	12	18
Phenanthrene	0.27	0.015	6.5	3.8	0.98	3.3	0.72	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.44	0.021	6.6	0.44	2.1	6.9	0.34	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (2 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB4 (7.5-10)	SB5 (0-3)	SB5 (5-7.5)	SB6 (0-3)	SB6 (3-5)	SB7 (0-3)	SB7 (10-12.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/28/24	8/28/24	8/28/24	8/29/24	8/29/24	8/29/24	8/29/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.047	<0.024	<0.0075	0.041	<0.0076	0.043	<0.0077	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.0090	<0.020	<0.0062	0.016	0.012	0.13	<0.0065	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	<0.011	0.041	0.015	0.046	0.035	0.16	<0.0078	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	<0.011	0.61	0.12	0.34	0.079	0.37	<0.0081	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	<0.051	0.96	0.14	0.64	0.069	0.38	<0.037	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	<0.051	0.86	0.14	0.88	0.12	0.74	<0.036	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	<0.011	0.60	0.12	0.40	0.078	0.40	<0.0082	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	<0.020	0.90	0.11	0.33	0.030	0.23	<0.014	78	--	1,700	--	49	250
Chrysene	<0.014	0.68	0.12	0.40	0.14	0.47	<0.010	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.053	0.12	<0.037	0.095	<0.037	0.10	<0.038	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	<0.012	0.58	0.18	0.47	0.17	0.82	<0.0088	82,000	--	82,000	--	4,300	21,000
Fluorene	0.043	<0.035	<0.011	<0.021	0.011	0.033	<0.011	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	<0.052	0.59	0.12	0.44	0.051	0.40	<0.037	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.0096	0.12	<0.0067	0.044	0.084	0.18	<0.0069	41,000	270	4,100	1.8	12	18
Phenanthrene	<0.012	0.22	0.068	0.25	0.44	0.94	<0.0083	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	<0.014	0.64	0.19	0.42	0.18	0.68	<0.010	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (3 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB8 (0-3)	SB8 (5-7.5)	SB9 (0-3)	SB9 (7.5-10)	SB10 (0-3)	SB10a (3-5)	SB10 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	12/17/24	8/29/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.014	<0.0072	<0.014	<0.0068	0.092	<0.034	2.3	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.012	<0.0060	0.060	<0.0056	2.9	0.11	25	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	<0.014	<0.0072	0.070	<0.0068	1.9	0.16	70	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.056	<0.0075	0.21	<0.0071	5.4	0.68	**260**	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	<0.067	<0.034	0.24	<0.032	5.9	0.67	**130**	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.080	<0.034	0.49	<0.032	13	1.5	**410**	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.047	<0.0076	0.16	<0.0072	5.9	0.51	150	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.035	<0.013	0.19	<0.013	3.9	0.58	**120**	78	--	1,700	--	49	250
Chrysene	0.070	<0.0093	0.32	<0.0088	8.9	0.86	340	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.069	<0.035	<0.069	<0.033	**1.4**	0.18	**50**	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.073	<0.0082	0.44	<0.0077	15	1.1	750	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.020	<0.010	<0.021	<0.0098	0.12	<0.034	41	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	<0.067	<0.034	0.18	<0.032	5.8	0.61	**160**	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.012	<0.0064	0.061	<0.0060	0.20	<0.034	**5.4**	41,000	270	4,100	1.8	12	18
Phenanthrene	0.061	<0.0077	0.43	0.011	8.1	0.45	430	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.068	<0.0096	0.32	<0.0091	8.6	0.81	510	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (4 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB10a (7.5-10)	SB10b (5-7.5)	SB10c (5-7.5)	SB10d (5-7.5)	SB10e (5-7.5)	SB11 (0-3)	SB11 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	12/17/24	12/17/24	12/17/24	12/17/24	12/17/24	8/29/24	8/29/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.035	<0.039	<0.040	<0.037	<0.033	<0.014	0.041	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.035	0.063	0.067	<0.037	0.043	0.20	0.044	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	<0.035	0.17	0.046	<0.037	0.065	0.25	0.067	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	<0.035	1.5	0.15	<0.037	0.34	0.94	0.16	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	<0.035	2.4	0.087	<0.037	0.29	0.63	0.14	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	<0.035	4.6	0.15	0.042	0.64	1.7	0.23	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	<0.035	1.4	0.059	<0.037	0.18	0.49	0.074	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	<0.035	2.0	0.056	<0.037	0.21	0.64	0.084	78	--	1,700	--	49	250
Chrysene	<0.035	1.4	0.21	<0.037	0.51	1.2	0.20	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.035	0.43	<0.040	<0.037	0.092	0.17	<0.075	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	<0.035	2.0	0.27	0.080	0.49	2.6	0.32	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.035	<0.039	<0.040	<0.037	<0.033	0.13	0.027	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	<0.035	2.1	<0.040	<0.037	0.22	0.57	0.079	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.035	0.051	0.12	<0.037	0.10	0.032	0.098	41,000	270	4,100	1.8	12	18
Phenanthrene	<0.035	0.36	1.2	0.073	1.3	1.4	1.2	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	<0.035	1.8	0.22	0.055	0.36	1.7	0.22	61,000	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates a value that exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Non-TACO SRO provided by the Illinois EPA (2016, subject to revision)
(2) Indicates the current Tier 1 SRO; the background concentration may be utilized in place of the Tier 1 SRO in accordance with 35 IAC 742.415 if approved by the Illinois EPA.
(3) Indicates the corrected background concentration for Chicago (Illinois EPA 2022)

TABLE NO. 3 (5 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB12 (0-3)	SB12 (7.5-10)	SB13 (0-3)	SB13 (5-7.5)	SB14 (0-3)	SB14 (10-12.5)	SB15 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	8/29/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.015	<0.0070	<0.014	<0.0072	0.015	0.12	<0.015	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.074	<0.0058	0.027	0.013	0.069	0.016	0.28	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.11	<0.0070	0.039	0.027	0.095	0.12	0.30	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.26	0.017	0.14	0.11	0.30	0.11	0.65	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.40	<0.033	0.16	0.093	0.28	0.058	1.2	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.77	<0.033	0.25	0.16	0.52	0.070	2.2	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.49	0.018	0.095	0.081	0.18	0.050	0.86	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.25	<0.013	0.082	0.055	0.14	0.024	0.73	78	--	1,700	--	49	250
Chrysene	0.35	0.019	0.17	0.13	0.31	0.14	1.1	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.11	<0.034	<0.070	<0.035	<0.070	<0.040	0.25	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.44	0.019	0.25	0.17	0.42	0.19	0.60	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.022	<0.010	<0.021	<0.010	<0.021	0.11	0.028	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.42	<0.033	0.092	0.082	0.18	<0.039	0.87	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.091	<0.0062	0.029	0.057	0.033	0.14	0.036	41,000	270	4,100	1.8	12	18
Phenanthrene	0.49	0.048	0.22	0.30	0.40	1.2	0.22	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.38	0.019	0.19	0.14	0.35	0.18	0.67	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (6 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB15 (7.5-10)	SB16 (0-3)	SB16 (3-5)	SB17 (0-3)	SB17 (5-7.5)	SB18 (0-3)	SB18 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/29/24	8/29/24	8/29/24	8/30/24	8/30/24	8/30/24	8/30/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.019	<0.0069	0.016	<0.0075	<0.0077	0.14	0.015	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.017	<0.0058	<0.0060	0.23	<0.0064	0.45	0.076	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.053	0.013	0.049	0.26	<0.0077	0.85	0.080	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.30	0.097	0.28	0.41	<0.0080	4.5	0.14	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.28	0.13	0.24	0.60	<0.037	4.0	0.098	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.56	0.19	0.42	1.1	<0.036	6.1	0.19	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.26	0.13	0.20	0.44	<0.0082	2.7	0.087	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.21	0.12	0.29	0.39	<0.014	2.1	0.069	78	--	1,700	--	49	250
Chrysene	0.42	0.14	0.43	0.62	<0.010	5.5	0.17	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.057	0.037	0.068	0.14	<0.038	0.88	<0.038	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.76	0.11	0.61	0.51	<0.0088	11	0.34	82,000	--	82,000	--	4,300	21,000
Fluorene	0.011	<0.010	<0.010	0.022	<0.011	0.23	0.031	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.25	0.12	0.19	0.48	<0.037	2.9	0.084	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.025	0.013	0.017	0.038	<0.0069	0.31	0.057	41,000	270	4,100	1.8	12	18
Phenanthrene	0.32	0.048	0.25	0.25	<0.0082	6.6	0.47	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.61	0.11	0.54	0.70	<0.010	9.3	0.25	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (7 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB19 (0-3)	SB19 (5-7.5)	SB20 (0-3)	SB20 (3-5)	SB21 (0-3)	SB21 (12.5-15)	SB22 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.047	<0.0067	0.099	0.38	0.28	0.16	0.076	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.17	<0.0056	0.027	0.40	0.18	0.070	0.058	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.19	<0.0067	0.19	1.3	0.32	0.21	0.11	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.75	0.016	1.3	2.8	2.2	0.17	0.17	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.83	<0.032	2.4	2.6	4.3	0.18	0.21	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	1.4	<0.031	3.4	3.8	4.7	0.093	0.22	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.55	0.023	2.9	1.5	3.8	0.29	0.17	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.49	<0.012	1.3	1.4	2.0	<0.028	0.087	78	--	1,700	--	49	250
Chrysene	0.88	0.013	1.9	3.1	2.7	0.36	0.31	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.20	<0.033	0.57	0.54	0.83	<0.072	<0.071	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	1.3	0.011	1.9	7.1	2.8	0.18	0.33	82,000	--	82,000	--	4,300	21,000
Fluorene	0.036	<0.0097	0.048	0.64	0.084	0.22	0.12	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.61	<0.032	2.7	1.7	3.7	0.093	0.11	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.070	<0.0059	0.053	0.46	0.076	<0.013	<0.013	41,000	270	4,100	1.8	12	18
Phenanthrene	0.96	<0.0071	0.81	7.8	1.1	0.93	0.051	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	1.2	0.012	1.7	5.8	2.9	1.1	0.44	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (8 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB22 (10-12.5)	SB23 (0-3)	SB23 (5-7.5)	SB24 (0-3)	SB24 (7.5-10)	SB25 (0-3)	SB25 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	8/30/24	8/30/24	8/30/24	9/3/24	9/3/24	9/3/24	9/3/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.036	0.024	0.094	0.36	0.040	0.24	1.0	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.014	0.048	0.025	0.091	0.084	0.030	0.13	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	<0.0071	0.087	0.24	0.74	0.18	0.65	3.5	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	<0.0074	0.31	0.63	1.9	0.69	2.2	10	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	<0.034	0.36	0.62	2.0	0.90	2.1	9.3	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	<0.033	0.50	0.82	2.8	1.2	2.9	13	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	<0.0075	0.23	0.41	1.4	0.60	1.3	5.3	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	<0.013	0.22	0.33	1.0	0.55	1.1	4.9	78	--	1,700	--	49	250
Chrysene	<0.0092	0.36	0.77	2.0	0.82	2.3	9.9	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.035	0.060	0.11	0.37	0.16	0.36	**1.3**	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.059	0.56	1.4	4.2	1.2	4.8	28	82,000	--	82,000	--	4,300	21,000
Fluorene	0.022	0.020	0.086	0.35	0.032	0.19	0.84	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	<0.034	0.26	0.38	1.5	0.67	1.4	**6.0**	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.0063	0.041	0.041	0.47	0.046	0.070	0.15	41,000	270	4,100	1.8	12	18
Phenanthrene	<0.0076	0.44	1.0	3.3	0.64	2.7	13	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.073	0.49	1.1	3.7	1.1	4.4	19	61,000	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates a value that exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Non-TACO SRO provided by the Illinois EPA (2016, subject to revision)
(2) Indicates the current Tier 1 SRO; the background concentration may be utilized in place of the Tier 1 SRO in accordance with 35 IAC 742.415 if approved by the Illinois EPA.
(3) Indicates the corrected background concentration for Chicago (Illinois EPA 2022)

TABLE NO. 3 (9 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB26 (0-3)	SB26 (7.5-10)	SB27 (0-3)	SB27 (5-7.5)	SB28 (0-3)	SB28 (10-12.5)	SB29 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.0075	<0.0074	<0.011	<0.013	0.013	0.012	<0.0078	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.0062	<0.0062	<0.0095	<0.010	0.017	<0.0067	0.019	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.013	<0.0075	0.012	<0.013	0.041	0.013	0.050	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.091	0.023	0.035	0.032	0.18	<0.0084	0.21	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.087	<0.035	<0.054	<0.060	0.17	<0.038	0.13	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.16	0.035	<0.053	<0.059	0.30	<0.038	0.25	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.075	0.022	0.027	0.016	0.12	0.014	0.093	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.058	<0.014	<0.021	<0.023	0.11	<0.015	0.079	78	--	1,700	--	49	250
Chrysene	0.10	0.023	0.034	0.046	0.22	<0.010	0.28	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.036	<0.036	<0.056	<0.061	<0.054	<0.039	<0.038	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.13	0.027	0.053	0.052	0.34	0.056	0.38	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.011	<0.011	<0.017	<0.018	<0.016	<0.012	<0.011	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.077	<0.036	<0.054	<0.060	0.12	<0.039	0.084	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.0066	<0.0066	0.024	0.024	0.025	0.025	0.061	41,000	270	4,100	1.8	12	18
Phenanthrene	0.049	0.017	0.096	0.19	0.30	0.13	1.4	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.13	0.024	0.053	0.037	0.34	0.048	0.32	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (10 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB29 (7.5-10)	SB30 (0-3)	SB30 (12.5-15)	SB31 (0-3)	SB31 (7.5-10)	SB32 (0-3)	SB32 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/3/24	9/3/24	9/3/24	9/4/24	9/4/24	9/4/24	9/4/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.016	0.13	<0.033	0.042	<0.0081	0.051	0.043	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.059	<0.012	<0.028	0.011	0.014	0.024	0.032	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.099	0.36	<0.034	0.068	0.017	0.074	0.23	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.43	0.69	<0.035	0.48	0.075	0.49	0.50	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.29	0.61	<0.16	0.78	0.082	0.83	0.44	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.55	0.93	<0.16	0.99	0.14	0.94	0.69	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.21	0.37	<0.036	0.72	0.086	0.77	0.31	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.19	0.33	<0.062	0.35	0.050	0.43	0.26	78	--	1,700	--	49	250
Chrysene	0.49	0.67	<0.043	0.59	0.11	0.59	0.50	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.074	0.097	<0.16	0.13	<0.039	0.15	0.076	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.71	1.7	0.073	0.75	0.12	0.69	1.3	82,000	--	82,000	--	4,300	21,000
Fluorene	0.030	0.14	<0.049	0.021	<0.012	0.027	0.053	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.22	0.44	<0.16	0.68	0.065	0.69	0.36	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.050	0.038	<0.030	0.016	0.044	0.036	0.075	41,000	270	4,100	1.8	12	18
Phenanthrene	0.81	1.6	0.050	0.30	0.32	0.37	1.5	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.60	1.4	0.059	0.79	0.11	0.68	1.0	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (11 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB33 (0-3)	SB33 (5-7.5)	SB34 (0-3)	SB34 (5-7.5)	SB35 (0-3)	SB35 (7.5-10)	SB36 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.024	<0.0081	0.083	<0.0073	0.11	0.059	<0.015	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.029	0.015	0.039	0.036	0.043	0.041	0.054	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.060	0.022	0.39	0.047	0.14	0.11	0.10	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.50	0.10	0.97	0.31	1.2	0.66	0.78	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	1.1	0.11	0.89	0.33	2.1	1.1	0.95	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	1.5	0.19	1.4	0.60	3.1	1.6	2.0	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	1.2	0.16	0.58	0.29	2.3	1.3	1.7	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.54	0.056	0.47	0.18	1.0	0.63	0.73	78	--	1,700	--	49	250
Chrysene	0.65	0.13	1.0	0.39	1.6	0.89	0.99	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.24	<0.039	0.15	0.091	0.55	0.30	0.22	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.66	0.17	2.1	0.58	1.5	0.95	2.4	82,000	--	82,000	--	4,300	21,000
Fluorene	0.015	<0.012	0.089	0.011	0.040	0.035	<0.021	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	1.1	0.11	0.62	0.30	2.1	1.2	1.4	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.050	0.046	0.10	0.058	0.045	0.044	0.11	41,000	270	4,100	1.8	12	18
Phenanthrene	0.34	0.30	1.4	0.31	0.67	0.46	1.8	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.62	0.14	1.8	0.47	1.4	0.88	1.7	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (12 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB36 (5-7.5)	SB37 (0-3)	SB37 (12.5-15)	SB38 (0-3)	SB38 (12.5-15)	SB39 (0-3)	SB39 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.021	<0.015	0.012	0.094	1.0	0.91	0.096	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.090	0.14	<0.0062	0.045	0.029	0.085	0.028	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.082	0.096	0.022	0.27	1.8	2.5	0.24	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.61	0.42	0.053	1.9	4.9	9.3	0.85	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.61	0.46	<0.035	1.9	4.5	9.4	0.84	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	1.0	0.85	0.063	2.9	6.0	13	1.3	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.56	0.35	0.026	1.1	2.0	4.8	0.50	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.46	0.29	<0.014	1.1	2.3	4.9	0.52	78	--	1,700	--	49	250
Chrysene	0.69	0.59	0.052	2.1	5.0	9.8	0.93	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.12	0.10	<0.036	0.29	0.64	**1.4**	0.15	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	1.3	0.62	0.11	3.1	11	19	1.8	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.021	0.026	0.014	0.071	0.81	0.80	0.080	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.59	0.39	<0.036	1.2	2.4	5.4	0.57	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.055	0.11	0.029	0.021	0.11	0.10	0.025	41,000	270	4,100	1.8	12	18
Phenanthrene	0.85	0.45	0.18	1.1	6.5	9.1	0.95	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	1.0	0.55	0.081	2.8	8.4	16	1.5	61,000	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates a value that exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Non-TACO SRO provided by the Illinois EPA (2016, subject to revision)
(2) Indicates the current Tier 1 SRO; the background concentration may be utilized in place of the Tier 1 SRO in accordance with 35 IAC 742.415 if approved by the Illinois EPA.
(3) Indicates the corrected background concentration for Chicago (Illinois EPA 2022)

TABLE NO. 3 (13 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB40 (0-3)	SB40 (0-3)	SB41 (0-3)	SB41 (5-7.5)	SB42 (0-3)	SB42 (7.5-10)	SB43 (0-3)	Tier 1 SRO: Industrial - Commercial		Tier 1 SRO: Construction Worker		Tier 1 SRO: Migration to Groundwater	
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**						
Acenaphthene	0.25	0.094	13	0.93	0.42	<0.0098	<0.022	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.021	<0.0063	0.19	0.045	0.063	<0.0082	<0.018	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.57	0.20	23	1.9	0.78	<0.0098	<0.022	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	2.3	0.53	**60**	5.0	2.4	<0.010	0.056	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	2.4	0.54	**53**	4.5	2.1	<0.046	<0.10	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	3.3	0.73	**77**	6.4	3.1	<0.046	<0.10	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	1.2	0.27	22	2.5	1.1	<0.010	<0.023	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	1.2	0.30	20	2.7	1.2	<0.018	<0.041	78	--	1,700	--	49	250
Chrysene	2.5	0.59	60	5.2	2.5	<0.013	0.036	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.34	0.073	**10**	0.90	0.33	<0.048	<0.11	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	4.9	1.2	130	11	5.2	<0.011	0.044	82,000	--	82,000	--	4,300	21,000
Fluorene	0.19	0.082	11	0.78	0.34	<0.014	<0.032	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	1.4	0.32	**24**	2.7	1.2	<0.047	<0.10	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.058	0.065	**2.7**	0.17	0.16	<0.0087	<0.019	41,000	270	4,100	1.8	12	18
Phenanthrene	2.2	0.86	99	7.4	3.2	<0.010	0.025	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	4.1	0.96	100	8.5	4.0	<0.013	0.044	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (14 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB43 (10-12.5)	SB44 (0-3)	SB44 (5-7.5)	SB45 (0-3)	SB45 (5-7.5)	SB46 (0-3)	SB46 (3-5)	Tier 1 SRO: Industrial - Commercial		Tier 1 SRO: Construction Worker		Tier 1 SRO: Migration to Groundwater	
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**9/4/24**	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**						
Acenaphthene	<0.015	0.019	<0.0076	<0.0069	0.12	1.4	0.55	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.012	<0.0059	<0.0063	<0.0058	0.26	0.055	0.028	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.14	0.019	0.016	0.015	1.3	3.5	1.7	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.22	0.060	0.058	0.061	1.7	4.2	1.8	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.11	0.043	<0.036	0.045	0.88	3.9	1.7	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.14	0.074	<0.036	0.044	0.76	4.1	1.9	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.070	0.040	0.031	0.035	0.27	1.9	0.86	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.065	0.047	0.023	0.046	0.97	3.3	1.5	78	--	1,700	--	49	250
Chrysene	0.30	0.10	0.095	0.083	1.6	4.1	1.9	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.073	<0.035	<0.037	<0.034	0.11	0.52	0.23	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.41	0.13	0.11	0.11	3.9	15	6.1	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.022	<0.010	<0.011	<0.010	0.39	2.0	0.79	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	<0.071	<0.034	<0.036	<0.033	0.37	2.2	0.96	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.19	0.28	0.031	0.060	0.19	**2.5**	0.39	41,000	270	4,100	1.8	12	18
Phenanthrene	3.1	0.52	0.94	0.51	3.7	13	5.3	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.34	0.11	0.096	0.096	3.1	10	4.1	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (15 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB47 (0-3)	SB47 (7.5-10)	SB48 (0-3)	SB48 (5-7.5)	SB49 (0-3)	SB49 (10-12.5)	SB50 (0-3)	Tier 1 SRO: Industrial - Commercial		Tier 1 SRO: Construction Worker		Tier 1 SRO: Migration to Groundwater	
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**						
Acenaphthene	0.047	0.17	0.18	5.9	<0.0074	<0.0086	0.011	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.022	0.029	0.048	<0.012	<0.0061	<0.0072	0.016	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.13	0.59	0.50	11	0.031	0.011	0.034	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.51	0.84	1.5	**19**	0.16	0.048	0.36	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.53	0.83	1.5	**19**	0.19	<0.041	0.31	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.64	0.79	1.7	**20**	0.18	0.043	0.88	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.40	0.55	0.78	8.0	0.16	0.034	0.38	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.48	0.70	1.3	16	0.20	0.044	0.40	78	--	1,700	--	49	250
Chrysene	0.73	0.98	1.6	19	0.17	0.056	0.72	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.11	0.19	0.25	**3.6**	<0.036	<0.042	0.16	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.98	2.2	3.4	41	0.29	0.088	0.55	82,000	--	82,000	--	4,300	21,000
Fluorene	0.047	0.21	0.18	5.8	<0.011	<0.013	0.013	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.38	0.57	0.81	**9.3**	0.18	<0.041	0.38	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.022	0.15	0.044	1.6	0.017	0.014	0.058	41,000	270	4,100	1.8	12	18
Phenanthrene	0.58	2.0	2.0	35	0.27	0.13	0.48	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.87	1.7	2.8	34	0.23	0.074	0.46	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (16 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB50 (7.5-10)	SB51 (0-3)	SB51 (5-7.5)	SB52 (0-3)	SB52 (7.5-10)	SB53 (0-3)	SB53 (10-12.5)	Tier 1 SRO: Industrial - Commercial		Tier 1 SRO: Construction Worker		Tier 1 SRO: Migration to Groundwater	
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**						
Acenaphthene	0.029	0.098	<0.0076	0.10	<0.016	<0.015	<0.0078	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.26	0.034	0.013	0.091	<0.013	<0.013	<0.0065	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.48	0.11	0.014	0.59	0.17	0.12	0.019	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	2.0	0.33	0.085	2.1	0.53	0.33	0.059	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	2.1	0.42	0.077	2.2	0.50	0.28	0.062	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	2.3	0.41	0.16	2.0	0.66	0.37	0.095	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	1.6	0.35	0.10	1.4	0.31	0.17	0.063	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	2.4	0.36	0.080	1.8	0.46	0.24	0.053	78	--	1,700	--	49	250
Chrysene	1.9	0.43	0.16	2.2	0.77	0.46	0.10	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.40	0.083	<0.037	0.40	0.12	<0.075	<0.038	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	4.4	0.84	0.17	4.3	0.91	0.65	0.075	82,000	--	82,000	--	4,300	21,000
Fluorene	0.17	0.061	<0.011	0.099	<0.023	<0.022	<0.011	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	1.9	0.33	0.093	1.5	0.32	0.16	0.060	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.081	0.26	0.020	0.089	0.32	0.13	0.014	41,000	270	4,100	1.8	12	18
Phenanthrene	1.6	1.1	0.22	1.7	3.0	1.8	0.25	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	3.3	0.65	0.11	3.9	0.75	0.56	0.083	61,000	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates a value that exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Non-TACO SRO provided by the Illinois EPA (2016, subject to revision)
(2) Indicates the current Tier 1 SRO; the background concentration may be utilized in place of the Tier 1 SRO in accordance with 35 IAC 742.415 if approved by the Illinois EPA.
(3) Indicates the corrected background concentration for Chicago (Illinois EPA 2022)

TABLE NO. 3 (17 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB54 (0-3)	SB54 (10-12.5)	SB55 (0-3)	SB55 (5-7.5)	SB56 (0-3)	SB56 (5-7.5)	SB57 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/5/24	9/5/24	9/5/24	9/5/24	9/6/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.017	<0.017	0.023	<0.016	<0.0075	<0.0079	<0.0072	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.079	0.041	0.041	0.025	0.011	0.014	0.020	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.12	0.041	0.076	0.026	0.0083	0.025	0.025	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	1.6	0.17	0.37	0.19	0.054	0.10	0.21	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	1.8	0.15	0.50	0.17	0.044	0.051	0.26	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	2.7	0.32	0.71	0.41	0.089	0.10	0.45	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.91	0.35	0.41	0.26	0.042	0.054	0.24	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.95	0.11	0.27	0.13	0.031	0.026	0.12	78	--	1,700	--	49	250
Chrysene	1.9	0.27	0.44	0.29	0.067	0.12	0.24	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.28	<0.083	0.092	<0.077	<0.037	<0.039	0.078	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	2.3	0.25	0.67	0.21	0.092	0.18	0.33	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.023	<0.025	<0.021	<0.023	<0.011	<0.012	<0.010	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.95	0.17	0.39	0.21	0.039	<0.038	0.24	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.061	0.15	0.023	0.063	0.018	0.035	<0.0064	41,000	270	4,100	1.8	12	18
Phenanthrene	0.30	0.20	0.26	0.12	0.13	0.99	0.078	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	2.0	0.22	0.56	0.18	0.078	0.14	0.29	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (18 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB57 (7.5-10)	SB58 (0-3)	SB58 (10-12.5)	SB59 (0-3)	SB59 (5-7.5)	SB60 (0-3)	SB60 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.0076	<0.015	<0.014	0.12	<0.014	<0.014	<0.014	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.0063	0.023	<0.012	0.070	<0.012	<0.012	0.038	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	<0.0076	<0.015	<0.014	0.29	0.017	0.025	0.046	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	<0.0079	0.18	<0.014	1.0	0.085	0.12	0.16	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	<0.036	0.18	<0.066	0.84	0.076	0.14	0.15	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	<0.035	0.25	<0.065	1.5	0.098	0.22	0.27	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	<0.0081	0.098	<0.015	0.54	0.052	0.096	0.15	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	<0.014	0.19	<0.026	0.53	0.081	0.15	0.12	78	--	1,700	--	49	250
Chrysene	<0.0098	0.19	<0.018	1.2	0.090	0.17	0.20	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.037	<0.071	<0.068	0.18	<0.069	<0.070	<0.068	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	<0.0086	0.27	0.039	2.2	0.12	0.22	0.29	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.011	<0.021	<0.020	0.11	<0.020	<0.021	<0.020	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	<0.036	0.11	<0.066	0.61	<0.067	0.11	0.12	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.0067	<0.013	<0.012	0.11	<0.012	0.023	0.019	41,000	270	4,100	1.8	12	18
Phenanthrene	0.0083	0.060	0.055	1.8	0.14	0.20	0.21	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	<0.010	0.22	0.046	1.5	0.11	0.19	0.23	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (19 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB61 (0-3)	SB61 (17.5-19)	SB62 (0-3)	SB62 (7.5-10)	SB63 (0-3)	SB63 (5-7.5)	SB64 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.015	1.5	<0.0079	<0.0079	0.063	0.068	0.57	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.22	<0.090	<0.0066	<0.0066	<0.0061	0.022	<0.013	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.20	2.8	<0.0079	<0.0079	0.063	0.071	0.59	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	1.6	3.3	0.018	<0.0082	0.66	0.55	5.1	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	1.5	3.0	<0.037	<0.037	1.5	0.93	**12**	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	2.2	3.0	<0.037	<0.037	1.8	1.3	13	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.72	1.9	<0.0084	<0.0084	1.4	0.95	8.7	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	2.0	2.5	<0.015	<0.015	0.62	0.52	6.5	78	--	1,700	--	49	250
Chrysene	1.5	5.1	0.012	<0.010	0.82	0.69	7.1	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.30	0.61	<0.039	<0.038	0.26	0.22	**2.2**	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	2.3	9.1	0.016	<0.0090	0.72	0.67	5.5	82,000	--	82,000	--	4,300	21,000
Fluorene	0.023	4.4	<0.011	<0.011	0.018	0.030	0.17	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.85	1.7	<0.038	<0.038	1.3	0.82	**8.0**	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.10	**2.1**	<0.0070	<0.0070	0.011	0.034	0.11	41,000	270	4,100	1.8	12	18
Phenanthrene	0.90	14	0.015	<0.0084	0.23	0.26	2.3	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	2.1	15	0.015	0.012	0.76	0.91	5.3	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (20 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB64 (7.5-10)	SB65 (0-3)	SB65 (7.5-10)	SB66 (0-3)	SB66 (5-7.5)	SB67 (0-3)	SB67 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.017	0.079	0.031	0.25	0.055	0.028	0.030	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.014	0.017	0.017	<0.012	<0.012	0.018	0.0098	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	<0.017	0.10	0.040	0.23	0.12	0.080	0.032	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.12	0.57	0.26	1.7	0.51	0.46	0.23	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.22	1.0	0.42	3.8	0.74	0.65	0.39	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.26	1.3	0.53	3.8	0.89	0.82	0.52	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.19	1.0	0.41	3.5	0.69	0.60	0.39	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.19	0.44	0.22	1.7	0.36	0.35	0.20	78	--	1,700	--	49	250
Chrysene	0.17	0.69	0.34	2.1	0.56	0.52	0.29	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.084	0.19	0.11	0.58	0.14	0.14	0.088	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.15	0.78	0.34	2.2	0.87	0.79	0.35	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.025	0.032	<0.021	0.078	0.025	0.024	0.013	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.19	0.90	0.39	3.2	0.62	0.57	0.37	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.015	0.025	<0.013	0.041	0.017	<0.013	0.026	41,000	270	4,100	1.8	12	18
Phenanthrene	0.081	0.36	0.15	0.99	0.45	0.29	0.16	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.15	0.78	0.34	2.3	0.75	0.70	0.34	61,000	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates a value that exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Non-TACO SRO provided by the Illinois EPA (2016, subject to revision)
(2) Indicates the current Tier 1 SRO; the background concentration may be utilized in place of the Tier 1 SRO in accordance with 35 IAC 742.415 if approved by the Illinois EPA.
(3) Indicates the corrected background concentration for Chicago (Illinois EPA 2022)

TABLE NO. 3 (21 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB68 (0-3)	SB68 (7.5-10)	SB69 (0-3)	SB69 (3-5)	SB70 (0-3)	SB70 (12.5-15)	SB70 (17.5-20)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/9/24	9/9/24	9/9/24	9/9/24	9/9/24	9/9/24	9/9/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.23	0.11	0.033	0.038	<0.0070	1.7	0.015	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.075	0.093	0.033	0.10	<0.0058	0.86	<0.0065	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.53	0.24	0.15	0.10	<0.0070	1.3	0.016	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	2.3	1.8	0.57	0.72	<0.0073	0.16	0.073	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	4.1	2.6	0.52	0.83	<0.033	<0.069	0.086	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	5.2	3.9	0.95	1.5	<0.033	<0.068	0.072	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	3.7	2.9	0.46	0.81	<0.0074	<0.015	0.12	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	1.6	1.6	0.27	0.39	<0.013	<0.027	0.12	78	--	1,700	--	49	250
Chrysene	2.8	2.4	0.73	0.89	<0.0090	0.43	0.11	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.85	0.58	0.12	0.17	<0.034	<0.071	0.15	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	3.8	2.9	0.93	1.2	0.020	0.28	0.013	82,000	--	82,000	--	4,300	21,000
Fluorene	0.16	0.061	0.026	<0.022	0.012	3.0	<0.011	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	3.5	2.7	0.46	0.73	<0.033	<0.070	0.14	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.055	0.043	0.019	0.029	<0.0062	0.60	<0.0069	41,000	270	4,100	1.8	12	18
Phenanthrene	2.0	0.99	0.36	0.34	0.11	3.8	<0.0083	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	3.2	2.7	0.99	1.2	0.011	0.86	0.017	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (22 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB71 (0-3)	SB72 (0-3)	SB72 (7.5-10)	SB73 (0-3)	SB73 (5-7.5)	SB74 (0-3)	SB74 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/9/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.10	<0.0083	<0.0077	<0.0071	<0.0078	<0.0077	<0.0079	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.26	0.065	<0.0064	<0.0059	<0.0065	<0.0064	0.058	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.49	0.098	<0.0077	0.017	<0.0078	0.036	0.084	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	1.8	0.18	<0.0080	0.048	<0.0081	0.068	0.16	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	2.2	0.11	<0.037	<0.034	<0.037	0.045	0.13	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	3.1	0.17	<0.036	0.034	<0.037	0.055	0.21	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	1.4	0.090	<0.0082	0.027	<0.0083	0.038	0.12	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	1.2	0.11	<0.014	0.023	<0.015	0.052	0.16	78	--	1,700	--	49	250
Chrysene	1.8	0.27	<0.010	0.081	<0.010	0.085	0.24	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.46	<0.041	<0.038	<0.035	<0.038	<0.038	<0.039	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	3.2	0.33	<0.0088	0.075	<0.0089	0.11	0.29	82,000	--	82,000	--	4,300	21,000
Fluorene	0.089	<0.012	<0.011	<0.010	<0.011	<0.011	<0.012	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	1.5	0.070	<0.037	<0.034	<0.037	<0.037	0.12	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.12	0.17	<0.0068	0.032	<0.0069	0.12	0.16	41,000	270	4,100	1.8	12	18
Phenanthrene	1.3	1.8	<0.0082	0.46	<0.0084	0.50	1.3	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	2.7	0.33	<0.010	0.075	<0.010	0.13	0.31	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (23 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB75 (0-3)	SB75 (5-7.5)	SB76 (0-3)	SB76 (7.5-10)	SB77 (0-3)	SB77 (5-7.5)	SB78 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.0070	<0.015	0.015	<0.0085	0.034	<0.0072	<0.0068	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.020	<0.012	0.24	<0.0071	0.072	<0.0060	0.049	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.019	<0.015	0.19	<0.0086	0.084	0.012	0.057	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.069	0.070	0.63	0.015	0.46	0.052	0.21	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.058	<0.071	0.95	<0.040	0.60	0.063	0.26	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.062	0.12	1.2	<0.040	0.75	0.080	0.41	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.037	<0.016	1.2	0.019	0.46	0.068	0.22	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.045	<0.028	1.1	<0.016	0.69	0.062	0.30	78	--	1,700	--	49	250
Chrysene	0.090	0.15	0.78	0.019	0.59	0.070	0.30	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.034	<0.073	0.32	<0.042	0.11	<0.035	0.069	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.13	0.13	0.59	0.022	0.58	0.069	0.31	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.010	<0.022	0.020	<0.012	0.018	<0.011	<0.0099	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.036	<0.071	1.1	<0.041	0.47	0.059	0.24	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.0062	<0.013	0.042	<0.0076	0.018	<0.0064	0.043	41,000	270	4,100	1.8	12	18
Phenanthrene	0.12	0.045	0.19	0.063	0.19	0.045	0.19	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.16	0.12	0.84	0.023	0.68	0.073	0.33	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (24 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB78 (10-12.5)	SB79 (0-3)	SB79 (5-7.5)	SB80 (0-3)	SB80 (3-5)	SB81 (0-3)	SB81 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/11/24	9/11/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.0072	<0.0071	<0.0071	0.016	0.0073	<0.037	<0.0075	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.0060	0.013	<0.0059	0.033	0.015	<0.031	<0.0062	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	<0.0072	0.020	<0.0071	0.073	0.034	0.16	<0.0075	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	<0.0075	0.071	<0.0074	0.25	0.13	0.44	<0.0078	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	<0.034	0.076	<0.033	0.23	0.13	0.45	<0.035	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	<0.034	0.093	<0.033	0.28	0.16	0.47	<0.035	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	<0.0076	0.073	<0.0075	0.15	0.10	0.30	<0.0080	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	<0.013	0.069	<0.013	0.27	0.14	0.42	<0.014	78	--	1,700	--	49	250
Chrysene	<0.0093	0.096	<0.0092	0.33	0.15	0.65	<0.0097	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.035	<0.035	<0.035	<0.069	<0.035	<0.18	<0.036	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	<0.0082	0.12	<0.0081	0.46	0.21	0.50	<0.0085	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.010	<0.010	<0.010	<0.021	<0.010	<0.053	<0.011	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	<0.034	0.067	<0.034	0.16	0.11	0.32	<0.036	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.0064	0.011	<0.0063	0.033	0.016	<0.033	<0.0066	41,000	270	4,100	1.8	12	18
Phenanthrene	<0.0077	0.088	<0.0076	0.49	0.14	1.6	0.010	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	<0.0096	0.12	<0.0095	0.38	0.21	0.57	<0.010	61,000	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates a value that exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Non-TACO SRO provided by the Illinois EPA (2016, subject to revision)
(2) Indicates the current Tier 1 SRO; the background concentration may be utilized in place of the Tier 1 SRO in accordance with 35 IAC 742.415 if approved by the Illinois EPA.
(3) Indicates the corrected background concentration for Chicago (Illinois EPA 2022)

TABLE NO. 3 (25 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB82 (0-3)	SB82 (5-7.5)	SB83 (0-3)	SB83 (3-5)	SB84 (0-3)	SB84 (5-7.5)	SB85 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.0075	<0.0086	0.014	<0.014	<0.0074	<0.0072	<0.0072	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.0062	<0.0071	0.049	0.042	<0.0061	<0.0060	<0.0060	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.019	<0.0086	0.063	0.043	<0.0074	<0.0072	0.011	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.085	<0.0089	0.24	0.17	0.027	<0.0075	0.039	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.093	<0.041	0.24	0.21	<0.035	<0.034	0.039	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.13	<0.040	0.40	0.35	0.056	<0.034	0.071	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.086	<0.0091	0.22	0.20	0.039	0.014	0.040	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.064	<0.016	0.18	0.12	<0.014	<0.013	<0.013	78	--	1,700	--	49	250
Chrysene	0.092	<0.011	0.31	0.27	0.052	0.032	0.058	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.036	<0.042	<0.069	<0.067	<0.036	<0.035	<0.035	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.13	<0.0098	0.47	0.31	0.036	0.034	0.065	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.011	<0.012	<0.021	<0.020	<0.011	<0.010	<0.010	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.067	<0.041	0.23	0.19	<0.035	<0.034	<0.035	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.0066	<0.0076	0.033	<0.012	<0.0065	0.0086	<0.0064	41,000	270	4,100	1.8	12	18
Phenanthrene	0.065	0.018	0.37	0.27	0.044	0.045	0.20	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.12	<0.011	0.39	0.29	0.032	0.024	0.067	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (26 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB85 (10-12.5)	SB86 (0-3)	SB86 (7.5-10)	SB87 (0-3)	SB87 (3-5)	SB88 (0-3)	SB88 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/11/24	9/11/24	9/11/24	9/12/24	9/12/24	9/12/24	9/12/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.0074	0.024	0.21	0.47	0.067	0.010	<0.0070	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.0062	0.045	0.051	0.83	0.19	<0.0059	<0.0059	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	<0.0075	0.084	0.54	6.0	1.0	<0.0071	<0.0071	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	<0.0078	0.33	2.0	11	2.7	0.023	<0.0073	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	<0.035	0.33	2.2	9.2	2.1	<0.033	<0.033	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	<0.035	0.62	2.9	13	3.1	0.043	<0.033	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	<0.0079	0.29	1.7	5.4	1.3	0.042	<0.0075	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	<0.014	0.19	1.2	5.2	1.3	<0.013	<0.013	78	--	1,700	--	49	250
Chrysene	<0.0097	0.40	2.2	11	2.6	0.024	<0.0091	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.036	0.081	0.38	**1.7**	0.41	<0.035	<0.034	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	<0.0085	0.77	4.0	39	6.0	0.032	<0.0080	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.011	<0.020	0.16	4.0	0.51	<0.010	<0.010	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	<0.036	0.29	1.6	**6.0**	1.5	0.034	<0.034	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.0066	<0.012	0.053	0.55	0.041	0.0065	<0.0063	41,000	270	4,100	1.8	12	18
Phenanthrene	<0.0080	0.37	2.0	38	5.2	0.028	<0.0075	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	<0.010	0.61	3.6	19	4.8	0.030	0.0095	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (27 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB89 (0-3)	SB89 (3-5)	SB90 (0-3)	SB90 (7.5-10)	SB91 (0-3)	SB91 (12.5-15)	SB92 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.0072	<0.0069	<0.0068	<0.0074	0.0097	<0.0075	<0.0073	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.0060	<0.0058	<0.0056	<0.0062	0.023	0.030	0.0090	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.015	<0.0070	<0.0068	<0.0074	0.033	0.039	0.012	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.11	0.027	<0.0070	<0.0077	0.19	0.18	0.062	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.12	<0.033	<0.032	<0.035	0.24	0.22	0.051	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.16	0.051	<0.032	<0.035	0.37	0.36	0.10	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.081	<0.0074	<0.0072	<0.0079	0.28	0.24	0.069	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.071	0.017	<0.013	<0.014	0.16	0.13	0.026	78	--	1,700	--	49	250
Chrysene	0.13	0.039	<0.0088	<0.0096	0.26	0.28	0.069	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.035	<0.034	<0.033	<0.036	0.067	0.059	<0.036	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.21	0.053	<0.0077	<0.0084	0.37	0.36	0.098	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.010	<0.010	<0.0098	<0.011	<0.010	<0.011	<0.011	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.089	<0.033	<0.032	<0.035	0.26	0.22	0.059	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.0064	<0.0062	<0.0060	<0.0066	0.014	0.019	<0.0065	41,000	270	4,100	1.8	12	18
Phenanthrene	0.055	0.031	<0.0072	<0.0079	0.14	0.16	0.055	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.18	0.040	<0.0091	<0.0099	0.39	0.35	0.10	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (28 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB92 (3-5)	SB93 (0-3)	SB93 (5-7.5)	SB94 (0-3)	SB94 (12.5-15)	SB95 (0-3)	SB95 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/12/24	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.0070	2.0	0.038	<0.021	<0.011	<0.011	<0.0098	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.0059	0.10	<0.019	<0.017	<0.0091	0.018	<0.0082	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.011	1.4	0.036	0.045	<0.011	0.025	0.018	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.058	2.2	0.10	0.19	0.041	0.11	0.065	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.050	1.3	<0.11	0.21	<0.052	0.12	0.082	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.097	2.6	0.17	0.30	0.058	0.23	0.16	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.057	0.98	0.076	0.19	0.023	0.091	0.094	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.038	1.0	0.052	0.11	0.025	0.079	0.050	78	--	1,700	--	49	250
Chrysene	0.085	2.8	0.20	0.19	0.043	0.15	0.086	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.034	0.23	<0.11	<0.10	<0.053	<0.053	<0.048	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.11	9.8	0.23	0.32	0.067	0.12	0.072	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.010	1.1	<0.032	<0.030	<0.016	<0.016	<0.014	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.054	1.1	<0.11	0.22	<0.052	0.10	0.086	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	<0.0063	**3.0**	0.13	<0.019	<0.0097	0.092	0.083	41,000	270	4,100	1.8	12	18
Phenanthrene	0.052	12	0.50	0.19	0.072	0.11	0.12	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.11	7.2	0.19	0.33	0.069	0.24	0.093	61,000	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates a value that exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Non-TACO SRO provided by the Illinois EPA (2016, subject to revision)
(2) Indicates the current Tier 1 SRO; the background concentration may be utilized in place of the Tier 1 SRO in accordance with 35 IAC 742.415 if approved by the Illinois EPA.
(3) Indicates the corrected background concentration for Chicago (Illinois EPA 2022)

TABLE NO. 3 (29 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB96 (0-3)	SB96 (7.5-10)	SB97 (0-3)	SB97 (5-7.5)	SB98 (0-3)	SB98 (7.5-10)	SB99 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/16/24	9/16/24	9/16/24	9/16/24	9/17/24	9/17/24	9/17/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.021	<0.010	0.014	0.029	<0.0068	<0.0073	0.098	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.032	<0.0085	0.016	0.034	0.0099	<0.0061	0.043	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.046	0.011	0.030	0.062	0.012	0.021	0.31	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.22	0.054	0.091	0.22	0.076	0.061	1.9	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.30	0.076	0.059	0.21	0.090	0.050	2.0	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.50	0.13	0.12	0.37	0.16	0.097	3.3	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.29	0.078	0.040	0.19	0.11	0.051	1.1	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.17	0.035	0.038	0.13	0.061	<0.014	1.2	78	--	1,700	--	49	250
Chrysene	0.28	0.063	0.13	0.26	0.10	0.068	2.1	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.10	<0.050	<0.050	<0.099	<0.033	<0.036	0.36	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.29	0.060	0.22	0.40	0.12	0.079	3.0	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.031	<0.015	<0.015	<0.030	<0.0098	<0.011	0.077	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.32	0.067	<0.049	0.17	0.096	0.041	1.1	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.033	0.014	0.035	0.051	0.0094	0.011	0.021	41,000	270	4,100	1.8	12	18
Phenanthrene	0.15	0.048	0.16	0.26	0.082	0.35	0.98	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.38	0.099	0.19	0.41	0.11	0.072	3.2	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (30 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB99 (10-12.5)	SB100 (0-3)	SB100 (3-5)	SB101 (0-3)	SB101 (12.5-15)	SB102 (0-3)	SB102 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.013	0.012	0.0075	<0.0073	0.025	0.014	<0.014	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.13	0.12	0.096	0.0077	<0.0070	0.029	0.048	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.016	0.090	0.067	0.0092	0.021	0.040	0.12	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.023	0.51	0.36	0.074	0.13	0.45	0.28	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	<0.048	0.54	0.38	0.065	0.27	0.28	0.25	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	<0.048	1.1	0.79	0.17	0.33	0.73	0.37	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.025	0.55	0.40	0.085	0.23	0.35	0.66	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	<0.019	0.38	0.27	0.053	0.12	0.25	0.12	78	--	1,700	--	49	250
Chrysene	0.028	0.69	0.46	0.11	0.16	0.73	0.35	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.050	0.16	0.12	<0.035	0.069	0.088	<0.069	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.042	0.89	0.63	0.13	0.15	1.3	0.69	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.015	0.012	<0.010	<0.011	<0.012	<0.011	0.024	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	<0.049	0.51	0.36	0.069	0.22	0.33	0.21	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.21	0.014	0.011	<0.0064	0.0076	0.048	0.034	41,000	270	4,100	1.8	12	18
Phenanthrene	0.054	0.15	0.10	0.044	0.087	0.25	0.76	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.057	0.83	0.55	0.13	0.16	1.5	0.72	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (31 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB103 (0-3)	SB103 (5-7.5)	SB104 (0-3)	SB105 (0-3)	SB105 (10-12.5)	SB106 (0-3)	SB107 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/18/24	9/18/24	9/18/24	9/18/24	9/18/24	9/18/24	9/18/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.020	<0.010	0.33	<0.021	<0.012	<0.021	0.083	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.017	0.014	0.096	0.10	<0.0096	<0.018	0.061	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.021	0.021	0.020	0.13	<0.012	<0.022	0.21	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.14	0.093	0.036	1.1	<0.012	0.094	0.38	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.13	0.074	<0.053	1.9	<0.055	<0.10	0.31	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.21	0.14	<0.052	2.8	<0.054	0.20	0.53	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.10	0.063	0.017	2.7	<0.012	0.15	0.23	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.11	0.047	<0.021	1.1	<0.022	0.044	0.20	78	--	1,700	--	49	250
Chrysene	0.17	0.12	0.035	1.3	<0.015	0.11	0.45	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.099	<0.049	<0.054	0.31	<0.056	<0.10	0.082	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.21	0.19	0.050	1.9	0.023	0.13	0.91	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.029	<0.014	0.037	<0.030	<0.017	<0.031	0.099	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.12	0.058	<0.053	2.0	<0.055	0.12	0.23	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.018	0.067	0.077	0.20	0.025	0.072	0.062	41,000	270	4,100	1.8	12	18
Phenanthrene	0.12	0.20	0.022	0.73	0.056	0.10	0.77	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.21	0.16	0.067	1.8	<0.015	0.12	0.74	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (32 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB107 (7.5-10)	SB108 (0-3)	SB109 (0-3)	SB109 (5-7.5)	SB110 (0-3)	SB110 (5-7.5)	SB111 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/18/24	9/19/24	9/19/24	9/19/24	9/19/24	9/19/24	9/19/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.027	0.067	<0.0072	0.024	<0.0070	0.033	0.031	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.035	0.15	0.0073	0.041	0.0072	<0.018	0.019	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.083	0.18	0.015	0.019	0.014	0.060	0.14	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.22	0.69	0.063	0.049	0.076	0.076	0.45	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.18	0.79	0.056	<0.039	0.078	<0.10	0.43	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.31	1.5	0.11	0.052	0.14	<0.10	0.70	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.16	1.1	0.055	<0.0087	0.094	<0.023	0.30	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.13	0.44	0.045	0.016	0.058	<0.040	0.20	78	--	1,700	--	49	250
Chrysene	0.26	0.66	0.083	0.069	0.11	0.054	0.48	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.064	0.29	<0.035	<0.040	<0.034	<0.10	0.083	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.48	1.3	0.089	0.099	0.13	0.090	0.82	82,000	--	82,000	--	4,300	21,000
Fluorene	0.029	0.030	<0.011	0.015	<0.010	0.042	0.029	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.14	0.94	0.045	<0.039	0.079	<0.10	0.31	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.035	0.095	0.041	0.20	0.012	<0.019	<0.012	41,000	270	4,100	1.8	12	18
Phenanthrene	0.35	0.61	0.12	0.49	0.085	0.67	0.54	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.38	1.3	0.092	0.091	0.14	0.097	0.72	61,000	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates a value that exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Non-TACO SRO provided by the Illinois EPA (2016, subject to revision)
(2) Indicates the current Tier 1 SRO; the background concentration may be utilized in place of the Tier 1 SRO in accordance with 35 IAC 742.415 if approved by the Illinois EPA.
(3) Indicates the corrected background concentration for Chicago (Illinois EPA 2022)

TABLE NO. 3 (33 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB111 (3-5)	SB112 (0-3)	SB113 (0-3)	SB113 (10-12.5)	SB114 (0-3)	SB114 (7.5-12)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
							Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/19/24	9/19/24	9/20/24	9/20/24	9/20/24	9/20/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.015	<0.017	0.068	0.013	<0.015	0.012	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.021	<0.014	<0.012	<0.010	<0.012	<0.0062	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.065	<0.017	0.52	0.018	<0.015	0.066	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.30	0.069	1.4	0.033	<0.015	0.46	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.33	0.088	1.3	<0.059	<0.070	0.35	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.49	0.13	1.2	<0.058	<0.069	0.38	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.23	0.067	0.66	<0.013	<0.016	0.17	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.13	0.048	1.6	<0.023	<0.028	0.45	78	--	1,700	--	49	250
Chrysene	0.31	0.090	1.3	0.038	0.053	0.49	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.069	<0.085	0.20	<0.061	<0.072	0.051	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.47	0.12	2.7	0.052	0.069	0.74	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.020	<0.025	0.090	<0.018	<0.022	<0.011	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.20	<0.083	0.77	<0.060	<0.071	0.19	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.017	<0.015	0.024	<0.011	<0.013	0.010	41,000	270	4,100	1.8	12	18
Phenanthrene	0.19	0.039	1.7	0.068	0.034	0.26	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.45	0.10	2.2	0.071	0.062	1.1	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (34 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB115 (0-3)	SB115 (5-7.5)	SB116 (0-3)	SB116 (12.5-15)	SB117 (0-3)	SB117 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
							Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	2.6	9.7	0.16	<0.0086	<0.0075	<0.012	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.078	0.23	<0.031	<0.0072	<0.0062	<0.0097	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	14	41	2.7	0.018	0.044	<0.012	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	**28**	**39**	10	0.039	0.36	0.017	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	**25**	**32**	9.4	<0.041	0.27	<0.055	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	**27**	**34**	9.9	<0.040	0.33	<0.055	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	9.6	13	3.8	0.017	0.13	<0.012	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	18	32	9.0	<0.016	0.32	<0.022	78	--	1,700	--	49	250
Chrysene	28	39	10	0.037	0.38	0.016	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	**4.7**	**6.0**	**1.3**	<0.042	0.041	<0.057	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	60	110	16	0.054	0.52	0.024	82,000	--	82,000	--	4,300	21,000
Fluorene	3.9	16	0.36	<0.013	<0.011	<0.017	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	**12**	**17**	4.7	<0.041	0.14	<0.056	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	**3.3**	**4.5**	0.33	0.017	0.031	<0.010	41,000	270	4,100	1.8	12	18
Phenanthrene	41	130	5.4	0.13	0.26	<0.012	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	48	86	14	0.057	0.46	0.026	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (35 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	B120 (0-3)	B121 (0-3)	B122 (0-3)	B122 (15-17.5)	B123 (0-3)	B123 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
							Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	2/3/25	2/3/25	2/3/25	2/3/25	2/3/25	2/3/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.863	<0.0192	<0.0979	<0.0189	<0.0945	<0.0893	120,000	--	120,000	--	570	2,900
Acenaphthylene	<0.0802	<0.0168	<0.0857	<0.0165	<0.0827	<0.0782	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.527	0.0615	0.349	<0.0142	0.232	0.218	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.493	0.0675	0.651	<0.0118	<0.0591	<0.0558	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.607	0.109	0.898	<0.0485	0.323	<0.229	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.556	0.0962	1.06	<0.0154	0.138	<0.0726	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.353	0.0690	0.710	<0.0414	<0.207	<0.195	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.212	0.0311	0.381	<0.0272	<0.136	<0.128	78	--	1,700	--	49	250
Chrysene	0.426	0.0667	0.708	<0.0154	0.110	<0.0726	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.267	0.0539	0.322	<0.0437	0.228	<0.207	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	1.21	0.160	1.30	<0.0355	0.284	0.201	82,000	--	82,000	--	4,300	21,000
Fluorene	0.560	0.0531	0.269	<0.0177	<0.0886	<0.0837	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.485	0.0994	0.830	<0.0532	0.280	<0.251	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.252	<0.0180	<0.0918	<0.0177	<0.0886	<0.0837	41,000	270	4,100	1.8	12	18
Phenanthrene	1.23	0.0906	0.669	<0.0154	0.154	0.164	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.926	0.133	1.13	<0.0165	0.128	<0.0782	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (36 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	B124 (0-3)	B125 (0-3)	B125 (7.5-10)	B126 (0-3)	B126 (5-7.5)	B127 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
							Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	2/3/25	2/4/25	2/4/25	2/4/25	2/4/25	2/4/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.516	<0.376	<0.356	<0.366	<0.378	0.142	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.633	<0.329	<0.311	<0.320	<0.331	<0.0867	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	4.57	<0.282	<0.267	<0.275	<0.284	0.175	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	**31.1**	0.477	0.370	0.397	0.442	0.743	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	**32.1**	<0.962	<0.911	<0.938	<0.970	1.27	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	**33.2**	0.579	<0.289	0.526	<0.308	1.65	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	19.9	<0.822	<0.778	<0.801	<0.828	1.47	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	16.2	<0.540	<0.511	<0.526	<0.544	0.681	78	--	1,700	--	49	250
Chrysene	23.0	<0.305	<0.289	<0.297	<0.308	0.832	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	**3.61**	<0.868	<0.822	<0.846	<0.875	0.310	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	62.9	<0.704	<0.667	<0.686	<0.710	0.987	82,000	--	82,000	--	4,300	21,000
Fluorene	0.614	<0.352	<0.333	<0.343	<0.355	<0.0929	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	**23.6**	<1.06	<1.00	<1.03	<1.06	1.33	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.227	<0.352	<0.333	<0.343	<0.355	0.124	41,000	270	4,100	1.8	12	18
Phenanthrene	8.60	0.376	<0.289	<0.297	<0.308	0.522	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	49.9	0.610	0.459	0.503	0.520	0.873	61,000	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates a value that exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Non-TACO SRO provided by the Illinois EPA (2016, subject to revision)
(2) Indicates the current Tier 1 SRO; the background concentration may be utilized in place of the Tier 1 SRO in accordance with 35 IAC 742.415 if approved by the Illinois EPA.
(3) Indicates the corrected background concentration for Chicago (Illinois EPA 2022)

TABLE NO. 3 (37 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	B127 (5-7.5)	SB128 (0-3)	SB128 (7.5-10)	SB129 (0-3)	SB129 (5-7.5)	SB141 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
							Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	2/4/25	2/10/25	2/10/25	2/10/25	2/10/25	2/18/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	<0.0901	0.0489	0.600	0.0314	<0.0188	<0.0940	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.0788	0.0481	0.209	0.0518	0.0216	0.335	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.165	0.0974	0.398	0.0769	0.0329	0.300	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.490	0.479	1.24	0.210	0.0768	0.466	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.435	0.674	0.926	0.229	0.0831	0.717	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.925	0.856	1.46	0.371	0.120	1.19	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.494	0.741	0.743	0.201	0.0678	1.02	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.362	0.299	0.534	0.128	0.0415	0.435	78	--	1,700	--	49	250
Chrysene	0.610	0.577	1.45	0.276	0.0992	0.433	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.208	0.158	0.224	0.0680	<0.0435	0.272	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	0.950	0.635	2.52	0.427	0.131	0.862	82,000	--	82,000	--	4,300	21,000
Fluorene	<0.0845	0.0312	0.334	0.0270	0.0223	0.106	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.595	0.672	0.740	0.199	0.0796	0.991	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.0845	0.0617	0.0662	0.152	0.0502	0.192	41,000	270	4,100	1.8	12	18
Phenanthrene	0.419	0.275	1.25	0.674	0.340	0.605	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.713	0.735	2.34	0.335	0.106	0.813	61,000	--	61,000	--	4,200	21,000

TABLE NO. 3 (38 of 38)
Soil Sample Analytical Results: PNAs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB143 (15-17.5)	SB144 (0-3)	SB144 (12.5-15)	SB145 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
					Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	2/18/25	2/18/25	2/18/25	4/8/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Acenaphthene	0.0784	0.654	<0.0211	0.016	120,000	--	120,000	--	570	2,900
Acenaphthylene	0.0489	0.899	<0.0184	0.13	61,300(1)	--	61,200(1)	--	43(1)	210(1)
Anthracene	0.402	0.995	0.0184	0.13	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.420	2.79	0.0285	0.70	8(2)/11(3)	--	170	--	2(2)/11(3)	8(2)/11(3)
Benzo(a)pyrene	0.196	3.34	<0.0540	0.77	0.8(2)/11(3)	--	17	--	8(2)/11(3)	82
Benzo(b)fluoranthene	0.357	5.09	0.0487	1.3	8(2)/13(3)	--	170	--	5(2)/13(3)	25
Benzo(g,h,i)perylene	0.111	3.02	<0.0461	0.76	61,300(1)	--	61,200(1)	--	16,000(1)	82,000(1)
Benzo(k)fluoranthene	0.0831	1.66	<0.0303	0.46	78	--	1,700	--	49	250
Chrysene	0.425	2.17	0.0285	0.85	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.0655	0.782	<0.0487	0.22	0.8(2)/1.0(3)	--	17	--	2	7.6
Fluoranthene	1.11	3.79	0.0430	0.87	82,000	--	82,000	--	4,300	21,000
Fluorene	0.418	0.681	<0.0198	0.014	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.109	3.18	<0.0593	0.81	8(2)/5.8(3)	--	170	--	14	69
Naphthalene	0.276	0.406	<0.0198	0.040	41,000	270	4,100	1.8	12	18
Phenanthrene	1.82	2.28	0.0522	0.22	61,300(1)	--	61,200(1)	--	140(1)	710(1)
Pyrene	0.906	3.66	0.0382	0.78	61,000	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)

Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)

Shaded/Bolded cell indicates a value that exceeds an applicable Tier 1 SRO

< indicates not detected at stated detection limits

-- indicates value not available

(1) Non-TACO SRO provided by the Illinois EPA (2016, subject to revision)

(2) Indicates the current Tier 1 SRO; the background concentration may be utilized in place of the Tier 1 SRO in accordance with 35 IAC 742.415 if approved by the Illinois EPA.

(3) Indicates the corrected background concentration for Chicago (Illinois EPA 2022)

TABLE NO. 4 (1 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB1 (0-3) 8/28/24	SB1 (5-7.5) 8/28/24	SB2 (0-3) 8/28/24	SB2 (3-5) 8/28/24	SB3 (0-3) 8/28/24	SB3 (5-7.5) 8/28/24	SB4 (0-3) 8/28/24	SB4 (7.5-10) 8/28/24	SB5 (0-3) 8/28/24	SB5 (5-7.5) 8/28/24
pH	**8.70**	**8.69**	**8.64**	**7.24**	**9.08**	**7.80**	**7.81**	**8.69**	**9.10**	**8.76**
Aluminum	8,900	5,700	10,000	3,100	8,200	7,300	3,000	1,400	15,000	1,800
Antimony	2.5	<1.9	<1.9	<2.1	6.3 *	<2.0	11	<1.9	<2.5	<2.1
Arsenic	4.5	7.9	5.5	12	11	**61 ***	12	1.2	7.8	2.3
Barium	95	96	130	76	280	110	64	4.1	140	8.9
Beryllium	2.0 *	1.1	2.0 *	<2.1	<1.9 *	2.2	0.64	<0.39	2.9 *	<0.42
Cadmium	0.55	1.1 *	0.44	<1.1	1.3 *	<0.20	0.41	<0.19	0.57	0.22
Calcium	47,000	160,000	150,000	9,700	160,000	24,000	13,000	12,000	140,000	26,000
Chromium	98*	150 *	39 ^	10	**1,700 ***	23	9.5	3.8	23	8.8
Cobalt	2.7	4.8	4.6	6.0	5.2	12	5.5	1.9	4.2	1.7
Copper	25	19	23	56	76 *	81	5,500 *	2.1	27	4.1
Cyanide	2.7	<0.23	0.29	0.39	**3** ∞	0.63	<0.26	<0.27	**2.6** ∞	<0.25
Iron	20,000	28,000	19,000	97,000 *	150,000 *	160,000 *	**39,000** ∞	2,500	25,000	5,600
Lead	75	27	30	90	120 *	**960**	**1,300**	2.0	27	8.4
Magnesium	14,000	17,000	19,000	1,800	26,000	3,000	3,100	5,900	21,000	11,000
Manganese	1,900 ^	**6,700 ***	2,900 *	1,500	**27,000 ***	**8,800**	430	59	**4,500 ***	440
Mercury	0.028	<0.016	**0.25** ∞	0.060	0.065	0.043	0.029	<0.018	0.023	<0.018
Nickel	15	16	18	20	150 *	26	13	3.0	13	3.4
Potassium	880	690	1,200	480	110	570	400	260	1,200	330
Selenium	1.2	2.0 *	1.6	<5.4 *	8.3 *	<5.0 *	1.3	<0.96	2.8 *	<1.1
Silver	<0.50	<2.4 *	<2.3 *	<2.7	<2.4 *	<0.50	3.7	<0.48	<3.1 *	<0.53
Sodium	480	420	760	500	280	<500	260	120	670	260
Thallium	8.6	31	14	7.0	110 *	39 *	<1.1	<0.96	21 *	<1.1
Vanadium	29	87	28	19	340 *	55	13	5.3	44	14
Zinc	170 *	300 *	98	170	170 *	250	150	11	57	23

Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values								
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0	
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

TABLE NO. 4 (2 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB6 (0-3) 8/29/24	SB6 (3-5) 8/29/24	SB7 (0-3) 8/29/24	SB7 (10-12.5) 8/29/24	SB8 (0-3) 8/29/24	SB8 (5-7.5) 8/29/24	SB9 (0-3) 8/29/24	SB9 (7.5-10) 8/29/24	SB10 (0-3) 8/29/24	SB10 (5-7.5) 8/29/24
pH	**9.09**	**8.09**	**8.39**	**8.24**	**8.57**	**8.43**	**8.36**	**8.64**	**8.12**	**9.96**
Aluminum	14,000	16,000	10,000	1,600	15,000	1,400	10,000	1,300	17,000	8,500
Antimony	22 *	16 *	<2.1	<2.3	<1.9	<1.9	<1.8	<2.0	3.0	4.3 *
Arsenic	**14 ***	12	8.1	1.5	4.0	2.3	**23**	1.7	7.3	13
Barium	170 *	200	130	4.9	130	5.2	140	4.9	190	110
Beryllium	4.1 *	2.6	2.2 *	<0.47	2.3*	<0.37	3.3 *	<0.39	4.7	<2.2
Cadmium	1.1 *	3.3 *	0.61	<0.23	0.68	<0.19	0.64	<0.20	0.37	2.5 *
Calcium	160,000	81,000	54,000	59,000	180,000	21,000	24,000	15,000	150,000	140,000
Chromium	**3,900 ***	15	67 *	4.7	340 *	5.3	35 ^	3.8	22	11
Cobalt	12	4.9	5.7	2.3	3.0	2.3	8.8	1.7	4.2	4.0
Copper	66 *	3,100 *	69 *	2.4	23	2.9	58 *	14	55	62 *
Cyanide	**1.4** ∞	25	1.6	<0.28	32	<0.24	22	0.41	14	**4.1** ∞
Iron	140,000 *	52,000 *	43,000 *	4,800	32,000	4,100	61,000 *	4,000	26,000	28,000
Lead	70 *	290 *	130	1.8	96	3.7	93	6.9	170	200 *
Magnesium	33,000	15,000	13,000	29,000	42,000	12,000	6,200	8,700	12,000	33,000
Manganese	**24,000 ***	**7,500 ***	1,800 ^	220	**9,600 ***	120	1,600	110	2,300 *	1,600 *
Mercury	0.094 *	0.086	0.054	<0.019	<0.017	0.017	0.070	<0.016	<0.017	<0.017
Nickel	610 *	13	32 *	3.9	15	4.0	38 *	3.3	23	16
Potassium	750	2,200	900	410	830	260	680	260	2,100	1,100
Selenium	11 *	3.0	1.9 *	<1.2	4.0 *	<0.93	2.3 *	<0.98	2.5 *	1.2 *
Silver	<2.6 *	1.2	<0.54	<0.58	<0.96	<0.47	<0.91	<0.49	<2.4	<2.7 *
Sodium	640	900	510	190	770	140	890	<98	1,400	<550
Thallium	110 *	33	4.8 *	<1.2	45 *	<0.93	6.8	<0.98	3.8	3.9 *
Vanadium	240 *	27	21	11	100	8.4	35	8.0	19	12
Zinc	140 *	3,300	120	22	89	17	470 *	23	130	840 *

Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values								
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0	
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration

TABLE NO. 4 (3 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB11 (0-3)	SB11 (5-7.5)	SB12 (0-3)			SB12 (7.5-10)	SB13 (0-3)			SB13 (5-7.5)	SB14 (0-3)	SB14 (10-12.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
													Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values									
																	pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0	
Collection Date	8/29/24	8/29/24	8/29/24	12/5/24	2/13/25	8/29/24	8/29/24	12/5/24	2/13/25	8/29/24	8/29/24	8/29/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
pH	**8.89**	**8.67**	**8.42**	--	--	**8.01**	**10.22**	--	--	**8.54**	**8.60**	**8.74**															
Aluminum	11,000	10,000	11,000	--	--	2,100	12,000	--	--	9,300	11,000	16,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
Antimony	<1.8	<2.0	<2.1	--	--	<1.9	<3.9	--	--	<2.2	51 *	<2.4	820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
Arsenic	10	9.0	12	--	--	4.7	11	--	--	13	11	7.3	13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
Barium	110	80	160	--	--	13	300	--	--	590	150	120	140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
Beryllium	1.9 *	2.6 *	3.1 *	--	--	<0.38	2.8 *	--	--	2.4 *	3.0 *	3.7 *	4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
Cadmium	2.7 *	0.55	0.97 *	--	--	<0.19	0.99 *	--	--	0.70	3.6 *	1.4 *	2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
Calcium	34,000	25,000	88,000	--	--	6,600	170,000	--	--	57,000	56,000	140,000	--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
Chromium	130 *	13	77 *	--	--	7.6	**860 ***	--	--	31 ^	110 *	18	6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
Cobalt	7.2	9.1	7.0	--	--	2.8	11	--	--	6.2	7.3	5.6	120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
Copper	65 *	52 *	65 *	--	--	8.3	80 *	--	--	3,400 *	72 *	18	82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
Cyanide	1.6	0.31	5.5	--	--	0.60	**12** ∞	--	--	2.0	22	18	41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
Iron	64,000 *	42,000 *	81,000 *	--	--	22,000	130,000 *	--	--	130,000 *	95,000 *	35,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
Lead	110	58	150	--	--	14	180 *	--	--	920	**15,000 ***	120	800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
Magnesium	8,100	7,400	17,000	--	--	1,700	15,000	--	--	11,000	9,400	6,600	--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
Manganese	**7,600 ***	**11,000 ***	3,900 *	--	--	350	**23,000 ***	--	--	3,800 *	3,100 *	2,000 *	41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
Mercury	0.034	0.032	0.91(4)	13(4)	0.771 *(4)	<0.017	0.82(4)	9.9(4)	0.146 *(4)	**0.16 ***	**0.22 ***	0.061	610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
Nickel	35 *	23	34 *	--	--	5.7	34 *	--	--	19	34 *	21	41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
Potassium	770	940	1,200	--	--	420	1,300	--	--	620	1,200	1,800	--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
Selenium	4.1 *	4.3 *	2.9 *	--	--	<0.95	10 *	--	--	3.3 *	3.2 *	8.0 *	10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
Silver	<0.92	<1.0	<1.0	--	--	<0.48	<0.97	--	--	<1.1 *	<0.95	<3.0 *	10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
Sodium	740	1,000	670	--	--	<95	540	--	--	320	530	910	--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
Thallium	34	49 *	17	--	--	<0.95	110 *	--	--	16	14	2.9	160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
Vanadium	99	28	54	--	--	13	**230** ∞	--	--	37	29	30	14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
Zinc	1,000 *	230 *	350 *	--	--	130	200 *	--	--	560 *	480 *	230 *	610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

TABLE NO. 4 (4 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB15 (0-3)	SB15 (7.5-10)	SB16 (0-3)	SB16 (3-5)	SB17 (0-3)	SB17 (5-7.5)	SB18 (0-3)	SB18 (7.5-10)	SB19 (0-3)	SB19 (5-7.5)	SB20 (0-3)	SB20 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
													Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values									
																	pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0	
Collection Date	8/29/24	8/29/24	8/29/24	8/29/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
pH	**8.46**	**9.25**	**9.98**	**8.83**	**9.33**	**9.87**	**11.96**	**8.15**	**8.19**	**9.04**	**11.09**	**8.76**															
Aluminum	14,000	8,400	6,500	6,300	11,000	7,900	5,500	6,700	10,000	1,800	15,000	11,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
Antimony	<2.1	<2.0	2.9	<2.0	<9.5 *	<2.2	2.9	<2.1	<2.1	<1.7	<2.0	<2.2	820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
Arsenic	13	8.1	12	10	<4.8	2.1	<4.8	8.5	6.6	1.1	<5.1	5.7	13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
Barium	160	79	68	71	220	69	56	110	170	24	190	130	140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
Beryllium	3.4 *	2.2 *	<4.2 *	<4.0 *	3.1 *	1.6	<1.9 *	<2.1	3.4	0.49	3.8 *	<2.2 *	4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
Cadmium	1.0 *	1.1 *	<2.1 *	2.5 *	1.4 *	<0.22	<0.96 *	<1.0	1.2	<0.17	<1.0 *	<1.1 *	2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
Calcium	88,000	83,000	85,000	110,000	74,000	61,000	180,000	23,000	59,000	11,000	160,000	51,000	--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
Chromium	39 ^	53 *	200 *	190 *	43 *	5.4	**1,200 ***	19	35 ^	2.4	**450 ***	57 *	6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
Cobalt	6.8	5.5	8.2	<5.0	7.0	2.1	4.8	6.3	5.3	0.78	3.8	7.7	120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
Copper	77 *	37	94 *	45 *	35	2.8	30	42	57	1.3	35	48 *	82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
Cyanide	16	**5.4** ∞	**3.7** ∞	9.8	**5.9** ∞	0.31	**1.2** ∞	0.54	9.6	<0.24	**2.9** ∞	6.8	41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
Iron	93,000 *	120,000 *	180,000 *	160,000 *	140,000 *	3,700	99,000 *	74,000 *	69,000 *	4,400	89,000 *	76,000 *	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
Lead	210	230 *	94 *	230	200 *	2.7	76 *	62	160	3.6	53 *	100	800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
Magnesium	10,000	17,000	9,800	17,000	7,600	20,000	21,000	6,500	13,000	5,300	26,000	11,000	--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
Manganese	4,100 *	2,300 *	2,800 *	**6,100 ***	**7,300 ***	180	**21,000 ***	1,100	3,500 *	540	**12,000 ***	3,500 *	41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
Mercury	**0.21** ∞	0.069	0.024	0.065	0.073	<0.018	**0.083** ∞	0.045	0.083	<0.017	0.049	**0.089** ∞	610	16	61	0.1	3.3	16	6.4	32	8	40	--	--	--	--	0.08
Nickel	16	22	50 *	20	17	4.5	18	22	17	1.8	18	22	41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
Potassium	1,200	720	460	560	620	590	390	360	930	280	980	1,200	--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
Selenium	4.2 *	3.3 *	<2.1 *	<9.9 *	<4.8 *	<1.1	10 *	<5.2 *	<5.1 *	<0.85 *	6.0 *	<5.4 *	10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
Silver	<1.0	<0.98	<1.0 *	<0.99 *	<2.4	<0.55	<2.4	<2.6	<2.6	<0.43	<0.51	<0.54	10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
Sodium	440	410	1,300	<990	360	240	220	200	740	130	620	420	--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
Thallium	18	**9.5 ***	11 *	20	39 *	1.3	110 *	7.8	19	2.5 *	61 *	19	160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
Vanadium	28	36	63	130	43	12	670 *	25	33	4.3	210 *	65	14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
Zinc	390 *	160 *	140 *	520 *	240 *	15	66	180 *	300 *	7.3	90	210 *	610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration
(4) The SROs for the outdoor inhalation and construction worker inhalation exposure routes, and the soil saturation limit only apply to sites where elemental mercury is a contaminant of concern. There are no known potential sources of elemental mercury at the subject property; thus, the inhalation SROs and soil saturation limit for mercury are not applicable to the subject property

TABLE NO. 4 (5 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB21 (0-3)	SB21 (12.5-15)	SB22 (0-3)	SB22 (10-12.5)	SB23 (0-3)	SB23 (5-7.5)	SB24 (0-3)	SB24 (7.5-10)	SB25 (0-3)	SB25 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile[1]
											Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values									
															pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Collection Date	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	8/30/24	9/3/24	9/3/24	9/3/24	9/3/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
pH	**9.84**	**8.95**	**8.43**	**8.42**	**8.55**	**9.62**	**11.01**	**9.47**	**10.63**	**10.57**															
Aluminum	18,000	7,400	11,000	1,600	7,600	5,900	16,000	11,000	11,000	12,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
Antimony	<2.2	<2.0	<1.9	<2.0	<1.9	<2.0	<2.1	<2.0	<10 *	<9.4 *	820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
Arsenic	3.1	2.3	4.5	3.1	7.8	<5.1	7.0	<5.0	7.1	<4.7	13[2]	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
Barium	200	710	110	4.8	87	100	120	180	170	140	140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
Beryllium	4.2 *	1.9 *	2.3 *	<0.41	1.3	2.4 *	3.2 *	3.1 *	<2.1 *	1.9 *	4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
Cadmium	0.49	<0.20	0.57	<0.20	0.55	2.9 *	1.5 *	2.4 *	2.0 *	1.4 *	2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
Calcium	170,000	35,000	39,000	42,000	46,000	96,000	130,000	83,000	110,000	110,000	--[3]	--	--[3]	--	--	--	--	--	--	--	--	--	--	--	21,520
Chromium	150 *	2.8	18	5.6	47 ^	160 *	50	71 *	77 *	38	6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
Cobalt	2.7	<0.50	3.8	3.6	6.4	7.9	4.4	6.5	6.1	4.8	120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
Copper	24	2.8	18	4.3	41	70 *	38	120 *	110 *	160 *	82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
Cyanide	**1.9** ∞	<0.26	2.1	<0.24	0.93	**0.82** ∞	**2.1** ∞	**2.5** ∞	**7.1** ∞	**5.7** ∞	41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
Iron	44,000 *	8,600	42,000	7,700	47,000 *	160,000 *	34,000	83,000 *	85,000 *	67,000 *	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
Lead	43 *	3.9	54	2.1	93	280 *	120 *	**840 ***	220 *	190 *	800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
Magnesium	30,000	20,000	23,000	23,000	16,000	22,000	29,000	18,000	28,000	19,000	--[3]	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
Manganese	**6,600 ***	660	910	260	1,400	1,900 ^	**4,300 ***	1,900 ^	**4,300 ***	4,000 *	41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
Mercury	<0.018	<0.017	0.044	<0.016	0.080	**0.12** ∞	**0.53** ∞	**0.59** ∞	**0.23** ∞	**0.47** ∞	610	16	61	0.1[5]	3.3	16	6.4	32	8	40	--	--	--	--	0.08
Nickel	18	2.7	18	5.8	22	65 *	17	35 *	49 *	26 *	41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
Potassium	1,100	560	1,600	300	1,200	270	1,300	950	700	730	--[3]	--	--[3]	--	--	--	--	--	--	--	--	--	--	--	22,075
Selenium	3.8 *	1.2	1.1	<1.0	1.4	<5.1 *	1.8 *	<5.0 *	<5.2 *	<4.7 *	10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
Silver	<0.54	<0.50	<0.47	<0.51	<0.47	<2.5 *	<2.6 *	<2.5 *	<2.6 *	<2.4 *	10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
Sodium	680	220	360	110	350	160	580	530	<520	480	--[3]	--	--[3]	--	--	--	--	--	--	--	--	--	--	--	8,300
Thallium	35 *	3.3	3.6	1.3	6.5	14 *	15 *	12 *	18 *	17 *	160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
Vanadium	51	5.5	14	12	39	31	47	31	41	25	14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
Zinc	120	17	470	18	160 *	660 *	230 *	440 *	540 *	250 *	610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

TABLE NO. 4 (6 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB26 (0-3)	SB26 (7.5-10)	SB27 (0-3)	SB27 (5-7.5)	SB28 (0-3)	SB28 (10-12.5)	SB29 (0-3)	SB29 (7.5-10)	SB30 (0-3)	SB30 (12.5-15)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile[1]
											Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values									
															pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Collection Date	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
pH	**9.10**	**9.44**	**11.70**	**8.59**	**9.04**	**8.61**	**9.61**	**9.72**	**8.79**	**11.36**															
Aluminum	13,000	7,300	16,000	10,000	8,200	15,000	26,000	26,000	20,000	37,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
Antimony	<10 *	<2.1	<2.0	<12 *	<11 *	<2.2	<2.3	<2.3	<2.0	<3.0	820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
Arsenic	**33 ***	7.2	2.4	<6.2	<5.3	7.6	5.2	7.0	<5.0	1.5	13[2]	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
Barium	230	99	220	180	340	290	340	340	380	350	140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
Beryllium	<4.1 *	0.88	2.7 *	4.2 *	2.6 *	2.7 *	4.6 *	4.7 *	4.4 *	4.5 *	4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
Cadmium	<0.21	<0.21	<0.20	1.3 *	<1.1 *	<0.22	0.34	0.39	<1.0 *	<0.30	2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
Calcium	34,000	31,000	130,000	36,000	23,000	100,000	180,000	190,000	190,000	250,000	--[3]	--	--[3]	--	--	--	--	--	--	--	--	--	--	--	21,520
Chromium	22	31	6.4	15	74 *	18	28	160 *	360 *	6.3	6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
Cobalt	8.4	3.3	<2.5	8.6	12	6.1	4.3	4.8	5.3	1.9	120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
Copper	53 *	11	4.8	19	39	18	12	25	29	<1.5	82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
Cyanide	**1.0** ∞	**0.91** ∞	0.32	5.9	**5.7** ∞	3.1	46 *	52 *	28	**6.0** ∞	41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
Iron	78,000 *	43,000 *	7,000	59,000 *	250,000 *	97,000 *	44,000 *	36,000 *	70,000 *	6,800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
Lead	42	6.2	9.1	39	44	13	72 *	110 *	40	<3.8	800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
Magnesium	14,000	18,000	19,000	2,000	2,500	3,800	9,400	7,800	10,000	5,300	--[3]	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
Manganese	**42,000 ***	**27,000 ***	1,100	3,700 *	**5,700 ***	**4,500 ***	**7,600 ***	**5,200 ***	**14,000 ***	**5,600 ***	41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
Mercury	**0.12 ***	<0.018	0.060	0.033	0.036	<0.018	0.030	<0.018	0.043	<0.025	610	16	61	0.1[5]	3.3	16	6.4	32	8	40	--	--	--	--	0.08
Nickel	15	5.7	3.9	6.7	21	8.1	50*	190 *	26 *	<1.5	41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
Potassium	1,100	360	650	1,300	110	1,900	2,600	2,400	1,800	2,100	--[3]	--	--[3]	--	--	--	--	--	--	--	--	--	--	--	22,075
Selenium	20 *	9.1 *	1.3 *	<6.2 *	6.6 *	7.3 *	5.0*	4.9 *	6.8 *	3.7 *	10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
Silver	<2.6 *	<2.7 *	<0.50	<3.1 *	<2.7 *	<2.7 *	<2.9 *	<2.8 *	<2.5 *	<3.8 *	10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
Sodium	<510	220	510	670	180	770	930	820	690	810	--[3]	--	--[3]	--	--	--	--	--	--	--	--	--	--	--	8,300
Thallium	**210 ***	140 *	3.3 *	23	<5.4 *	31	38 *	31 *	<19	21 *	160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
Vanadium	61	95	11	37	46	44	23	18	210	11	14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
Zinc	58	10	23	140	100	48	120	110	88	<3.0	610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration
(4) The SROs for the outdoor inhalation and construction worker inhalation exposure routes, and the soil saturation limit only apply to sites where elemental mercury is a contaminant of concern. There are no known potential sources of elemental mercury at the subject property; thus, the inhalation SROs and soil saturation limit for mercury are not applicable to the subject property

TABLE NO. 4 (7 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB31 (0-3) 9/4/24	SB31 (7.5-10) 9/4/24	SB32 (0-3) 9/4/24	SB32 (5-7.5) 9/4/24	SB33 (0-3) 9/4/24	SB33 (5-7.5) 9/4/24	SB34 (0-3) 9/4/24	SB34 (5-7.5) 9/4/24	SB35 (0-3) 9/4/24	SB35 (7.5-10) 9/4/24
pH	**9.91**	**8.19**	**9.62**	**8.30**	**11.25**	**9.98**	**9.33**	**7.71**	**9.22**	**9.36**
Aluminum	21,000	10,000	14,000	15,000	15,000	10,000	10,000	5,600	16,000	16,000
Antimony	4.3 *	<2.2	<1.9	<2.3	<2.0	<2.1	<1.9	<9.7	<2.1	<2.1
Arsenic	5.2	2.4	2.0	9.0	3.3	8.8	**17 ***	**17**	8.4	7.7
Barium	200	290	130	240	180	130	180	100	310	360
Beryllium	5.5 *	2.5	3.3 *	2.8 *	2.8 *	2.1 *	<1.9 *	<1.9	3.5 *	4.9 *
Cadmium	<0.22	1.3	0.28	<1.1 *	0.80	<1.0 *	1.3 *	1.0	1.2 *	<1.1 *
Calcium	220,000	45,000	150,000	58,000	180,000	110,000	110,000	21,000	150,000	170,000
Chromium	**1,400 ***	15	46	32	**570 ***	**460 ***	**450 ***	51 ^	**810 ***	**810 ***
Cobalt	7.7	6.5	2.6	7.7	4.5	7.4	8.2	6.1	6.7	6.1
Copper	25	20	15	60 *	53 *	31	51 *	27	72 *	54 *
Cyanide	<0.26	2.8	**4.8** ∞	14	**5.0** ∞	**2.4** ∞	**4.1** ∞	1.5	**8.1** ∞	**8.6** ∞
Iron	20,000	37,000	30,000	85,000 *	47,000 *	79,000 *	140,000 *	**150,000** ∞	80,000 *	90,000 *
Lead	22	38	30	53	94 *	21	88 *	49	110 *	71
Magnesium	39,000	16,000	33,000	5,100	31,000	18,000	24,000	3,400	26,000	29,000
Manganese	4,100 *	1,500	3,100 *	**9,800 ***	**10,000 ***	**19,000 ***	**14,000 ***	**7,300 ***	**12,000 ***	**11,000 ***
Mercury	<0.017	0.068	0.036	**0.092** ∞	**0.089** ∞	0.061	**0.22** ∞	0.042	**0.36** ∞	**0.087** ∞
Nickel	650 *	22	13	19	86 *	19	93 *	10	160 *	150*
Potassium	1,300	900	1,000	1,100	830	430	590	170	790	800
Selenium	3.5 *	1.7	2.3 *	<5.7 *	5.1 *	8.6 *	5.7 *	<4.8	6.9 *	6.1 *
Silver	<2.8 *	<0.56	<2.4 *	<2.8 *	<2.5 *	<2.6 *	<2.4 *	<2.4	<0.52	<0.53
Sodium	920	480	530	690	460	470	350	110	520	600
Thallium	<5.5 *	5.3 *	<4.8 *	<5.7 *	<5.1 *	<5.2 *	<4.7 *	<4.8	<5.2 *	<5.3 *
Vanadium	16	27	25	39	120 *	210 *	160 *	50	150 *	260 *
Zinc	50	440	87	150	210 *	100	240 *	170	280 *	220 *

Tier 1 Soil Remediation Objectives (Tier 1 SROs)											Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values							
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

TABLE NO. 4 (8 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB36 (0-3) 9/4/24	SB36 (5-7.5) 9/4/24	SB37 (0-3) 9/4/24	SB37 (12.5-15) 9/4/24	SB38 (0-3) 9/4/24	SB38 (12.5-15) 9/4/24	SB39 (0-3) 9/4/24	SB39 (7.5-10) 9/4/24	SB40 (0-3) 9/4/24	SB40 (5-7.5) 9/4/24
pH	**10.10**	**10.00**	**8.68**	**7.62**	**8.88**	**7.95**	**10.74**	**11.32**	**8.66**	**8.66**
Aluminum	11,000	11,000	10,000	3,200	17,000	4,900	11,000	13,000	6,800	9,700
Antimony	68 *	20 *	<1.9	<9.7 *	2.3	<2.0	<1.9	<2.1	<2.0	2.4
Arsenic	**27 ***	**21 ***	8.5	<0.97	5.7	3.9	2.9	2.1	<1.0	12
Barium	200	230	140	43	190	40	130	130	140	190
Beryllium	2.3 *	2.6 *	<1.9 *	<1.9	3.6 *	<2.0	<1.9	2.6 *	<2.0 *	<2.2 *
Cadmium	<1.0 *	<0.99 *	1.2 *	<0.97	1.9 *	<0.20	0.82 *	0.26	1.8 *	1.3 *
Calcium	130,000	110,000	84,000	14,000	120,000	15,000	130,000	180,000	54,000	60,000
Chromium	**6,100 ***	**2,800 ***	150 *	46 ^	310 *	12	390 *	81 *	**540 ***	**850 ***
Cobalt	18 *	14	6.3	5.4	6.3	3.4	4.1	2.8	9	10
Copper	76 *	82 *	150 *	32	51 *	24	290 *	80 *	260 *	150 *
Cyanide	**13** ∞	**14** ∞	2.7	<0.25	36	3.1	**7.8** ∞	**10** ∞	2.8	1.2
Iron	100,000 *	110,000 *	73,000 *	200,000 *	42,000 *	17,000	37,000 *	18,000	210,000 *	180,000 *
Lead	72 *	79 *	110	34	100	19	90 *	23	140	96
Magnesium	20,000	15,000	10,000	3,000	21,000	2,600	24,000	32,000	10,000	11,000
Manganese	**5,600 ***	**5,600 ***	3,600 *	1,100	**6,800 ***	1,900 ^	**5,900 ***	3,300	**8,600 ***	**16,000 ***
Mercury	0.077	**0.12** ∞	**0.40** ∞	<0.018	**0.13** ∞	0.02	0.04	<0.017	**0.19** ∞	**0.15** ∞
Nickel	760 *	600 *	91	21	150 *	7.5	69 *	31 *	250 *	410 *
Potassium	820	940	670	82	670	400	600	850	330	700
Selenium	<5.1 *	<4.9 *	<4.6 *	<4.9 *	3.7 *	1.4	3.2 *	1.7 *	6.5 *	9.3 *
Silver	<2.6 *	<2.5 *	<0.46	<2.4	<0.46	<0.50	<0.46	<0.52	<2.5 *	<2.8 *
Sodium	420	500	410	170	420	180	340	470	370	520
Thallium	<5.1 *	<4.9 *	<4.6 *	<4.9 *	<4.6	6.7	<4.6 *	<5.2 *	<5.1 *	<5.6 *
Vanadium	45	40	50	23	34	25	64	16	150	150
Zinc	190 *	190 *	130	100	150	50	200 *	61	210 *	180 *

Tier 1 Soil Remediation Objectives (Tier 1 SROs)											Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values							
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration
(4) The SROs for the outdoor inhalation and construction worker inhalation exposure routes, and the soil saturation limit only apply to sites where elemental mercury is a contaminant of concern. There are no known potential sources of elemental mercury at the subject property; thus, the inhalation SROs and soil saturation limit for mercury are not applicable to the subject property

TABLE NO. 4 (9 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB41 (0-3) 9/4/24	SB41 (5-7.5) 9/4/24	SB42 (0-3) 9/4/24	SB42 (7.5-10) 9/4/24	SB43 (0-3) 9/4/24	SB43 (10-12.5) 9/4/24	SB44 (0-3) 9/5/24	SB44 (5-7.5) 9/5/24	SB45 (0-3) 9/5/24	SB45 (5-7.5) 9/5/24
pH	**12.35**	**10.17**	**8.38**	**8.58**	**12.08**	**7.29**	**7.95**	**8.74**	**8.69**	**7.59**
Aluminum	22,000	9,600	10,000	1,000	9,500	5,400	12,000	5,300	2,300	16,000
Antimony	<2.2	<2.1	**90 ***	<1.7	<2.0	<2.2	<2.0	<2.0	15	<2.1
Arsenic	3.2	12	**29**	1.3	1.7	5.2	**15**	7.2	7.0	7.5
Barium	240	130	160	4.6	120	54	130	51	42	130
Beryllium	5.9 *	2.3 *	2.7 *	<1.7 *	2.0 *	<2.2	0.68	1.4	0.66	2.6
Cadmium	0.87 *	<1.0 *	1.4 *	<0.17	<0.20	0.31	<0.20	0.31	0.49	<0.21
Calcium	220,000	62,000	50,000	43,000	180,000	19,000	40,000	30,000	6,200	130,000
Chromium	93 *	**470 ***	160 *	2.9	13	12	60 *	13	11	7.9
Cobalt	4.0	9.6	11	1.8	1.9	6.0	2.4	6.5	3.2	4.0
Copper	35	66	280 *	2.8	3.3	380	14	26	17	16
Cyanide	**13** ∞	**15** ∞	11	<0.23	**7.7** ∞	2.6	8.5	0.99	<0.24	1.7
Iron	21,000	82,000 *	240,000 *	3,300	4,500	42,000 *	33,000	41,000 *	36,000 *	46,000 *
Lead	67 *	80 *	**810**	0.78	<0.50	76	15	65	180	53
Magnesium	28,000	16,000	12,000	20,000	44,000	5,900	1,600	6,400	2,200	30,000
Manganese	7,600 *	2,900 *	3,600 *	160	1,400	1,200	1,100	920	440	**9,200 ***
Mercury	0.078	0.042	0.039	<0.017	<0.018	0.047	0.021	<0.019	0.018	<0.017
Nickel	35 *	220 *	110 *	3.3	4.5	14	71	18	11	9.3
Potassium	1,000	750	260	240	630	480	780	680	460	1,800
Selenium	4.5 *	<5.2 *	<4.7 *	<0.87	<1.0 *	2.0	<1.0	<1.0	<0.91	3.1
Silver	<2.7	<2.6 *	<2.4 *	<0.43	<2.5 *	<0.54	<0.51	<0.50	<0.46	<2.7
Sodium	630	380	330	<87	310	750	610	480	200	620
Thallium	6.8 *	<5.2 *	5.2 *	<0.87	2.6 *	3.6 *	1.7	1.1	1.1	13
Vanadium	53	28	41	6.2	10	23	15	27	11	14
Zinc	310 *	200 *	110	7.9	8.3	900	100	260	79	20

Tier 1 Soil Remediation Objectives (Tier 1 SROs)											Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values							
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

TABLE NO. 4 (10 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB46 (0-3) 9/5/24	SB46 (3-5) 9/5/24	SB47 (0-3) 9/5/24	SB47 (7.5-10) 9/5/24	SB48 (0-3) 9/5/24	SB48 (5-7.5) 9/5/24	SB49 (0-3) 9/5/24	SB49 (10-12.5) 9/5/24	SB50 (0-3) 9/5/24	SB50 (7.5-10) 9/5/24
pH	**8.05**	**10.86**	**9.98**	**10.92**	**8.75**	**10.79**	**11.48**	**8.15**	**8.67**	**7.81**
Aluminum	19,000	11,000	6,800	7,400	39,000	7,200	15,000	24,000	16,000	18,000
Antimony	<2.1	<9.3 *	<9.5 *	2.0	<2.1	<2.0	<2.1	<2.3	<2.0	47 *
Arsenic	8.6	**14 ***	6.5	11	8.6	8.0	7.1	7.3	11	11
Barium	220	140	66	85	110	89	180	310	170	160
Beryllium	4.4	3.0	<1.9 *	<2.0 *	1.0	<2.0 *	2.9 *	3.3	3.2 *	4.8
Cadmium	<1.0	<0.93 *	3.1 *	1.3 *	0.56	1.9 *	0.61	0.32	<0.98 *	<0.99
Calcium	140,000	110,000	160,000	140,000	55,000	110,000	100,000	170,000	140,000	100,000
Chromium	**850 ***	**1,300 ***	280 *	100 *	56 *	200 *	32	100 *	140 *	120 *
Cobalt	11	17 *	12	12	6.5	6.0	5.4	4.4	6.9	12
Copper	190	240 *	91 *	100 *	39	130 *	19	12	42	170
Cyanide	13	**6.4** ∞	**0.6** ∞	<0.25	0.34	**1.4** ∞	**27** ∞	1.4	18	1.7
Iron	110,000 *	190,000 *	120,000 *	130,000 *	22,000	69,000 *	43,000 *	36,000 *	110,000 *	86,000 *
Lead	120	80 *	300 *	180 *	120	210 *	51 *	44	55	330 *
Magnesium	17,000	29,000	52,000	59,000	120,000	38,000	19,000	31,000	27,000	32,000
Manganese	**6,600 ***	**10,000 ***	**12,000 ***	**4,400 ***	750	3,700 *	**4,500 ***	**15,000 ***	**13,000 ***	**8,600 ***
Mercury	0.071	**0.21** ∞	**0.2** ∞	**0.13** ∞	**0.29** ∞	**0.099** ∞	<0.017	<0.020	0.063	0.062
Nickel	490	580 *	51 *	45 *	25 *	59 *	100 *	19	17	28
Potassium	1,700	1,100	990	1,100	1,700	830	1,400	1,600	1,400	1,100
Selenium	<5.2 *	5.7 *	<4.8 *	<5.0 *	<1.1	<5.1 *	2.8 *	5.2 *	4.9 *	<5.0 *
Silver	<2.6	<2.3 *	<2.4 *	<2.5 *	<0.53	<2.5 *	<2.6 *	<2.9	<2.5 *	<2.5
Sodium	660	480	<480	<500	1,800	620	830	810	590	1,300
Thallium	9.6	14 *	56 *	8.4 *	1.1	6.6 *	7.6 *	18	16	12
Vanadium	47	71	190 *	44	27	50	36	110	120	120
Zinc	99	65	730 *	330 *	140	1,000 *	48	98	160 *	240

Tier 1 Soil Remediation Objectives (Tier 1 SROs)											Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values							
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration
(4) The SROs for the outdoor inhalation and construction worker inhalation exposure routes, and the soil saturation limit only apply to sites where elemental mercury is a contaminant of concern. There are no known potential sources of elemental mercury at the subject property; thus, the inhalation SROs and soil saturation limit for mercury are not applicable to the subject property

TABLE NO. 4 (11 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB51 (0-3) 9/5/24	SB51 (5-7.5) 9/5/24	SB52 (0-3) 9/5/24	SB52 (7.5-10) 9/5/24	SB53 (0-3) 9/5/24	SB53 (10-12.5) 9/5/24	SB54 (0-3) 9/5/24	SB54 (10-12.5) 9/5/24	SB55 (0-3) 9/5/24	SB55 (5-7.5) 9/5/24
pH	**7.69**	**7.99**	**11.23**	**6.68**	**9.39**	**8.59**	**8.00**	**7.89**	**11.97**	**7.62**
Aluminum	8,900	16,000	16,000	15,000	12,000	8,200	12,000	15,000	7,800	15,000
Antimony	**110 ***	2.7	3.7	<2.1	<2.2	<2.0	<2.1	<2.4	<1.9	<11 *
Arsenic	**59 ***	**21**	3.6	**33 ***	6.0	5.5	**15**	**17**	5.8	**15**
Barium	150	170	190	200	140	54	160	210	59	200
Beryllium	2.8	3.6	3.2 *	4.6	2.6 *	<2.0 *	<0.42	3.3	<1.9 *	3.1
Cadmium	1.3	3.1	<0.23	<0.21	1.5 *	<0.20	<1.1	<1.2	0.99 *	<1.1
Calcium	36,000	38,000	150,000	11,000	110,000	7,900	90,000	47,000	120,000	64,000
Chromium	**21,000 ***	85 *	82 *	19	**1,100 ***	13	**430 ***	26	420 *	31
Cobalt	100 *	14	3.1	16 *	9 *	4.4	8.6	9.3	10	8.9
Copper	260	33	100 *	200	78 *	14	57	37	62 *	34
Cyanide	0.39	14	**5.6** ∞	<0.28	**4.4** ∞	3.0	14	15	**5.5** ∞	13
Iron	230,000 *	230,000 *	30,000	92,000 *	110,000 *	26,000	130,000 *	220,000 *	99,000 *	190,000 *
Lead	260	250	100 *	48	89 *	12	120	99	57 *	66
Magnesium	6,000	5,400	42,000	1,600	37,000	5,100	14,000	2,800	24,000	7,800
Manganese	**4,700 ***	**8,000 ***	2,200 *	680	**16,000 ***	920	**17,000 ***	**8,800 ***	**9,600 ***	**7,000 ***
Mercury	0.028	**0.16**	**0.18** ∞	**0.21**	**0.12**	<0.018	**0.17**	0.080	**0.096** ∞	**0.12**
Nickel	**6,200 ***	180	39 *	62	160 *	9.5	51	16	870 *	190
Potassium	680	2,800	1,200	1,100	610	1,100	910	1,200	380	1,300
Selenium	5.5 *	<5.4 *	2.1 *	<5.2	6.0 *	<1.0	6.8 *	<6.0 *	<4.9 *	<5.6 *
Silver	<2.5	<2.7	<2.8 *	<2.6	<2.8 *	<0.50	<2.6	<3.0	<2.4 *	<2.8
Sodium	<510	660	<570	1,000	<560	<500	<530	<600	<490	<560
Thallium	14	18	5.7 *	<1.0	22 *	1.2	27	16	15 *	13
Vanadium	74	59	20	34	170 *	23	170	39	250 *	34
Zinc	330	500	76	330	720 *	41	170	170	86	120

Tier 1 Soil Remediation Objectives (Tier 1 SROs)																	Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values													
				pH = 6.65 - 6.89		pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0			
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II		
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	5	20		4.0†
13(2)	1,200	61	25,000	29	120	29	120	30	120	31	120	32	130	33	130		11.9
140,000	910,000	14,000	870,000	1,600	1,600	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--		792
4,100	2,100	410	44,000	63	7,900	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--		1.6
2,000	2,800	200	59,000	7.5	75	11	110	59	590	430	4,300	--	--	--	--		0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	--	--		21,520
6,100	420	4,100	690	38	--	36	--	32	--	28	--	24	--	21	--		54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	--	--		15.4
82,000	--	8,200	--	130,000	130,000	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--		44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	40	120		0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760		45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	--	--		10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	--	--		1,924
610	16	61	0.1(5)	2.1	10	3.3	16	6.4	32	8	40	--	--	--	--		0.08
41,000	21,000	4,100	440,000	130	2,600	180	3,500	700	14,000	3,800	76,000	--	--	--	--		23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	--	--		22,075
10,000	--	1,000	--	5.2	5.2	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3		0.7
10,000	--	1,000	--	8.5	--	13	--	39	--	110	--	--	--	--	--		<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	--	--		8,300
160	--	160	--	2.8	28	3	30	3.4	34	3.8	38	4.4	44	4.9	49		0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	980	--		104
610,000	--	61,000	--	6,200	12,000	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--		141

TABLE NO. 4 (12 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB56 (0-3) 9/6/24	SB56 (5-7.5) 9/6/24	SB57 (0-3) 9/6/24	SB57 (7.5-10) 9/6/24	SB58 (0-3) 9/6/24	SB58 (10-12.5) 9/6/24	SB59 (0-3) 9/6/24	SB59 (5-7.5) 9/6/24	SB60 (0-3) 9/6/24	SB60 (7.5-10) 9/6/24
pH	**9.89**	**8.99**	**10.17**	**8.13**	**11.28**	**8.34**	**8.63**	**9.40**	**9.02**	**9.63**
Aluminum	7,000	4,100	22,000	8,900	19,000	1,900	9,600	2,900	20,000	16,000
Antimony	<2.1	<2.1	<10 *	<42 *	<2.1	<2.0	<1.9	<2.0	<1.8	<2.0
Arsenic	**15 ***	7.2	6.9	*<21*	6.4	4.5	11	4.4	6.5	7.7
Barium	110	34	250	68	250	11	110	30	300	270
Beryllium	2.4 *	1.2	5.2 *	<8.4	2.9 *	<0.41	2.4 *	0.54	3.9 *	3.6 *
Cadmium	<1.1 *	0.45	0.42	<1.1	1.2 *	<0.20	1.2*	0.20	0.88 *	1.3 *
Calcium	53,000	35,000	220,000	28,000	130,000	52,000	60,000	34,000	160,000	140,000
Chromium	320 *	30 ^	**2,500 ***	15	90 *	4.0	37 ^	8.4	150 *	110 *
Cobalt	13	4.9	2.8	11	3.7	3.2	7.6	3.1	3.9	4.9
Copper	100 *	14	79 *	<21	44	9.4	100 *	15	260 *	130 *
Cyanide	0.47	0.47	**0.77** ∞	0.52	**1.8** ∞	<0.24	9.4	**3.3** ∞	**11** ∞	**12** ∞
Iron	260,000 *	54,000 *	35,000	380,000 *	48,000 *	19,000	92,000 *	23,000	52,000 *	74,000 *
Lead	88 *	21	48 *	25	270 *	13	84	21	120 *	110 *
Magnesium	12,000	13,000	32,000	9,700	19,000	35,000	15,000	16,000	34,000	26,000
Manganese	2,800 *	1,900 ^	**20,000 ***	**5,700 ***	**5,700 ***	280	3,600 *	620	**7,000 ***	**6,900 ***
Mercury	**0.17** ∞	0.021	<0.017	<0.018	<0.017	0.016	**0.16** ∞	**0.15** ∞	0.064	**0.087** ∞
Nickel	200 *	23	49 *	<21	22	4.6	39 *	8.1	29 *	48 *
Potassium	310	560	1,000	210	1,400	430	780	260	1,300	1,300
Selenium	<5.3 *	1.5 *	8.5 *	<5.3 *	2.4 *	<1.0	<4.8 *	<0.99 *	3.4 *	3.4 *
Silver	<2.7 *	<0.51	<2.6 *	<2.6	<2.6 *	<0.51	<2.4 *	<0.49	<2.3 *	<2.5 *
Sodium	580	340	700	<530	880	140	570	150	690	630
Thallium	6.7 *	2.8	59 *	<21 *	9.5 *	<1.0	6.3 *	1.2 *	8.9 *	11 *
Vanadium	27	38	440 *	58	54	8.7	28	12	69	58
Zinc	160 *	120	100	39	340 *	36	200 *	53	190 *	240 *

Tier 1 Soil Remediation Objectives (Tier 1 SROs)																	Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values													
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0					
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II				
--	--	--	--	--	--	--	--	--	--	--	--	--	--				61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20				4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130				11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--				792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--				1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--				0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--				21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--				54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--				15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--				44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120				0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--				35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760				45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--				10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--				1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--				0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--				23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--				22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3				0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--				<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--				8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49				0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--				104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--				141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
Shaded/Italicized cell indicates a detection limit that exceeds an applicable Tier 1 SRO, or does not have a pH-specific soil migration Tier 1 SRO and is above the indicated background concentration
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration
(4) The SROs for the outdoor inhalation and construction worker inhalation exposure routes, and the soil saturation limit only apply to sites where elemental mercury is a contaminant of concern. There are no known potential sources of elemental mercury at the subject property; thus, the inhalation SROs and soil saturation limit for mercury are not applicable to the subject property

TABLE NO. 4 (13 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB61 (0-3)	SB61 (17.5-19)	SB62 (0-3)	SB62 (7.5-10)	SB63 (0-3)	SB63 (5-7.5)	SB64 (0-3)	SB64 (7.5-10)	SB65 (0-3)	SB65 (7.5-10)
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24
pH	**9.18**	**11.69**	**9.63**	**9.61**	**9.62**	**10.6**	**8.29**	**11.52**	**9.57**	**9.60**
Aluminum	23,000	24,000	5,300	40,000	22,000	22,000	7,600	22,000	19,000	12,000
Antimony	<10 *	<2.8	<2.2	<12 *	<2.0	<2.2	<11 *	<2.4	<2.0	<2.0
Arsenic	11	5.1	1.9	<6.0	2.4	2.3	<5.3	2.7	2.4	13
Barium	260	360	76	490	350	220	94	250	260	150
Beryllium	5.8 *	4.0 *	<0.43	7.7 *	5.9 *	6.0 *	3.1 *	6.0 *	5.5 *	4.5 *
Cadmium	5.0 *	<0.28	<0.22	<1.2 *	<0.20	<0.22	<1.1 *	<0.24	<0.20	<1.0 *
Calcium	160,000	130,000	36,000	170,000	220,000	200,000	100,000	200,000	210,000	120,000
Chromium	340 *	16	5.3	<6.0	22	12	110 *	23	20	130 *
Cobalt	7.8	<3.5	1.5	<3.0	<2.5	<2.7	4.5	<3.0	<2.4	13
Copper	56 *	<1.4	1.6	<6.0	3.5	2.5	30	2.7	12	61 *
Cyanide	**52** ∞	**22** ∞	<0.27	<0.25	**1.0** ∞	<0.26	1.8	**13** ∞	**1.7** ∞	**1.7** ∞
Iron	140,000 *	22,000	3,300	920	8,500	8,700	95,000 *	11,000	23,000	46,000 *
Lead	100 ∞	<0.70	1.8	<0.60	14	<2.7	24	<3.0	31	43
Magnesium	19,000	16,000	22,000	53,000	53,000	61,000	38,000	55,000	54,000	34,000
Manganese	**6,600 ***	**6,600 ***	240	2,400 *	4,000 *	1,400	3,100 *	4,000 *	3,400 *	3,800 *
Mercury	0.051	<0.024	<0.019	<0.018	<0.017	<0.018	0.053	<0.020	<0.017	0.065
Nickel	290 *	<1.4	2.8	<1.2	1.5	1.4	16	4.9	78 *	2,200 *
Potassium	1,300	2,100	220	790	1,900	880	280	1,200	1,600	960
Selenium	<5.2 *	2.5 *	<1.1 *	<6.0 *	3.3 *	2.7 *	<5.3 *	3.7	3.1 *	<5.1 *
Silver	<2.6 *	<3.5 *	<0.54	<3.0 *	<2.5 *	<2.7 *	<2.7 *	<3.0 *	<2.4 *	<2.6 *
Sodium	840	520	120	1,000	1,000	930	<530	880	950	700
Thallium	11 *	9.6 *	<1.1 *	<1.2*	6.4 *	2.0 *	6.3 *	6.0 *	5.6 *	7.0 *
Vanadium	31	29	6.3	5.0	20	12	64	15	19	38
Zinc	310 *	<14	10	<12	33	13	46	19	65	75

Tier 1 Soil Remediation Objectives (Tier 1 SROs)																	Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values													
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0			
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II		
--	--	--	--	--	--	--	--	--	--	--	--	--	--		61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20		4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130		11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--		792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--		1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--		0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--		21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--		54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--		15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--		44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120		0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--		35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760		45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--		10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--		1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--		0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--		23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--		22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3		0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--		<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--		8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49		0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--		104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--		141

TABLE NO. 4 (14 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB66 (0-3)	SB66 (5-7.5)	SB67 (0-3)	SB67 (3-5)	SB68 (0-3)	SB68 (7.5-10)	SB69 (0-3)	SB69 (3-5)	SB70 (0-3)	SB70 (12.5-15)
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/9/24	9/9/24	9/9/24	9/9/24	9/9/24	9/9/24
pH	**9.13**	**8.85**	**8.97**	**9.27**	**11.36**	**12.42**	**11.58**	**11.06**	**8.96**	**8.06**
Aluminum	19,000	18,000	14,000	14,000	13,000	9,700	12,000	11,000	1,800	2,100
Antimony	<2.0	<2.1	<2.0	<1.9	<10 *	<9.7 *	<10 *	<2.1	<2.0	<2.0
Arsenic	2.5	2.7	4.1	10	4.2	2.6	2.7	5.6	4.1	5.7
Barium	170	200	160	120	140	100	160	140	11	7.8
Beryllium	5.5 *	6.0 *	3.9	3.6 *	2.3 *	1.9 *	2.5 *	<2.1 *	<0.39	0.45
Cadmium	<0.20	0.26	0.74	<0.96	1.3 *	1.9 *	0.35	0.58	<0.20	<0.20
Calcium	210,000	200,000	110,000	99,000	160,000	180,000	170,000	230,000	24,000	45,000
Chromium	15	21	56 *	44	**520 ***	**740 ***	140 *	33	12	17
Cobalt	<2.5	<2.7	2.7	5.4	5.7	5.7	2.9	20 *	3.1	4.1
Copper	13	11	140 *	66 *	79 *	90 *	24	230 *	4.7	7.8
Cyanide	**2.1** ∞	2.4	4.9	**5.0** ∞	**4.4** ∞	**9.4** ∞	**3.3** ∞	**5.3** ∞	<0.24	<0.25
Iron	20,000	24,000	40,000 *	80,000 *	120,000 *	120,000 *	21,000	1,900	24,000	29,000
Lead	21	34	120	120 *	150 *	210 *	61 *	<2.6	3.1	3.6
Magnesium	35,000	31,000	11,000	17,000	41,000	42,000	57,000	37,000	14,000	27,000
Manganese	1,800 ^	2,100 *	2,900 *	1,300	**20,000 ***	**22,000 ***	2,700 *	1,000	280	400
Mercury	<0.017	<0.017	0.028	<0.018	**0.14** ∞	**0.26** ∞	**0.12** ∞	**0.35** ∞	0.019	0.027
Nickel	4.1	10	22	29 *	36 *	37 *	23	15	4.6	6.9
Potassium	1,400	1,500	1,400	1,600	900	600	600	700	270	330
Selenium	2.8 *	2.9 *	2.3 *	<4.8 *	<5.1 *	9.0 *	3.4 *	2.7 *	2.0 *	2.3
Silver	<2.5 *	<2.7 *	<2.6 *	<2.4 *	<2.5 *	<2.4 *	<2.5 *	<0.52	<0.49	<0.50
Sodium	870	860	510	1,000	410	260	340	370	<98	140
Thallium	3.0 *	3.9	6.9	<4.8 *	24 *	91 *	5.8 *	<5.2 *	<0.98	<1.0
Vanadium	13	19	30	18	380 *	470 *	29	21	45	56
Zinc	68	120	240 *	430 *	200 *	410 *	78	130	13	15

Tier 1 Soil Remediation Objectives (Tier 1 SROs)																	Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values													
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0			
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II		
--	--	--	--	--	--	--	--	--	--	--	--	--	--		61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20		4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130		11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--		792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--		1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--		0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--		21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--		54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--		15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--		44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120		0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--		35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760		45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--		10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--		1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--		0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--		23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--		22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3		0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--		<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--		8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49		0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--		104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--		141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration
(4) The SROs for the outdoor inhalation and construction worker inhalation exposure routes, and the soil saturation limit only apply to sites where elemental mercury is a contaminant of concern. There are no known potential sources of elemental mercury at the subject property; thus, the inhalation SROs and soil saturation limit for mercury are not applicable to the subject property

TABLE NO. 4 (15 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB70 (17.5-20)	SB71 (0-3)	SB72 (0-3)	SB72 (7.5-10)	SB73 (0-3)	SB73 (5-7.5)	SB74 (0-3)	SB74 (3-5)	SB75 (0-3)	SB75 (5-7.5)
Collection Date	9/9/24	9/9/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24
pH	8.67	9.48	7.55	7.73	7.43	7.62	7.42	8.08	11.87	11.39
Aluminum	1,100	11,000	4,800	3,000	3,500	2,400	7,100	9,600	11,000	10,000
Antimony	<2.2	<9.9	<2.4	<2.1	<1.9	<2.1	<23 *	<11	<9.2	<11
Arsenic	3.4	8.4	7.9	4.3	5.4	1.3	8.8	12	4.1	5.9
Barium	3.8	170	100	11	30	10	89	100	110	110
Beryllium	<0.43	2.6 *	1.3	<0.42	0.98	<0.42	<4.5	3.1	2.4 *	2.1
Cadmium	<0.22	1.0 *	0.34	<0.21	0.36	<0.21	<0.23	<1.1	0.82 *	1.7
Calcium	34,000	96,000	7,300	57,000	4,300	58,000	18,000	21,000	160,000	150,000
Chromium	4.3	270 *	10	6.1	7.1	4.7	18	25	26	49
Cobalt	2.5	7.1	8.0	4.6	4.5	2.9	8.1	9.6	3.2	4.4
Copper	1.9	81 *	29	7.3	14	3.4	24	36	40	77
Cyanide	<0.27	**4.5** ∞	1.1	<0.25	<0.23	<0.26	1.7	0.96	**6.1** ∞	**3.4** ∞
Iron	5,200	78,000 *	47,000 *	8,700	39,000 *	6,200	52,000 *	79,000 *	27,000	45,000
Lead	2.1	150 *	39	4.3	28	2.9	22	41	83 *	300
Magnesium	20,000	30,000	710	30,000	440	33,000	5,100	2,400	32,000	34,000
Manganese	160	**5,700 ***	580	320	440	240	350	520	1,600	1,400
Mercury	<0.019	**0.13** ∞	0.053	<0.020	<0.018	<0.020	0.018	0.030	0.019	0.021
Nickel	3.6	93 *	25	8.8	17	4.9	21	20	16	28
Potassium	210	1,100	660	730	290	610	880	1,500	580	320
Selenium	<1.1	<5.0 *	1.6	<1.1	<0.94	<1.0	1.9	<5.7 *	1.4 *	1.7
Silver	<0.54	<0.50	<0.59	<0.53	<0.47	<0.52	<0.57	<2.9	<2.3 *	<2.6
Sodium	<110	420	310	120	300	240	310	450	270	220
Thallium	<1.1	9.6 *	2.1	1.8	1.5	1.4	1.8	<5.7	7.4 *	5.8
Vanadium	13	60	22	12	13	11	36	59	13	13
Zinc	15	220 *	110	26	96	23	51	72	150 *	270

Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values								
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

TABLE NO. 4 (16 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB76 (0-3)	SB76 (7.5-10)	SB77 (0-3)	SB77 (5-7.5)	SB78 (0-3)	SB78 (10-12.5)	SB79 (0-3)	SB79 (5-7.5)	SB80 (0-3)	SB80 (3-5)
Collection Date	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24
pH	11.45	11.05	8.50	10.57	8.85	11.24	9.80	11.38	9.61	9.86
Aluminum	24,000	38,000	16,000	13,000	7,200	9,100	29,000	33,000	24,000	33,000
Antimony	<9.6 *	<13 *	<10 *	<10 *	<9.5 *	<11 *	<10 *	<9.9 *	<11 *	<9.2 *
Arsenic	*<48* *	4.0	13	4.4	*<48* *	**15 ***	8.1	2.0	7.8	3.5
Barium	390	390	190	140	100	150	220	170	580	280
Beryllium	3.8 *	7.6 *	<8.0 *	3 *	<1.9 *	<2.2 *	5.4 *	5.9 *	5.0 *	6.7 *
Cadmium	1.3 *	<0.26	1.7 *	0.31	<9.5 *	<1.1 *	0.99 *	<0.20	11 *	0.97 *
Calcium	190,000	220,000	110,000	100,000	33,000	150,000	210,000	270,000	160,000	230,000
Chromium	**2,200 ***	7.3	260 *	68 *	**550 ***	370 *	85 *	47	47	38
Cobalt	5.5	2.8	10	3.9	12	7.4	4.4	1.5	4.3	2.4
Copper	150 *	3.6	320 *	25	110 *	24	130 *	3.7	1,900 *	120 *
Cyanide	**11** ∞	**67** ∞	4.0	**6.9** ∞	8.9	<0.26	**13** ∞	**18** ∞	**17** ∞	**13** ∞
Iron	95,000 *	7,200	150,000 *	29,000	430,000 *	160,000 *	43,000 *	15,000	39,000 *	21,000
Lead	540	23	170	35	91	12	130 *	<2.5	620	79 *
Magnesium	20,000	10,000	16,000	16,000	2,900	23,000	9,900	8,700	17,000	11,000
Manganese	**33,000 ***	**9,300 ***	**4,300 ***	**4,700 ***	**5,300 ***	**31,000 ***	**11,000 ***	**14,000 ***	**8,400 ***	**8,400 ***
Mercury	0.041	<0.021	**0.16** ∞	0.067	0.026	<0.017	0.040	<0.016	**0.75 ***	<0.017
Nickel	56 *	5.9	130 *	20	260 *	70 *	38 *	<0.99	76 *	16
Potassium	880	2,000	550	750	<48	500	1,500	1,200	1,400	1,900
Selenium	12 *	3.8 *	<5.0 *	2 *	<4.8 *	10 *	3.6 *	4.0 *	3.3 *	3.5 *
Silver	<2.4 *	<3.2 *	3.8 *	<2.6 *	7.2 *	<11 *	<2.5 *	<2.5 *	<2.7 *	<2.3 *
Sodium	520	910	450	440	220	210	930	830	830	960
Thallium	88 *	32 *	12	16 *	<48 *	110 *	33 *	<4.9 *	26 *	29 *
Vanadium	**350** ∞	13	55	35	50	**320** ∞	55	58	32	34
Zinc	220 *	39	320 *	66	130	23	250 *	4.6	1,500 *	140

Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values								
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
Shaded/Italicized cell indicates a detection limit that exceeds an applicable Tier 1 SRO, or does not have a pH-specific soil migration Tier 1 SRO and is above the indicated background concentration
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration
(4) The SROs for the outdoor inhalation and construction worker inhalation exposure routes, and the soil saturation limit only apply to sites where elemental mercury is a contaminant of concern. There are no known potential sources of elemental mercury at the subject property; thus, the inhalation SROs and soil saturation limit for mercury are not applicable to the subject property

TABLE NO. 4 (17 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB81 (0-3)	SB81 (7.5-10)	SB82 (0-3)	SB82 (5-7.5)	SB83 (0-3)	SB83 (3-5)	SB84 (0-3)	SB84 (5-7.5)	SB85 (0-3)	SB85 (10-12.5)
Collection Date	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24
pH	**7.11**	**8.71**	**9.01**	**9.87**	**9.81**	**9.72**	**10.03**	**9.92**	**11.26**	**12.45**
Aluminum	17,000	22,000	28,000	35,000	23,000	19,000	24,000	26,000	29,000	25,000
Antimony	<2.1	<1.9	<2.1	<2.5	<1.8	<1.9	<2.0	<2.1	<2.1	<2.1
Arsenic	**19**	3.4	5.2	3.2	10	7.0	5.6	4.7	2.8	2.7
Barium	290	210	290	300	410	610	300	280	290	240
Beryllium	4.1	3.8 *	6.2 *	6.9 *	4.6 *	3.3 *	3.5 *	3.9 *	5.0 *	4.1 *
Cadmium	<1.0	<0.19	0.59	<0.25	1.9 *	1.3 *	2.5 *	1.2 *	<0.21	<0.21
Calcium	92,000	130,000	160,000	210,000	150,000	180,000	170,000	190,000	210,000	260,000
Chromium	200 *	5.3	29	10	150 *	**720 ***	87 *	91 *	7.6	130 *
Cobalt	9.8	0.58	6.6	5.1	6.4	2.7	2.0	0.71	0.99	<0.52
Copper	140	6.0	36	7.0	64 *	37	120 *	51	8.6	<5.2
Cyanide	<0.23	36	**35** ∞	**44** ∞	**9.9** ∞	**8.8** ∞	**5.8** ∞	**8.1** ∞	**7.6** ∞	**12** ∞
Iron	110,000 *	7,300	25,000 ^	16,000 ^	70,000 *	84,000 *	33,000 ^	31,000 ^	29,000 ^	51,000 *
Lead	110 *	3.5	88 *	<0.62	130 *	67 *	550 *	92 *	6.2	<0.52
Magnesium	10,000	9,900	7,800	12,000	12,000	39,000	12,000	12,000	12,000	19,000
Manganese	**9,500 ***	3,500 *	**4,900 ***	**5,000 ***	**21,000 ***	**27,000 ***	**10,000 ***	**15,000 ***	2,900 *	**19,000 ***
Mercury	**0.17** ∞	<0.018	<0.017	<0.022	**0.21** ∞	<0.017	<0.017	0.037	<0.017	<0.018
Nickel	70	6.5	43 *	21	33 *	16	16	11	4.3	3.1
Potassium	1,100	1,500	2,000	1,700	1,600	1,100	1,600	1,500	1,200	1,500
Selenium	<5.2 *	2.3 *	2.3 *	2.7 *	7.0 *	9.7 *	3.5 *	5 *	3.0 *	7.0 *
Silver	2.9	<2.4 *	<2.6 *	<3.1 *	<2.3 *	<2.4 *	<2.5 *	<2.6 *	<2.6 *	<2.6 *
Sodium	830	740	1,200	960	840	490	860	920	700	840
Thallium	21	7.2	9.5 *	13 *	40 *	50 *	24 *	29	<1.0 *	36 *
Vanadium	78	9.6	30	24	92	200 *	71	110	12	140 *
Zinc	250	20	150 *	13	500 *	340 *	1,700 *	840 *	34	<2.1

Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values								
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

TABLE NO. 4 (18 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB86 (0-3)	SB86 (7.5-10)	SB87 (0-3)	SB87 (3-5)	SB88 (0-3)	SB88 (7.5-10)	SB89 (0-3)	SB89 (3-5)	SB90 (0-3)	SB90 (7.5-10)
Collection Date	9/11/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24
pH	**9.57**	**9.83**	**7.73**	**9.96**	**9.06**	**8.88**	**10.84**	**11.51**	**11.20**	**9.99**
Aluminum	13,000	20,000	15,000	29,000	9,800	810	11,000	15,000	20,000	11,000
Antimony	<1.9	<2.2	<2.2	<2.0	<1.9	<1.9	9.0 *	<1.8	5.4 *	<2.1
Arsenic	**43 ***	4.9	6.8	4.1	<4.6	3.5	7.5	<4.5	5.7	<5.1
Barium	270	190	180	350	99	8.5	87	160	310	140
Beryllium	2.7 *	3.0 *	3.2	4.8	3.5 *	0.37	0.47	2.0 *	<2.1 *	<2.1 *
Cadmium	7.9 *	1.1 *	4.4	0.84	<0.93 *	<0.19	0.35	<0.90 *	1.7 *	2.4 *
Calcium	130,000	130,000	210,000	220,000	210,000	170,000	73,000	130,000	200,000	120,000
Chromium	300 *	88 *	360 *	41	38	10	**2,800 ***	**1,500 ***	**3,100 ***	**1,300 ***
Cobalt	11	2.6	8.7	2.2	3.5	2.0	26 *	4.5	4.1	5.1
Copper	300 *	94 *	160	31	8.1	3.7	75 *	40	200 *	80 *
Cyanide	**8.3** ∞	**15** ∞	4.8	**16** ∞	<0.25	<0.24	<0.26	0.34	*0.85*	**1.4** ∞
Iron	110,000 *	28,000	87,000 *	21,000	93,000 *	40,000 *	58,000 *	74,000 *	120,000 *	82,000 *
Lead	610 *	140 *	260	67	6.8	<0.46	15	21	50 *	68 *
Magnesium	28,000	14,000	17,000	9,500	18,000	2,800	96,000	38,000	42,000	33,000
Manganese	**6,300 ***	**5,000 ***	**9,400 ***	**5,500**	3,200 *	710	**14,000 ***	**31,000 ***	**47,000 ***	**21,000 ***
Mercury	**0.57 ***	0.057	**0.14**	<0.017	<0.017	<0.016	0.037	0.025	0.075	0.049
Nickel	160 *	27 *	56	14	5.1	3.0	260 *	51 *	92 *	150 *
Potassium	950	1,400	860	1,600	520	<46	450	920	66	240
Selenium	<4.7 *	2.2 *	<5.5 *	4.4	<4.6 *	<0.93	5.0 *	<4.5 *	7.0 *	<5.1 *
Silver	3.5 *	<2.8 *	<2.7	<2.5	<2.3 *	<2.3	<2.4 *	<2.2 *	<2.6 *	<2.6 *
Sodium	600	840	610	980	400	100	160	470	190	230
Thallium	15 *	10 *	48 *	28	17 *	2.8	53 *	110 *	160 *	76
Vanadium	62	45	77	16	53	12	140 *	250 *	**710** ∞	400 *
Zinc	1,600 *	240 *	1,000	280	21	12	63	84	250 *	230 *

Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values								
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration
(4) The SROs for the outdoor inhalation and construction worker inhalation exposure routes, and the soil saturation limit only apply to sites where elemental mercury is a contaminant of concern. There are no known potential sources of elemental mercury at the subject property; thus, the inhalation SROs and soil saturation limit for mercury are not applicable to the subject property

TABLE NO. 4 (19 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB91 (0-3) 9/12/24	SB91 (12.5-15) 9/12/24	SB92 (0-3) 9/12/24	SB92 (3-5) 9/12/24	SB93 (0-3) 9/16/24	SB93 (5-7.5) 9/16/24	SB94 (0-3) 9/16/24	SB94 (12.5-15) 9/16/24	SB95 (0-3) 9/16/24	SB95 (5-7.5) 9/16/24
pH	**10.84**	**10.69**	**10.52**	**10.71**	**8.08**	**8.19**	**9.33**	**8.60**	**9.28**	**7.56**
Aluminum	19,000	13,000	19,000	22,000	14,000	8,700	7,400	6,200	17,000	12,000
Antimony	<2.0	<1.9	<1.8	<2.1	<9.1 *	<9.9 *	<9.7 *	<2.0	<2.0	<1.9
Arsenic	<5.0	<4.9	<4.6	7.1	9.1	**18**	7.2	11	6.2	**15**
Barium	240	220	290	360	330	180	100	62	260	180
Beryllium	3.8 *	2.3 *	3.7 *	3.9 *	3.4	2.8	<1.9 *	<2.0 *	4.2 *	3.3
Cadmium	150 *	2.2 *	<0.91 *	<1.0 *	1.3	<0.99	0.55	<0.99 *	0.43	<0.95
Calcium	180,000	120,000	170,000	180,000	130,000	41,000	89,000	39,000	140,000	99,000
Chromium	**1,300 ***	**720 ***	350 *	**1,700 ***	180 *	41 ^	**440 ***	54 ^	92 *	47 ^
Cobalt	5.8	7.0	8.2	3.3	7.9	9.4	5.8	9.8	5.5	8.9
Copper	100 *	100 *	210 *	77 *	64	35	38	47 *	31	51
Cyanide	**3.2** ∞	**6.9** ∞	**6** ∞	**2.3** ∞	4.3	2.9	**6.6** ∞	1.6	**5** ∞	7.5
Iron	88,000 *	100,000 *	100,000 *	73,000 *	75,000 *	240,000 *	73,000 *	160,000 *	59,000 *	150,000 *
Lead	280 *	190 *	68 *	68 *	460	66	56 *	43	52 *	77
Magnesium	36,000	24,000	21,000	20,000	20,000	8,400	19,000	12,000	11,000	7,600
Manganese	**21,000 ***	**23,000 ***	**14,000 ***	**20,000 ***	**9,100 ***	**7,300 ***	**12,000 ***	**7,600 ***	**5,000 ***	**11,000 ***
Mercury	**0.18 ***	**0.13** ∞	0.044	0.026	<0.016	0.050	**0.21** ∞	0.049	0.057	<0.017
Nickel	64 *	69 *	160 *	69 *	30	10	36 *	19	62 *	36
Potassium	550	500	690	810	990	1,100	520	510	1,300	960
Selenium	<5.0 *	<4.9 *	<4.6 *	<5.2 *	<4.6 *	<4.9 *	2.9 *	<4.9 *	3.2 *	<4.8 *
Silver	<2.5 *	<0.49	<0.46	<2.6 *	<2.3	4.0	<0.48	2.6 *	<2.6 *	<0.48
Sodium	480	420	430	450	890	610	<480	<490	880	670
Thallium	75 *	85 *	50 *	74 ∞	42 *	45 *	34 *	39 *	28 *	27
Vanadium	250 *	230 *	140 *	260 ∞	120	53	110 ∞	78	59	48
Zinc	1,400 *	340 *	120	150 *	360	210	230 *	70	180 *	140

Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values								
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

TABLE NO. 4 (20 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB96 (0-3) 9/16/24	SB96 (7.5-10) 9/16/24	SB97 (0-3) 9/16/24	SB97 (5-7.5) 9/16/24	SB98 (0-3) 9/17/24	SB98 (7.5-10) 9/17/24	SB99 (0-3) 9/17/24	SB99 (10-12.5) 9/17/24	SB100 (0-3) 9/17/24	SB100 (3-5) 9/17/24
pH	**10.49**	**13.17**	**9.70**	**9.16**	**8.65**	**9.95**	**10.15**	**11.88**	**9.73**	**9.75**
Aluminum	16,000	14,000	7,200	7,500	18,000	22,000	22,000	36,000	18,000	16,000
Antimony	<2.0	<1.9	<1.8	***<8.8*** ∞	<1.9	<1.9	<2.0	<3.0	<2.1	<2.1
Arsenic	11	4.0	11	12	6.0	5.6	3.3	3.4	4.1	5.0
Barium	190	440	110	82	180	290	340	480	270	210
Beryllium	4.1 *	3.6 *	<1.8 *	<1.8 *	2.9 *	4.2 *	3.9 *	5.6 *	3.6 *	2.9 *
Cadmium	0.42	0.25	<0.91 *	<0.88 *	0.30	<0.94 *	0.38	<0.30	0.77	0.54
Calcium	160,000	170,000	40,000	42,000	130,000	220,000	220,000	270,000	180,000	170,000
Chromium	370 *	43	120 *	240 *	54 ^	170 *	**430 ***	150 *	190 *	300 *
Cobalt	6.9	3.4	7.6	8.9	4.9	5.8	4.6	4.9	5.1	6.0
Copper	42	19	190 *	380 *	39	28	23	15	85 *	130 *
Cyanide	**12** ∞	**5.3** ∞	**5.8** ∞	**5.7** ∞	15	**11** ∞	**60** ∞	**4.9** ∞	**1.7** ∞	**3.4** ∞
Iron	74,000 *	27,000	120,000 *	110,000 *	40,000 *	82,000 *	49,000 *	27,000	76,000 *	75,000 *
Lead	54 *	24	80 *	190 *	53	29	57 *	16	130 *	75 *
Magnesium	12,000	21,000	6,000	6,700	15,000	14,000	26,000	48,000	25,000	21,000
Manganese	**9,400 ***	**5,300 ***	**10,000 ***	**10,000 ***	**4,600 ***	**21,000 ***	**11,000 ***	**11,000 ***	**8,800 ***	**8,100 ***
Mercury	0.059	0.030	0.057	0.071	<0.016	0.035	0.075	<0.024	0.018	<0.015
Nickel	90 *	10	45 *	100 *	22	9.6	14	9.3	23	27 *
Potassium	1,300	1,100	740	560	1,200	1,400	1,400	1,300	1,200	1,100
Selenium	3.9 *	3.2 *	<4.5 *	<4.4 *	2.5 *	11 *	3.9 *	4.2 *	3.3 *	2.9 *
Silver	<0.51	<0.48	<0.45	<0.44	<2.4 *	<2.3 *	<2.5 *	<3.8 *	<2.6 *	<2.6 *
Sodium	820	650	480	<440	660	660	800	1,000	980	810
Thallium	39 *	30 *	33 *	29 *	22	95 *	48 *	50 *	40 *	36 *
Vanadium	110 *	42	52	71	26	**250** ∞	73	73	78	87
Zinc	160 *	100	140	120	100	76	110	32	260 *	170 *

Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values								
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
Shaded/Italicized cell indicates a detection limit that exceeds an applicable Tier 1 SRO, or does not have a pH-specific soil migration Tier 1 SRO and is above the indicated background concentration
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration
(4) The SROs for the outdoor inhalation and construction worker inhalation exposure routes, and the soil saturation limit only apply to sites where elemental mercury is a contaminant of concern. There are no known potential sources of elemental mercury at the subject property; thus, the inhalation SROs and soil saturation limit for mercury are not applicable to the subject property

TABLE NO. 4 (21 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB101 (0-3) 9/17/24	SB101 (12.5-15) 9/17/24	SB102 (0-3) 9/17/24	SB102 (7.5-10) 9/17/24	SB103 (0-3) 9/18/24	SB103 (5-7.5) 9/18/24	SB104 (0-3) 9/18/24	SB105 (0-3) 9/18/24	SB105 (10-12.5) 9/18/24	SB106 (0-3) 9/18/24
pH	**11.58**	**11.32**	**11.78**	**8.87**	**7.80**	**8.94**	**7.66**	**8.10**	**7.79**	**11.52**
Aluminum	16,000	28,000	14,000	7,600	8,600	11,000	14,000	12,000	29,000	21,000
Antimony	5.3 *	<2.1	<2.1	<2.0	<2.0	<1.8	<2.2	<2.0	<2.2	<2.1
Arsenic	6.7	2.9	*<21*	4.0	4.8	9.5	8.9	6.7	5.5	**25 ***
Barium	210	280	210	130	99	59	99	75	340	240
Beryllium	1.8 *	4.7 *	2.3 *	1.4	1.3	0.67	0.84	0.62	4.7	4.5 *
Cadmium	5.4 *	<0.21	2.7 *	<0.20	0.38	0.25	0.43	0.43	<0.22	0.32
Calcium	210,000	220,000	240,000	56,000	51,000	12,000	5,000	45,000	190,000	150,000
Chromium	310 *	83 *	**980 ***	200 *	**450 ***	19	21	18	18	82 *
Cobalt	6.7	3.8	6.1	3.7	4.1	12	15	7.9	6.8	30 *
Copper	110 *	6.0	29	16	65	20	24	23	6.7	56 *
Cyanide	**14** ∞	**49** ∞	**7.0** ∞	6.9	2.1	3.6	<0.25	9.3	14	**7.5** ∞
Iron	74,000 *	28,000	98,000 *	54,000 *	37,000 *	22,000	23,000	16,000	9,900	32,000
Lead	120 *	8.8	77 *	23	40	20	19	86	13	79 *
Magnesium	39,000	30,000	32,000	19,000	17,000	9,300	4,400	18,000	9,000	17,000
Manganese	**8,700 ***	**5,700 ***	**27,000 ***	**5,900 ***	**5,700 ***	400	1,000	320	**14,000 ***	**52,000 ***
Mercury	**0.15** ∞	<0.020	**0.18** ∞	<0.017	0.057	0.031	<0.017	0.18	<0.018	<0.017
Nickel	63 *	3.9	41 *	7.6	21	33 *	29	18	15	110 *
Potassium	340	930	300	470	650	2,300	1,700	1,600	1,500	1,600
Selenium	6.4 *	2.5 *	15 *	2.3 *	2.3 *	<0.91	<1.1	<1.0	4.6 *	11 *
Silver	<2.7	<2.7	<2.6	1.2	1.4	0.54	0.59	<0.50	<2.8	<26 *
Sodium	290	590	530	260	310	200	300	160	650	880
Thallium	42 *	26 *	120 *	26 *	26 *	2.3	5.2	1.7	<56 *	<52 *
Vanadium	310 *	19	720 *	65	89	24	34	27	17	54
Zinc	290 *	12	96	54	100	65	59	100	18	120

Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values								
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

TABLE NO. 4 (22 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval) / Collection Date	SB107 (0-3) 9/18/24	SB107 (7.5-10) 9/18/24	SB108 (0-3) 9/19/24	SB109 (0-3) 9/19/24	SB109 (5-7.5) 9/19/24	SB110 (0-3) 9/19/24	SB110 (5-7.5) 9/19/24	SB111 (0-3) 9/19/24	SB111 (3-5) 9/19/24	SB112 (0-3) 9/19/24
pH	**9.18**	**10.38**	**10.65**	**10.26**	**7.69**	**8.85**	**8.12**	**7.99**	**8.15**	**7.29**
Aluminum	12,000	14,000	8,000	18,000	8,600	4,200	2,600	6,200	9,000	14,000
Antimony	<1.9	<12 *	<2.0	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.6
Arsenic	5.6	**14 ***	10	**14 ***	9.4	11	2.0	3.3	3.8	8.2
Barium	170	130	120	330	130	51	9.5	90	110	100
Beryllium	2.1 *	<2.4 *	<2.0 *	4.2 *	3.1	<0.41	<0.42	0.75	1.2	0.72
Cadmium	<0.19	<0.24	<0.98 *	1.4 *	<1.1	1.0 *	<0.21	0.43	0.48	0.28
Calcium	160,000	43,000	190,000	200,000	21,000	230,000	17,000	130,000	140,000	15,000
Chromium	110 *	13	**830 ***	**1,200 ***	28	**1,900 ***	36 ^	23	32 ^	20
Cobalt	5.9	7.6	4.4	7.0	9.0	5.8	1.4	3.1	3.5	11
Copper	22	21	29	84 *	26	150 *	15	18	20	25
Cyanide	**13** ∞	**45** ∞	**2.4** ∞	**20** ∞	0.80	0.60	<0.26	0.60	1.6	<0.28
Iron	93,000 *	200,000 *	160,000 *	120,000 *	100,000 *	130,000 *	28,000	13,000	15,000	21,000
Lead	16	22	97 *	130 *	19	39	4.4	49	53	38
Magnesium	18,000	8,300	27,000	15,000	1,900	23,000	5,600	35,000	27,000	8,700
Manganese	**12,000 ***	**6,900 ***	**38,000 ***	**16,000 ***	**10,000 ***	**18,000 ***	**7,100 ***	820	1,600	440
Mercury	0.058	0.023	0.021	0.062	0.020	0.056	0.024	0.069	**0.12**	0.047
Nickel	11	6.3	14	100 *	25	63 *	6.0	13	18	28
Potassium	1,000	1,500	360	1,200	1,000	150	180	990	1,200	2,400
Selenium	8.2 *	<6.1 *	16 *	7.9 *	<5.4 *	9.3 *	2.6 *	<1.0	<0.99	<1.3
Silver	<2.4 *	<3.0 *	<2.4 *	4.4 *	<2.7	2.9 *	<0.52	<2.6	<2.5	<0.66
Sodium	550	520	240	600	710	200	150	210	280	<130
Thallium	<49 *	32 *	250 *	120 *	44 *	93 *	47 *	3.9 *	7.7	2.4
Vanadium	190 *	71	430 *	340 *	110	480	44	14	23	27
Zinc	63	40	130	250 *	140	170 *	7.1	170	180	93

Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values								
				pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
Shaded/Italicized cell indicates a detection limit that exceeds an applicable Tier 1 SRO, or does not have a pH-specific soil migration Tier 1 SRO and is above the indicated background concentration
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration
(4) The SROs for the outdoor inhalation and construction worker inhalation exposure routes, and the soil saturation limit only apply to sites where elemental mercury is a contaminant of concern. There are no known potential sources of elemental mercury at the subject property; thus, the inhalation SROs and soil saturation limit for mercury are not applicable to the subject property

TABLE NO. 4 (23 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB113 (0-3)	SB113 (10-12.5)	SB114 (0-3)	SB114 (7.5-10)	SB115 (0-3)	SB115 (5-7.5)	SB116 (0-3)	SB116 (12.5-15)	SB117 (0-3)	SB117 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile[1]
											Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values									
															pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Collection Date	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
pH	**8.27**	**8.92**	**9.86**	**10.66**	**10.44**	**9.78**	**9.63**	**9.13**	**7.77**	**9.14**															
Aluminum	13,000	2,300	23,000	17,000	14,000	12,000	15,000	3,500	15,000	12,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
Antimony	<1.8	<2.2	<2.0	<2.0	2.7	<2.0	<1.9	4.5 *	<1.9	<2.1	820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
Arsenic	4.8	8.8	1.7	1.9	**16 ***	8.9	11	5.2	8.9	4.1	13[2]	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
Barium	120	16	240	180	260	170	210	37	170	94	140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
Beryllium	2.9 *	<0.44	6.4 *	4.5 *	3.5 *	2.4 *	3.6 *	<0.50	2.5	1.6	4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
Cadmium	0.26	<0.22	<0.20	<0.20	<0.98	<0.20	<0.96 *	<0.25	0.33	<0.21	2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
Calcium	110,000	39,000	190,000	140,000	130,000	94,000	89,000	54,000	86,000	87,000	--[3]	--	--[3]	--	--	--	--	--	--	--	--	--	--	--	21,520
Chromium	24	4.6	8.1	7.0	8.6	7.9	**520 ***	11	31 ^	5.8	6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
Cobalt	3.7	2.6	0.79	1.5	6.4	4.3	8.4	2.3	4.5	2.0	120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
Copper	20	5.9	1.5	3.9	29	13	34	2.6	18	2.8	82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
Cyanide	1.8	1.5	**0.90 ∞**	**4.8 ∞**	**13 ∞**	**8.7 ∞**	**8.1 ∞**	**1.1 ∞**	15	**6.4 ∞**	41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
Iron	29,000	11,000	13,000	11,000	93,000 *	47,000 *	92,000 *	5,500	40,000 *	9,100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
Lead	43	10	<2.5	9.3	83 *	49 *	52 *	41	51	4.0	800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
Magnesium	23,000	19,000	35,000	23,000	16,000	12,000	16,000	17,000	9,900	13,000	--[3]	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
Manganese	1,800 ^	250	970	1,000	**4,600 ***	3,700 *	3,700 *	320	**4,600 ***	1,300	41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
Mercury	<0.017	<0.019	<0.018	<0.018	0.039	0.029	0.042	<0.021	0.040	<0.018	610	16	61	0.1[5]	3.3	16	6.4	32	8	40	--	--	--	--	0.08
Nickel	16	4.8	1.4	4.3	12	7.1	140 *	5.8	13	3.8	41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
Potassium	1,400	490	1,100	790	1,000	1,200	980	550	1,400	970	--[3]	--	--[3]	--	--	--	--	--	--	--	--	--	--	--	22,075
Selenium	1.7	<1.1	3.1 *	2.2 *	<4.9 *	2.3 *	<4.8 *	<1.2 *	3.4 *	1.1 *	10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
Silver	<2.3 *	<0.55	<2.5 *	<2.5 *	<2.5 *	<2.4 *	<2.4 *	<0.62	<2.4 *	<2.7 *	10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
Sodium	600	150	1,100	620	460	510	610	150	540	380	--[3]	--	--[3]	--	--	--	--	--	--	--	--	--	--	--	8,300
Thallium	7.6	1.3	4.9 *	4.9 *	<4.9 *	<4.9 *	<4.8 *	1.7 *	<4.7	6.0 *	160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
Vanadium	17	11	6.2	6.6	21	16	28	7.5	26	9.7	14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
Zinc	83	27	4.1	21	160 *	93	180 *	20	85	19	610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

TABLE NO. 4 (24 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB120 (0-3)	SB121 (0-3)	SB122 (0-3)	SB122 (15-17.5)	SB123 (0-3)	SB123 (5-7.5)	SB125 (0-3)	SB125 (7.5-10)	SB126 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)													Tier 3 Background Conc. in Soils at 95th Percentile[1]
										Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values									
															pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0		
Collection Date	2/3/25	2/3/25	2/3/25	2/3/25	2/3/25	2/3/25	2/4/25	2/4/25	2/4/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
pH	**8.95**	**10.8**	**8.24**	**8.39**	**9.63**	**10.2**	**8.15**	**8.83**	**9.60**																
Aluminum	5,170	32,800	8,760	577	5,180	4,240	9,180	4,530	8,410	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
Antimony	0.343	<3.05	19.3 *	0.0945	1.04	23.7 *	0.859	<0.610	<0.610	820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
Arsenic	6.7	0.414	11.9	1.12	**14.7 ***	10.8	**20.3**	6.82	3.31	13[2]	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
Barium	94.6	364	156	2.19	108	31.9	124	43.1	51.6	140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
Beryllium	0.559	5.08	1.7	0.038	1.18	0.226	2.02	0.327	0.454	4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
Cadmium	0.961	0.0534	1.92	<0.013	3.51 *	3.51 *	7.95	3.87	3.21 *	2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
Calcium	85,500	235,000	64,300	27,400	44,500	26,100	37,600	30,900	74,100	--[3]	--	--[3]	--	--	--	--	--	--	--	--	--	--	--	21,520
Chromium	19	31.2	103 *	1.86	57.9 *	26	15	227 *	594 *	6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
Cobalt	5.58	<0.00882	5.09	1.33	7.14	5.71	9.3	5.89	3.89	120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
Copper	61.9 *	1.74	157	1.63	81.5 *	186 *	96.5	46.4 *	19.4	82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
Cyanide	0.302	21.1 *	9.97	0.018	0.462	0.132	8.4	0.23	0.30	41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
Iron	20,600	5,360	65,100 *	2,930	87,000 *	118,000 *	120,000 *	118,000 *	111,000 *	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
Lead	195	13	164 *	1.68	138 *	188 *	277 *	47.8	15.7	800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
Magnesium	33,200	17,000	9,430	13,800	11,200	6,330	3,590	12,300	33,600	--[3]	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
Manganese	673	**8,520**	**4,280 ***	130	3,510 *	**5,720 ***	3,320 *	**9,310 ***	**26,100 ***	41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
Mercury	**0.7 ***	0.0164	0.0931	0.00853	**0.111**	0.0331	0.0681	<0.0530	<0.0485	610	16	61	0.1[5]	3.3	16	6.4	32	8	40	--	--	--	--	0.08
Nickel	15.8	3.52	44.9	1.99	13.7	10.2	20.6	9.09	9.97	41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
Potassium	758	1,690	629	113	627	437	628	339	345	--[3]	--	--[3]	--	--	--	--	--	--	--	--	--	--	--	22,075
Selenium	0.382	4.22	1.35	0.133	1.11 *	1.11 *	0.963	1.84	4.67 *	10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
Silver	0.379	0.515	0.567	0.0246	0.583	0.595	0.883	0.831	1.6 *	10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
Sodium	253	1,190	355	89.6	350	595	460	145	149	--[3]	--	--[3]	--	--	--	--	--	--	--	--	--	--	--	8,300
Thallium	0.812	3.65	1.19	0.263	1.58 *	2.4 *	<1.14	2.48	6.8 *	160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
Vanadium	13.9	8.15	37.2	2.72	36.7	54.3	21.4	78.2	158 *	14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
Zinc	237 *	9.12	572	15.3	914 *	107	4,100	439	58.3	610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
Shaded/Italicized cell indicates a detection limit that exceeds an applicable Tier 1 SRO, or does not have a pH-specific soil migration Tier 1 SRO and is above the indicated background concentration
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration
(4) The SROs for the outdoor inhalation and construction worker inhalation exposure routes, and the soil saturation limit only apply to sites where elemental mercury is a contaminant of concern. There are no known potential sources of elemental mercury at the subject property; thus, the inhalation SROs and soil saturation limit for mercury are not applicable to the subject property

TABLE NO. 4 (25 of 25)
Soil Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	B126 (5-7.5)	B127 (0-3)	B127 (5-7.5)	SB128 (0-3)	SB128 (7.5-10)	SB129 (0-3)	SB129 (5-7.5)	SB143 (0-3)	SB143 (15-17.5)	SB144 (0-3)	SB144 (12.5-15)	SB145 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Tier 3 Background Conc. in Soils at 95th Percentile(1)
													Industrial - Commercial		Construction Worker		pH-Specific Migration to Groundwater Values								
																	pH = 6.9 - 7.24		pH = 7.25 - 7.74		pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0	
Collection Date	2/4/25	2/4/25	2/4/25	2/10/25	2/10/25	2/10/25	2/10/25	2/18/25	2/18/25	2/18/25	2/18/25	4/8/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	
pH	**7.59**	**11.4**	**10.8**	**11.0**	**10.7**	**8.36**	**9.94**	**8.86**	**11.3**	**9.66**	**7.82**	**8.34**															
Aluminum	2,540	27,400	10,100	17,100	13,600	13,300	6,670	12,400	15,900	16,000	6,000	7,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	61,500
Antimony	37.2 *	<0.610	<0.604	2.23	2.14	**254 ***	3.79	6.73	4.17 *	6.08 *	<0.610	<2.1	820	--	82	--	5	20	5	20	5	20	5	20	5	20	4.0†
Arsenic	**26.3**	5.2	7.57	6.01	**25.5 ***	**15.9**	10.5	12.4	**25.4**	5.53	11.6	5.6	13(2)	1,200	61	25,000	29	120	30	120	31	120	32	130	33	130	11.9
Barium	124	334	120	164	132	186	73.2	140	194	155	73.3	130	140,000	910,000	14,000	870,000	1,700	1,700	1,800	1,800	2,100	2,100	--	--	--	--	792
Beryllium	0.561	3.91 *	1.54	2.43 *	1.25	2.37 *	1.16	1.89 *	1.83 *	2.92 *	1.16	1.1	4,100	2,100	410	44,000	140	17,000	1,000	130,000	8,000	1,000,000	--	--	--	--	1.6
Cadmium	11.3	0.88 *	0.983	0.377	0.633	0.322	0.598	0.979 *	5.69 *	0.677	3.58 *	1.3 *	2,000	2,800	200	59,000	11	110	59	590	430	4,300	--	--	--	--	0.8
Calcium	7,660	170,000	70,000	144,000	87,500	66,400	57,300	65,500	40,500	145,000	6,250	160,000	--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	21,520
Chromium	17	154 *	19.6	383 *	**525 ***	**2,170 ***	220 *	**629 ***	16.2	**504 ***	5.1	190 *	6,100	420	4,100	690	36	--	32	--	28	--	24	--	21	--	54.0
Cobalt	9	1.62	2.83	2.94	4.39	16.6 *	6.01	121 *	10.5	4.52	8.02	3.1	120,000	--	12,000	--	--	--	--	--	--	--	--	--	--	--	15.4
Copper	223	24.2	26.5	75.9	172	281	33.3	455 *	20.6	104 *	12.6	35	82,000	--	8,200	--	200,000	200,000	330,000	330,000	330,000	330,000	--	--	--	--	44.9
Cyanide	0.21	24 *	3.1	1.51 *	2.78 *	25.3	1.75 *	5.38	3.54	**5.46 ^∞**	0.937	0.42	41,000	--	4,100	--	40	120	40	120	40	120	40	120	40	120	0.51†
Iron	177,000 *	47,100 *	33,800	44,300 *	59,600 *	94,000 *	172,000 *	132,000 *	316,000 ^∞	58,400 *	178,000 *	38,000 *	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35,700
Lead	634	64.6 *	66.9	137 *	261 *	**1,160**	45.1	274	276 *	176 *	206	170	800	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	282	3,760	45.1
Magnesium	1,430	11,700	22,600	29,800	17,300	4,890	9,630	11,600	4,250	32,900	725	48,000	--(3)	--	730,000	--	--	--	--	--	--	--	--	--	--	--	10,450
Manganese	2,940 *	**8,010**	3,320	**5,060**	**6,910**	5,390 *	**19,300 ***	**7,310 ***	**5,160 ***	**7,720 ***	**4,190 ***	4,100 *	41,000	91,000	4,100	8,700	--	--	--	--	--	--	--	--	--	--	1,924
Mercury	<0.0502	**0.253 ***	0.0911	**0.144 ***	**0.155 ***	0.0702	0.0192	0.077	**0.408 ***	**0.425 ***	0.06	**0.47 ***	610	16	61	0.1(5)	3.3	16	6.4	32	8	40	--	--	--	--	0.08
Nickel	9.97	16.2	13.8	72.2	129 *	779	8.14	372 *	4.66	135 *	4.42	23	41,000	21,000	4,100	440,000	180	3,500	700	14,000	3,800	76,000	--	--	--	--	23.3
Potassium	457	1,420	707	900	1,270	1,410	811	1,090	1,510	1,120	1,050	710	--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	22,075
Selenium	0.704	2.98 *	1.32	3.28 *	4.47 *	3.22 *	11.9 *	4.27 *	5.45 *	3.7 *	4.24 *	1.3	10,000	--	1,000	--	4.5	4.5	3.3	3.3	2.4	2.4	1.8	1.8	1.3	1.3	0.7
Silver	0.903	0.595	0.343	0.939	1.53 *	0.978 *	2.79 *	0.688	0.421	0.845	0.402	<2.6	10,000	--	1,000	--	13	--	39	--	110	--	--	--	--	--	<1
Sodium	148	630	338	473	649	440	250	408	272	570	522	310	--(3)	--	--(3)	--	--	--	--	--	--	--	--	--	--	--	8,300
Thallium	<1.15	4.27 *	1.72	6.78 *	10.1 *	7.21 *	25.6 *	9.48	3.06 *	11.3 *	5.96	16	160	--	160	--	3	30	3.4	34	3.8	38	4.4	44	4.9	49	0.7
Vanadium	28.6	52.7	15.1	58.6	192 *	31.4	125 *	39.8	33.8	94.5	18	67	14,000	--	1,400	--	980	--	980	--	980	--	980	--	980	--	104
Zinc	2,560	96.9	229	147 *	216 *	201 *	124	245 *	566 *	194 *	529 *	180 *	610,000	--	61,000	--	7,500	15,000	16,000	32,000	53,000	110,000	--	--	--	--	141

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B, C and D)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO (the Tier 1 SROs for the soil component of Class I groundwater ingestion are not applicable)
Shaded/Italicized cell indicates a detection limit that exceeds an applicable Tier 1 SRO, or does not have a pH-specific soil migration Tier 1 SRO and is above the indicated background concentration
* indicates the TCLP or SPLP test result demonstrates compliance with the migration to groundwater exposure route (see Table No. 5)
^∞ indicates a total concentration that is above the indicated background concentration (used in the absence of a pH-specific soil migration Tier 1 SRO), and the TCLP or SPLP test result is above the applicable objective (see Table No. 5), or no TCLP or SPLP test result is available
^ indicates the value is above a Tier 1 SRO, but is less than or equal to the background at the 95th percentile
< indicates not detected at stated detection limits
-- indicates value not available
(1) Proposed background at 95th Percentile unless indicated otherwise; † indicates background concentration pursuant to 35 IAC 742 (Appendix A, Table G)
(2) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for the soil ingestion exposure route
(3) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration
(4) The SROs for the outdoor inhalation and construction worker inhalation exposure routes, and the soil saturation limit only apply to sites where elemental mercury is a contaminant of concern. There are no known potential sources of elemental mercury at the subject property; thus, the inhalation SROs and soil saturation limit for mercury are not applicable to the subject property

TABLE NO. 5 (1 of 17)
Soil Sample Analytical Results: TCLP/SPLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB1 (0-3)	SB1 (5-7.5)		SB2 (0-3)	SB2 (3-5)	SB3 (0-3)		SB3 (5-7.5)		SB4 (0-3)		SB5 (0-3)	SB6 (0-3)		SB6 (3-5)		SB7 (0-3)		SB8 (0-3)		SB9 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification(1)
Collection Date	8/28/24	8/28/24		8/28/24	8/28/25	8/28/24		8/28/24		8/28/24		8/28/24	8/29/24		8/29/24		8/29/24		8/29/24		8/29/24	Class I	Class II	
Method	SPLP	TCLP	SPLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP			
Antimony	--	--	--	--	--	0.0045	--	--	--	0.0062	~~0.0083~~	--	<0.0020	--	~~0.011~~	<0.0060	--	--	--	--	--	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	0.0063	--	--	--	--	<0.0050	--	--	--	--	--	--	--	<0.010	0.05	0.2	5
Barium	--	--	--	--	--	--	--	0.39	--	--	--	--	0.50	--	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	<0.0040	--	--	<0.0040	--	--	<0.0040	--	--	--	--	<0.0040	<0.0010	--	--	--	<0.0040	--	<0.0040	--	<0.0040	0.004	0.5	--
Cadmium	--	--	<0.0020	--	--	--	<0.0020	0.0013	--	--	--	--	<0.0010	--	<0.0050	--	--	--	--	--	--	0.005	0.05	1
Chromium	<0.010	<0.010	0.011	--	--	<0.010	~~0.17~~	<0.0050	--	--	--	--	<0.0050	--	--	--	~~0.15~~	0.012	0.017	--	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--	--	--	--	--	1.0	1.0	--
Copper	--	--	--	--	--	--	<0.010	--	--	0.037	--	--	<0.0020	--	0.50	--	0.017	--	--	--	0.032	0.65	0.65	--
Iron	--	--	--	--	4.2	--	0.24	~~37~~	<0.010	**11**	~~54~~	--	<0.10	<0.010	~~21~~	0.46	3.7	--	--	--	3.3	5.0	5.0	--
Lead	--	--	--	--	--	<0.0075	<0.0075	~~0.17~~	<0.0010	0.16 *	~~0.77~~	--	<0.0010	--	~~0.12~~	0.0020	<0.038	--	--	--	--	0.0075	0.1	5
Manganese	--	--	0.12	0.80	--	--	0.040	--	0.42	--	--	0.14	--	0.0082	--	0.024	~~5.1~~	0.40	~~5.9~~	0.16	--	0.15	10.0	--
Mercury	--	--	--	--	--	--		<0.0020 H	--	--	--	--	<0.0020 H	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	--	--	--	--	--	--	<0.010	--	--	--	--	--	~~0.016~~	<0.0020	--	--	0.010	--	--	--	<0.010	0.1	2.0	--
Selenium	--	--	--	--	<0.020	--	<0.020	<0.0050	--	--	--	<0.020	<0.0050	--	--	--	<0.020	--	<0.020	--	<0.020	0.05	0.05	1
Silver	--	--	<0.010	<0.010	--	--	<0.010	<0.0010	--	<0.025	--	<0.010	<0.0010	--	--	--	--	--	<0.010	--	<0.010	0.05	--	5
Thallium	<0.00057	--	<0.00057	<0.00057	<0.00057	--	<0.00057	<0.0020	--	--	--	<0.00057	<0.0020	--	<0.0020	--	<0.00057	--	<0.00057	--	<0.00057	0.002	0.02	--
Vanadium	--	--	--	--	--	0.030	~~0.11~~	--	--	--	--	--	0.024	--	--	--	--	--	--	--	--	0.049	0.1	--
Zinc	<0.020	--	<0.020	--	--	--	<0.020	--	--	--	--	--	<0.020	--	1.6	--	--	--	--	--	0.22	5.0	10	--

TABLE NO. 5 (2 of 17)
Soil Sample Analytical Results: TCLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB10 (0-3)		SB10 (5-7.5)		SB11 (0-3)		SB11 (5-7.5)	SB12 (0-3)			SB13 (0-3)			SB13 (5-7.5)	SB14 (0-3)		SB14 (10-12.5)		SB15 (0-3)		SB15 (7.5-10)		Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification(1)
Collection Date	8/29/24		8/29/24		8/29/24		8/29/24	8/29/24		2/13/25	8/29/24		2/13/25	8/29/24	8/29/24		8/29/24		8/29/24		8/29/24		Class I	Class II	
Method	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	TCLP	TCLP	SPLP	TCLP	TCLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP			
Antimony	--	--	0.014	--	--	--	--	--	--	--	--	--	--	--	0.0035	--	--	--	--	--	--	--	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0050	<0.0050	--	--	--	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	--	--	--	--	--	0.71	0.35	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	--	--	--	--	<0.0040	--	<0.0040	<0.0040	--	--	<0.00027	--	--	<0.0010	<0.0010	--	<0.0040	--	<0.0040	--	<0.0040	--	0.004	0.5	--
Cadmium	--	--	0.0044	--	0.033	--	--	<0.0020	--	--	0.00021	--	--	0.0013	0.0027	--	0.0021	--	<0.0020	--	<0.0020	--	0.005	0.05	1
Chromium	--	--	--	--	--	--	--	<0.010	--	--	0.0026	--	--	<0.0050	<0.0050	--	--	--	--	--	<0.010	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.0	--
Copper	--	--	0.042	--	0.012	--	0.022	<0.010	--	--	<0.65	<0.65	--	0.39	0.0024	--	--	--	0.020	--	--	--	0.65	0.65	--
Iron	--	--	--	--	3.2	--	4.0	<0.20	--	--	<0.047	--	--	<0.10	0.17	--	--	--	4.9	--	3.5	--	5.0	5.0	--
Lead	0.12 *	~~0.16~~	~~0.056~~	<0.0075	0.014 *	~~0.019~~	--	<0.038	--	--	<0.00045	--	--	0.0035	0.0025	--	<0.038	--	<0.038	--	~~0.044~~	<0.0075	0.0075	0.1	5
Manganese	--	0.26	~~2.8~~	<0.010	~~28~~	0.16	0.21	~~3.4~~	0.24	--	--	<0.015	--	--	~~3.6~~	0.22	--	0.021	~~4.8~~	0.43	--	<0.010	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	--	<0.00040	--	--	<0.00040	<0.0020 H	<0.0020 H	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	--	--	--	--	0.026	--	--	<0.010	--	--	0.0063	--	--	--	0.0073	--	--	--	--	--	--	--	0.1	2.0	--
Selenium	<0.020	--	<0.020	--	0.024	--	<0.020	<0.020	--	--	0.0020	--	--	<0.0050	<0.0050	--	0.026	--	<0.020	--	<0.020	--	0.05	0.05	1
Silver	--	--	<0.010	--	<0.010	--	<0.010	<0.010	--	--	<0.000053	--	--	<0.0010	<0.0010	--	0.022	--	0.013	--	<0.010	--	0.05	--	5
Thallium	--	--	0.00065	--	<0.00057	--	<0.00057	<0.00057	--	--	0.00089	--	--	--	<0.0020	--	--	--	--	<0.00057	<0.00057	--	0.002	0.02	--
Vanadium	--	--	--	--	--	--	--	--	--	--	**0.12**	~~0.13~~	--	--	--	--	--	--	--	--	--	--	0.049	0.1	--
Zinc	--	--	0.47	--	4.1	--	0.093	0.20	--	--	<0.015	--	--	0.15	0.13	--	0.21	--	0.11	--	0.048	--	5.0	10	--

Notes: Results listed in mg/L (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table A)
Shaded/Bolded cell indicates value exceeds the applicableTier 1 SRO
~~Strikethrough~~ text indicates a value that is replaced by the corresponding SPLP or TCLP test result
* the total concentration demonstrates compliance with the pH-specific Tier 1 SRO for the migration to groundwater exposure route
H indicates the analysis was performed past the specified hold time
< Indicates not detected at stated detection limits
-- Indicates value not available (the sample was not analyzed for the parameter based on total metals results, there is no SRO available, or the hazardous threshold characteristic is not applicable)
(1) Pursuant to 35 IAC 721.124 & 40 CFR 261.24; applies only to TCLP RCRA metal test results
(2) Value represents the non-TACO GRO provided by the Illinois EPA (March 31, 2016)

TABLE NO. 5 (3 of 17)
Soil Sample Analytical Results: TCLP/SPLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB16 (0-3)		SB16 (3-5)		SB17 (0-3)		SB18 (0-3)		SB18 (7.5-10)	SB19 (0-3)		SB19 (5-7.5)	SB20 (0-3)		SB20 (3-5)		SB21 (0-3)		SB21 (12.5-15)		SB22 (0-3)	SB23 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification[1]
Collection Date	8/29/24		8/29/24		8/30/24		8/30/24		8/30/24	8/30/24		8/30/24	8/30/24		8/30/24		8/30/24		8/30/24		8/30/24	8/30/24	Class I	Class II	
Method	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP			
Antimony	--	--	--	--	~~0.0014~~	<0.0013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	~~2.2~~	<0.50	--	--	2.0	2.0	100
Beryllium	<0.0040	--	<0.0040	--	<0.0040	--	<0.00027	--	--	--	--	--	<0.0040	--	<0.0040	--	<0.0040	--	<0.0040	--	<0.0040	--	0.004	0.5	--
Cadmium	0.0029	--	0.0045	--	<0.0020	--	0.00011	--	--	--	--	--	<0.0020	--	<0.0020	--	--	--	--	--	--	--	0.005	0.05	1
Chromium	<0.010	--	<0.010	--	<0.010	--	0.033	--	--	--	--	--	0.016	--	<0.010	--	<0.010	--	--	--	--	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.0	--
Copper	0.010	--	<0.010	--	--	--	--	--	--	--	--	--	--	--	<0.010	--	--	--	--	--	--	--	0.65	0.65	--
Iron	1.7	--	2.2	--	3.6	--	<0.047	--	<0.20	3.3	--	--	1.0	--	0.56	--	2.9	--	--	--	--	4.5	5.0	5.0	--
Lead	<0.038	--	<0.038 *	--	<0.038	--	<0.00045	--	--	<0.038	--	--	<0.038	--	--	--	<0.038	--	--	--	--	--	0.0075	0.1	5
Manganese	--	<0.010	--	<0.010	~~8.0~~	0.22	--	0.056	--	--	0.63	--	--	0.054	~~6.6~~	1.2	--	1.1	9.3	--	--	--	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	0.016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	2.0	--
Selenium	<0.020	--	<0.020	--	<0.020	--	0.0013	--	<0.020	--	--	<0.020	<0.020	--	<0.020	--	<0.020	--	--	--	--	--	0.05	0.05	1
Silver	0.018	--	0.018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05	--	5
Thallium	0.00088	--	0.0028	--	<0.00057	--	0.00055	--	<0.00057	<0.00057	--	<0.00057	<0.00057	--	<0.00057	--	<0.00057	--	--	--	--	<0.00057	0.002	0.02	--
Vanadium	--	--	--	--	0.010	--	~~0.29~~	<0.050	--	<0.010	--	--	0.040	--	--	--	<0.047	--	--	--	--	--	0.049	0.1	--
Zinc	0.17	--	0.37	--	0.090	--	--	--	<0.020	0.29	--	--	--	--	0.039	--	--	--	--	--	--	0.076	5.0	10	--

TABLE NO. 5 (4 of 17)
Soil Sample Analytical Results: TCLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB23 (5-7.5)	SB24 (0-3)		SB24 (7.5-10)		SB25 (0-3)		SB25 (3-5)		SB26 (0-3)		SB26 (7.5-10)		SB27 (0-3)	SB27 (5-7.5)	SB28 (0-3)		SB28 (10-12.5)	SB29 (0-3)		SB29 (7.5-10)		Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification[1]
Collection Date	8/30/24	9/3/24		9/3/24		9/3/24		9/3/24		9/3/24		9/3/24		9/3/24	9/3/24	9/3/24		9/3/25	9/3/24		9/3/24		Class I	Class II	
Method	TCLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP			
Antimony	--	--	--	--	--	0.0093	--	0.0092	--	0.0067	--	--	--	--	<0.0013	<0.0013	--	--	--	<0.0013	--	--	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	--	--	0.0068	--	--	--	--	--	--	--	--	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	--	0.086	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	<0.0040	<0.0040	--	<0.0040	--	<0.0040	--	<0.0040	--	<0.0010	--	--	--	<0.0040	<0.0040	<0.0040	--	<0.0040	--	<0.0040	<0.0040	--	0.004	0.5	--
Cadmium	0.0033	<0.0020	--	<0.0050	--	<0.0020	--	<0.0020	--	<0.0010	--	--	--	--	<0.0020	<0.0050	--	--	--	--	--	--	0.005	0.05	1
Chromium	<0.010	--	--	<0.025	--	<0.010	--	--	--	<0.0050	--	--	--	--	--	<0.025	--	--	--	--	0.034	--	0.1	1.0	5
Cobalt	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.0	--
Copper	<0.010	--	--	<0.025	--	0.030	--	0.043	--	<0.0020	--	--	--	--	--	--	--	--	--	--	--	--	0.65	0.65	--
Cyanide	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.053		<0.053		0.2	0.6	--
Iron	1.5	2.1	--	<0.20	--	2.2	--	2.6	--	<0.10	--	--	<0.20	--	4.4	<0.20	--	3.9	--	4.2	~~7.6~~	4.9	5.0	5.0	--
Lead	<0.038	<0.038	--	<0.0075	--	~~0.037~~	0.029	0.039	~~0.051~~	<0.0010	--	--	--	--	--	--	--	--	<0.038	~~0.026~~	0.088		0.0075	0.1	5
Manganese	--	--	0.060	~~5.4~~	1.4	--	0.11	--	--	~~23~~	0.35	--	<0.015	--	0.13	~~3.2~~	0.47	0.18	~~3.1~~	0.41	~~5.7~~	0.56	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	--	<0.0020 H	--	--	--	--	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	0.012	--	--	<0.025	--	0.016	--	<0.010	--	<0.0050	--	--	--	--	--	--	--	--	--	0.022	--	--	0.1	2.0	--
Selenium	<0.020	<0.020	--	<0.050	--	<0.020	--	<0.020	--	<0.0010	--	--	<0.050	<0.020	<0.020	<0.050	--	<0.020	--	<0.020	<0.020	--	0.05	0.05	1
Silver	<0.010	<0.010	--	<0.025	--	<0.010	--	<0.010	--	<0.0020	--	--	<0.050	--	<0.010	<0.025	--	<0.010	--	--	<0.010	--	0.05	--	5
Thallium	<0.00057	<0.00057	--	<0.00057	--	<0.00057	--	<0.00057	--	<0.0020	--	<0.0020	--	<0.00057	<0.00057	<0.00057	--	<0.00057	--	<0.00057	<0.00057	--	0.002	0.02	--
Vanadium	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.049	0.1	--
Zinc	0.40	0.054	--	0.15	--	0.17	--	0.090	--	--	--	--	--	--	--	--	--	--	--	--	0.14	--	5.0	10	--

Notes: Results listed in mg/L (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table A)
Shaded/Bolded cell indicates value exceeds the applicableTier 1 SRO
* the total concentration demonstrates compliance with the pH-specific Tier 1 SRO for the migration to groundwater exposure route
H indicates the analysis was performed past the specified hold time
< Indicates not detected at stated detection limits
-- Indicates value not available (the sample was not analyzed for the parameter based on total metals results, there is no SRO available, or the hazardous threshold characteristic is not applicable)
(1) Pursuant to 35 IAC 721.124 & 40 CFR 261.24; applies only to TCLP RCRA metal test results
(2) Value represents the non-TACO GRO provided by the Illinois EPA (March 31, 2016)

TABLE NO. 5 (5 of 17)
Soil Sample Analytical Results: TCLP/SPLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB30 (0-3)		SB30 (12.5-15)	SB31 (0-3)		SB31 (7.5-10)	SB32 (0-3)	SB32 (5-7.5)		SB33 (0-3)		SB33 (5-7.5)		SB34 (0-3)		SB35 (0-3)		SB35 (7.5-10)		SB36 (0-3)		Tier 1 Soil Remediation Objectives (Tier 1 SROs)		TCLP Limit for Hazardous Waste Classification[1]
																						Migration to Groundwater		
Collection Date	9/3/24		9/3/24	9/4/24		9/4/24	9/4/24	9/4/24		9/4/24		9/4/24		9/4/24		9/4/24		9/4/24		9/4/24		Class I	Class II	
Method	TCLP	SPLP	TCLP	TCLP	SPLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP			
Antimony	--	--	--	0.0031	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0020	--	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.010		--	--	--	--	<0.0050	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.32	--	2.0	2.0	100
Beryllium	<0.0040	--	<0.0040	0.024		--	<0.0040	<0.0040	~~0.0043~~	<0.0040	--	<0.0040	--	<0.0040	--	<0.0040	--	<0.0040	--	<0.0010	--	0.004	0.5	--
Cadmium	<0.0020	--	--	--	--	--	--	--	<0.0020	--	--	<0.0020	--	<0.0020	--	<0.0020	--	<0.0020	--	<0.0010	--	0.005	0.05	1
Chromium	<0.010	--	--	0.042	--	--	--	--	--	<0.010	--	<0.010	--	<0.010	--	0.012	--	<0.010	--	0.019	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0020	--	1.0	1.0	--
Copper	--	--	--	--	--	--	--	--	0.39	<0.010	--	--	--	<0.010	--	<0.010	--	<0.010	--	0.0031	--	0.65	0.65	--
Iron	2.6	--	--	--	--		--	1.5	~~70~~	<0.20	--	<0.20	--	0.22	--	1.2	--	<0.20	--	0.26	--	5.0	5.0	--
Lead	--	--	--	--	--	--	--	--	--	<0.0075	--	--	--	<0.0075	--	<0.0075	--	--	--	<0.0010	--	0.0075	0.1	5
Manganese	~~9.9~~	0.72	0.024 H	--	--	--	0.045	~~13~~	6.4	--	0.20	--	0.36	--	0.53	--	0.43	--	0.42	--	<0.0035	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0020 H	--	0.002	0.01	0.2
Nickel	0.012	--	--	<0.025	--	--	--	--	--	<0.010	--	--	--	--	--	0.027	--	--	--	0.051	--	0.1	2.0	--
Selenium	<0.020	--	<0.020	<0.050	--	--	<0.020	--	<0.020	<0.020	--	<0.020	--	<0.020	--	<0.020	--	<0.020	--	<0.0050	--	0.05	0.05	1
Silver	<0.010	--	<0.010	<0.025	--	--	<0.010	--	0.020	<0.010	--	~~0.068~~	<0.010	0.015	--	--	--	0.017	--	<0.0010	--	0.05	--	5
Thallium	<0.00057	--	<0.00057 H	<0.00057	--		<0.00057	--	0.00082	<0.00057	--	<0.00057	--	<0.00057	--	<0.00057	--	<0.00057	--	<0.0020	--	0.002	0.02	--
Vanadium	--	--	--	--	--	--	--	--	--	~~0.094~~	0.062	0.026	--	0.013	--	0.035	--	0.021	--	--	--	0.049	0.1	--
Zinc	--	--	--	--	--	--	--	--	--	--	--	--	--	0.032	--	0.044	--	0.030	--	<0.020	--	5.0	10	--

TABLE NO. 5 (6 of 17)
Soil Sample Analytical Results: TCLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB36 (5-7.5)		SB37 (0-3)		SB37 (12.5-15)		SB38 (0-3)		SB38 (12.5-15)	SB39 (0-3)		SB39 (7.5-10)	SB40 (0-3)		SB40 (5-7.5)		SB41 (0-3)	SB41 (5-7.5)		SB42 (0-3)		SB42 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)		TCLP Limit for Hazardous Waste Classification[1]
																							Migration to Groundwater		
Collection Date	9/4/24		9/4/24		9/4/25		9/4/24		9/4/25	9/4/24		9/4/24	9/4/24		9/4/24		9/4/24	9/4/24		9/4/24		9/4/25	Class I	Class II	
Method	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	TCLP	TCLP	SPLP	TCLP	SPLP	TCLP	TCLP	SPLP	TCLP	SPLP	SPLP			
Antimony	0.0025	--	--	--	--	<0.0013	--	--	--	--	--	0.0021	--	--	--	--	--	--	--	0.023	~~0.060~~	--	0.006	0.024	--
Arsenic	0.0015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	<0.0040	--	<0.0040	--	--	--	<0.0040	--	--	--	--	<0.0040	<0.0040	--	--	--	<0.0040	<0.0040	--	<0.0010	--	<0.0040	0.004	0.5	--
Cadmium	0.00027	--	<0.0020	--	--	--	<0.0020	--	--	<0.0020	--	--	<0.0020	--	<0.0020	--	<0.0020	<0.0020	--	0.0049	--	--	0.005	0.05	1
Chromium	0.0031	--	<0.010	--	--	--	<0.010	--	--	0.020	--	<0.010	<0.010	--	<0.010	--	0.022	<0.010	--	<0.0050	--	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.0	--
Copper	<0.0017	--	<0.010	--	--	--	<0.010	--	--	0.041	--	<0.010	<0.010	--	<0.010	--	--	--	--	0.013	--	--	0.65	0.65	--
Iron	<0.047	--	<0.20	--	<0.20	~~7.6~~	0.28	--	--	<0.20	--	--	<0.20	--	0.25	--	--	0.32	--	<0.10	~~8.7~~	--	5.0	5.0	--
Lead	<0.00045	--	<0.0075	--	--	--	--	--	--	<0.0075	--	--	<0.0075	--	--	--	<0.0075	<0.0075	--	0.33	~~0.48~~	--	0.0075	0.1	5
Manganese	--	<0.015	--	2.9	--	--	--	2.9	--	--	0.046	--	--	0.28	--	0.011	--	--	0.12	--	0.32	--	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	0.022	--	--	--	--	--	<0.010	--	--	<0.010	--	<0.010	0.14	--	0.14	--	<0.010	<0.010	--	0.050	--	--	0.1	2.0	--
Selenium	0.0019	--	<0.020	--	--	<0.020	<0.020	--	--	<0.020	--	<0.020	<0.020	--	<0.020	--	<0.020	<0.020	--	<0.0050	--	--	0.05	0.05	1
Silver	<0.00053	--	--	--	--	--	--	--	--	--	--	--	0.020	--	0.042	--	--	0.011	--	<0.0010	--	--	0.05	--	5
Thallium	0.00071	--	<0.00057	--	--	<0.00057	--	--	<0.00057	<0.00057	--	0.00086	<0.00057	--	<0.00057	--	--	<0.00057	--	<0.0020	--	--	0.002	0.02	--
Vanadium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.049	0.1	--
Zinc	<0.015	--	--	--	--	--	--	--	--	0.045	--	--	0.032	--	0.029	--	<0.020	0.032	--	--	--	--	5.0	10	--

Notes: Results listed in mg/L (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table A)
Shaded/Bolded cell indicates value exceeds the applicableTier 1 SRO
* the total concentration demonstrates compliance with the pH-specific Tier 1 SRO for the migration to groundwater exposure route
H indicates the analysis was performed past the specified hold time
< Indicates not detected at stated detection limits
-- Indicates value not available (the sample was not analyzed for the parameter based on total metals results, there is no SRO available, or the hazardous threshold characteristic is not applicable)
(1) Pursuant to 35 IAC 721.124 & 40 CFR 261.24; applies only to TCLP RCRA metal test results
(2) Value represents the non-TACO GRO provided by the Illinois EPA (March 31, 2016)

TABLE NO. 5 (7 of 17)
Soil Sample Analytical Results: TCLP/SPLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB43 (0-3)	SB43 (10-12.5)		SB44 (0-3)	SB44 (5-7.5)		SB45 (0-3)		SB45 (5-7.5)	SB46 (0-3)		SB46 (3-5)		SB47 (0-3)		SB47 (7.5-10)		SB48 (0-3)	SB48 (5-7.5)		Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification(1)
Collection Date	9/4/24	9/4/24		9/5/24	9/5/24		9/5/24		9/5/24	9/5/24		9/5/24		9/5/24		9/5/24		9/5/24	9/5/24			Class I	Class II	
Method	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	TCLP	SPLP			
Antimony	--	--	--	--	--	--	~~0.12~~	0.0071	--	--	--	0.0058	--	0.0037	--	--	--	--	--	--	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	<0.0040	--	--	--	--	--	--	--	--	--	--	--	--	<0.0040	--	<0.0040	--	--	<0.00027	--	0.004	0.5	--
Cadmium	--	--	--	--	--	--	--	--	--	--	--	<0.0050	--	<0.0020	--	<0.0020	--	--	0.00048	--	0.005	0.05	1
Chromium	--	--	--	<0.010	--	--	--	--	--	0.043	--	0.038	--	<0.010	--	<0.010	--	<0.010	0.036	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--	--	1.0	1.0	--
Copper	--	<0.025	--	--	--	--	--	--	--	--	--	--	--	<0.010	--	<0.010	--	--	0.0080	--	0.65	0.65	--
Iron	--	--	0.41	--	--	1.1	0.49	--	<0.20	~~5.6~~	<0.20	~~9.3~~	0.30	<0.20	--	0.54	--	--	<0.047	--	5.0	5.0	--
Lead	--	--	--	--	<0.0075	~~0.0083~~	0.059	--	--	~~0.029~~	<0.0075	<0.0075	--	<0.038	--	<0.038	--	<0.0075	<0.00045	--	0.0075	0.1	5
Manganese	--	--	--	--	--	--	--	--	<0.010	--	<0.010	--	<0.025	--	<0.010	--	<0.010	--	--	<0.0026	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	--	--	--	--	--	--	--	--	--	0.042	--	~~0.34~~	<0.025	0.036	--	0.017	--	<0.010	0.0074	--	0.1	2.0	--
Selenium	<0.020	--	--	--	--	--	--	--	--	<0.050	--	<0.050	--	<0.020	--	<0.020	--	--	0.0018	--	0.05	0.05	1
Silver	<0.010	--	--	--	--	--	--	--	--	--	--	<0.025	--	<0.010	--	<0.010	--	--	<0.00053	--	0.05	--	5
Thallium	<0.00057	--	<0.00057	--	--	--	--	--	<0.00057	<0.0057	--	<0.0057	--	<0.00057	--	<0.00057	--	--	<0.00051	--	0.002	0.02	--
Vanadium	--	--	--	--	--	--	--	--	--	--	--	<0.025	--	0.012	--	<0.010	--	--	--	--	0.049	0.1	--
Zinc	--	--	--	--	0.065	--	--	--	--	--	--	--	--	0.056	--	0.19	--	0.074	<1.0	--	5.0	10	--

TABLE NO. 5 (8 of 17)
Soil Sample Analytical Results: TCLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB49 (0-3)	SB49 (10-12.5)		SB50 (0-3)		SB50 (7.5-10)		SB51 (0-3)		SB51 (5-7.5)		SB52 (0-3)		SB52 (7.5-10)		SB53 (0-3)		SB53 (10-12.5)	SB54 (0-3)		Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification(1)
Collection Date	9/5/25	9/5/24		9/5/24		9/5/24		9/5/24		9/5/24		9/5/24		9/5/24		9/5/24		9/5/24	9/5/24			Class I	Class II	
Method	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP			
Antimony	--	--	--	--	--	~~0.031~~	0.016	<0.0060	--	--	--	--	--	--	--	--	--	--	--	--	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	<0.050	--	--	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	<0.0040	--	--	<0.0040	--	--	--	--	--	--	--	<0.0040	--	--	--	<0.0040	--	<0.0040	--	--	0.004	0.5	--
Cadmium	<0.0020	--	--	<0.0020	--	<0.00050	--	--	--	--	--	--	--	--	--	0.0020	--	--	--	--	0.005	0.05	1
Chromium	<0.010	<0.010	--	<0.010	--	0.0051	--	~~0.15~~	<0.025	<0.010		<0.010	--	--	--	<0.010	--	--	<0.010	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	<0.025	--	--	--	--	--	--	<0.010	<0.010	--	--	--	--	1.0	1.0	--
Copper	<0.010	--	--	--	--	--	--	--	--	--	--	<0.010	--	--	--	<0.010	--	--	--	--	0.65	0.65	--
Iron	<0.20	<0.20	--	<0.20	--	~~20~~	0.20	~~18~~	2.1	<0.20	--	<0.20	--	--	<0.20	<0.20	--	--	<0.20	--	5.0	5.0	--
Lead	0.0075	--	--	--	--	~~0.083~~	0.00076	~~0.12~~	0.015	<0.0075	--	<0.0075	--	--	--	<0.0075	--	--	<0.0075	--	0.0075	0.1	5
Manganese	<0.010	--	<0.010	--	<0.010	--	0.0046	--	0.089	--	<0.010	--	<0.010	--	--	~~2.8~~	0.26	--	--	<0.010	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	<0.010	--	--	--	--	--	--	~~0.12~~	<0.025	--	--	<0.010	--	--	--	<0.010	--	--	--	--	0.1	2.0	--
Selenium	<0.010	<0.020	--	<0.020	--	<0.0025	--	<0.050	--	<0.020	--	<0.020	--	--	--	<0.020	--	--	<0.020	--	0.05	0.05	1
Silver	<0.010	--	--	<0.010	--	<0.00050	--	--	--	--	--	<0.010	--	--	--	<0.010	--	--	--	--	0.05	--	5
Thallium	<0.00057	<0.00057	--	<0.00057	--	<0.0020	--	<0.0020	--	<0.00057	--	<0.00057	--	--	--	<0.00057	--	--	<0.00057	--	0.002	0.02	--
Vanadium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.014	--	--	--	--	0.049	0.1	--
Zinc	--	--	--	<0.020	--	--	--	--	--	--	--	--	--	--	--	<0.020	--	--	--	--	5.0	10	--

Notes: Results listed in mg/L (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table A)
Shaded/Bolded cell indicates value exceeds the applicableTier 1 SRO
Shaded/Italicized cell indicates an elevated detection limit that exceeds the applicable Tier 1 SRO
* the total concentration demonstrates compliance with the pH-specific Tier 1 SRO for the migration to groundwater exposure route
H indicates the analysis was performed past the specified hold time
< Indicates not detected at stated detection limits
-- Indicates value not available (the sample was not analyzed for the parameter based on total metals results, there is no SRO available, or the hazardous threshold characteristic is not applicable)
(1) Pursuant to 35 IAC 721.124 & 40 CFR 261.24; applies only to TCLP RCRA metal test results
(2) Value represents the non-TACO GRO provided by the Illinois EPA (March 31, 2016)

TABLE NO. 5 (9 of 17)
Soil Sample Analytical Results: TCLP/SPLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB54 (10-12.5)	SB55 (0-3)		SB55 (5-7.5)	SB56 (0-3)		SB56 (5-7.5)	SB57 (0-3)		SB57 (7.5-10)		SB58 (0-3)		SB59 (0-3)	SB59 (7.5-10)	SB60 (0-3)		SB60 (7.5-10)		SB61 (0-3)		SB61 (17.5-19)	Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification[1]
Collection Date	9/5/24	9/5/24		9/5/24	9/6/24		9/6/24	9/6/24		9/6/24		9/6/24		9/6/24	9/6/24	9/6/24		9/6/24		9/6/24		9/6/24	Class I	Class II	
Method	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP			
Antimony	--	--	--	0.0013	--	--	--	<0.0020	<0.0020	--	<0.0013	--	--	--	--	--	--	--	--	0.0036	--	--	0.006	0.024	--
Arsenic	--	--	--	--	0.0024	--	--	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	0.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	--	<0.00027	--	--	<0.00027	--	--	<0.0010	--	--	--	<0.0040	--	<0.0040	--	<0.0040	--	<0.0040	--	<0.0040	--	<0.0040	0.004	0.5	--
Cadmium	--	<0.000077	--	--	0.00078	--	--	<0.0010	--	--	--	<0.0020	--	<0.0020	--	<0.0020	--	<0.0020	--	<0.0050	--	--	0.005	0.05	1
Chromium	--	0.037	--	--	0.0014	--	--	0.021	--	--	--	<0.010	--	--	--	<0.010	--	<0.010	--	<0.025	--	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.0	--
Copper	--	0.0060	--	--	0.16	--	--	<0.0020	--	--	--	--	--	0.010	--	0.010	--	0.012	--	0.039	--	--	0.65	0.65	--
Iron	0.75	<0.047	--	1.0	0.56	--	<0.20	--	--	~~8.9~~	0.61	<0.20	--	0.91	--	<0.20	--	<0.20	--	~~18~~	3.9	--	5.0	5.0	--
Lead	--	<0.00045	--	--	<0.00045	--	--	<0.0010	--	--	--	<0.0075	--	--	--	<0.0075	--	<0.0075	--	~~0.11~~	0.083	--	0.0075	0.1	5
Manganese	0.029	--	<0.0026	0.10	--	0.010	<0.010	--	<0.0050 H	--	<0.025	--	0.017	0.072	--	--	0.041	--	0.067	--	0.45	<0.010	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	<0.0020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	--	<0.040	--	--	0.0096	--	--	0.016	--	--	--	--	--	<0.010	--	0.028	--	0.019	--	0.11	~~0.21~~	--	0.1	2.0	--
Selenium	<0.020	0.0014	--	<0.020	<0.00089	--	<0.020	<0.0020	--	--	<0.050	<0.020	--	<0.020	<0.020	<0.020	--	<0.020	--	<0.050	--	<0.020	0.05	0.05	1
Silver	--	<0.000053	--	--	<0.000053	--	--	<0.0010	--	--	--	<0.010	--	<0.010		<0.010	--	<0.010	--	<0.025	--	<0.010	0.05	--	5
Thallium	<0.00057	<0.00051	--	<0.00057	<0.00051	--	--	<0.0020	--	--	<0.00057	<0.00057	--	<0.00057	<0.00057	<0.00057	--	<0.00057	--	<0.00057	--	<0.00057	0.002	0.02	--
Vanadium	--	~~0.16~~	0.020	--	--	--	--	0.099	~~0.17~~	--	--	--	--	--	--	--	--	--	--	--	--	--	0.049	0.1	--
Zinc	--	--	--	--	<0.015	--	--	--	--	--	--	<0.020	--	0.022	--	0.038	--	0.028	--	0.24	--	--	5.0	10	--

TABLE NO. 5 (10 of 17)
Soil Sample Analytical Results: TCLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB62 (0-3)	SB62 (7.5-10)		SB63 (0-3)	SB63 (5-7.5)	SB64 (0-3)		SB64 (7.5-10)	SB65 (0-3)	SB65 (7.5-10)		SB66 (0-3)	SB66 (5-7.5)	SB67 (0-3)		SB67 (3-5)	SB68 (0-3)		SB68 (7.5-10)		SB69 (0-3)		Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification[1]
Collection Date	9/6/24	9/6/24		9/6/24	9/6/24	9/6/24		9/6/24	9/9/24	9/9/24		9/6/24	9/6/24	9/6/24		9/6/24	9/9/24		9/9/24		9/9/24		Class I	Class II	
Method	SPLP	TCLP	SPLP	SPLP	SPLP	TCLP	SPLP	SPLP	SPLP	TCLP	SPLP	SPLP	SPLP	TCLP	SPLP	TCLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP			
Antimony	--	<0.0013	--	--	<0.0013	<0.0013	--	--	--	--	0.0013	--	--	--	--	--	0.0040	--	0.0044	--	~~0.0061~~	0.0025	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05	0.2	5
Barium	--	<0.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	--	<0.0040	--	<0.0040	<0.0040	<0.0040	--	<0.0040	<0.0040	<0.00027	--	<0.0040	<0.0040	--	--	<0.0040	<0.0040	--	<0.0040	--	<0.0040	--	0.004	0.5	--
Cadmium	--	<0.0050	--	--		<0.0020	--	--	--	<0.000077	--	--	--	--	--	--	<0.0050	--	<0.0050	--	--	--	0.005	0.05	1
Chromium	--	--	<0.010	--	<0.010	<0.010	--	--	--	<0.0012	0.0030	--	--	<0.010	--	--	<0.025	--	0.031	--	<0.010	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.0	--
Copper	--	--	--	--	--	--	--	--	--	<0.0017	--	--	--	<0.010	--	<0.010	<0.025	--	<0.025	--	--	--	0.65	0.65	--
Iron	--	--	<0.20	--	<0.20	0.21	--	--	--	0.15	0.85	--	--	0.48	--	<0.20	<0.20	--	2.0	--	<0.20	--	5.0	5.0	--
Lead	--	--	<0.0075	--	<0.0075	--	--	--	--	--	0.0030	--	--	<0.0075	--	<0.0075	<0.0075	--	0.017	--	<0.0075	--	0.0075	0.1	5
Manganese	--	--	<0.010	<0.010	0.015	--	0.021	<0.010	<0.010	--	<0.015	--	<0.010	--	0.014	--	--	0.017	--	0.040	--	<0.010	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	--	--	--	--	--	--	--	--	<0.010	~~0.36~~	<0.040	--	--	--	--	0.026	<0.025	--	<0.025	--	--	--	0.1	2.0	--
Selenium	<0.020	--	--	<0.020	<0.020	<0.020	--	--	<0.020	<0.00089	--	<0.020	<0.020	<0.020	--	<0.020	<0.050	--	<0.050	--	<0.020	--	0.05	0.05	1
Silver	--	--	--	<0.010	<0.010	--	--	<0.010	<0.010	<0.000053	--	<0.010	<0.010	<0.010	--	<0.010	<0.025	--	<0.025	--	<0.010	--	0.05	--	5
Thallium	<0.00057	<0.00057	--	<0.00057	<0.00057	<0.00057	--	<0.00057	<0.00057	<0.00051	--	<0.00057	--	<0.00057	--	<0.00057	<0.00057	--	<0.00057	--	<0.00057	--	0.002	0.02	--
Vanadium	--	--	<0.010				--			--	0.018	--	--	--	--		~~0.16~~	0.028	0.027	--	--	--	0.049	0.1	--
Zinc	--	--	--	--	--	--	--	--	--	--	--	--	--	0.049	--	0.079	<0.10	--	<0.10	--	--	--	5.0	10	--

Notes: Results listed in mg/L (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table A)
Shaded/Bolded cell indicates value exceeds the applicableTier 1 SRO
* the total concentration demonstrates compliance with the pH-specific Tier 1 SRO for the migration to groundwater exposure route
H indicates the analysis was performed past the specified hold time
< Indicates not detected at stated detection limits
-- Indicates value not available (the sample was not analyzed for the parameter based on total metals results, there is no SRO available, or the hazardous threshold characteristic is not applicable)
(1) Pursuant to 35 IAC 721.124 & 40 CFR 261.24; applies only to TCLP RCRA metal test results
(2) Value represents the non-TACO GRO provided by the Illinois EPA (March 31, 2016)

TABLE NO. 5 (11 of 17)
Soil Sample Analytical Results: TCLP/SPLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB69 (3-5)	SB70 (0-3)	SB71 (0-3)		SB72 (0-3)		SB73 (0-3)	SB74 (0-3)	SB74 (3-5)	SB75 (0-3)	SB75 (5-7.5)	SB76 (0-3)		SB76 (7.5-10)	SB77 (0-3)		SB77 (5-7.5)	SB78 (0-3)		SB78 (10-12.5)		SB79 (0-3)		SB79 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)		TCLP Limit for Hazardous Waste Classification[1]
Collection Date	**9/9/24**	**9/9/24**	**9/9/24**		**9/10/24**		**9/10/24**	**9/10/24**	**9/10/24**	**9/10/24**	**9/10/24**	**9/10/24**		**9/10/24**	**9/10/24**		**9/10/24**	**9/10/24**		**9/10/24**		**9/10/24**		**9/10/24**	**Migration to Groundwater**		
Method	**TCLP**	**SPLP**	**TCLP**	**SPLP**	**TCLP**	**SPLP**	**SPLP**	**SPLP**	**SPLP**	**TCLP**	**TCLP**	**TCLP**	**SPLP**	**TCLP**	**TCLP**	**SPLP**	**TCLP**	**TCLP**	**SPLP**	**TCLP**	**SPLP**	**TCLP**	**SPLP**	**SPLP**	**Class I**	**Class II**	
Antimony	--	--	--	--	--	--	--	<0.0013	<0.0013	0.0033		~~0.031~~	0.0086	0.0040	0.0060	--	0.0016	0.011	--	0.0038	--	~~0.0091~~	0.0061	<0.0013	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	--	--			<0.0050	--	--	--	--	--	0.0055	--	0.032	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	--			0.31	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	<0.00027	--	<0.0040	--	--	--	--	--	--	<0.0040		<0.0010	--	<0.0040	<0.0040	--	<0.0040	<0.00027	--	<0.00027	--	<0.0040	--	<0.0040	0.004	0.5	--
Cadmium	--	--	<0.0020	--	--	--	--	--	--	<0.0020		<0.0010	--	--	<0.0050	--	--	0.0037	--	<0.000077	--	<0.0020	--	--	0.005	0.05	1
Chromium	--	--	<0.010	--	--	--	--	--	--			0.092	--	--	0.033	--	<0.010	0.0026	--	0.038	--	<0.050	--	--	0.1	1.0	5
Cobalt	<0.050	--	--	--	--	--	--	--	--			--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.0	--
Copper	<0.0017	--	<0.010	--	<0.025	--	--	--	--	<0.010		0.0046	--	--	0.083	--	--	0.0055	--		--	0.025	--	--	0.65	0.65	--
Iron	--	--	<0.20	--	2.0	~~5.5~~	4.6	<0.20	<0.20			0.14	--	--	~~21~~	0.88	--	1.2	--	0.37	--	<0.20	--	--	5.0	5.0	--
Lead	--	--	<0.0075	--	--	--	--	--	--	<0.0075	0.025	0.0068	--	--	~~0.19~~	0.012	--	--	--	--	--	<0.038	--	--	0.0075	0.1	5
Manganese	--	--	--	0.020	--	--	--	--	--			~~0.20~~	0.0089	--	--	--	--	--	--	~~0.32~~	0.026	--	<0.010	0.023	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	--			<0.0020 H	--	--	--	--	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel		--	<0.010	--	--	--	--	--	--	<0.010		<0.0020	--	--	0.030	--	--	~~0.21~~	0.040	0.0058	--	0.020	--	--	0.1	2.0	--
Selenium	0.0020	<0.020	<0.020	--	--	--	--	--	<0.020	<0.020		<0.0050	--	0.0095	<0.050	--	<0.020	<0.050	--	0.0045	--	<0.020	--	<0.020	0.05	0.05	1
Silver	--	--	<0.010	--	--	--	--	--	--	<0.010		<0.0010	--	<0.000053	<0.025	--	<0.010	<0.000053	--	<0.050	--	0.042	--	<0.010	0.05	--	5
Thallium	0.00060	--	<0.00057	--	--	--	--	--	<0.00057	<0.00057		<0.0020	--	--	<0.00057	--	--	<0.00051	--	<0.00051	--	<0.00057	--	<0.00057	0.002	0.02	--
Vanadium	--	--	--	--	--	--	--	--	--			~~0.13~~	**0.12**	--		--	--	--	--	**0.13**	--	--	--	--	0.049	0.1	--
Zinc	--	--	<0.020	--	--	--	--	--	--	<0.020		<0.020	--	--	0.24	--	--	--	--	--	--	<0.020	--	--	5.0	10	--

TABLE NO. 5 (12 of 17)
Soil Sample Analytical Results: TCLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB80 (0-3)			SB80 (3-5)		SB81 (0-3)		SB81 (7.5-10)	SB82 (0-3)	SB82 (5-7.5)		SB83 (0-3)		SB83 (3-5)		SB84 (0-3)		SB84 (5-7.5)	SB85 (0-3)	SB85 (10-12.5)		SB86 (0-3)		SB86 (7.5-10)		Tier 1 Soil Remediation Objectives (Tier 1 SROs)		TCLP Limit for Hazardous Waste Classification[1]
Collection Date	**9/10/24**		**12/2/24**	**9/10/24**		**9/11/24**		**9/11/24**	**9/11/24**	**9/11/24**		**9/11/24**		**9/11/24**		**9/11/24**		**9/11/24**	**9/11/24**	**9/11/24**		**9/11/24**	**12/2/24**	**9/11/24**	**9/11/24**	**Migration to Groundwater**		
Method	**TCLP**	**SPLP**	**TCLP**	**TCLP**	**SPLP**	**TCLP**	**SPLP**	**SPLP**	**SPLP**	**TCLP**	**SPLP**	**TCLP**	**SPLP**	**TCLP**	**SPLP**	**TCLP**	**SPLP**	**SPLP**	**SPLP**	**TCLP**	**SPLP**	**TCLP**	**TCLP**	**TCLP**	**SPLP**	**Class I**	**Class II**	
Antimony	0.0015	--	--	--	0.0017	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--	--	--	--	--	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--	<0.050	--	--	--	0.05	0.2	5
Barium	0.88	--	--	--	--	--	--	--	--	--	--	--	--	1.2	--	--	--		--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	<0.00027	--	--	<0.0040	--	--	--	<0.0040	<0.0040	<0.0040	--	<0.0040	--	<0.0040	--	<0.0040	--	<0.0040	<0.0040	<0.0040	--	--	--	<0.0040	--	0.004	0.5	--
Cadmium	<0.050	<0.0050	--	--	<0.000077	--	--	--	--	--	--	<0.0020	--	<0.0050	--	<0.0050	--	<0.0020	--	--	--	<0.0050	--	<0.0020	--	0.005	0.05	1
Chromium	--	--	--	--	--	<0.010	--	--	--	--	--	<0.010	--	0.044	--	<0.025	--	<0.010	--	<0.010	--	--	--	<0.010	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--		--	--	--		--		--	--	--	--	--		--	1.0	1.0	--
Copper	~~<2.0~~	<0.65	--	--	0.0024	--	--	--	--	--	--	0.011	--	--	--	0.052	--		--	--	--	--	--	0.018	--	0.65	0.65	--
Iron	<0.047	--	--	--	0.14	1.3	--	--	--	--	--	0.74	--	~~14~~	<0.20	--	--		--	<0.20	--	--	--	--	--	5.0	5.0	--
Lead	~~0.0094~~	<0.0075	--	--	0.00064	<0.0075	--	--	<0.0075	--	--	<0.0075	--	<0.038	--	~~0.067~~	<0.0075	<0.0075	--	<0.0075	--	<0.0075	--	<0.0075	--	0.0075	0.1	5
Manganese	--	<0.015	--	--	0.024	--	<0.010	0.012	0.027	--	<0.010	--	<0.010		<0.025	1.1	<0.025	<0.010	<0.010	--	<0.010	--	<0.015	--	<0.010	0.15	10.0	--
Mercury	--	--	<0.0020	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--	--	<0.0020	--	--	0.002	0.01	0.2
Nickel	0.0062	--	--	--	--	--	--	--	<0.010	--	--	<0.010	--	--	--	--	--		--	--	--	--	--	<0.010	--	0.1	2.0	--
Selenium	0.0041	--	--	--	0.0038	<0.020	--	<0.020	<0.020	<0.050	--	<0.020	--	<0.050	--	<0.050	--	<0.020	<0.020	<0.020	--	--	--	<0.020	--	0.05	0.05	1
Silver	<0.000053	--	--	--	<0.000053	--	--	<0.010	<0.010	<0.025	--	0.031	--	<0.025	--	<0.025	--	<0.010	<0.010	<0.010	--	--	--	<0.010	--	0.05	--	5
Thallium	<0.00051	--	--	--	<0.00051	<0.00057	--	<0.00057	<0.00057	--	--	<0.00057	--	--	--	--	--		<0.00057	<0.00057	--	--	--	<0.00057	--	0.002	0.02	--
Vanadium	--	--	--	--	--	--	--	--	--	--	--		--	0.051	~~0.058~~	--	--	**0.14**	--	~~0.12~~	0.044	--	--	--	--	0.049	0.1	--
Zinc	<1.0	--	--	--	--	--	--	--	<0.020	--	--	0.060	--	0.73	--	0.53	--	<0.020	--	--	--	<1.0	--	0.034	--	5.0	10	--

Notes: Results listed in mg/L (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table A)
Shaded/Bolded cell indicates value exceeds the applicableTier 1 SRO
~~Strikethrough~~ text indicates a value that is replaced by the corresponding SPLP or TCLP test result
* the total concentration demonstrates compliance with the pH-specific Tier 1 SRO for the migration to groundwater exposure route
H indicates the analysis was performed past the specified hold time
< Indicates not detected at stated detection limits
-- Indicates value not available (the sample was not analyzed for the parameter based on total metals results, there is no SRO available, or the hazardous threshold characteristic is not applicable)
(1) Pursuant to 35 IAC 721.124 & 40 CFR 261.24; applies only to TCLP RCRA metal test results
(2) Value represents the non-TACO GRO provided by the Illinois EPA (March 31, 2016)

TABLE NO. 5 (13 of 17)
Soil Sample Analytical Results: TCLP/SPLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB87 (0-3)		SB88 (0-3)	SB88 (7.5-10)	SB89 (0-3)		SB89 (3-5)		SB90 (0-3)		SB90 (7.5-10)		SB91 (0-3)		SB91 (12.5-15)		SB92 (0-3)		SB92 (3-5)		Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification(1)
Collection Date	9/12/24		9/12/24	9/12/24	9/12/24		9/12/24		9/12/24		9/12/24		9/12/24		9/12/24		9/12/24		9/12/24		Class I	Class II	
Method	TCLP	SPLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP			
Antimony	--	--	--	--	0.0020	--	--	--	0.0025	--	--	--	--	--	--	--	--	--	--	--	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	--	<0.0050	--	--	--	<0.0050	--	--	--	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	0.31	--	--	--	0.24	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	--	--	<0.0040	--	--	--	<0.0040	--	<0.0010	--	<0.0040	--	<0.0010	--	<0.0040	--	<0.0040	--	<0.0040	--	0.004	0.5	--
Cadmium	--	--	<0.0020	--	--	--	<0.0050	--	<0.0010	--	<0.0050	--	<0.0010	--	<0.0020	--	<0.0020	--	<0.0020	--	0.005	0.05	1
Chromium	<0.050	--	--	--	<0.050	--	<0.50	--	0.027	--	0.025	--	0.010	--	0.026	--	0.019	--	0.026	--	0.1	1.0	5
Cobalt	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.0	--
Copper	--	--	--	--	0.0072	--	--	--	0.0037	--	<0.025	--	0.0038	--	0.019	--	0.011	--	<0.010	--	0.65	0.65	--
Iron	<0.20	--	<0.20	<0.20	<0.047	--	<0.20	--	<0.10	--	0.47	--	<0.10	--	2.3	--	0.65	--	<0.20	--	5.0	5.0	--
Lead	<0.038	--	--	--	--	--	--	--	<0.0010	--	<0.0075	--	<0.0010	--	0.029	--	<0.0075	--	<0.0075	--	0.0075	0.1	5
Manganese	--	<0.010	<0.010	--	--	0.021	0.10	<0.015	~~2.8~~	0.022	--	<0.010	--	0.013	--	0.037	--	<0.010	--	<0.010	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	<0.0020 H	--	--	--	<0.0020 H	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	--	--	--	--	<0.040	--	<0.040	--	0.016	--	<0.025	--	0.0062	--	0.010	--	<0.010	--	<0.010	--	0.1	2.0	--
Selenium	<0.020	--	<0.020	--	0.0020	--	<0.050	--	<0.0050	--	<0.050	--	<0.0050	--	<0.020	--	<0.020	--	<0.020	--	0.05	0.05	1
Silver	--	--	<0.010	--	<0.000053	--	<0.050	--	<0.0010	--	<0.025	--	<0.0010	--	--	--	<0.010	--	<0.010	--	0.05	--	5
Thallium	<0.00057	--	<0.00057	--	--	--	--	--	<0.0020	--	--	--	0.012	--	<0.00057	--	<0.00057	--	<0.00057	--	0.002	0.02	--
Vanadium	--	--	--	--	~~0.13~~	0.078	~~0.15~~	0.062	**0.16**	~~0.31~~	0.091	~~0.17~~	0.067	~~0.14~~	0.060	~~0.10~~	0.090	~~0.13~~	~~0.21~~	**0.14**	0.049	0.1	--
Zinc	--	--	--	--	--	--	--	--	<0.020	--	<0.10	--	<0.020	--	0.088	--	<0.020	--	<0.020	--	5.0	10	--

TABLE NO. 5 (14 of 17)
Soil Sample Analytical Results: TCLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB93 (0-3)		SB93 (5-7.5)		SB94 (0-3)		SB94 (12.5-15)		SB95 (0-3)	SB95 (5-7.5)	SB96 (0-3)		SB96 (7.5-10)	SB97 (0-3)		SB97 (5-7.5)		SB98 (0-3)	SB98 (7.5-10)		SB99 (0-3)		Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification(1)
Collection Date	9/16/24		9/16/24		9/16/24		9/16/24		9/16/24	9/16/24	9/16/24		9/16/24	9/16/24		9/16/24		9/17/24	9/17/24		9/17/24		Class I	Class II	
Method	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP			
Antimony	0.0042	--	--	0.0026	0.0038	--	--	--	--	--	--	--	--	~~0.016~~	0.0095	~~0.011~~	0.0068	--	--	--	--	--	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	--	--	--	--	<0.0040	--	--	<0.0040	<0.0040	--	<0.0040	--	<0.0040	<0.0040	--	<0.0040	--	<0.0040	<0.0040	--	<0.0040	--	0.004	0.5	--
Cadmium	--	--	--	--	--	--	--	<0.0020	--	<0.0020	--	--	--	<0.0050	--	<0.0050	--	--	<0.0050	--	<0.0050	--	0.005	0.05	1
Chromium	<0.010	--	--	--	0.048	--	--	--	<0.010	--	<0.010	--	--	<0.025	--	<0.025	--	--	<0.025	--	<0.025	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.0	--
Copper	--	--	--	--	--	--	--	0.027	--	--	--	--	--	<0.025	--	0.030	--	--	--	--	--	--	0.65	0.65	--
Iron	2.1	--	1.3	--	4.4	--	<0.020	~~5.1~~	<0.20	<0.20	1.3	--	--	0.42	--	3.4	--	0.35	1.8	--	0.37	--	5.0	5.0	--
Lead	~~0.13~~	0.022	--	--	0.026	--	--	--	<0.00075	--	<0.0075	--	--	<0.0075	--	0.017	0.017	--	--	--	<0.0075	--	0.0075	0.1	5
Manganese	--	0.094	--	0.61	--	<0.00057	--	0.22	<0.010	--	--	<0.010	0.034	~~10~~	1.3	--	0.24	0.053	--	0.026	<0.025	<0.025	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	--	--	--	--	<0.010	--	--	--	--	--	<0.010	--	--	<0.025	--	<0.025	--	--	--	--	--	--	0.1	2.0	--
Selenium	<0.020	--	--	<0.020	<0.020	--	--	<0.020	<0.020	<0.020	<0.020	--	<0.020	<0.050	--	<0.050	--	<0.020	<0.050	--	<0.050	--	0.05	0.05	1
Silver	--	--	<0.025	--	--	--	--	<0.010	<0.010	--	--	--	--	--	--	--	--	<0.010	<0.025	--	<0.025	--	0.05	--	5
Thallium	<0.00057	--	--	<0.00057	<0.00057	--	--	<0.00057	<0.00057	<0.00057	<0.00057	--	<0.00057	<0.0020	--	<0.00057	--	<0.00057	<0.00057	--	<0.00057	--	0.002	0.02	--
Vanadium	--	--	--	--	**0.12**	~~0.14~~	--	--	--	--	0.079	~~0.092~~	--	--	--	--	--	--	**0.17**	~~0.19~~	--	--	0.049	0.1	--
Zinc	--	--	--	--	0.070	--	--	--	<0.020	--	<0.020	--	--	--	--	--	--	--	--	--	--	--	5.0	10	--

Notes: Results listed in mg/L (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table A)
Shaded/Bolded cell indicates value exceeds the applicableTier 1 SRO
~~Strikethrough~~ text indicates a value that is replaced by the corresponding SPLP or TCLP test result
* the total concentration demonstrates compliance with the pH-specific Tier 1 SRO for the migration to groundwater exposure route
H indicates the analysis was performed past the specified hold time
< Indicates not detected at stated detection limits
-- Indicates value not available (the sample was not analyzed for the parameter based on total metals results, there is no SRO available, or the hazardous threshold characteristic is not applicable)
(1) Pursuant to 35 IAC 721.124 & 40 CFR 261.24; applies only to TCLP RCRA metal test results
(2) Value represents the non-TACO GRO provided by the Illinois EPA (March 31, 2016)

TABLE NO. 5 (15 of 17)
Soil Sample Analytical Results: TCLP/SPLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB99 (10-12.5)		SB100 (0-3)		SB100 (3-5)		SB101 (0-3)		SB101 12.5-15)	SB102 (0-3)		SB102 (7.5-10)		SB103 (0-3)		SB103 (5-7.5)	SB104 (0-3)		SB105 (0-3)	SB105 (10-12.5)	SB106 (0-3)		Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification[1]
Collection Date	9/17/24		9/17/24		9/17/24		9/17/24		9/17/24	9/17/24		9/17/24		9/18/24		9/18/24	9/18/24		9/18/24	9/18/24	9/18/24		Class I	Class II	
Method	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	SPLP	SPLP	TCLP	SPLP			
Antimony	--	--	--	--	--	--	0.0076	--	--	<0.0020	--	--	--	--	--	--	--	--	--	--	--	--	0.006	0.024	--
Arsenic	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	~~<0.25~~	<0.050	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	<0.0040	--	<0.0040	--	<0.0040	--	<0.0040	--	<0.0040	<0.0010	--	--	--	--	--	--	--	--	--	--	<0.0040	--	0.004	0.5	--
Cadmium	--	--	--	--	--	--	<0.0050	--	--	<0.0010	--	--	--	--	--	--	--	--	--	--	--	--	0.005	0.05	1
Chromium	<0.010	--	<0.010	--	<0.010	--	0.051	--	<0.010	~~0.21~~	0.19	0.015	--	0.014	--	--	--	--	--	--	<0.050	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.025	--	--	--	<0.050	--	1.0	1.0	--
Copper	--	--	<0.010	--	<0.010	--	<0.025	--	--	--	--	--	--	--	--	--	--	--	--	--	~~<3.3~~	<0.65	0.65	0.65	--
Iron	--	--	0.93	--	0.73	--	4.6	--	--	<0.10	--	3.7	--	0.82	--	--	--	--	--	--	--	--	5.0	5.0	--
Lead	--	--	<0.0075	--	<0.0075	--	<0.0075	--	--	<0.0010	--	--	--	--	--	--	--	--	--	--	<0.0075	--	0.0075	0.1	5
Manganese	--	0.026	--	0.046	--	0.086	--	0.081	0.13	--	<0.015	--	0.33	--	0.044		--	--	--	0.75	~~22~~	<0.015	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	--	--	--	--	0.012	--	~~0.24~~	<0.010	--	<0.0020	--	--	--	--	--	<0.010	--	--	--	--	0.043	--	0.1	2.0	--
Selenium	<0.020	--	<0.020	--	<0.020	--	<0.050	--	<0.020	<0.050	--	<0.020	--	<0.020	--	<0.020	—	<0.020	<0.020	<0.020	~~<0.25~~	<0.050	0.05	0.05	1
Silver	<0.010	--	<0.010	--	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.050	--	0.05	--	5
Thallium	<0.00057	--	<0.00057	--	<0.00057	--	<0.00057	--	<0.00057	<0.0020	--	<0.00057	--	<0.00057	--	--	--			<0.00057	0.00051	--	0.002	0.02	--
Vanadium	--	--	--	--	--	--	0.055	0.076	--	~~0.30~~	<0.050	--	--	--	--	--	--	--	--	--	--	--	0.049	0.1	--
Zinc	--	--	0.031	--	0.023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.0	10	--

TABLE NO. 5 (16 of 17)
Soil Sample Analytical Results: TCLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB107 (0-3)		SB107 (7.5-10)	SB108 (0-3)		SB109 (0-3)		SB109 (5-7.5)		SB110 (0-3)		SB110 (5-7.5)	SB111 (0-3)		SB111 (3-5)	SB112 (0-3)	SB113 (0-3)	SB113 (10-12.5)	SB114 (0-3)		SB114 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification[1]
Collection Date	9/18/24		9/18/24	9/19/24		9/19/24		9/19/24		9/19/24		9/19/24	9/19/24		9/19/24	9/19/24	9/19/24	9/20/24	9/20/24		9/20/24	Class I	Class II	
Method	TCLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	TCLP	SPLP	SPLP	SPLP	SPLP	SPLP	TCLP	SPLP	SPLP			
Antimony	--	--	<0.0013	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0019	0.0037	--	<0.0013	<0.0013	0.006	0.024	--
Arsenic	--	--	<0.010	--	--	<0.050	--	--	--	--	--	--	<0.050	--	--	--	--	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	<0.0040	--	<0.0040	<0.0040	--	<0.0040	--	--	--	--	--	--	--	--	--	--	<0.0040	--	<0.0040	<0.0040	<0.0040	0.004	0.5	--
Cadmium	--	--	--	<0.0050	--	<0.0050	--	--	--	--	<0.0050	--	--	--	--	--	--	--	--	--	--	0.005	0.05	1
Chromium	0.013	--	--	0.051	--	0.033	--	--	--	0.047	--	--	--	--	--	--	<0.010	<0.010	--	<0.010	<0.0040	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.0	--
Copper	--	--	--	--	--	<0.025	--	--	--	<0.025	--	--	--	--	--	--	--	--	--	--	--	0.65	0.65	--
Iron	3.0	--	<0.20	1.6	--	2.8	--	3.8	~~9.0~~	~~11~~	<0.20	--	--	--	--	--	0.40	<0.20	--	<0.20	<0.20	5.0	5.0	--
Lead	--	--	--	*<0.038*	--	*<0.038*	--	--	--	--	--	--	<0.0075	--	--	--	<0.0075	<0.0075	--	<0.0075	<0.0075	0.0075	0.1	5
Manganese	--	0.055	0.025	~~71~~	<0.025	--	0.11	~~18~~	1.2	--	<0.025	0.093	--	--	0.54	--	0.089	<0.010	--	<0.010	<0.010	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	--	--	--	--	--	~~0.35~~	<0.010	--	--	--	<0.025	--	--	--	--	--	--	--	--	--	--	0.1	2.0	--
Selenium	0.024	--	<0.020	<0.050	--	<0.050	--	--	<0.020	<0.050	--	<0.020	--	<0.020	<0.020	<0.020	--	--	--	<0.020	<0.020	0.05	0.05	1
Silver	<0.010	--	<0.010	<0.025	--	<0.025	--	--	--	<0.025	--	--	--	--	--	--	<0.010	--	--	<0.010	<0.010	0.05	--	5
Thallium	<0.00057	--	<0.00057	<0.0020	--	<0.0020	--	--	<0.00057	<0.00057	--	<0.00057	--	<0.00057	<0.00057		<0.00057	--	--	<0.00057	<0.00057	0.002	0.02	--
Vanadium	<0.010	--	--	**0.11**	~~0.12~~	--	--	--	--	0.083	~~0.21~~	--	--	--	--	--	--	<0.010	--	--	<0.10	0.049	0.1	--
Zinc	--	--	--	--	--	0.60	--	--	--	0.34	--	--	<0.010	--	--	--	--	--	--	--	--	5.0	10	--

Notes: Results listed in mg/L (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table A)
Shaded/Bolded cell indicates value exceeds the applicableTier 1 SRO
~~Strikethrough~~ text indicates a value that is replaced by the corresponding SPLP or TCLP test result
* the total concentration demonstrates compliance with the pH-specific Tier 1 SRO for the migration to groundwater exposure route
H indicates the analysis was performed past the specified hold time
< Indicates not detected at stated detection limits
-- Indicates value not available (the sample was not analyzed for the parameter based on total metals results, there is no SRO available, or the hazardous threshold characteristic is not applicable)
(1) Pursuant to 35 IAC 721.124 & 40 CFR 261.24; applies only to TCLP RCRA metal test results
(2) Value represents the non-TACO GRO provided by the Illinois EPA (March 31, 2016)

TABLE NO. 5 (17 of 17)
Soil Sample Analytical Results: TCLP/SPLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB115 (0-3)	SB115 (5-7.5)	SB116 (0-3)		SB116 (12.5-15)		SB117 (0-3)	SB117 (5-7.5)	SB120 (0-3)	SB121 (0-3)	SB122 (0-3)		SB123 (0-3)		SB123 (5-7.5)		SB125 (0-3)		SB125 (7.5-10)		SB126 (0-3)		Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification(1)
Collection Date	9/20/24	9/20/24	9/20/24		9/20/24		9/20/24	9/20/24	2/3/25	2/3/25	2/3/25		2/3/25		2/3/25		2/4/25		2/4/25		2/4/25		Class I	Class II	
Method	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	SPLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP			
Antimony	--	0.0029	--	0.0032		0.019	0.0020	<0.0013	--	--	<0.00480	--	--	--	~~0.0511~~	0.0235	--	--	--	--	--	--	0.006	0.024	--
Arsenic	<0.010	--	--	--	--	--	--	--	--	--	--	--	<0.00560		--	--	--	--	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.0	100
Beryllium	<0.0040	<0.0040	<0.0040	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.004	0.5	--
Cadmium	--	--	<0.0020	--	--	--	--	--	--	--	--	--	<0.000590	--	0.000941	--	--	--	--	--	<0.0000590	--	0.005	0.05	1
Chromium	--	<0.010	0.013	<0.010	--	<0.010	<0.010	<0.010	--	--	<0.00300	--	<0.0030	--	--	--	--	--	<0.00474	--	<0.0030	--	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.0	--
Copper	--	--	--	--	--	--	--	--	0.0272	--	--	--	0.0157	--	0.0167	--	--	--	<0.0105		--	--	0.65	0.65	--
Cyanide	--	--	--	--	--	--	--	--	--	<0.053 H	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.6	--
Iron	0.32	<0.20	4.9	0.39	--	<0.20	<0.20	0.41	--	--	<0.0520	--	0.144	--	0.387	--	0.312	--	~~31.7~~	2.50	0.374	--	5.0	5.0	--
Lead	<0.0075	<0.0075	<0.038	<0.0075	--	<0.0075	<0.0075	<0.0075	--	--	<0.00130	--	<0.00130	--	0.00638	--	0.0149	--	--	--	--	--	0.0075	0.1	5
Manganese	0.093	0.019	--	0.038	--	--	<0.010	--	--	--	--	2.57	--	0.0536	--	0.0166	--	0.862		0.0733	--	0.0976	0.15	10.0	--
Mercury	--	--	--	--	--	--	--	--	<0.0000860	--	<0.0000860	--	--	--	--	--	--	--	--	--	--	--	0.002	0.01	0.2
Nickel	--	--	0.017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	2.0	--
Selenium	<0.020	<0.020	<0.020	--	--	<0.020	<0.020	<0.020	--	--	--	--	0.00855	--	0.00972	--	--	--	--	--	<0.00570	--	0.05	0.05	1
Silver	<0.010	<0.010	0.033	--	--	<0.010	<0.010	<0.010	--	--	--	--	--	--	0.0369	--	--	--	--	--	<0.00210	--	0.05	--	5
Thallium	<0.00057	<0.00057	<0.00057	<0.00057	--	<0.00057	<0.00057	<0.00057	--	--	--	--	0.0139	--	--	--	--	--	--	--	0.00383	--	0.002	0.02	--
Vanadium	--	--	--	0.014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0156	--	0.049	0.1	--
Zinc	<0.020	--	0.061	--	--	--	--	--	0.0580	--	--	--	0.0512	--	--	--	--	--	--	--	--	--	5.0	10	--

TABLE NO. 5 (17 of 17)
Soil Sample Analytical Results: TCLP/SPLP Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB126 (5-7.5)		SB127 (0-3)		SB128 (0-3)		SB128 (7.5-10)	SB129 (0-3)	SB129 (5-7.5)		SB130 (7-9)	SB134 (7.5-10)	SB135 (0-3)	SB143 (0-3)		SB143 (15-17.5)		SB144 (0-3)	SB144 (12.5-15)		SB145 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs) Migration to Groundwater		TCLP Limit for Hazardous Waste Classification(1)
Collection Date	2/4/25		2/4/25		2/10/25		2/10/25	2/10/25	2/10/25		2/10/25	2/13/25	2/13/25	2/19/25	4/1/25	2/19/25	4/1/25	2/19/25	4/1/25	2/19/25	4/8/25	Class I	Class II	
Method	TCLP	SPLP	TCLP	SPLP	TCLP	SPLP	TCLP	TCLP	TCLP	SPLP	TCLP	TCLP	TCLP	TCLP	SPLP	TCLP	SPLP	TCLP	TCLP	SPLP	TCLP			
Antimony	<0.00480	--	--	--	--	--	--	0.0221	--	--	--	--	--	0.0179	--	<0.00480	--	0.00898	--	--	--	0.006	0.024	--
Arsenic	--	--	--	--	0.00834	--	<0.00560	--	--	--	--	--	--	--	--	<0.00560	--	--	--	--	--	0.05	0.2	5
Barium	--	--	--	--	0.321	--	--	--	--	--	--	--	--	--	--	0.928	--	--	--	--	--	2.0	2.0	100
Beryllium	--	--	<0.000390	--	<0.000390	--	--	0.000517	--	--	--	--	--	<0.000390	--	<0.000390	--	<0.000390	--	--	--	0.004	0.5	--
Cadmium	--	--	<0.000590	--	<0.00059	--	--	--	--	--	--	--	--	0.00171	--	<0.000590	--	--	--	0.00118	0.0021	0.005	0.05	1
Chromium	--	--	0.00467	--	0.0169	--	<0.00300	0.00426	<0.00300	--	--	--	--	0.00625	--	<0.00300	--	0.00668	--	--	0.0064	0.1	1.0	5
Cobalt	--	--	--	--	--	--	--	0.00397	--	--	--	--	--	0.00674	--	--	--	--	--	--	--	1.0	1.0	--
Copper	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0484	--	--	--	0.0200	--	--	--	0.65	0.65	--
Cyanide	--	--	<0.053	--	<0.053	--	<0.059	<0.053	0.066	--	<0.053	--	--	--	--	0.49	--	--	--	--	--	0.2	0.6	--
Iron	0.260	--	0.257	--	2.80	--	<0.0520	<0.0520	<0.0520	--	--	--	--	0.569	--	**50.2**	~~67~~	0.277	<0.20	~~6.15~~	<0.082	5.0	5.0	--
Lead	0.0403	--	<0.00130	--	0.0202	--	0.00673	0.0311	--	--	--	--	<0.00252	0.0163	--	0.00555	--	0.0102	--	0.0433	--	0.0075	0.1	5
Manganese	--	0.256	--	--	--	--	--	8.76	~~16.8~~	0.0491	--	--	--	~~12.5~~	0.030	~~18.7~~	3.4	4.18	--	0.147	1.0	0.15	10.0	--
Mercury	--	--	<0.0000860	--	<0.000086	--	<0.0000860	--	--	--	--	<0.000086	--	--	--	<0.000086	--	<0.000086	--	--	<0.00020	0.002	0.01	0.2
Nickel	--	--	--	--	--	--	0.0469	--	--	--	--	--	--	0.178	--		--	0.0234	--	--	--	0.1	2.0	--
Selenium	--	--	0.0124	--	<0.00570	--	<0.00570	<0.00570	<0.00570	--	--	--	--	<0.00570	--	0.00812	--	<0.00570	--	0.0114	--	0.05	0.05	1
Silver	--	--	--	--	<0.00210	--	0.00222	<0.00210	<0.00210	--	--	--	--	--	--	0.00308	--	<0.00210	--	--	--	0.05	--	5
Thallium	--	--	0.0332	<0.00680	~~0.0267~~	<0.00680	0.0130	0.0147	~~0.0298~~	<0.00680	--	--	--	0.0191	--	~~0.0329~~	<0.0020	0.00584	--	0.00680	--	0.002	0.02	--
Vanadium	--	--	--	--	--	--	0.0503	--	0.0199	--	--	--	--	--	--	--	--	--	--	--	--	0.049	0.1	--
Zinc	--	--	--	--	0.0230	--	<0.0120	0.149	--	--	--	--	--	0.114	--	<0.0120	--	0.0310	--	0.0469	0.066	5.0	10	--

Notes: Results listed in mg/L (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table A)
Shaded/Bolded cell indicates value exceeds the applicableTier 1 SRO
~~Strikethrough~~ text indicates a value that is replaced by the corresponding SPLP or TCLP test result
* the total concentration demonstrates compliance with the pH-specific Tier 1 SRO for the migration to groundwater exposure route
H indicates the analysis was performed past the specified hold time
< Indicates not detected at stated detection limits
-- Indicates value not available (the sample was not analyzed for the parameter based on total metals results, there is no SRO available, or the hazardous threshold characteristic is not applicable)
(1) Pursuant to 35 IAC 721.124 & 40 CFR 261.24; applies only to TCLP RCRA metal test results
(2) Value represents the non-TACO GRO provided by the Illinois EPA (March 31, 2016)

TABLE NO. 6 (1 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB1 (0-3)	SB1 (5-7.5)	SB2 (0-3)	SB2 (3-5)	SB3 (0-3)	SB3 (5-7.5)	SB4 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**8/28/24**	**8/28/24**	**8/28/24**	**8/28/24**	**8/28/24**	**8/28/24**	**8/28/24**							
4,4'-DDD	<0.00090	<0.0014	<0.0096	<0.0011	<0.00097	<0.00099	<0.0010	24	--	520	--	16	80	*
4,4'-DDE	<0.00086	<0.0013	<0.0092	<0.0010	<0.00093	<0.00095	<0.00097	17	--	370	--	54	270	*
4,4'-DDT	<0.00079	<0.0012	<0.0084	<0.00094	<0.00086	<0.00087	<0.00089	17	1,500	100	2,100	32	160	*
Aldrin	<0.0012	<0.0018	<0.012	<0.0014	<0.0013	<0.0013	<0.0013	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.00094	<0.0015	<0.010	<0.0011	<0.0010	<0.0010	<0.0011	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.00089	<0.0014	<0.0095	<0.0011	<0.00096	<0.00098	<0.0010	--	--	--	--	--	--	--
b-BHC	<0.0013	<0.0021	<0.014	<0.0016	<0.0015	<0.0015	<0.0015	--	--	--	--	--	--	--
Chlordane	<0.0032	<0.0049	<0.034	<0.0038	<0.0034	<0.0035	<0.0036	16	140	100	22	10	48	*
d-BHC	<0.0040	<0.0012	<0.043	<0.0047	<0.00086	<0.0044	<0.00090	--	--	--	--	--	--	--
Dieldrin	<0.00087	<0.0014	<0.0093	<0.0010	<0.00094	<0.00096	<0.00098	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.00090	<0.0014	<0.0096	<0.0011	<0.00097	<0.0010	<0.0010	--	--	--	--	--	--	--
Endosulfan II	<0.00092	<0.0014	<0.0097	<0.0011	<0.00099	<0.0010	<0.0010	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.00093	<0.0014	<0.0098	<0.0011	<0.0010	<0.0010	<0.0010	--	--	--	--	--	--	--
Endrin	<0.00085	<0.0013	<0.0091	<0.0010	<0.00092	<0.00094	<0.00096	610	--	61	--	1	5	*
Endrin aldehyde	<0.0048	<0.0015	<0.051	<0.0057	<0.0010	<0.0053	<0.0011	--	--	--	--	--	--	--
Endrin ketone	<0.00081	<0.0013	<0.0086	<0.00097	<0.00088	<0.00090	<0.00091	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.00083	<0.0013	<0.0088	<0.00099	<0.00090	<0.00092	<0.00093	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.00096	<0.0015	<0.010	<0.0011	<0.0010	0.0053	<0.0011	--	--	--	--	--	--	--
Heptachlor	<0.00091	<0.0014	<0.0096	<0.0011	<0.00098	<0.0010	<0.0010	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.00090	<0.0014	<0.0096	<0.0011	<0.00097	<0.00099	<0.0010	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.0011	<0.0017	<0.012	<0.0013	<0.0012	<0.0012	<0.0012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.0067	<0.010	<0.071	<0.0079	<0.0072	<0.0074	<0.0075	5.2	170	110	240	31	150	*

TABLE NO. 6 (2 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB4 (7.5-10)	SB5 (0-3)	SB5 (5-7.5)	SB6 (0-3)	SB6 (3-5)	SB7 (0-3)	SB7 (10-12.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**8/28/24**	**8/28/24**	**8/28/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**							
4,4'-DDD	<0.00096	<0.0011	<0.00098	<0.0095	<0.0052	<0.0098	<0.0011	24	--	520	--	16	80	*
4,4'-DDE	<0.00092	<0.0010	<0.00094	<0.0091	<0.0050	<0.0094	<0.0010	17	--	370	--	54	270	*
4,4'-DDT	<0.00085	<0.00097	<0.00087	<0.0084	<0.0046	<0.0087	<0.00093	17	1,500	100	2,100	32	160	*
Aldrin	<0.0012	<0.0014	<0.0013	<0.012	<0.0067	<0.013	<0.0014	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0010	<0.0011	<0.0010	<0.0099	<0.0054	<0.010	<0.0011	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.00095	<0.0011	<0.00098	<0.0094	<0.0052	<0.0098	<0.0010	--	--	--	--	--	--	--
b-BHC	<0.0014	<0.0016	<0.0015	<0.014	<0.0078	<0.015	<0.0016	--	--	--	--	--	--	--
Chlordane	<0.0034	<0.0039	<0.0035	<0.033	<0.018	<0.035	<0.0037	16	140	100	22	10	48	*
d-BHC	<0.00085	<0.00097	<0.00087	<0.0084	<0.0092	<0.0088	<0.00094	--	--	--	--	--	--	--
Dieldrin	<0.00093	<0.0011	<0.00095	<0.0092	<0.0051	<0.0096	<0.0010	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.00096	<0.0011	<0.00099	<0.0095	<0.0052	<0.0099	<0.0011	--	--	--	--	--	--	--
Endosulfan II	<0.00098	<0.0011	<0.0010	<0.0096	<0.0053	<0.010	<0.0011	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.00099	<0.0011	<0.0010	<0.0097	<0.011	<0.010	<0.0011	--	--	--	--	--	--	--
Endrin	<0.00091	<0.0010	<0.00093	<0.0090	<0.0049	<0.0093	<0.0010	610	--	61	--	1	5	*
Endrin aldehyde	<0.0010	<0.0012	<0.0010	<0.010	<0.011	<0.010	<0.0011	--	--	--	--	--	--	--
Endrin ketone	<0.00087	<0.00099	<0.00089	<0.0086	<0.0047	<0.0089	<0.00095	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.00089	<0.0010	<0.00091	<0.0088	<0.0048	<0.0091	<0.00097	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0010	<0.0012	<0.0011	<0.010	<0.0056	<0.011	<0.0011	--	--	--	--	--	--	--
Heptachlor	<0.00097	<0.0011	<0.00099	<0.0095	<0.0052	<0.0099	<0.0011	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.00096	<0.0011	<0.00098	<0.0095	<0.0052	<0.0099	<0.0011	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.0012	<0.0013	<0.0012	<0.012	<0.0064	<0.012	<0.0013	10,000	--	1,000	--	160	780	*
Toxaphene	<0.0071	<0.0081	<0.0073	<0.070	<0.039	<0.073	<0.0078	5.2	170	110	240	31	150	*

TABLE NO. 6 (3 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB8 (0-3)	SB8 (5-7.5)	SB9 (0-3)	SB9 (7.5-10)	SB10 (0-3)	SB10 (5-7.5)	SB11 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**							
4,4'-DDD	<0.00096	<0.00095	<0.0093	<0.00088	<0.019	<0.0095	<0.00096	24	--	520	--	16	80	*
4,4'-DDE	0.0040	<0.00091	<0.0089	<0.00084	<0.018	<0.0091	<0.00092	17	--	370	--	54	270	*
4,4'-DDT	0.0029	<0.00084	<0.0082	<0.00078	<0.017	<0.0084	<0.00084	17	1,500	100	2,100	32	160	*
Aldrin	<0.0012	<0.0012	<0.012	<0.0011	<0.024	<0.012	<0.0012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0010	<0.0010	<0.0097	<0.00092	<0.020	<0.0099	<0.0010	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.00095	<0.00095	<0.0092	<0.00088	<0.019	<0.0094	<0.00095	--	--	--	--	--	--	--
b-BHC	<0.0014	<0.0014	<0.014	<0.0013	<0.028	<0.014	<0.0014	--	--	--	--	--	--	--
Chlordane	<0.0034	<0.0034	<0.033	<0.0031	<0.066	<0.033	<0.0034	16	140	100	22	10	48	*
d-BHC	<0.0043	<0.00085	<0.0083	<0.00078	<0.017	<0.0084	<0.0042	--	--	--	--	--	--	--
Dieldrin	<0.00093	<0.00093	<0.0090	<0.00086	<0.018	<0.0092	<0.00093	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.00096	<0.00096	<0.0093	<0.00089	<0.019	<0.0095	<0.00096	--	--	--	--	--	--	--
Endosulfan II	<0.00098	<0.00097	<0.0095	<0.00090	<0.019	<0.0096	<0.00097	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0049	<0.00098	<0.0096	<0.00091	<0.019	<0.0097	<0.0049	--	--	--	--	--	--	--
Endrin	<0.00091	<0.00091	<0.0088	<0.00084	<0.018	<0.0090	<0.00091	610	--	61	--	1	5	*
Endrin aldehyde	<0.0051	<0.0010	<0.0099	<0.00093	<0.020	<0.010	<0.0051	--	--	--	--	--	--	--
Endrin ketone	<0.00087	<0.00086	<0.0084	<0.00080	<0.017	<0.0086	<0.00086	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.00089	<0.00088	<0.0086	<0.00082	<0.017	<0.0088	<0.00088	4	--	96	--	0.009	0.047	*
g-Chlordane	0.0015	<0.0010	<0.0099	<0.00094	<0.020	<0.010	<0.0010	--	--	--	--	--	--	--
Heptachlor	<0.00097	<0.00096	<0.0094	<0.00089	<0.019	<0.0095	<0.00096	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.00096	<0.00096	<0.0093	<0.00088	<0.019	<0.0095	<0.00096	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.0012	<0.0012	<0.011	<0.0011	<0.023	<0.012	<0.0012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.0071	<0.0071	<0.069	<0.0065	<0.14	<0.070	<0.0071	5.2	170	110	240	31	150	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO

TABLE NO. 6 (4 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB11 (5-7.5)	SB12 (0-3)	SB12 (7.5-10)	SB13 (0-3)	SB13 (5-7.5)	SB14 (0-3)	SB14 (10-12.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**							
4,4'-DDD	<0.0010	<0.010	<0.00095	<0.0046	<0.00095	<0.00092	<0.0011	24	--	520	--	16	80	*
4,4'-DDE	<0.00098	<0.0097	<0.00091	<0.0044	<0.00091	<0.00088	<0.0011	17	--	370	--	54	270	*
4,4'-DDT	<0.00090	<0.0089	<0.00084	<0.0040	<0.00084	<0.00081	<0.00099	17	1,500	100	2,100	32	160	*
Aldrin	<0.0013	<0.013	<0.0012	<0.0059	<0.0012	<0.0012	<0.0014	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0011	<0.011	<0.0010	<0.0048	<0.00099	<0.00096	<0.0012	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0010	<0.010	<0.00095	<0.0045	<0.00094	<0.00091	<0.0011	--	--	--	--	--	--	--
b-BHC	<0.0015	<0.015	<0.0014	<0.0068	<0.0014	<0.0014	<0.0017	--	--	--	--	--	--	--
Chlordane	<0.0036	<0.036	<0.0034	<0.016	<0.0034	<0.0032	<0.0039	16	140	100	22	10	48	*
d-BHC	<0.0045	<0.0090	<0.00085	<0.0041	<0.0042	<0.0041	<0.0050	--	--	--	--	--	--	--
Dieldrin	<0.00099	<0.0098	<0.00093	<0.0044	<0.00092	<0.00089	<0.0011	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0010	<0.010	<0.00096	<0.0046	<0.00096	<0.00092	<0.0011	--	--	--	--	--	--	--
Endosulfan II	<0.0010	<0.010	<0.00097	<0.0047	<0.00097	<0.00093	<0.0011	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0053	<0.010	<0.00098	<0.0047	<0.0049	<0.0047	<0.0011	--	--	--	--	--	--	--
Endrin	<0.00097	<0.0096	<0.00090	<0.0043	<0.00090	<0.00087	<0.0011	610	--	61	--	1	5	*
Endrin aldehyde	<0.0054	<0.011	<0.0010	<0.0048	<0.0050	<0.0049	<0.0059	--	--	--	--	--	--	--
Endrin ketone	<0.00092	<0.0091	<0.00086	<0.0041	<0.00086	<0.00083	<0.0010	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.00095	<0.0093	<0.00088	<0.0042	<0.00088	<0.00085	<0.0010	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0011	<0.011	<0.0010	<0.0049	<0.0010	<0.00098	<0.0012	--	--	--	--	--	--	--
Heptachlor	<0.0010	<0.010	<0.00096	<0.0046	<0.00096	<0.00092	<0.0011	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0010	<0.010	<0.00095	<0.0046	<0.00095	<0.00092	<0.0011	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.0012	<0.012	<0.0012	<0.0056	<0.0012	<0.0011	<0.0014	10,000	--	1,000	--	160	780	*
Toxaphene	<0.0076	<0.075	<0.0071	<0.034	<0.0071	<0.0068	<0.0083	5.2	170	110	240	31	150	*

TABLE NO. 6 (5 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB15 (0-3)	SB15 (7.5-10)	SB16 (0-3)	SB16 (3-5)	SB17 (0-3)	SB17 (5-7.5)	SB18 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/30/24**	**8/30/24**	**8/30/24**							
4,4'-DDD	<0.0009	<0.0009	<0.0009	<0.0009	<0.0050	<0.0010	<0.0010	24	--	520	--	16	80	*
4,4'-DDE	<0.0009	<0.0009	<0.0009	<0.0009	<0.0048	<0.0009	<0.0009	17	--	370	--	54	270	*
4,4'-DDT	<0.0008	<0.0008	<0.0008	<0.0008	<0.0044	<0.0009	<0.0008	17	1,500	100	2,100	32	160	*
Aldrin	<0.0013	<0.0012	<0.0012	<0.0013	<0.0065	<0.0013	<0.0013	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0010	<0.0009	<0.0009	<0.0010	<0.0053	<0.0011	<0.0010	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0009	<0.0009	<0.0009	<0.0009	<0.0050	<0.0010	<0.0009	--	--	--	--	--	--	--
b-BHC	<0.0015	<0.0014	<0.0014	<0.0015	<0.0075	<0.0016	<0.0015	--	--	--	--	--	--	--
Chlordane	<0.0035	<0.0033	<0.0033	<0.0035	<0.018	<0.0037	<0.0035	16	140	100	22	10	48	*
d-BHC	<0.0044	<0.0042	<0.0008	<0.0044	<0.018	<0.0009	<0.0008	--	--	--	--	--	--	--
Dieldrin	<0.0009	<0.0009	<0.0009	<0.0009	<0.0049	<0.0010	<0.0009	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0009	<0.0009	<0.0009	<0.0009	<0.0050	<0.0010	<0.0010	--	--	--	--	--	--	--
Endosulfan II	<0.0010	<0.0009	<0.0009	<0.0010	<0.0051	<0.0011	<0.0010	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0010	<0.0009	<0.0009	<0.0010	<0.021	<0.0011	<0.0010	--	--	--	--	--	--	--
Endrin	<0.0009	<0.0008	<0.0008	<0.0009	<0.0048	<0.0009	<0.0009	610	--	61	--	1	5	*
Endrin aldehyde	<0.0052	<0.0050	<0.0009	<0.0052	<0.021	<0.0011	<0.0011	--	--	--	--	--	--	--
Endrin ketone	<0.0009	<0.0008	<0.0008	<0.0008	<0.0045	<0.0009	<0.0009	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0009	<0.0008	<0.0008	<0.0009	<0.0046	<0.0009	<0.0009	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0011	<0.0010	<0.0010	<0.0010	<0.0054	<0.0011	<0.0011	--	--	--	--	--	--	--
Heptachlor	<0.0010	<0.0009	<0.0009	<0.0009	<0.0051	<0.0010	<0.0010	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0009	<0.0009	<0.0009	<0.0009	<0.0050	<0.0010	<0.0010	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.0012	<0.0011	<0.0011	<0.0012	<0.0061	<0.0013	<0.0012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.0074	<0.0070	<0.0070	<0.0073	<0.037	<0.0077	<0.0074	5.2	170	110	240	31	150	*

TABLE NO. 6 (6 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB18 (7.5-10)	SB19 (0-3)	SB19 (5-7.5)	SB20 (0-3)	SB20 (3-5)	SB21 (0-3)	SB21 (12.5-15)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**8/30/24**	**8/30/24**	**8/30/24**	**8/30/24**	**8/30/24**	**8/30/24**	**8/30/24**							
4,4'-DDD	<0.00099	<0.00092	<0.00087	<0.0050	<0.011	<0.0050	<0.0049	24	--	520	--	16	80	*
4,4'-DDE	<0.00095	<0.00088	<0.00083	<0.0048	<0.010	<0.0048	<0.0047	17	--	370	--	54	270	*
4,4'-DDT	<0.00087	<0.00081	<0.00077	<0.0044	<0.0095	<0.0044	<0.0043	17	1,500	100	2,100	32	160	*
Aldrin	<0.0013	<0.0012	<0.0011	<0.0065	<0.014	<0.0064	<0.0063	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0010	<0.00096	<0.00091	<0.0052	<0.011	<0.0052	<0.0051	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.00098	<0.00091	<0.00087	<0.0050	<0.011	<0.0050	<0.0049	--	--	--	--	--	--	--
b-BHC	<0.0015	<0.0014	<0.0013	<0.0075	<0.016	<0.0075	<0.0074	--	--	--	--	--	--	--
Chlordane	<0.0035	<0.0032	<0.0031	<0.018	<0.038	<0.018	<0.017	16	140	100	22	10	48	*
d-BHC	<0.00088	<0.00082	<0.00077	<0.018	<0.048	<0.018	<0.017	--	--	--	--	--	--	--
Dieldrin	<0.00096	<0.00089	<0.00085	<0.0049	<0.010	<0.0048	<0.0048	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.00099	<0.00092	<0.00087	<0.0050	<0.011	<0.0050	<0.0049	--	--	--	--	--	--	--
Endosulfan II	<0.0010	<0.00094	<0.00089	<0.0051	<0.011	<0.0051	<0.0050	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0010	<0.00094	<0.00090	<0.021	<0.055	<0.021	<0.020	--	--	--	--	--	--	--
Endrin	<0.00094	<0.00087	<0.00083	<0.0048	<0.010	<0.0047	<0.0047	610	--	61	--	1	5	*
Endrin aldehyde	<0.0010	<0.00097	<0.00092	<0.021	<0.057	<0.021	<0.021	--	--	--	--	--	--	--
Endrin ketone	<0.00089	<0.00083	<0.00079	<0.0045	<0.0097	<0.0045	<0.0044	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.00091	<0.00085	<0.00081	<0.0046	<0.010	<0.0046	<0.0045	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0011	<0.00098	<0.00093	<0.0054	<0.012	<0.0053	<0.0053	--	--	--	--	--	--	--
Heptachlor	<0.00099	<0.00092	<0.00088	<0.0050	<0.011	<0.0050	<0.0049	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.00099	<0.00092	<0.00087	<0.0050	<0.011	<0.0050	<0.0049	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.0012	<0.0011	<0.0011	<0.0061	<0.013	<0.0061	<0.0060	10,000	--	1,000	--	160	780	*
Toxaphene	<0.0073	<0.0068	<0.0065	<0.037	<0.080	<0.037	<0.037	5.2	170	110	240	31	150	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO

TABLE NO. 6 (7 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB22 (0-3)	SB22 (10-12.5)	SB23 (0-3)	SB23 (5-7.5)	SB24 (0-3)	SB24 (7.5-10)	SB25 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	8/30/24	8/30/24	8/30/24	8/30/24	9/3/24	9/3/24	9/3/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
4,4'-DDD	<0.00097	<0.00095	<0.00096	<0.00096	<0.0093	<0.0097	<0.0094	24	--	520	--	16	80	*
4,4'-DDE	<0.00093	<0.00091	<0.00092	<0.00092	<0.0089	<0.0093	<0.0090	17	--	370	--	54	270	*
4,4'-DDT	<0.00086	<0.00084	<0.00085	<0.00085	<0.0082	<0.0086	<0.0083	17	1,500	100	2,100	32	160	*
Aldrin	<0.0013	<0.0012	<0.0012	<0.0012	<0.012	<0.013	<0.012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0098	<0.010	<0.0098	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.00096	<0.00095	<0.00095	<0.00096	<0.0093	<0.0097	<0.0093	--	--	--	--	--	--	--
b-BHC	<0.0015	<0.0014	<0.0014	<0.0014	<0.014	<0.015	<0.014	--	--	--	--	--	--	--
Chlordane	<0.0034	<0.0034	<0.0034	<0.0034	<0.033	<0.034	<0.033	16	140	100	22	10	48	*
d-BHC	<0.00086	<0.00085	<0.00085	<0.0043	<0.0083	<0.0087	<0.0084	--	--	--	--	--	--	--
Dieldrin	<0.00094	<0.00093	<0.00093	<0.00094	<0.0091	<0.0095	<0.0091	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.00098	<0.00096	<0.00097	<0.00097	<0.0094	<0.0098	<0.0095	--	--	--	--	--	--	--
Endosulfan II	<0.00099	<0.00097	<0.00098	<0.00098	<0.0095	<0.0099	<0.0096	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0010	<0.00098	<0.00099	<0.0050	<0.0096	<0.010	<0.0097	--	--	--	--	--	--	--
Endrin	<0.00092	<0.00090	<0.00091	<0.00091	<0.0088	<0.0092	<0.0089	610	--	61	--	1	5	*
Endrin aldehyde	<0.0010	<0.0010	<0.0010	<0.0051	<0.0099	<0.010	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.00088	<0.00086	<0.00087	<0.00087	<0.0084	<0.0088	<0.0085	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.00090	<0.00088	<0.00089	<0.00089	<0.0086	<0.0090	<0.0087	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0010	<0.0010	<0.0010	<0.0010	<0.010	<0.010	<0.010	--	--	--	--	--	--	--
Heptachlor	<0.00098	<0.00096	<0.00097	<0.00097	<0.0094	<0.0098	<0.0095	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.00097	<0.00095	<0.00096	<0.00096	<0.0093	<0.0098	<0.0094	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.0012	<0.0012	<0.0012	<0.0012	<0.011	<0.012	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.0072	<0.0071	<0.0071	<0.0072	<0.069	<0.072	<0.070	5.2	170	110	240	31	150	*

TABLE NO. 6 (8 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB25 (3-5)	SB26 (0-3)	SB26 (7.5-10)	SB27 (0-3)	SB27 (5-7.5)	SB28 (0-3)	SB28 (10-12.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	9/3/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
4,4'-DDD	<0.0046	<0.0048	<0.0049	<0.0049	<0.0055	<0.0096	<0.0052	24	--	520	--	16	80	*
4,4'-DDE	<0.0044	<0.0046	<0.0047	<0.0047	<0.0053	<0.0092	<0.0050	17	--	370	--	54	270	*
4,4'-DDT	<0.0041	<0.0042	<0.0043	<0.0044	<0.0048	<0.0085	<0.0046	17	1,500	100	2,100	32	160	*
Aldrin	<0.0060	<0.0062	<0.0063	<0.0064	<0.0071	<0.012	<0.0067	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0049	<0.0050	<0.0051	<0.0052	<0.0057	<0.010	<0.0054	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0046	<0.0048	<0.0048	<0.0049	<0.0055	<0.0096	<0.0051	--	--	--	--	--	--	--
b-BHC	<0.0070	<0.0072	<0.0073	<0.0074	<0.0082	<0.014	<0.0078	--	--	--	--	--	--	--
Chlordane	<0.016	<0.017	<0.017	<0.017	<0.019	<0.034	<0.018	16	140	100	22	10	48	*
d-BHC	<0.0041	<0.0043	<0.0043	<0.0044	<0.0049	<0.0086	<0.0046	--	--	--	--	--	--	--
Dieldrin	<0.0045	<0.0047	<0.0047	<0.0048	<0.0053	<0.0094	<0.0050	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0047	<0.0048	<0.0049	<0.0050	<0.0055	<0.0097	<0.0052	--	--	--	--	--	--	--
Endosulfan II	<0.0047	<0.0049	<0.0050	<0.0050	<0.0056	<0.0098	<0.0053	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0048	<0.0049	<0.0050	<0.0051	<0.0056	<0.0099	<0.0053	--	--	--	--	--	--	--
Endrin	<0.0044	<0.0045	<0.0046	<0.0047	<0.0052	<0.0091	<0.0049	610	--	61	--	1	5	*
Endrin aldehyde	<0.0049	<0.0051	<0.0052	<0.0052	<0.0058	<0.010	<0.0055	--	--	--	--	--	--	--
Endrin ketone	<0.0042	<0.0043	<0.0044	<0.0045	<0.0050	<0.0087	<0.0047	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0043	<0.0044	<0.0045	<0.0046	<0.0051	<0.0089	<0.0048	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0050	<0.0051	<0.0052	<0.0053	<0.0059	<0.010	<0.0055	--	--	--	--	--	--	--
Heptachlor	<0.0047	<0.0048	<0.0049	<0.0050	<0.0055	<0.0097	<0.0052	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0047	<0.0048	<0.0049	<0.0050	<0.0055	<0.0097	<0.0052	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.0057	<0.0059	<0.0060	<0.0061	<0.0067	<0.012	<0.0063	10,000	--	1,000	--	160	780	*
Toxaphene	<0.034	<0.036	<0.036	<0.037	<0.041	<0.072	<0.038	5.2	170	110	240	31	150	*

TABLE NO. 6 (9 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB29 (0-3)	SB29 (7.5-10)	SB30 (0-3)	SB30 (12.5-15)	SB31 (0-3)	SB31 (7.5-10)	SB32 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/3/24	9/3/24	9/3/24	9/3/24	9/4/24	9/4/24	9/4/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
4,4'-DDD	<0.0096	<0.010	<0.0094	<0.0071	<0.0096	<0.010	<0.0094	24	--	520	--	16	80	*
4,4'-DDE	<0.0092	<0.010	<0.0090	<0.0068	<0.0092	<0.010	<0.0090	17	--	370	--	54	270	*
4,4'-DDT	<0.0085	<0.0092	<0.0083	<0.0063	<0.0085	<0.0092	<0.0083	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.013	<0.012	<0.0092	<0.012	<0.013	<0.012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.010	<0.011	<0.0098	<0.0075	<0.010	<0.011	<0.0098	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0096	<0.010	<0.0093	<0.0071	<0.0096	<0.010	<0.0093	--	--	--	--	--	--	--
b-BHC	<0.014	<0.016	<0.014	0.18	<0.014	<0.016	<0.014	--	--	--	--	--	--	--
Chlordane	<0.034	<0.037	<0.033	<0.025	<0.034	<0.037	<0.033	16	140	100	22	10	48	*
d-BHC	<0.043	<0.0093	<0.0083	<0.0063	<0.043	<0.0093	<0.0083	--	--	--	--	--	--	--
Dieldrin	<0.0094	<0.010	<0.0091	<0.0069	<0.0094	<0.010	<0.0091	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0097	<0.010	<0.0094	<0.0072	<0.0097	<0.010	<0.0094	--	--	--	--	--	--	--
Endosulfan II	<0.0098	<0.011	<0.0096	<0.0073	<0.0098	<0.011	<0.0096	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.050	<0.011	<0.0097	<0.0073	<0.050	<0.011	<0.0097	--	--	--	--	--	--	--
Endrin	<0.0092	<0.0099	<0.0089	<0.0068	<0.0092	<0.0099	<0.0089	610	--	61	--	1	5	*
Endrin aldehyde	<0.051	<0.011	<0.010	<0.0076	<0.051	<0.011	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.0087	<0.0094	<0.0085	<0.0065	<0.0087	<0.0094	<0.0085	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0089	<0.0097	<0.0087	<0.0066	<0.0089	<0.0097	<0.0087	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.010	<0.011	<0.010	<0.0076	<0.010	<0.011	<0.010	--	--	--	--	--	--	--
Heptachlor	<0.0097	<0.011	<0.0094	<0.0072	<0.0097	<0.011	<0.0094	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0097	<0.010	<0.0094	<0.0071	<0.0097	<0.010	<0.0094	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.013	<0.011	<0.0087	<0.012	<0.013	<0.011	10,000	--	1,000	--	160	780	*
Toxaphene	<0.072	<0.078	<0.070	<0.053	<0.072	<0.078	<0.070	5.2	170	110	240	31	150	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO

TABLE NO. 6 (10 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB32 (5-7.5)	SB33 (0-3)	SB33 (5-7.5)	SB34 (0-3)	SB34 (5-7.5)	SB35 (0-3)	SB35 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**							
4,4'-DDD	<0.0099	<0.0094	<0.011	<0.0096	<0.0095	<0.048	<0.010	24	--	520	--	16	80	*
4,4'-DDE	<0.0095	<0.0090	<0.010	<0.0092	<0.0091	<0.046	<0.0097	17	--	370	--	54	270	*
4,4'-DDT	<0.0088	<0.0083	<0.0094	<0.0085	<0.0083	<0.042	<0.0089	17	1,500	100	2,100	32	160	*
Aldrin	<0.013	<0.012	<0.014	<0.012	<0.012	<0.062	<0.013	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.010	<0.0099	<0.011	<0.010	<0.0099	<0.050	<0.011	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0099	<0.0094	<0.011	<0.0096	<0.0094	<0.047	<0.010	--	--	--	--	--	--	--
b-BHC	<0.015	<0.014	<0.016	<0.014	<0.014	<0.071	<0.015	--	--	--	--	--	--	--
Chlordane	<0.035	<0.033	<0.038	<0.034	<0.033	<0.17	<0.036	16	140	100	22	10	48	*
d-BHC	<0.0089	<0.0084	<0.0095	<0.0086	<0.0084	<0.042	<0.045	--	--	--	--	--	--	--
Dieldrin	<0.0097	<0.0092	<0.010	<0.0094	<0.0092	<0.046	<0.0099	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.010	<0.0095	<0.011	<0.0097	<0.0095	<0.048	<0.010	--	--	--	--	--	--	--
Endosulfan II	<0.010	<0.0096	<0.011	<0.0098	<0.0096	<0.049	<0.010	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.010	<0.0097	<0.011	<0.0099	<0.0097	<0.049	<0.052	--	--	--	--	--	--	--
Endrin	<0.0094	<0.0089	<0.010	<0.0091	<0.0090	<0.045	<0.0096	610	--	61	--	1	5	*
Endrin aldehyde	<0.011	<0.010	<0.011	<0.010	<0.010	<0.051	<0.054	--	--	--	--	--	--	--
Endrin ketone	<0.0090	<0.0085	<0.0096	<0.0087	<0.0086	<0.043	<0.0092	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0092	<0.0087	<0.0099	<0.0089	<0.0088	<0.044	<0.0094	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.011	<0.010	<0.011	<0.010	<0.010	<0.051	<0.011	--	--	--	--	--	--	--
Heptachlor	<0.010	<0.0095	<0.011	<0.0097	<0.0095	<0.048	<0.010	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.010	<0.0094	<0.011	<0.0097	<0.0095	<0.048	<0.010	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.012	<0.013	<0.012	<0.012	<0.058	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.074	<0.070	<0.079	<0.072	<0.070	<0.35	<0.075	5.2	170	110	240	31	150	*

TABLE NO. 6 (11 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB36 (0-3)	SB36 (5-7.5)	SB37 (0-3)	SB37 (12.5-15)	SB38 (0-3)	SB38 (12.5-15)	SB39 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**							
4,4'-DDD	<0.0095	<0.0094	<0.0099	<0.0099	<0.0094	<0.0093	<0.0098	24	--	520	--	16	80	*
4,4'-DDE	<0.0091	<0.0090	<0.0095	<0.0094	<0.0090	<0.0089	<0.0094	17	--	370	--	54	270	*
4,4'-DDT	<0.0084	<0.0083	<0.0087	<0.0087	<0.0083	<0.0082	<0.0087	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.012	<0.013	<0.013	<0.012	<0.012	<0.013	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0099	<0.0098	<0.010	<0.010	<0.0098	<0.0097	<0.010	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0094	<0.0094	<0.0098	<0.0098	<0.0093	<0.0092	<0.0098	--	--	--	--	--	--	--
b-BHC	<0.014	<0.014	<0.015	<0.015	<0.014	<0.014	<0.015	--	--	--	--	--	--	--
Chlordane	<0.033	<0.033	<0.035	<0.035	<0.033	<0.033	<0.035	16	140	100	22	10	48	*
d-BHC	<0.0084	<0.0084	<0.0088	<0.0088	<0.0083	<0.0082	<0.0088	--	--	--	--	--	--	--
Dieldrin	<0.0092	<0.0091	<0.0096	<0.0096	<0.0091	<0.0090	<0.0096	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0095	<0.0095	<0.0099	<0.0099	<0.0094	<0.0093	<0.0099	--	--	--	--	--	--	--
Endosulfan II	<0.0097	<0.0096	<0.010	<0.010	<0.0095	<0.0094	<0.010	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0097	<0.0097	<0.010	<0.010	<0.0096	<0.0095	<0.010	--	--	--	--	--	--	--
Endrin	<0.0090	<0.0089	<0.0094	<0.0094	<0.0089	<0.0088	<0.0093	610	--	61	--	1	5	*
Endrin aldehyde	<0.010	<0.010	<0.010	<0.010	<0.0099	<0.0098	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.0086	<0.0085	<0.0089	<0.0089	<0.0085	<0.0084	<0.0089	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0088	<0.0087	<0.0092	<0.0091	<0.0087	<0.0086	<0.0091	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.010	<0.010	<0.011	<0.011	<0.010	<0.0099	<0.011	--	--	--	--	--	--	--
Heptachlor	<0.0095	<0.0095	<0.010	<0.0099	<0.0094	<0.0093	<0.0099	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0095	<0.0094	<0.0099	<0.0099	<0.0094	<0.0093	<0.0099	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.012	<0.012	<0.012	<0.011	<0.011	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.070	<0.070	<0.073	<0.073	<0.070	<0.069	<0.073	5.2	170	110	240	31	150	*

TABLE NO. 6 (12 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB39 (7.5-10)	SB40 (0-3)	SB40 (5-7.5)	SB40 (0-3)	SB41 (5-7.5)	SB42 (0-3)	SB42 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**							
4,4'-DDD	<0.0094	<0.0093	<0.010	<0.011	<0.010	<0.0091	<0.0090	24	--	520	--	16	80	*
4,4'-DDE	<0.0090	<0.0089	<0.0097	<0.011	<0.0096	<0.0088	<0.0086	17	--	370	--	54	270	*
4,4'-DDT	<0.0083	<0.0082	<0.0089	0.32	<0.0088	<0.0081	<0.0079	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.012	<0.013	<0.015	<0.013	<0.012	<0.012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0098	<0.0097	<0.011	<0.012	<0.010	<0.0096	<0.0094	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0093	<0.0093	<0.010	<0.011	<0.0099	<0.0091	<0.0090	--	--	--	--	--	--	--
b-BHC	<0.014	<0.014	<0.015	<0.017	<0.015	<0.014	<0.013	--	--	--	--	--	--	--
Chlordane	<0.033	<0.033	<0.036	<0.040	<0.035	<0.032	<0.032	16	140	100	22	10	48	*
d-BHC	<0.0083	<0.0083	<0.045	<0.010	<0.0089	<0.0081	<0.0080	--	--	--	--	--	--	--
Dieldrin	<0.0091	<0.0090	<0.0098	<0.011	<0.0097	0.014	<0.0088	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0094	<0.0094	<0.010	<0.011	<0.010	<0.0092	<0.0090	--	--	--	--	--	--	--
Endosulfan II	<0.0096	<0.0095	<0.010	<0.011	<0.010	<0.0093	<0.0092	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0096	<0.0096	<0.052	<0.012	<0.010	<0.0094	<0.0093	--	--	--	--	--	--	--
Endrin	<0.0089	<0.0088	<0.0096	<0.011	<0.0095	<0.0087	<0.0085	610	--	61	--	1	5	*
Endrin aldehyde	<0.0099	<0.0099	<0.011	<0.012	<0.011	<0.0097	<0.0095	--	--	--	--	--	--	--
Endrin ketone	<0.0085	<0.0084	<0.0092	<0.010	<0.0090	<0.0083	<0.0081	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0087	<0.0086	<0.0094	<0.010	<0.0092	<0.0085	<0.0083	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.010	<0.010	<0.011	<0.012	<0.011	<0.0098	<0.0096	--	--	--	--	--	--	--
Heptachlor	<0.0094	<0.0094	<0.010	<0.011	<0.010	<0.0092	<0.0091	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0094	<0.0093	<0.010	<0.011	<0.010	<0.0092	<0.0090	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.011	<0.011	<0.012	<0.014	<0.012	<0.011	<0.011	10,000	--	1,000	--	160	780	*
Toxaphene	<0.070	<0.069	<0.075	<0.084	<0.074	<0.068	<0.067	5.2	170	110	240	31	150	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO

TABLE NO. 6 (13 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB43 (0-3)	SB43 (10-12.5)	SB44 (0-3)	SB44 (5-7.5)	SB45 (0-3)	SB45 (5-7.5)	SB46 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/4/24	9/4/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
4,4'-DDD	<0.0096	<0.010	<0.0093	<0.010	<0.0090	<0.048	<0.0093	24	--	520	--	16	80	*
4,4'-DDE	<0.0092	<0.0098	<0.0089	<0.0096	<0.0086	<0.046	<0.0089	17	--	370	--	54	270	*
4,4'-DDT	<0.0085	<0.0090	<0.0082	<0.0089	<0.0079	<0.042	<0.0082	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.013	<0.012	<0.013	<0.012	<0.012	<0.012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.010	<0.011	<0.0098	<0.010	<0.0094	<0.010	<0.0097	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0095	<0.010	<0.0093	<0.010	<0.0089	<0.0095	<0.0092	--	--	--	--	--	--	--
b-BHC	<0.014	<0.015	<0.014	<0.015	<0.013	<0.014	<0.014	--	--	--	--	--	--	--
Chlordane	<0.034	<0.036	<0.033	<0.035	<0.032	<0.034	<0.033	16	140	100	22	10	48	*
d-BHC	<0.0085	<0.0091	<0.0083	<0.0089	<0.0080	<0.043	<0.0082	--	--	--	--	--	--	--
Dieldrin	<0.0093	<0.0099	<0.0091	<0.0097	<0.0087	<0.0093	<0.0090	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0096	<0.010	<0.0094	<0.010	<0.0090	<0.0096	<0.0093	--	--	--	--	--	--	--
Endosulfan II	<0.0098	<0.010	<0.0095	<0.010	<0.0092	<0.0098	<0.0094	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0099	<0.010	<0.0096	<0.010	<0.0093	<0.049	<0.0095	--	--	--	--	--	--	--
Endrin	<0.0091	<0.0097	<0.0089	<0.0095	<0.0085	<0.0091	<0.0088	610	--	61	--	1	5	*
Endrin aldehyde	<0.010	<0.011	<0.0099	<0.011	<0.0095	<0.051	<0.0098	--	--	--	--	--	--	--
Endrin ketone	<0.0087	<0.0092	<0.0084	<0.0091	<0.0081	<0.0087	<0.0084	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0089	<0.0094	<0.0086	<0.0093	<0.0083	<0.044	<0.0086	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.010	<0.011	<0.010	<0.011	<0.0096	<0.010	<0.0099	--	--	--	--	--	--	--
Heptachlor	<0.0097	<0.010	<0.0094	<0.010	<0.0091	<0.0096	<0.0093	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0096	<0.010	<0.0093	<0.010	<0.0090	<0.0096	<0.0093	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.012	<0.011	<0.012	<0.011	<0.012	<0.011	10,000	--	1,000	--	160	780	*
Toxaphene	<0.071	<0.076	<0.069	<0.074	<0.067	<0.071	<0.069	5.2	170	110	240	31	150	*

TABLE NO. 6 (14 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB46 (3-5)	SB47 (0-3)	SB47 (7.5-10)	SB48 (0-3)	SB48 (5-7.5)	SB49 (0-3)	SB49 (10-12.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
4,4'-DDD	<0.0096	<0.0096	<0.0092	<0.0097	<0.0092	<0.0095	<0.011	24	--	520	--	16	80	*
4,4'-DDE	<0.0092	<0.0092	<0.0089	<0.0093	<0.0088	<0.0091	<0.011	17	--	370	--	54	270	*
4,4'-DDT	<0.0085	<0.0085	<0.0082	<0.0086	<0.0081	<0.0084	<0.010	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.012	<0.012	<0.013	<0.012	<0.012	<0.015	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.010	<0.010	<0.0097	<0.010	<0.0096	<0.0099	<0.012	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0096	<0.0096	<0.0092	<0.0097	<0.0092	<0.0094	<0.011	--	--	--	--	--	--	--
b-BHC	<0.014	<0.014	<0.014	<0.015	<0.014	<0.014	<0.017	--	--	--	--	--	--	--
Chlordane	<0.034	<0.034	<0.033	<0.034	<0.032	<0.033	<0.040	16	140	100	22	10	48	*
d-BHC	<0.0085	<0.0086	<0.0082	<0.0087	<0.0082	<0.0084	<0.010	--	--	--	--	--	--	--
Dieldrin	<0.0093	<0.0094	<0.0090	<0.0095	<0.0090	<0.0092	<0.011	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0097	<0.0097	<0.0093	<0.0098	<0.0093	<0.0095	<0.011	--	--	--	--	--	--	--
Endosulfan II	<0.0098	<0.0098	<0.0094	<0.0099	<0.0094	<0.0097	<0.012	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0099	<0.0099	<0.0095	<0.010	<0.0095	<0.0098	<0.012	--	--	--	--	--	--	--
Endrin	<0.0091	<0.0091	<0.0088	<0.0092	<0.0087	<0.0090	<0.011	610	--	61	--	1	5	*
Endrin aldehyde	<0.010	<0.010	<0.0098	<0.010	<0.0098	<0.010	<0.012	--	--	--	--	--	--	--
Endrin ketone	<0.0087	<0.0087	<0.0084	<0.0088	<0.0083	<0.0086	<0.010	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0089	<0.0089	<0.0086	<0.0090	<0.0085	<0.0088	<0.010	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.010	<0.010	<0.0099	<0.010	<0.0099	<0.010	<0.012	--	--	--	--	--	--	--
Heptachlor	<0.0097	<0.0097	<0.0093	<0.0098	<0.0093	<0.0095	<0.011	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0096	<0.0097	<0.0093	<0.0098	<0.0092	<0.0095	<0.011	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.012	<0.011	<0.012	<0.011	<0.012	<0.014	10,000	--	1,000	--	160	780	*
Toxaphene	<0.071	<0.072	<0.069	<0.072	<0.068	<0.070	<0.084	5.2	170	110	240	31	150	*

TABLE NO. 6 (15 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB50 (0-3)	SB50 (7.5-10)	SB51 (0-3)	SB51 (5-7.5)	SB52 (0-3)	SB52 (7.5-10)	SB53 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
4,4'-DDD	<0.0089	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010	24	--	520	--	16	80	*
4,4'-DDE	<0.0085	<0.0096	<0.0097	<0.0095	<0.0097	<0.010	<0.0098	17	--	370	--	54	270	*
4,4'-DDT	<0.0079	<0.0088	<0.0089	<0.0088	<0.0090	<0.0095	<0.0090	17	1,500	100	2,100	32	160	*
Aldrin	<0.011	<0.013	<0.013	<0.013	<0.013	<0.014	<0.013	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0093	<0.010	<0.011	<0.010	<0.011	<0.011	<0.011	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0089	<0.0099	<0.010	<0.0099	<0.010	<0.011	<0.010	--	--	--	--	--	--	--
b-BHC	<0.013	<0.015	<0.015	<0.015	<0.015	<0.016	<0.015	--	--	--	--	--	--	--
Chlordane	<0.031	<0.035	<0.036	<0.035	<0.036	<0.038	<0.036	16	140	100	22	10	48	*
d-BHC	<0.0079	<0.0089	<0.0090	<0.0089	<0.0091	<0.048	<0.0091	--	--	--	--	--	--	--
Dieldrin	<0.0087	<0.0097	<0.0098	<0.0097	<0.0099	<0.010	<0.0099	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0089	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010	--	--	--	--	--	--	--
Endosulfan II	<0.0091	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0092	<0.010	<0.010	<0.010	<0.010	<0.055	<0.011	--	--	--	--	--	--	--
Endrin	<0.0084	<0.0095	<0.0096	<0.0095	<0.0097	<0.010	<0.0097	610	--	61	--	1	5	*
Endrin aldehyde	<0.0094	<0.011	<0.011	<0.011	<0.011	<0.057	<0.011	--	--	--	--	--	--	--
Endrin ketone	<0.0081	<0.0090	<0.0091	<0.0090	<0.0092	<0.0097	<0.0092	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0082	<0.0093	<0.0093	<0.0092	<0.0094	<0.0099	<0.0095	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0095	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	--	--	--	--	--	--	--
Heptachlor	<0.0090	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0089	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.011	<0.012	<0.012	<0.012	<0.012	<0.013	<0.013	10,000	--	1,000	--	160	780	*
Toxaphene	<0.066	<0.074	<0.075	<0.074	<0.076	<0.080	<0.076	5.2	170	110	240	31	150	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO

TABLE NO. 6 (16 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB53 (10-12.5)	SB54 (0-3)	SB54 (10-12.5)	SB55 (0-3)	SB55 (5-7.5)	SB56 (0-3)	SB56 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**	**9/5/24**	**9/6/24**	**9/6/24**							
4,4'-DDD	<0.010	<0.011	<0.011	<0.096	<0.011	<0.0098	<0.010	24	--	520	--	16	80	*
4,4'-DDE	<0.0098	<0.010	<0.011	1.2	<0.010	<0.0094	<0.010	17	--	370	--	54	270	*
4,4'-DDT	<0.0091	<0.0093	<0.0098	3.3	<0.0094	<0.0087	<0.0092	17	1,500	100	2,100	32	160	*
Aldrin	<0.013	<0.014	<0.014	<0.12	<0.014	<0.013	<0.013	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.011	<0.011	<0.012	<0.10	<0.011	<0.010	<0.011	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.010	<0.010	<0.011	<0.096	<0.011	<0.0098	<0.010	--	--	--	--	--	--	--
b-BHC	<0.015	<0.016	<0.017	<0.14	<0.016	<0.015	<0.016	--	--	--	--	--	--	--
Chlordane	<0.036	<0.037	<0.039	<0.34	<0.038	<0.035	<0.037	16	140	100	22	10	48	*
d-BHC	<0.0091	<0.0094	<0.0098	<0.086	<0.0095	<0.0087	<0.0093	--	--	--	--	--	--	--
Dieldrin	<0.010	<0.010	<0.011	**0.51**	<0.010	<0.0096	<0.010	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.010	<0.011	<0.011	<0.097	<0.011	<0.0099	<0.010	--	--	--	--	--	--	--
Endosulfan II	<0.010	<0.011	<0.011	0.64	<0.011	<0.010	<0.011	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.011	<0.011	<0.011	<0.099	<0.011	<0.010	<0.011	--	--	--	--	--	--	--
Endrin	<0.0098	<0.010	<0.010	0.14	<0.010	<0.0093	<0.0099	610	--	61	--	1	5	*
Endrin aldehyde	<0.011	<0.011	<0.012	0.14	<0.011	<0.010	<0.011	--	--	--	--	--	--	--
Endrin ketone	<0.0093	<0.0095	<0.010	<0.087	<0.0096	<0.0089	<0.0094	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0095	<0.0098	<0.010	<0.089	<0.0099	<0.0091	<0.0097	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.011	<0.011	<0.012	<0.10	<0.011	<0.011	<0.011	--	--	--	--	--	--	--
Heptachlor	<0.010	<0.011	<0.011	<0.097	<0.011	<0.0099	<0.010	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.010	<0.011	<0.011	**1.1**	<0.011	<0.0098	<0.010	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.013	<0.013	<0.014	<0.12	<0.013	<0.012	<0.013	10,000	--	1,000	--	160	780	*
Toxaphene	<0.076	<0.078	<0.082	<0.72	<0.079	<0.073	<0.077	5.2	170	110	240	31	150	*

TABLE NO. 6 (17 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB57 (0-3)	SB57 (7.5-10)	SB58 (0-3)	SB58 (10-12.5)	SB59 (0-3)	SB59 (5-7.5)	SB60 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/6/24**	**9/6/24**	**9/6/24**	**9/6/24**	**9/6/24**	**9/6/24**	**9/6/24**							
4,4'-DDD	<0.0095	<0.010	<0.0096	<0.0091	<0.0094	<0.0093	<0.0095	24	--	520	--	16	80	*
4,4'-DDE	<0.0091	<0.0098	<0.0092	<0.0088	<0.0090	<0.0089	<0.0091	17	--	370	--	54	270	*
4,4'-DDT	<0.0084	<0.0090	<0.0085	<0.0081	<0.0083	<0.0082	<0.0084	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.013	<0.012	<0.012	<0.012	<0.012	<0.012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0099	<0.011	<0.010	<0.0096	<0.0098	<0.0098	<0.0099	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0094	<0.010	<0.0096	<0.0091	<0.0093	<0.0093	<0.0094	--	--	--	--	--	--	--
b-BHC	<0.014	<0.015	<0.014	<0.014	<0.014	<0.014	<0.014	--	--	--	--	--	--	--
Chlordane	<0.033	<0.036	<0.034	<0.032	<0.033	<0.033	<0.033	16	140	100	22	10	48	*
d-BHC	<0.0084	<0.0091	<0.0086	<0.0081	<0.0083	<0.0083	<0.0084	--	--	--	--	--	--	--
Dieldrin	<0.0092	<0.0099	<0.0093	<0.0089	<0.0091	<0.0091	<0.0092	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0095	<0.010	<0.0097	<0.0092	<0.0094	<0.0094	<0.0095	--	--	--	--	--	--	--
Endosulfan II	<0.0097	<0.010	<0.0098	<0.0093	<0.0096	<0.0095	<0.0096	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0097	<0.011	<0.0099	<0.0094	<0.0097	<0.0096	<0.0097	--	--	--	--	--	--	--
Endrin	<0.0090	<0.0097	<0.0091	<0.0087	<0.0089	<0.0089	<0.0090	610	--	61	--	1	5	*
Endrin aldehyde	<0.010	<0.011	<0.010	<0.0097	<0.010	<0.0099	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.0086	<0.0093	<0.0087	<0.0083	<0.0085	<0.0085	<0.0086	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0088	<0.0095	<0.0089	<0.0085	<0.0087	<0.0086	<0.0088	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.010	<0.011	<0.010	<0.0098	<0.010	<0.010	<0.010	--	--	--	--	--	--	--
Heptachlor	<0.0095	<0.010	<0.0097	<0.0092	<0.0094	<0.0094	<0.0095	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0095	<0.010	<0.0096	<0.0092	<0.0094	<0.0094	<0.0095	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.013	<0.012	<0.011	<0.011	<0.011	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.070	<0.076	<0.071	<0.068	<0.070	<0.069	<0.070	5.2	170	110	240	31	150	*

TABLE NO. 6 (18 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB60 (7.5-10)	SB61 (0-3)	SB61 (17.5-19)	SB62 (0-3)	SB62 (7.5-10)	SB63 (0-3)	SB63 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/6/24**	**9/6/24**	**9/6/24**	**9/6/24**	**9/6/24**	**9/6/24**	**9/6/24**							
4,4'-DDD	<0.0092	<0.0095	<0.014	<0.010	<0.011	<0.019	<0.010	24	--	520	--	16	80	*
4,4'-DDE	<0.0089	<0.0091	<0.013	<0.0099	<0.010	<0.018	<0.010	17	--	370	--	54	270	*
4,4'-DDT	<0.0082	<0.0084	<0.012	<0.0091	<0.0094	<0.017	<0.0092	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.012	<0.018	<0.013	<0.014	<0.025	<0.014	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0097	<0.010	<0.015	<0.011	<0.011	<0.020	<0.011	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0092	<0.0095	<0.014	<0.010	<0.011	<0.019	<0.010	--	--	--	--	--	--	--
b-BHC	<0.014	<0.014	<0.021	<0.015	<0.016	<0.029	<0.016	--	--	--	--	--	--	--
Chlordane	<0.033	<0.034	<0.050	<0.036	<0.038	<0.068	<0.037	16	140	100	22	10	48	*
d-BHC	<0.0082	<0.0085	<0.012	<0.0091	<0.0095	<0.017	<0.0093	--	--	--	--	--	--	--
Dieldrin	<0.0090	<0.0093	<0.014	<0.010	<0.010	<0.019	<0.010	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0093	<0.0096	<0.014	<0.010	<0.011	<0.019	<0.011	--	--	--	--	--	--	--
Endosulfan II	<0.0094	<0.0097	<0.014	<0.010	<0.011	<0.020	<0.011	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0095	<0.0098	<0.014	<0.011	<0.011	<0.020	<0.011	--	--	--	--	--	--	--
Endrin	<0.0088	<0.0090	<0.013	<0.0098	<0.010	<0.018	<0.0099	610	--	61	--	1	5	*
Endrin aldehyde	<0.0098	<0.010	<0.015	<0.011	<0.011	<0.020	<0.011	--	--	--	--	--	--	--
Endrin ketone	<0.0084	<0.0086	<0.013	<0.0093	<0.0096	<0.017	<0.0095	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0086	<0.0088	<0.013	<0.0095	<0.0099	<0.018	<0.0097	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0099	<0.010	<0.015	<0.011	<0.011	<0.020	<0.011	--	--	--	--	--	--	--
Heptachlor	<0.0093	<0.0096	<0.014	<0.010	<0.011	<0.019	<0.011	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0093	<0.0095	<0.014	<0.010	<0.011	<0.019	<0.010	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.011	<0.012	<0.017	<0.013	<0.013	<0.023	<0.013	10,000	--	1,000	--	160	780	*
Toxaphene	<0.069	<0.071	<0.10	<0.076	<0.079	<0.14	<0.078	5.2	170	110	240	31	150	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO

TABLE NO. 6 (19 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB64 (0-3)	SB64 (7.5-10)	SB65 (0-3)	SB65 (7.5-10)	SB66 (0-3)	SB66 (5-7.5)	SB67 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/6/24**	**9/6/24**	**9/6/24**	**9/6/24**	**9/6/24**	**9/6/24**	**9/6/24**							
4,4'-DDD	<0.010	<0.011	<0.0095	<0.0095	<0.0096	<0.0093	<0.0093	24	--	520	--	16	80	*
4,4'-DDE	<0.0097	<0.011	<0.0091	<0.0091	<0.0092	<0.0089	<0.0089	17	--	370	--	54	270	*
4,4'-DDT	<0.0090	<0.010	<0.0084	<0.0084	<0.0085	<0.0082	<0.0082	17	1,500	100	2,100	32	160	*
Aldrin	<0.013	<0.015	<0.012	<0.012	<0.012	<0.012	<0.012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.011	<0.012	<0.0099	<0.010	<0.010	<0.0097	<0.0097	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.010	<0.011	<0.0094	<0.0095	<0.0096	<0.0092	<0.0092	--	--	--	--	--	--	--
b-BHC	<0.015	<0.017	<0.014	<0.014	<0.014	<0.014	<0.014	--	--	--	--	--	--	--
Chlordane	<0.036	<0.040	<0.033	<0.034	<0.034	<0.033	<0.033	16	140	100	22	10	48	*
d-BHC	<0.0090	<0.010	<0.0084	<0.0085	<0.0086	<0.0083	<0.0083	--	--	--	--	--	--	--
Dieldrin	<0.0099	<0.011	<0.0092	<0.0092	<0.0094	<0.0090	<0.0090	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.010	<0.011	<0.0095	<0.0096	<0.0097	<0.0093	<0.0094	--	--	--	--	--	--	--
Endosulfan II	<0.010	<0.012	<0.0096	<0.0097	<0.0098	<0.0095	<0.0095	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.010	<0.012	<0.0097	<0.0098	<0.0099	<0.0096	<0.0096	--	--	--	--	--	--	--
Endrin	<0.0097	<0.011	<0.0090	<0.0090	<0.0092	<0.0088	<0.0088	610	--	61	--	1	5	*
Endrin aldehyde	<0.011	<0.012	<0.010	<0.010	<0.010	<0.0099	<0.0099	--	--	--	--	--	--	--
Endrin ketone	<0.0092	<0.010	<0.0086	<0.0086	<0.0087	<0.0084	<0.0084	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0094	<0.011	<0.0088	<0.0088	<0.0089	<0.0086	<0.0086	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.011	<0.012	<0.010	<0.010	<0.010	<0.0099	<0.010	--	--	--	--	--	--	--
Heptachlor	<0.010	<0.011	<0.0095	<0.0096	<0.0097	<0.0094	<0.0094	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.010	<0.011	<0.0095	<0.0095	<0.0097	<0.0093	<0.0093	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.014	<0.012	<0.012	<0.012	<0.011	<0.011	10,000	--	1,000	--	160	780	*
Toxaphene	<0.076	<0.085	<0.070	<0.071	<0.072	<0.069	<0.069	5.2	170	110	240	31	150	*

TABLE NO. 6 (20 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB67 (3-5)	SB68 (0-3)	SB68 (7.5-10)	SB69 (0-3)	SB69 (3-5)	SB70 (0-3)	SB70 (12.5-15)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/6/24**	**9/9/24**	**9/9/24**	**9/9/24**	**9/9/24**	**9/9/24**	**9/9/24**							
4,4'-DDD	<0.0099	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	24	--	520	--	16	80	*
4,4'-DDE	<0.0095	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	17	--	370	--	54	270	*
4,4'-DDT	<0.0088	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	17	1,500	100	2,100	32	160	*
Aldrin	<0.013	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.010	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0099	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	--	--	--	--	--	--	--
b-BHC	<0.015	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	--	--	--	--	--	--	--
Chlordane	<0.035	<0.068	<0.073	<0.072	<0.074	<0.067	<0.069	16	140	100	22	10	48	*
d-BHC	<0.0088	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	--	--	--	--	--	--	--
Dieldrin	<0.0097	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.010	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	--	--	--	--	--	--	--
Endosulfan II	<0.010	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.010	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	--	--	--	--	--	--	--
Endrin	<0.0094	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	610	--	61	--	1	5	*
Endrin aldehyde	<0.011	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	--	--	--	--	--	--	--
Endrin ketone	<0.0090	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0092	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.011	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	--	--	--	--	--	--	--
Heptachlor	<0.010	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0099	<0.017	<0.019	<0.018	<0.019	<0.017	<0.018	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.085	<0.090	<0.090	<0.092	<0.083	<0.086	10,000	--	1,000	--	160	780	*
Toxaphene	<0.074	<0.17	<0.18	<0.18	<0.18	<0.17	<0.17	5.2	170	110	240	31	150	*

TABLE NO. 6 (21 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB70 (17.5-20)	SB71 (0-3)	SB72 (0-3)	SB72 (7.5-10)	SB73 (0-3)	SB73 (5-7.5)	SB74 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/9/24**	**9/9/24**	**9/10/24**	**9/10/24**	**9/10/24**	**9/10/24**	**9/10/24**							
4,4'-DDD	<0.019	<0.018	<0.011	<0.011	<0.0092	<0.011	<0.011	24	--	520	--	16	80	*
4,4'-DDE	<0.019	<0.018	<0.010	<0.010	<0.0088	<0.010	<0.010	17	--	370	--	54	270	*
4,4'-DDT	<0.019	<0.018	<0.0096	<0.0093	<0.0081	<0.0096	<0.0093	17	1,500	100	2,100	32	160	*
Aldrin	<0.019	<0.018	<0.014	<0.014	<0.012	<0.014	<0.014	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.019	<0.018	<0.011	<0.011	<0.0096	<0.011	<0.011	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.019	<0.018	<0.011	<0.011	<0.0091	<0.011	<0.010	--	--	--	--	--	--	--
b-BHC	<0.019	<0.018	<0.016	<0.016	<0.014	<0.016	<0.016	--	--	--	--	--	--	--
Chlordane	<0.076	<0.071	<0.038	<0.037	<0.032	<0.038	<0.037	16	140	100	22	10	48	*
d-BHC	<0.019	<0.018	<0.0097	<0.0094	<0.0082	<0.0097	<0.0094	--	--	--	--	--	--	--
Dieldrin	<0.019	<0.018	<0.011	<0.010	<0.0089	<0.011	<0.010	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.019	<0.018	<0.011	<0.011	<0.0092	<0.011	<0.011	--	--	--	--	--	--	--
Endosulfan II	<0.019	<0.018	<0.011	<0.011	<0.0093	<0.011	<0.011	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.019	<0.018	<0.011	<0.011	<0.0094	<0.011	<0.011	--	--	--	--	--	--	--
Endrin	<0.019	<0.018	<0.010	<0.010	<0.0087	<0.010	<0.010	610	--	61	--	1	5	*
Endrin aldehyde	<0.019	<0.018	<0.012	<0.011	<0.0097	<0.012	<0.011	--	--	--	--	--	--	--
Endrin ketone	<0.019	<0.018	<0.0099	<0.0096	<0.0083	<0.0098	<0.0095	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.019	<0.018	<0.010	<0.0098	<0.0085	<0.010	<0.0097	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.019	<0.018	<0.012	<0.011	<0.0098	<0.012	<0.011	--	--	--	--	--	--	--
Heptachlor	<0.019	<0.018	<0.011	<0.011	<0.0092	<0.011	<0.011	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.019	<0.018	<0.011	<0.011	<0.0092	<0.011	<0.011	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.094	<0.088	<0.013	<0.013	<0.011	<0.013	<0.013	10,000	--	1,000	--	160	780	*
Toxaphene	<0.19	<0.18	<0.081	<0.079	<0.068	<0.081	<0.078	5.2	170	110	240	31	150	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO

TABLE NO. 6 (22 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB74 (3-5)	SB75 (0-3)	SB75 (5-7.5)	SB76 (0-3)	SB76 (7.5-10)	SB77 (0-3)	SB77 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/10/24**	**9/10/24**	**9/10/24**	**9/10/24**	**9/10/24**	**9/10/24**	**9/10/24**							
4,4'-DDD	<0.010	<0.0099	<0.0099	<0.010	<0.012	<0.0093	<0.0095	24	--	520	--	16	80	*
4,4'-DDE	<0.010	<0.0095	<0.0095	<0.0097	<0.011	<0.0089	<0.0091	17	--	370	--	54	270	*
4,4'-DDT	<0.0093	<0.0087	<0.0088	<0.0089	<0.010	<0.0082	<0.0083	17	1,500	100	2,100	32	160	*
Aldrin	<0.014	<0.013	<0.013	<0.013	<0.015	<0.012	<0.012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.011	<0.010	<0.010	<0.011	<0.012	<0.0097	<0.0099	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.010	<0.0098	<0.0099	<0.010	<0.012	<0.0092	<0.0094	--	--	--	--	--	--	--
b-BHC	<0.016	<0.015	<0.015	<0.015	<0.017	<0.014	<0.014	--	--	--	--	--	--	--
Chlordane	<0.037	<0.035	<0.035	<0.036	<0.041	<0.033	<0.033	16	140	100	22	10	48	*
d-BHC	<0.0093	<0.0088	<0.0088	<0.0090	<0.010	<0.0082	<0.0084	--	--	--	--	--	--	--
Dieldrin	<0.010	<0.0096	<0.0096	<0.0098	<0.011	<0.0090	<0.0092	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.011	<0.010	<0.010	<0.010	<0.012	<0.0093	<0.0095	--	--	--	--	--	--	--
Endosulfan II	<0.011	<0.010	<0.010	<0.010	<0.012	<0.0094	<0.0096	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.011	<0.010	<0.010	<0.010	<0.012	<0.0095	<0.0097	--	--	--	--	--	--	--
Endrin	<0.010	<0.0094	<0.0094	<0.0096	<0.011	<0.0088	<0.0090	610	--	61	--	1	5	*
Endrin aldehyde	<0.011	<0.011	<0.011	<0.011	<0.012	<0.0098	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.0095	<0.0090	<0.0090	<0.0092	<0.011	<0.0084	<0.0086	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0097	<0.0092	<0.0092	<0.0094	<0.011	<0.0086	<0.0088	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.011	<0.011	<0.011	<0.011	<0.012	<0.0099	<0.010	--	--	--	--	--	--	--
Heptachlor	<0.011	<0.010	<0.010	<0.010	<0.012	<0.0093	<0.0095	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.011	<0.0099	<0.0099	<0.010	<0.012	<0.0093	<0.0095	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.013	<0.012	<0.012	<0.012	<0.014	<0.011	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.078	<0.074	<0.074	<0.075	<0.086	<0.069	<0.070	5.2	170	110	240	31	150	*

TABLE NO. 6 (23 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB78 (0-3)	SB78 (10-12.5)	SB79 (0-3)	SB79 (5-7.5)	SB80 (0-3)	SB80 (3-5)	SB81 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/10/24**	**9/10/24**	**9/10/24**	**9/10/24**	**9/10/24**	**9/10/24**	**9/11/24**							
4,4'-DDD	<0.0091	<0.010	<0.0092	<0.0099	<0.0093	<0.0094	<0.0098	24	--	520	--	16	80	*
4,4'-DDE	<0.0087	<0.0096	<0.0088	<0.0095	<0.0089	<0.0090	<0.0094	17	--	370	--	54	270	*
4,4'-DDT	<0.0081	<0.0089	<0.0081	<0.0087	<0.0082	<0.0083	<0.0086	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.013	<0.012	<0.013	<0.012	<0.012	<0.013	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0096	<0.011	<0.0096	<0.010	<0.0098	<0.0099	<0.010	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0091	<0.010	<0.0091	<0.0098	<0.0093	<0.0094	<0.0097	--	--	--	--	--	--	--
b-BHC	<0.014	<0.015	<0.014	<0.015	<0.014	<0.014	<0.015	--	--	--	--	--	--	--
Chlordane	<0.032	<0.035	<0.032	<0.035	<0.033	<0.033	<0.034	16	140	100	22	10	48	*
d-BHC	<0.0081	<0.0089	<0.0082	<0.0088	<0.0083	<0.0084	<0.0087	--	--	--	--	--	--	--
Dieldrin	<0.0089	<0.0098	<0.0089	<0.0096	<0.0091	<0.0092	<0.0095	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0092	<0.010	<0.0092	<0.0099	<0.0094	<0.0095	<0.0098	--	--	--	--	--	--	--
Endosulfan II	<0.0093	<0.010	<0.0094	<0.010	<0.0095	<0.0096	<0.010	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0094	<0.010	<0.0094	<0.010	<0.0096	<0.0097	<0.010	--	--	--	--	--	--	--
Endrin	<0.0087	<0.0095	<0.0087	<0.0094	<0.0088	<0.0089	<0.0093	610	--	61	--	1	5	*
Endrin aldehyde	<0.0097	<0.011	<0.0097	<0.010	<0.0099	<0.010	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.0083	<0.0091	<0.0083	<0.0089	<0.0084	<0.0085	<0.0088	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0085	<0.0093	<0.0085	<0.0091	<0.0086	<0.0087	<0.0090	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0098	<0.011	<0.0098	<0.011	<0.010	<0.010	<0.010	--	--	--	--	--	--	--
Heptachlor	<0.0092	<0.010	<0.0092	<0.0099	<0.0094	<0.0095	<0.0098	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0091	<0.010	<0.0092	<0.0099	<0.0093	<0.0094	<0.0098	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.011	<0.012	<0.011	<0.012	<0.011	<0.012	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.068	<0.075	<0.068	<0.073	<0.069	<0.070	<0.073	5.2	170	110	240	31	150	*

TABLE NO. 6 (24 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB81 (7.5-10)	SB82 (0-3)	SB82 (5-7.5)	SB83 (0-3)	SB83 (3-5)	SB84 (0-3)	SB84 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/11/24**	**9/11/24**	**9/11/24**	**9/11/24**	**9/11/24**	**9/11/24**	**9/11/24**							
4,4'-DDD	<0.010	<0.010	<0.012	<0.0096	<0.0092	<0.0094	<0.0095	24	--	520	--	16	80	*
4,4'-DDE	<0.0096	<0.0096	<0.011	<0.0092	<0.0088	<0.0090	<0.0091	17	--	370	--	54	270	*
4,4'-DDT	<0.0089	<0.0089	<0.011	<0.0084	<0.0081	<0.0083	<0.0084	17	1,500	100	2,100	32	160	*
Aldrin	<0.013	<0.013	<0.015	<0.012	<0.012	<0.012	<0.012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.010	<0.011	<0.013	<0.010	<0.0096	<0.0098	<0.0099	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.010	<0.010	<0.012	<0.0095	<0.0091	<0.0094	<0.0094	--	--	--	--	--	--	--
b-BHC	<0.015	<0.015	<0.018	<0.014	<0.014	<0.014	<0.014	--	--	--	--	--	--	--
Chlordane	<0.035	<0.035	<0.042	<0.034	<0.032	<0.033	<0.033	16	140	100	22	10	48	*
d-BHC	<0.0089	<0.0089	<0.011	<0.0085	<0.0082	<0.0084	<0.0084	--	--	--	--	--	--	--
Dieldrin	<0.0097	<0.0098	<0.012	<0.0093	<0.0089	<0.0091	<0.0092	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.010	<0.010	<0.012	<0.0096	<0.0092	<0.0095	<0.0095	--	--	--	--	--	--	--
Endosulfan II	<0.010	<0.010	<0.012	<0.0097	<0.0093	<0.0096	<0.0097	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.010	<0.010	<0.012	<0.0098	<0.0094	<0.0097	<0.0098	--	--	--	--	--	--	--
Endrin	<0.0095	<0.0095	<0.011	<0.0091	<0.0087	<0.0089	<0.0090	610	--	61	--	1	5	*
Endrin aldehyde	<0.011	<0.011	<0.013	<0.010	<0.0097	<0.010	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.0091	<0.0091	<0.011	<0.0086	<0.0083	<0.0085	<0.0086	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0093	<0.0093	<0.011	<0.0088	<0.0085	<0.0087	<0.0088	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.011	<0.011	<0.013	<0.010	<0.0098	<0.010	<0.010	--	--	--	--	--	--	--
Heptachlor	<0.010	<0.010	<0.012	<0.0096	<0.0092	<0.0095	<0.0095	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.010	<0.010	<0.012	<0.0096	<0.0092	<0.0094	<0.0095	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.012	<0.015	<0.012	<0.011	<0.012	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.074	<0.075	<0.089	<0.071	<0.068	<0.070	<0.070	5.2	170	110	240	31	150	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO

TABLE NO. 6 (25 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB85 (0-3)	SB85 (10-12.5)	SB86 (0-3)	SB86 (7.5-10)	SB87 (0-3)	SB87 (3-5)	SB88 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/11/24	9/11/24	9/11/24	9/11/24	9/12/24	9/12/24	9/12/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
4,4'-DDD	<0.0097	<0.0099	<0.0091	<0.0099	<0.010	<0.010	<0.0092	24	--	520	--	16	80	*
4,4'-DDE	<0.0093	<0.0095	<0.0087	<0.0095	<0.0097	<0.0096	<0.0088	17	--	370	--	54	270	*
4,4'-DDT	<0.0086	<0.0087	<0.0080	<0.0088	<0.0090	<0.0088	<0.0081	17	1,500	100	2,100	32	160	*
Aldrin	<0.013	<0.013	<0.012	<0.013	<0.013	<0.013	<0.012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.010	<0.010	<0.0095	<0.010	<0.011	<0.010	<0.0096	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0097	<0.0099	<0.0090	<0.0099	<0.010	<0.0099	<0.0092	--	--	--	--	--	--	--
b-BHC	<0.015	<0.015	<0.014	<0.015	<0.015	<0.015	<0.014	--	--	--	--	--	--	--
Chlordane	<0.034	<0.035	<0.032	<0.035	<0.036	<0.035	<0.032	16	140	100	22	10	48	*
d-BHC	<0.0087	<0.0088	<0.0081	<0.0088	<0.0091	<0.0089	<0.0082	--	--	--	--	--	--	--
Dieldrin	<0.0095	<0.0096	<0.0088	<0.0097	<0.0099	<0.0097	<0.0090	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0098	<0.010	<0.0091	<0.010	<0.010	<0.010	<0.0093	--	--	--	--	--	--	--
Endosulfan II	<0.0099	<0.010	<0.0093	<0.010	<0.010	<0.010	<0.0094	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.010	<0.010	<0.0094	<0.010	<0.010	<0.010	<0.0095	--	--	--	--	--	--	--
Endrin	<0.0092	<0.0094	<0.0086	<0.0094	<0.0097	<0.0095	<0.0087	610	--	61	--	1	5	*
Endrin aldehyde	<0.010	<0.011	<0.0096	<0.011	<0.011	<0.011	<0.0098	--	--	--	--	--	--	--
Endrin ketone	<0.0088	<0.0090	<0.0082	<0.0090	<0.0092	<0.0090	<0.0083	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0090	<0.0092	<0.0084	<0.0092	<0.0094	<0.0092	<0.0085	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.010	<0.011	<0.0097	<0.011	<0.011	<0.011	<0.0099	--	--	--	--	--	--	--
Heptachlor	<0.0098	<0.010	<0.0092	<0.010	<0.010	<0.010	<0.0093	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0097	<0.0099	<0.0091	<0.010	<0.010	<0.010	<0.0092	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.012	<0.011	<0.012	<0.012	<0.012	<0.011	10,000	--	1,000	--	160	780	*
Toxaphene	<0.072	<0.074	<0.068	<0.074	<0.076	<0.074	<0.068	5.2	170	110	240	31	150	*

TABLE NO. 6 (26 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB88 (7.5-10)	SB89 (0-3)	SB89 (3-5)	SB90 (0-3)	SB90 (7.5-10)	SB91 (0-3)	SB91 (12.5-15)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
4,4'-DDD	<0.0091	<0.0097	<0.0094	<0.0090	<0.0095	<0.0094	<0.0097	24	--	520	--	16	80	*
4,4'-DDE	<0.0087	<0.0093	<0.0090	<0.0086	<0.0091	<0.0090	<0.0093	17	--	370	--	54	270	*
4,4'-DDT	<0.0081	0.0097	<0.0083	<0.0079	<0.0084	<0.0083	<0.0086	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0096	<0.010	<0.0098	<0.0094	<0.010	<0.0098	<0.010	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0091	<0.0096	<0.0093	<0.0089	<0.0095	<0.0093	<0.0096	--	--	--	--	--	--	--
b-BHC	<0.014	<0.015	<0.014	<0.013	<0.014	<0.014	<0.015	--	--	--	--	--	--	--
Chlordane	<0.032	<0.034	<0.033	<0.032	<0.034	<0.033	<0.034	16	140	100	22	10	48	*
d-BHC	<0.0081	<0.0086	<0.0083	<0.0080	<0.0085	<0.0083	<0.0086	--	--	--	--	--	--	--
Dieldrin	<0.0089	<0.0094	<0.0091	<0.0087	<0.0092	<0.0091	<0.0094	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0092	<0.0097	<0.0094	<0.0090	<0.0096	<0.0094	<0.0097	--	--	--	--	--	--	--
Endosulfan II	<0.0093	<0.0099	<0.0095	<0.0092	<0.0097	<0.0095	<0.0099	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0094	<0.010	<0.0096	<0.0093	<0.0098	<0.0096	<0.010	--	--	--	--	--	--	--
Endrin	<0.0087	<0.0092	<0.0089	<0.0085	<0.0090	<0.0089	<0.0092	610	--	61	--	1	5	*
Endrin aldehyde	<0.0097	<0.010	<0.0099	<0.0095	<0.010	<0.0099	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.0083	<0.0088	<0.0085	<0.0081	<0.0086	<0.0085	<0.0088	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0084	<0.0090	<0.0087	<0.0083	<0.0088	<0.0087	<0.0090	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0098	<0.010	<0.010	<0.0096	<0.010	<0.010	<0.010	--	--	--	--	--	--	--
Heptachlor	<0.0092	<0.0097	<0.0094	<0.0091	<0.0096	<0.0094	<0.0098	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0091	<0.0097	<0.0094	<0.0090	<0.0095	<0.0094	<0.0097	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.011	<0.012	<0.011	<0.011	<0.012	<0.011	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.068	<0.072	<0.070	<0.067	<0.071	<0.070	<0.072	5.2	170	110	240	31	150	*

TABLE NO. 6 (27 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB92 (0-3)	SB92 (3-5)	SB93 (0-3)	SB93 (5-7.5)	SB94 (0-3)	SB94 (12.5-15)	SB95 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	9/12/24	9/12/24	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
4,4'-DDD	<0.0093	<0.0094	<0.0094	<0.0097	<0.0091	<0.0097	<0.0098	24	--	520	--	16	80	*
4,4'-DDE	<0.0089	<0.0090	<0.0090	<0.0093	<0.0087	<0.0093	<0.0094	17	--	370	--	54	270	*
4,4'-DDT	<0.0082	<0.0083	<0.0083	<0.0086	0.035	0.025	<0.0087	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.012	<0.012	<0.013	<0.012	<0.013	<0.013	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0097	<0.0098	<0.0099	<0.010	<0.0095	<0.010	<0.010	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0092	<0.0093	<0.0094	<0.0097	<0.0091	<0.0097	<0.0098	--	--	--	--	--	--	--
b-BHC	<0.014	<0.014	<0.014	<0.015	<0.014	<0.015	<0.015	--	--	--	--	--	--	--
Chlordane	<0.033	<0.033	<0.033	<0.034	<0.032	<0.034	<0.035	16	140	100	22	10	48	*
d-BHC	<0.0083	<0.0083	<0.0084	<0.0087	<0.0081	<0.0086	<0.0087	--	--	--	--	--	--	--
Dieldrin	<0.0090	<0.0091	<0.0092	<0.0095	<0.0089	<0.0095	<0.0096	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0093	<0.0094	<0.0095	<0.0098	<0.0092	<0.0098	<0.0099	--	--	--	--	--	--	--
Endosulfan II	<0.0095	<0.0095	<0.0096	<0.0099	<0.0093	<0.0099	<0.010	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0096	<0.0096	<0.0097	<0.010	<0.0094	<0.010	<0.010	--	--	--	--	--	--	--
Endrin	<0.0088	<0.0089	<0.0090	<0.0092	<0.0086	<0.0092	<0.0093	610	--	61	--	1	5	*
Endrin aldehyde	<0.0099	<0.0099	<0.010	<0.010	<0.0097	<0.010	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.0084	<0.0085	<0.0085	<0.0088	<0.0082	<0.0088	<0.0089	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0086	<0.0087	<0.0087	<0.0090	<0.0084	<0.0090	<0.0091	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0099	<0.010	<0.010	<0.010	<0.0097	<0.010	<0.011	--	--	--	--	--	--	--
Heptachlor	<0.0094	<0.0094	<0.0095	<0.0098	<0.0092	<0.0098	<0.0099	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0093	<0.0094	<0.0095	<0.0097	<0.0091	<0.0097	<0.0098	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.011	<0.011	<0.012	<0.012	<0.011	<0.012	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.069	<0.070	<0.070	<0.072	<0.068	<0.072	<0.073	5.2	170	110	240	31	150	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO

TABLE NO. 6 (28 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB95 (5-7.5)	SB96 (0-3)	SB96 (7.5-10)	SB97 (0-3)	SB97 (5-7.5)	SB98 (0-3)	SB98 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24	9/17/24	9/17/24							
4,4'-DDD	<0.0092	<0.0095	<0.0097	<0.0093	<0.0093	<0.0096	<0.0099	24	--	520	--	16	80	*
4,4'-DDE	<0.0088	<0.0091	<0.0093	<0.0089	<0.0089	<0.0092	<0.0095	17	--	370	--	54	270	*
4,4'-DDT	<0.0082	<0.0084	<0.0085	<0.0082	<0.0082	<0.0084	<0.0088	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.013	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0097	<0.010	<0.010	<0.0098	<0.0097	<0.010	<0.010	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0092	<0.0095	<0.0096	<0.0093	<0.0092	<0.0095	<0.0099	--	--	--	--	--	--	--
b-BHC	<0.014	<0.014	<0.015	<0.014	<0.014	<0.014	<0.015	--	--	--	--	--	--	--
Chlordane	<0.033	<0.034	<0.034	<0.033	<0.033	<0.034	<0.035	16	140	100	22	10	48	*
d-BHC	<0.0082	<0.0085	<0.0086	<0.0083	<0.0083	<0.0085	<0.0088	--	--	--	--	--	--	--
Dieldrin	<0.0090	<0.0093	<0.0094	<0.0091	<0.0090	<0.0093	<0.0096	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0093	<0.0096	<0.0097	<0.0094	<0.0093	<0.0096	<0.010	--	--	--	--	--	--	--
Endosulfan II	<0.0094	<0.0097	<0.0099	<0.0095	<0.0095	<0.0097	<0.010	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0095	<0.0098	<0.010	<0.0096	<0.0096	<0.0098	<0.010	--	--	--	--	--	--	--
Endrin	<0.0088	<0.0090	<0.0092	<0.0088	<0.0088	<0.0091	<0.0094	610	--	61	--	1	5	*
Endrin aldehyde	<0.0098	<0.010	<0.010	<0.0099	<0.0099	<0.010	<0.011	--	--	--	--	--	--	--
Endrin ketone	<0.0084	<0.0086	<0.0088	<0.0084	<0.0084	<0.0086	<0.0090	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0086	<0.0088	<0.0090	<0.0086	<0.0086	<0.0088	<0.0092	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0099	<0.010	<0.010	<0.010	<0.0099	<0.010	<0.011	--	--	--	--	--	--	--
Heptachlor	<0.0093	<0.0096	<0.0097	<0.0094	<0.0094	<0.0096	<0.010	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0093	<0.0095	<0.0097	<0.0093	<0.0093	<0.0096	<0.0099	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.011	<0.012	<0.012	<0.011	<0.011	<0.012	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.069	<0.071	<0.072	<0.069	<0.069	<0.071	<0.074	5.2	170	110	240	31	150	*

TABLE NO. 6 (29 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB99 (0-3)	SB99 (10-12.5)	SB100 (0-3)	SB100 (3-5)	SB101 (0-3)	SB101 (12.5-15)	SB102 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24							
4,4'-DDD	<0.0094	<0.013	<0.0090	<0.0090	<0.0094	<0.011	<0.0099	24	--	520	--	16	80	*
4,4'-DDE	<0.0090	<0.013	<0.0086	<0.0086	<0.0090	<0.011	<0.0094	17	--	370	--	54	270	*
4,4'-DDT	<0.0083	<0.012	<0.0079	<0.0079	<0.0083	<0.0099	<0.0087	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.017	<0.012	<0.012	<0.012	<0.014	<0.013	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0098	<0.014	<0.0094	<0.0094	<0.0099	<0.012	<0.010	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0093	<0.013	<0.0089	<0.0089	<0.0094	<0.011	<0.0098	--	--	--	--	--	--	--
b-BHC	<0.014	<0.020	<0.013	<0.013	<0.014	<0.017	<0.015	--	--	--	--	--	--	--
Chlordane	<0.033	<0.047	<0.032	<0.032	<0.033	<0.039	<0.035	16	140	100	22	10	48	*
d-BHC	<0.0083	<0.012	<0.0080	<0.0080	<0.0084	<0.0099	<0.0088	--	--	--	--	--	--	--
Dieldrin	<0.0091	<0.013	<0.0087	<0.0087	<0.0092	<0.011	<0.0096	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0094	<0.013	<0.0090	<0.0090	<0.0095	<0.011	<0.0099	--	--	--	--	--	--	--
Endosulfan II	<0.0095	<0.014	<0.0091	<0.0092	<0.0096	<0.011	<0.010	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0096	<0.014	<0.0092	<0.0093	<0.0097	<0.011	<0.010	--	--	--	--	--	--	--
Endrin	<0.0089	<0.013	<0.0085	<0.0085	<0.0090	<0.011	<0.0094	610	--	61	--	1	5	*
Endrin aldehyde	<0.0099	<0.014	<0.0095	<0.0095	<0.010	<0.012	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.0085	<0.012	<0.0081	<0.0081	<0.0085	<0.010	<0.0089	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0087	<0.012	<0.0083	<0.0083	<0.0087	<0.010	<0.0091	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.010	<0.014	<0.0096	<0.0096	<0.010	<0.012	<0.011	--	--	--	--	--	--	--
Heptachlor	<0.0094	<0.013	<0.0090	<0.0091	<0.0095	<0.011	<0.0099	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0094	<0.013	<0.0090	<0.0090	<0.0095	<0.011	<0.0099	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.011	<0.016	<0.011	<0.011	<0.012	<0.014	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.070	<0.099	<0.067	<0.067	<0.070	<0.083	<0.073	5.2	170	110	240	31	150	*

TABLE NO. 6 (30 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB102 (7.5-10)	SB103 (0-3)	SB103 (5-7.5)	SB104 (0-3)	SB105 (0-3)	SB105 (10-12.5)	SB106 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	9/17/24	9/18/24	9/18/24	9/18/24	9/18/24	9/18/24	9/18/24							
4,4'-DDD	<0.0093	<0.018	<0.0095	<0.010	<0.018	<0.010	<0.0094	24	--	520	--	16	80	*
4,4'-DDE	<0.0089	<0.017	<0.0091	<0.010	<0.017	<0.0098	<0.0090	17	--	370	--	54	270	*
4,4'-DDT	<0.0082	<0.016	<0.0084	<0.0092	<0.016	<0.0090	<0.0083	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.023	<0.012	<0.014	<0.023	<0.013	<0.012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0097	<0.019	<0.010	<0.011	<0.019	<0.011	<0.0099	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0092	<0.018	<0.0095	<0.010	<0.018	<0.010	<0.0094	--	--	--	--	--	--	--
b-BHC	<0.014	<0.027	<0.014	<0.016	<0.027	<0.015	<0.014	--	--	--	--	--	--	--
Chlordane	<0.033	<0.063	<0.034	<0.037	<0.063	<0.036	<0.033	16	140	100	22	10	48	*
d-BHC	<0.0083	<0.016	<0.0085	<0.0093	<0.016	<0.0091	<0.0084	--	--	--	--	--	--	--
Dieldrin	<0.0090	<0.017	<0.0093	<0.010	<0.017	<0.010	<0.0092	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0093	<0.018	<0.0096	<0.011	<0.018	<0.010	<0.0095	--	--	--	--	--	--	--
Endosulfan II	<0.0095	<0.018	<0.0097	<0.011	<0.018	<0.010	<0.0096	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0096	<0.018	<0.0098	<0.011	<0.019	<0.011	<0.0097	--	--	--	--	--	--	--
Endrin	<0.0088	<0.017	<0.0091	<0.0099	<0.017	<0.0097	<0.0090	610	--	61	--	1	5	*
Endrin aldehyde	<0.0098	<0.019	<0.010	<0.011	<0.019	<0.011	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.0084	<0.016	<0.0086	<0.0095	<0.016	<0.0093	<0.0085	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0086	<0.017	<0.0088	<0.0097	<0.017	<0.0095	<0.0087	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.0099	<0.019	<0.010	<0.011	<0.019	<0.011	<0.010	--	--	--	--	--	--	--
Heptachlor	<0.0093	<0.018	<0.0096	<0.011	<0.018	<0.010	<0.0095	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0093	<0.018	<0.0096	<0.010	<0.018	<0.010	<0.0095	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.011	<0.022	<0.012	<0.013	<0.022	<0.013	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.069	<0.13	<0.071	<0.078	<0.13	<0.076	<0.070	5.2	170	110	240	31	150	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO

TABLE NO. 6 (31 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB107 (0-3)	SB107 (7.5-10)	SB108 (0-3)	SB109 (0-3)	SB109 (5-7.5)	SB110 (0-3)	SB110 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/18/24**	**9/18/24**	**9/19/24**	**9/19/24**	**9/19/24**	**9/19/24**	**9/19/24**							
4,4'-DDD	<0.0094	<0.011	<0.0097	<0.0095	<0.011	<0.0095	<0.0094	24	--	520	--	16	80	*
4,4'-DDE	<0.0090	<0.011	<0.0093	<0.0091	<0.010	0.0092	<0.0090	17	--	370	--	54	270	*
4,4'-DDT	<0.0083	<0.010	<0.0086	<0.0084	<0.0097	<0.0084	<0.0083	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.015	<0.013	<0.012	<0.014	<0.012	<0.012	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0099	<0.012	<0.010	<0.010	<0.011	<0.010	<0.0099	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0094	<0.011	<0.0096	<0.0095	<0.011	<0.0095	<0.0094	--	--	--	--	--	--	--
b-BHC	<0.014	<0.017	<0.015	<0.014	<0.016	<0.014	<0.014	--	--	--	--	--	--	--
Chlordane	<0.033	<0.040	<0.034	<0.034	<0.039	<0.034	<0.033	16	140	100	22	10	48	*
d-BHC	<0.0084	<0.010	<0.0086	<0.0085	<0.0097	<0.0085	<0.0084	--	--	--	--	--	--	--
Dieldrin	<0.0092	<0.011	<0.0094	<0.0093	<0.011	<0.0092	<0.0092	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0095	<0.012	<0.0097	<0.0096	<0.011	<0.0096	<0.0095	--	--	--	--	--	--	--
Endosulfan II	<0.0096	<0.012	<0.0099	<0.0097	<0.011	<0.0097	<0.0096	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0097	<0.012	<0.010	<0.0098	<0.011	<0.0098	<0.0097	--	--	--	--	--	--	--
Endrin	<0.0089	<0.011	<0.0092	<0.0090	<0.010	<0.0090	<0.0090	610	--	61	--	1	5	*
Endrin aldehyde	<0.010	<0.012	<0.010	<0.010	<0.012	<0.010	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.0085	<0.010	<0.0088	<0.0086	<0.0099	<0.0086	<0.0085	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0087	<0.011	<0.0090	<0.0088	<0.010	<0.0088	<0.0087	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.010	<0.012	<0.010	<0.010	<0.012	<0.010	<0.010	--	--	--	--	--	--	--
Heptachlor	<0.0095	<0.012	<0.0098	<0.0096	<0.011	<0.0096	<0.0095	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0094	<0.011	<0.0097	<0.0095	<0.011	<0.0095	<0.0095	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.014	<0.012	<0.012	<0.013	<0.012	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.070	<0.085	<0.072	<0.071	<0.081	<0.071	<0.070	5.2	170	110	240	31	150	*

TABLE NO. 6 (32 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB111 (0-3)	SB111 (3-5)	SB112 (0-3)	SB113 (0-3)	SB113 (10-12.5)	SB114 (0-3)	SB114 (7.5-12)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/19/24**	**9/19/24**	**9/19/24**	**9/20/24**	**9/20/24**	**9/20/24**	**9/20/24**							
4,4'-DDD	<0.0094	<0.0094	<0.011	<0.019	<0.011	<0.010	<0.0098	24	--	520	--	16	80	*
4,4'-DDE	<0.0090	<0.0090	<0.011	<0.018	<0.011	<0.0095	<0.0094	17	--	370	--	54	270	*
4,4'-DDT	<0.0083	<0.0083	<0.010	<0.017	<0.0098	<0.0088	<0.0087	17	1,500	100	2,100	32	160	*
Aldrin	<0.012	<0.012	<0.015	<0.024	<0.014	<0.013	<0.013	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.0099	<0.0098	<0.012	<0.020	<0.012	<0.010	<0.010	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.0094	<0.0093	<0.011	<0.019	<0.011	<0.0099	<0.0098	--	--	--	--	--	--	--
b-BHC	<0.014	<0.014	<0.017	<0.028	<0.017	<0.015	<0.015	--	--	--	--	--	--	--
Chlordane	<0.033	<0.033	<0.040	<0.067	<0.039	<0.035	<0.035	16	140	100	22	10	48	*
d-BHC	<0.0084	<0.0083	<0.010	<0.017	<0.0099	<0.0089	<0.0087	--	--	--	--	--	--	--
Dieldrin	<0.0092	<0.0091	<0.011	<0.018	<0.011	<0.0097	<0.0096	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.0095	<0.0094	<0.011	<0.019	<0.011	<0.010	<0.0099	--	--	--	--	--	--	--
Endosulfan II	<0.0096	<0.0095	<0.012	<0.019	<0.011	<0.010	<0.010	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.0097	<0.0096	<0.012	<0.019	<0.011	<0.010	<0.010	--	--	--	--	--	--	--
Endrin	<0.0089	<0.0089	<0.011	<0.018	<0.011	<0.0095	<0.0093	610	--	61	--	1	5	*
Endrin aldehyde	<0.010	<0.0099	<0.012	<0.020	<0.012	<0.011	<0.010	--	--	--	--	--	--	--
Endrin ketone	<0.0085	<0.0085	<0.010	<0.017	<0.010	<0.0090	<0.0089	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0087	<0.0087	<0.010	<0.018	<0.010	<0.0092	<0.0091	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.010	<0.010	<0.012	<0.020	<0.012	<0.011	<0.011	--	--	--	--	--	--	--
Heptachlor	<0.0095	<0.0094	<0.011	<0.019	<0.011	<0.010	<0.0099	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.0094	<0.0094	<0.011	<0.019	<0.011	<0.010	<0.0099	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.011	<0.014	<0.023	<0.014	<0.012	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.070	<0.069	<0.084	<0.14	<0.083	<0.074	<0.073	5.2	170	110	240	31	150	*

TABLE NO. 6 (33 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB115 (0-3)	SB115 (5-7.5)	SB116 (0-3)	SB116 (12.5-15)	SB117 (0-3)	SB117 (5-7.5)	B120 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
								Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
Collection Date	**9/20/24**	**9/20/24**	**9/20/24**	**9/20/24**	**9/20/24**	**9/20/24**	**2/3/25**							
4,4'-DDD	<0.010	<0.0094	<0.010	<0.011	<0.020	<0.010	0.00167	24	--	520	--	16	80	*
4,4'-DDE	<0.0097	<0.0090	<0.0096	<0.011	<0.020	<0.0096	0.00178	17	--	370	--	54	270	*
4,4'-DDT	<0.0089	<0.0083	<0.0088	<0.0098	<0.018	<0.0089	<0.00120	17	1,500	100	2,100	32	160	*
Aldrin	<0.013	<0.012	<0.013	<0.014	<0.026	<0.013	<0.00021	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.011	<0.0098	<0.010	<0.012	<0.021	<0.011	<0.00037	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.010	<0.0093	<0.0099	<0.011	<0.020	<0.010	0.000970	--	--	--	--	--	--	--
b-BHC	<0.015	<0.014	<0.015	<0.017	<0.031	<0.015	<0.00036	--	--	--	--	--	--	--
Chlordane	<0.036	<0.033	<0.035	<0.039	<0.072	<0.036	<0.0226	16	140	100	22	10	48	*
d-BHC	<0.0090	<0.0083	<0.0089	<0.0098	<0.018	<0.0090	<0.00021	--	--	--	--	--	--	--
Dieldrin	<0.0098	<0.0091	<0.0097	<0.011	<0.020	<0.0098	<0.00047	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.010	<0.0094	<0.010	<0.011	<0.020	<0.010	<0.00018	--	--	--	--	--	--	--
Endosulfan II	<0.010	<0.0095	<0.010	<0.011	<0.021	<0.010	<0.00038	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.010	<0.0096	<0.010	<0.011	<0.021	<0.010	<0.00040	--	--	--	--	--	--	--
Endrin	<0.0096	<0.0089	<0.0095	<0.010	<0.019	<0.0096	<0.00049	610	--	61	--	1	5	*
Endrin aldehyde	<0.011	<0.0099	<0.011	<0.012	<0.022	<0.011	<0.00044	--	--	--	--	--	--	--
Endrin ketone	<0.0092	<0.0085	<0.0091	<0.010	<0.018	<0.0091	<0.00052	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.0094	<0.0087	<0.0093	<0.010	<0.019	<0.0093	<0.00024	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.011	<0.010	<0.011	<0.012	<0.022	<0.011	<0.00269	--	--	--	--	--	--	--
Heptachlor	<0.010	<0.0094	<0.010	<0.011	<0.020	<0.010	<0.00035	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.010	<0.0094	<0.010	<0.011	<0.020	<0.010	<0.00018	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.012	<0.011	<0.012	<0.014	<0.025	<0.012	<0.00710	10,000	--	1,000	--	160	780	*
Toxaphene	<0.075	<0.070	<0.074	<0.082	<0.15	<0.075	<0.0456	5.2	170	110	240	31	150	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO

TABLE NO. 6 (34 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	B121 (0-3)	B122 (0-3)	B122 (15-17.5)	B123 (0-3)	B123 (5-7.5)	B125 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
							Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	2/3/25	2/3/25	2/3/25	2/3/25	2/3/25	2/4/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
4,4'-DDD	<0.00090	<0.00046	<0.00089	<0.00045	<0.00042	<0.00044	24	--	520	--	16	80	*
4,4'-DDE	<0.00095	<0.00048	<0.00094	<0.00047	<0.00044	<0.00047	17	--	370	--	54	270	*
4,4'-DDT	<0.00251	<0.00128	<0.00248	<0.00125	<0.00118	<0.00123	17	1,500	100	2,100	32	160	*
Aldrin	<0.00045	<0.00023	<0.00044	<0.00022	<0.00021	<0.00022	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.00078	<0.00040	<0.00077	<0.00039	<0.00037	<0.00038	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.00043	0.000505	<0.00042	<0.00021	<0.00020	<0.00021	--	--	--	--	--	--	--
b-BHC	<0.00076	<0.00039	<0.00075	<0.00038	<0.00035	<0.00037	--	--	--	--	--	--	--
Chlordane	<0.000430	<0.0241	<0.0464	<0.000392	<0.0221	<0.0231	16	140	100	22	10	48	*
d-BHC	<0.00045	<0.00023	<0.00044	<0.00022	<0.00021	<0.00022	--	--	--	--	--	--	--
Dieldrin	<0.00098	<0.00050	<0.00096	<0.00048	<0.00045	<0.00048	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.00038	<0.00019	<0.00037	<0.00019	<0.00017	<0.00018	--	--	--	--	--	--	--
Endosulfan II	<0.00081	<0.00041	<0.00080	<0.00040	<0.00038	<0.00039	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.00083	<0.00042	<0.00082	<0.00041	<0.00039	<0.00041	--	--	--	--	--	--	--
Endrin	<0.00103	<0.00052	<0.00101	<0.00051	<0.00048	<0.00050	610	--	61	--	1	5	*
Endrin aldehyde	<0.00093	<0.00047	<0.00091	<0.00046	<0.00043	<0.00045	--	--	--	--	--	--	--
Endrin ketone	<0.00110	<0.00056	<0.00108	<0.00054	<0.00051	<0.00054	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.00050	<0.00025	<0.00049	<0.00024	<0.00023	<0.00024	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.000584	<0.000942	<0.000566	<0.000285	<0.000269	<0.000282	--	--	--	--	--	--	--
Heptachlor	<0.00074	<0.00037	<0.00073	<0.00036	<0.00034	<0.00036	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.00038	<0.00019	<0.00037	<0.00019	<0.00017	<0.00018	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.0148	<0.00759	<0.0146	<0.00736	<0.00695	<0.00728	10,000	--	1,000	--	160	780	*
Toxaphene	<0.0952	<0.0487	<0.0938	<0.0472	<0.0446	<0.0467	5.2	170	110	240	31	150	*

TABLE NO. 6 (35 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	B125 (7.5-10)	B126 (0-3)	B126 (5-7.5)	B127 (0-3)	B127 (5-7.5)	SB128 (0-3)	SB128 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	2/4/25	2/4/25	2/4/25	2/4/25	2/4/25	2/10/25	2/10/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
4,4'-DDD	<0.00042	<0.00043	<0.00045	<0.00046	<0.00042	0.000853	<0.00042	24	--	520	--	16	80	*
4,4'-DDE	<0.00044	<0.00045	<0.00047	0.00554	<0.00044	0.00368	0.00131	17	--	370	--	54	270	*
4,4'-DDT	<0.00116	<0.00120	<0.00124	0.0190	<0.00118	0.0190	0.00979	17	1,500	100	2,100	32	160	*
Aldrin	<0.00021	<0.00021	<0.00022	<0.00023	<0.00021	0.00660	0.00149	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.00036	<0.00037	<0.00039	<0.00040	<0.00036	<0.00037	0.000489	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.00020	<0.00020	<0.00021	<0.00022	<0.00020	<0.00020	<0.00019	--	--	--	--	--	--	--
b-BHC	<0.00035	<0.00036	<0.00037	<0.00039	<0.00035	0.000875	<0.00035	--	--	--	--	--	--	--
Chlordane	<0.0218	<0.0226	<0.0234	<0.0243	<0.0220	<0.0221	<0.0218	16	140	100	22	10	48	*
d-BHC	<0.00021	<0.00021	<0.00022	<0.00023	<0.00021	0.00198	0.00338	--	--	--	--	--	--	--
Dieldrin	<0.00045	<0.00047	<0.00048	<0.00050	<0.00045	<0.00046	0.00216	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.00017	<0.00018	<0.00019	<0.00019	<0.00017	<0.00018	0.00123	--	--	--	--	--	--	--
Endosulfan II	<0.00037	<0.00039	<0.00040	<0.00041	<0.00038	0.00295	<0.00037	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.00038	<0.00040	<0.00041	<0.00043	<0.00039	0.00145	<0.00038	--	--	--	--	--	--	--
Endrin	<0.00047	<0.00049	<0.00051	<0.00053	<0.00048	0.00245	0.00288	610	--	61	--	1	5	*
Endrin aldehyde	<0.00043	<0.00044	<0.00046	<0.00048	<0.00043	0.00205	0.00191	--	--	--	--	--	--	--
Endrin ketone	<0.00051	<0.00052	<0.00054	<0.00056	<0.00051	0.00911	0.00933	--	--	--	--	--	--	--
g-BHC (Lindane)	<0.00023	<0.00024	<0.00024	<0.00025	<0.00023	0.0147	0.00333	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.000266	<0.000275	<0.000285	<0.000296	<0.000269	<0.00382	<0.00171	--	--	--	--	--	--	--
Heptachlor	<0.00034	<0.00035	<0.00036	<0.00038	<0.00034	0.00111	0.00132	1	11	28	16	23	110	0.871
Heptachlor epoxide	<0.00017	<0.00018	<0.00019	<0.00019	<0.00017	0.00161	0.00118	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.00687	<0.00710	<0.00735	<0.00765	<0.00694	0.0199	0.00953	10,000	--	1,000	--	160	780	*
Toxaphene	<0.0441	<0.0456	<0.0472	<0.0491	<0.0445	<0.0447	<0.0440	5.2	170	110	240	31	150	*

TABLE NO. 6 (36 of 36)
Soil Sample Analytical Results: Pesticides
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB129 (0-3)	SB129 (5-7.5)	SB143 (0-3)	SB143 (15-17.5)	SB144 (0-3)	SB144 (12.5-15)	SB145 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Acceptable Detection Limit (ADL)
								Industrial - Commercial		Construction Worker		Migration to Groundwater		
Collection Date	2/10/25	2/10/25	2/18/25	2/18/25	2/18/25	2/18/25	4/8/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II	
4,4'-DDD	<0.00042	<0.00044	0.00305	0.0106	<0.00043	<0.00049	<0.010	24	--	520	--	16	80	*
4,4'-DDE	<0.00044	<0.00047	0.00103	<0.00139	0.00177	<0.00052	<0.0096	17	--	370	--	54	270	*
4,4'-DDT	0.00436	<0.00124	0.00744	0.00481	0.00754	<0.00137	<0.0088	17	1,500	100	2,100	32	160	*
Aldrin	<0.00021	<0.00022	<0.00022	0.00487	<0.00021	<0.00024	<0.013	0.3	6.6	6.1	9.3	0.5	2.5	0.94
alpha-BHC (a-HCH)	<0.00036	<0.00038	<0.00038	<0.00115	<0.00037	<0.00043	<0.010	0.9	1.5	20	2.1	0.0005	0.003	0.0074
alpha-Chlordane	<0.00019	<0.00021	0.00490	0.00347	0.00583	0.000829	<0.0099	--	--	--	--	--	--	--
b-BHC	<0.00035	<0.00037	<0.00037	0.00189	<0.00036	<0.00041	<0.015	--	--	--	--	--	--	--
Chlordane	<0.0218	<0.000212	<0.0231	0.0686	<0.0266	<0.0258	<0.035	16	140	100	22	10	48	*
d-BHC	<0.00021	<0.00022	0.00128	<0.00066	<0.00021	<0.00024	<0.0089	--	--	--	--	--	--	--
Dieldrin	<0.00045	<0.00048	0.00196	0.00451	0.00211	<0.00053	<0.0097	0.4	2.2	7.8	3.1	0.004	0.02	0.603
Endosulfan I	<0.00017	<0.00018	0.00457	<0.00055	<0.00018	<0.00020	<0.010	--	--	--	--	--	--	--
Endosulfan II	<0.00037	0.00188	0.00190	<0.00118	0.00146	<0.00044	<0.010	--	--	--	--	--	--	--
Endosulfan Sulfate	<0.00038	<0.00041	0.00415	<0.00122	0.00184	<0.00045	<0.010	--	--	--	--	--	--	--
Endrin	<0.00047	0.00155	0.00547	<0.00150	0.00591	<0.00056	<0.0095	610	--	61	--	1	5	*
Endrin aldehyde	0.00274	0.00147	0.00493	<0.00136	0.00545	<0.00051	<0.011	--	--	--	--	--	--	--
Endrin ketone	<0.00050	<0.00054	0.0156	<0.00160	0.0181	0.00156	<0.0090	--	--	--	--	--	--	--
g-BHC (Lindane)	0.00271	0.00244	0.0139	0.00424	0.0235	<0.00027	<0.0093	4	--	96	--	0.009	0.047	*
g-Chlordane	<0.000914	<0.0232	0.00266	0.00298	0.00842	0.000314	<0.011	--	--	--	--	--	--	--
Heptachlor	0.00229	<0.00036	0.00189	0.0275	0.00581	0.000471	<0.010	1	11	28	16	23	110	0.871
Heptachlor epoxide	0.000648	<0.00018	0.00139	<0.00055	0.00503	<0.00020	<0.010	0.6	9.2	2.7	13	0.7	3.3	1.005
Methoxychlor	<0.00687	<0.00730	<0.00726	<0.0216	<0.00711	<0.00811	<0.012	10,000	--	1,000	--	160	780	*
Toxaphene	<0.0441	<0.0469	<0.0466	<0.139	<0.0457	<0.0521	<0.074	5.2	170	110	240	31	150	*

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs and ADLs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
* indicates that the ADL is less than or equal to the most stringent Tier 1 SRO

TABLE NO. 7 (1 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB1 (0-3)	SB1 (5-7.5)	SB2 (0-3)	SB2 (3-5)	SB3 (0-3)	SB3 (5-7.5)	SB4 (0-3)	SB4 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**8/28/24**	**8/28/24**	**8/28/24**	**8/28/24**	**8/28/24**	**8/28/24**	**8/28/24**	**8/28/24**						
Aroclor 1016	<0.017	<0.026	<0.018	<0.020	<0.018	<0.018	<0.019	<0.018	--	--	--	--	--	--
Aroclor 1221	<0.017	<0.026	<0.018	<0.020	<0.018	<0.018	<0.019	<0.018	--	--	--	--	--	--
Aroclor 1232	<0.017	<0.026	<0.018	<0.020	0.22	<0.018	<0.019	<0.018	--	--	--	--	--	--
Aroclor 1242	<0.017	<0.026	<0.018	<0.020	<0.018	<0.018	<0.019	<0.018	--	--	--	--	--	--
Aroclor 1248	<0.017	<0.026	<0.018	<0.020	<0.018	<0.018	<0.019	<0.018	--	--	--	--	--	--
Aroclor 1254	<0.017	<0.026	<0.018	<0.020	<0.018	<0.018	<0.019	<0.018	--	--	--	--	--	--
Aroclor 1260	<0.017	<0.026	<0.018	<0.020	0.031	<0.018	<0.019	<0.018	--	--	--	--	--	--
Total PCBs	<0.017	<0.026	<0.018	<0.020	0.25	<0.018	<0.019	<0.018	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (2 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB5 (0-3)	SB5 (5-7.5)	SB6 (0-3)	SB6 (3-5)	SB7 (0-3)	SB7 (10-12.5)	SB8 (0-3)	SB8 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**8/28/24**	**8/28/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**						
Aroclor 1016	<0.020	<0.018	<0.017	<0.019	<0.018	<0.019	<0.018	<0.018	--	--	--	--	--	--
Aroclor 1221	<0.020	<0.018	<0.017	<0.019	<0.018	<0.019	<0.018	<0.018	--	--	--	--	--	--
Aroclor 1232	<0.020	<0.018	<0.017	<0.019	<0.018	<0.019	<0.018	<0.018	--	--	--	--	--	--
Aroclor 1242	<0.020	<0.018	<0.017	<0.019	<0.018	<0.019	<0.018	<0.018	--	--	--	--	--	--
Aroclor 1248	<0.020	<0.018	<0.017	<0.019	<0.018	<0.019	<0.018	<0.018	--	--	--	--	--	--
Aroclor 1254	<0.020	<0.018	<0.017	<0.019	<0.018	<0.019	0.021	<0.018	--	--	--	--	--	--
Aroclor 1260	<0.020	<0.018	<0.017	<0.019	<0.018	<0.019	<0.018	<0.018	--	--	--	--	--	--
Total PCBs	<0.020	<0.018	<0.017	<0.019	<0.018	<0.019	0.021	<0.018	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (3 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB9 (0-3)	SB9 (7.5-10)	SB10 (0-3)	SB10 (5-7.5)	SB11 (0-3)	SB11 (5-7.5)	SB12 (0-3)	SB12 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**						
Aroclor 1016	<0.017	<0.016	<0.017	<0.017	<0.018	<0.019	<0.019	<0.018	--	--	--	--	--	--
Aroclor 1221	<0.017	<0.016	<0.017	<0.017	<0.018	<0.019	<0.019	<0.018	--	--	--	--	--	--
Aroclor 1232	<0.017	<0.016	<0.017	<0.017	<0.018	<0.019	<0.019	<0.018	--	--	--	--	--	--
Aroclor 1242	<0.017	<0.016	<0.017	<0.017	<0.018	<0.019	<0.019	<0.018	--	--	--	--	--	--
Aroclor 1248	<0.017	<0.016	<0.017	<0.017	<0.018	<0.019	<0.019	<0.018	--	--	--	--	--	--
Aroclor 1254	<0.017	<0.016	<0.017	<0.017	<0.018	<0.019	<0.019	<0.018	--	--	--	--	--	--
Aroclor 1260	<0.017	<0.016	<0.017	<0.017	<0.018	<0.019	<0.019	<0.018	--	--	--	--	--	--
Total PCBs	<0.017	<0.016	<0.017	<0.017	<0.018	<0.019	<0.019	<0.018	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (4 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB13 (0-3)	SB13 (5-7.5)	SB14 (0-3)	SB14 (10-12.5)	SB15 (0-3)	SB15 (7.5-10)	SB16 (0-3)	SB16 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**	**8/29/24**						
Aroclor 1016	<0.017	<0.017	<0.017	<0.021	<0.018	<0.017	<0.017	<0.018	--	--	--	--	--	--
Aroclor 1221	<0.017	<0.017	<0.017	<0.021	<0.018	<0.017	<0.017	<0.018	--	--	--	--	--	--
Aroclor 1232	<0.017	<0.017	<0.017	<0.021	<0.018	0.039	<0.017	<0.018	--	--	--	--	--	--
Aroclor 1242	<0.017	<0.017	<0.017	<0.021	<0.018	<0.017	<0.017	<0.018	--	--	--	--	--	--
Aroclor 1248	<0.017	<0.017	<0.017	<0.021	<0.018	<0.017	<0.017	0.097	--	--	--	--	--	--
Aroclor 1254	<0.017	<0.017	<0.017	<0.021	<0.018	<0.017	<0.017	<0.018	--	--	--	--	--	--
Aroclor 1260	<0.017	<0.017	0.083	<0.021	0.049	0.021	<0.017	<0.018	--	--	--	--	--	--
Total PCBs	<0.017	<0.017	0.083	<0.021	0.049	0.060	<0.017	0.097	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (5 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB17 (0-3)	SB17 (5-7.5)	SB18 (0-3)	SB18 (7.5-10)	SB19 (0-3)	SB19 (5-7.5)	SB20 (0-3)	SB20 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**8/30/24**	**8/30/24**	**8/30/24**	**8/30/24**	**8/30/24**	**8/30/24**	**8/30/24**	**8/30/24**						
Aroclor 1016	<0.18	<0.019	<0.018	<0.018	<0.017	<0.016	<0.018	<0.20	--	--	--	--	--	--
Aroclor 1221	<0.18	<0.019	<0.018	<0.018	<0.017	<0.016	<0.018	<0.20	--	--	--	--	--	--
Aroclor 1232	<0.18	<0.019	<0.018	<0.018	<0.017	<0.016	<0.018	<0.20	--	--	--	--	--	--
Aroclor 1242	<0.18	<0.019	<0.018	<0.018	<0.017	<0.016	<0.018	<0.20	--	--	--	--	--	--
Aroclor 1248	<0.18	<0.019	<0.018	<0.018	<0.017	<0.016	<0.018	<0.20	--	--	--	--	--	--
Aroclor 1254	<0.18	<0.019	<0.018	<0.018	<0.017	<0.016	<0.018	<0.20	--	--	--	--	--	--
Aroclor 1260	<0.18	<0.019	<0.018	<0.018	0.022	<0.016	<0.018	<0.20	--	--	--	--	--	--
Total PCBs	<0.18	<0.019	<0.018	<0.018	0.022	<0.016	<0.018	<0.20	1.0	--(1)	1.0	--(1)	--(1)	--(1)

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Applicability requirements and methodologies for development of SROs under Tier 3 must be developed pursuant to 40 CFR Part 761

TABLE NO. 7 (6 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB21 (0-3)	SB21 (12.5-15)	SB22 (0-3)	SB22 (10-12.5)	SB23 (0-3)	SB23 (5-7.5)	SB24 (0-3)	SB24 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**8/30/24**	**8/30/24**	**8/30/24**	**8/30/24**	**8/30/24**	**8/30/24**	**9/3/24**	**9/3/24**						
Aroclor 1016	<0.18	<0.18	<0.018	<0.018	<0.018	<0.018	<0.086	<0.018	--	--	--	--	--	--
Aroclor 1221	<0.18	<0.18	<0.018	<0.018	<0.018	<0.018	<0.086	<0.018	--	--	--	--	--	--
Aroclor 1232	<0.18	<0.18	<0.018	<0.018	<0.018	<0.018	<0.086	<0.018	--	--	--	--	--	--
Aroclor 1242	<0.18	<0.18	<0.018	<0.018	<0.018	<0.018	<0.086	<0.018	--	--	--	--	--	--
Aroclor 1248	<0.18	<0.18	<0.018	<0.018	<0.018	<0.018	<0.086	<0.018	--	--	--	--	--	--
Aroclor 1254	<0.18	<0.18	<0.018	<0.018	0.034	<0.018	0.98	<0.018	--	--	--	--	--	--
Aroclor 1260	<0.18	<0.18	<0.018	<0.018	<0.018	0.13	<0.086	<0.018	--	--	--	--	--	--
Total PCBs	<0.18	<0.18	<0.18	<0.018	0.034	0.13	0.98	<0.018	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (7 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB25 (0-3)	SB25 (3-5)	SB26 (0-3)	SB26 (7.5-10)	SB27 (0-3)	SB27 (5-7.5)	SB28 (0-3)	SB28 (10-12.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**9/3/24**	**9/3/24**	**9/3/24**	**9/3/24**	**9/3/24**	**9/3/24**	**9/3/24**	**9/3/24**						
Aroclor 1016	<0.087	<0.017	<0.018	<0.018	<0.018	<0.020	<0.018	<0.019	--	--	--	--	--	--
Aroclor 1221	<0.087	<0.017	<0.018	<0.018	<0.018	<0.020	<0.018	<0.019	--	--	--	--	--	--
Aroclor 1232	<0.087	<0.017	<0.018	<0.018	<0.018	<0.020	<0.018	<0.019	--	--	--	--	--	--
Aroclor 1242	<0.087	<0.017	<0.018	<0.018	<0.018	<0.020	<0.018	<0.019	--	--	--	--	--	--
Aroclor 1248	<0.087	<0.017	<0.018	<0.018	<0.018	<0.020	<0.018	<0.019	--	--	--	--	--	--
Aroclor 1254	<0.087	<0.017	<0.018	<0.018	<0.018	<0.020	<0.018	<0.019	--	--	--	--	--	--
Aroclor 1260	<0.087	<0.017	<0.018	<0.018	<0.018	<0.020	<0.018	<0.019	--	--	--	--	--	--
Total PCBs	<0.087	<0.017	<0.018	<0.018	<0.018	<0.020	<0.018	<0.019	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (8 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB29 (0-3)	SB29 (7.5-10)	SB30 (0-3)	SB30 (12.5-15)	SB31 (0-3)	SB31 (7.5-10)	SB32 (0-3)	SB32 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**9/3/24**	**9/3/24**	**9/3/24**	**9/3/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**						
Aroclor 1016	<0.019	<0.018	<0.018	<0.026	<0.36	<0.19	<0.17	<0.018	--	--	--	--	--	--
Aroclor 1221	<0.019	<0.018	<0.018	<0.026	<0.36	<0.19	<0.17	<0.018	--	--	--	--	--	--
Aroclor 1232	<0.019	<0.018	<0.018	<0.026	<0.36	<0.19	<0.17	<0.018	--	--	--	--	--	--
Aroclor 1242	<0.019	<0.018	<0.018	<0.026	<0.36	<0.19	<0.17	<0.018	--	--	--	--	--	--
Aroclor 1248	<0.019	<0.018	<0.018	<0.026	<0.36	<0.19	<0.17	<0.018	--	--	--	--	--	--
Aroclor 1254	<0.019	<0.018	<0.018	<0.026	<0.36	<0.19	<0.17	<0.018	--	--	--	--	--	--
Aroclor 1260	<0.019	<0.018	<0.018	<0.026	<0.36	<0.19	<0.17	<0.018	--	--	--	--	--	--
Total PCBs	<0.019	<0.018	<0.018	<0.026	<0.36	<0.19	<0.17	<0.018	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (9 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB33 (0-3)	SB33 (5-7.5)	SB34 (0-3)	SB34 (5-7.5)	SB35 (0-3)	SB35 (7.5-10)	SB36 (0-3)	SB36 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**						
Aroclor 1016	<0.017	<0.020	<0.018	<0.017	<0.018	<0.019	<0.017	<0.17	--	--	--	--	--	--
Aroclor 1221	<0.017	<0.020	<0.018	<0.017	<0.018	<0.019	<0.017	<0.17	--	--	--	--	--	--
Aroclor 1232	<0.017	<0.020	<0.018	<0.017	<0.018	<0.019	<0.017	<0.17	--	--	--	--	--	--
Aroclor 1242	<0.017	<0.020	<0.018	<0.017	<0.018	<0.019	<0.017	<0.17	--	--	--	--	--	--
Aroclor 1248	<0.017	<0.020	<0.018	<0.017	<0.018	<0.019	<0.017	<0.17	--	--	--	--	--	--
Aroclor 1254	<0.017	<0.020	<0.018	<0.017	<0.018	<0.019	<0.017	<0.17	--	--	--	--	--	--
Aroclor 1260	0.30	<0.020	0.21	<0.017	<0.018	<0.019	0.021	<0.17	--	--	--	--	--	--
Total PCBs	0.30	<0.020	0.21	<0.017	<0.018	<0.019	0.021	<0.017	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (10 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB37 (0-3)	SB37 (12.5-15)	SB38 (0-3)	SB38 (12.5-15)	SB39 (0-3)	SB39 (7.5-10)	SB40 (0-3)	SB40 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**	**9/4/24**						
Aroclor 1016	<0.18	<0.18	<0.17	<0.17	<0.91	<0.17	<0.17	<0.19	--	--	--	--	--	--
Aroclor 1221	<0.18	<0.18	<0.17	<0.17	<0.91	<0.17	<0.17	<0.19	--	--	--	--	--	--
Aroclor 1232	<0.18	<0.18	<0.17	<0.17	<0.91	<0.17	<0.17	<0.19	--	--	--	--	--	--
Aroclor 1242	<0.18	<0.18	<0.17	<0.17	<0.91	<0.17	<0.17	<0.19	--	--	--	--	--	--
Aroclor 1248	<0.18	<0.18	<0.17	<0.17	<0.91	<0.17	<0.17	<0.19	--	--	--	--	--	--
Aroclor 1254	<0.18	<0.18	<0.17	<0.17	8.5	3.0	<0.17	<0.19	--	--	--	--	--	--
Aroclor 1260	<0.18	<0.18	<0.17	<0.17	<0.91	<0.17	<0.17	<0.19	--	--	--	--	--	--
Total PCBs	<0.18	<0.18	<0.17	<0.17	**8.5**	**3.0**	<0.17	<0.19	1.0	--(1)	1.0	--(1)	--(1)	--(1)

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Applicability requirements and methodologies for development of SROs under Tier 3 must be developed pursuant to 40 CFR Part 761

TABLE NO. 7 (11 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB41 (0-3)	SB41 (5-7.5)	SB42 (0-3)	SB42 (7.5-10)	SB43 (0-3)	SB43 (10-12.5)	SB44 (0-3)	SB44 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/4/24	9/5/24	9/5/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Aroclor 1016	<0.21	<0.18	<0.17	<0.17	<0.18	<0.19	<0.17	<0.18	--	--	--	--	--	--
Aroclor 1221	<0.21	<0.18	<0.17	<0.17	<0.18	<0.19	<0.17	<0.18	--	--	--	--	--	--
Aroclor 1232	<0.21	<0.18	<0.17	<0.17	<0.18	<0.19	<0.17	<0.18	--	--	--	--	--	--
Aroclor 1242	<0.21	<0.18	<0.17	<0.17	<0.18	<0.19	<0.17	<0.18	--	--	--	--	--	--
Aroclor 1248	<0.21	<0.18	<0.17	<0.17	<0.18	<0.19	<0.17	<0.18	--	--	--	--	--	--
Aroclor 1254	2.9	<0.18	<0.17	<0.17	<0.18	<0.19	<0.17	<0.18	--	--	--	--	--	--
Aroclor 1260	<0.21	<0.18	0.87	<0.17	<0.18	<0.19	<0.17	<0.18	--	--	--	--	--	--
Total PCBs	**2.9**	<0.18	0.87	<0.17	<0.18	<0.19	<0.17	<0.18	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (12 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB45 (0-3)	SB45 (5-7.5)	SB46 (0-3)	SB46 (3-5)	SB47 (0-3)	SB47 (7.5-10)	SB48 (0-3)	SB48 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Aroclor 1016	<0.17	<0.18	<0.17	<0.18	<0.18	<0.17	<0.18	<0.17	--	--	--	--	--	--
Aroclor 1221	<0.17	<0.18	<0.17	<0.18	<0.18	<0.17	<0.18	<0.17	--	--	--	--	--	--
Aroclor 1232	<0.17	<0.18	<0.17	<0.18	<0.18	<0.17	<0.18	<0.17	--	--	--	--	--	--
Aroclor 1242	<0.17	<0.18	<0.17	<0.18	<0.18	<0.17	<0.18	<0.17	--	--	--	--	--	--
Aroclor 1248	<0.17	<0.18	<0.17	<0.18	<0.18	<0.17	<0.18	<0.17	--	--	--	--	--	--
Aroclor 1254	<0.17	<0.18	<0.17	<0.18	<0.18	<0.17	<0.18	0.73	--	--	--	--	--	--
Aroclor 1260	<0.17	<0.18	<0.17	<0.18	<0.18	<0.17	<0.18	<0.17	--	--	--	--	--	--
Total PCBs	<0.17	<0.18	<0.17	<0.18	<0.18	<0.17	<0.18	0.73	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (13 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB49 (0-3)	SB49 (10-12.5)	SB50 (0-3)	SB50 (7.5-10)	SB51 (0-3)	SB51 (5-7.5)	SB52 (0-3)	SB52 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Aroclor 1016	<0.17	<0.21	<0.16	<0.18	<0.19	<0.18	<0.19	<0.99	--	--	--	--	--	--
Aroclor 1221	<0.17	<0.21	<0.16	<0.18	<0.19	<0.18	<0.19	<0.99	--	--	--	--	--	--
Aroclor 1232	<0.17	<0.21	<0.16	<0.18	<0.19	<0.18	<0.19	<0.99	--	--	--	--	--	--
Aroclor 1242	<0.17	<0.21	<0.16	<0.18	<0.19	<0.18	<0.19	<0.99	--	--	--	--	--	--
Aroclor 1248	<0.17	<0.21	<0.16	<0.18	<0.19	<0.18	<0.19	<0.99	--	--	--	--	--	--
Aroclor 1254	<0.17	<0.21	<0.16	<0.18	<0.19	<0.18	0.19	<0.99	--	--	--	--	--	--
Aroclor 1260	<0.17	<0.21	<0.16	<0.18	<0.19	<0.18	<0.19	<0.99	--	--	--	--	--	--
Total PCBs	<0.17	<0.21	<0.16	<0.18	<0.19	<0.18	0.19	<0.99	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (14 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB53 (0-3)	SB53 (10-12.5)	SB54 (0-3)	SB54 (10-12.5)	SB55 (0-3)	SB55 (5-7.5)	SB56 (0-3)	SB56 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/5/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Aroclor 1016	<0.019	<0.019	<0.19	<0.020	<8.9	<0.098	<0.18	<0.19	--	--	--	--	--	--
Aroclor 1221	<0.019	<0.019	<0.19	<0.020	<8.9	<0.098	<0.18	<0.19	--	--	--	--	--	--
Aroclor 1232	<0.019	<0.019	<0.19	<0.020	<8.9	<0.098	<0.18	<0.19	--	--	--	--	--	--
Aroclor 1242	<0.019	<0.019	<0.19	<0.020	<8.9	<0.098	<0.18	<0.19	--	--	--	--	--	--
Aroclor 1248	<0.019	<0.019	<0.19	<0.020	<8.9	<0.098	<0.18	<0.19	--	--	--	--	--	--
Aroclor 1254	0.21	<0.019	<0.19	<0.020	47	<0.098	<0.18	<0.19	--	--	--	--	--	--
Aroclor 1260	<0.019	<0.019	<0.19	<0.020	<8.9	<0.098	<0.18	<0.19	--	--	--	--	--	--
Total PCBs	0.21	<0.019	<0.19	<0.020	**47**	<0.098	<0.18	<0.19	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (15 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB57 (0-3)	SB57 (7.5-10)	SB58 (0-3)	SB58 (10-12.5)	SB59 (0-3)	SB59 (5-7.5)	SB60 (0-3)	SB60 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Aroclor 1016	<0.17	<0.19	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1221	<0.17	<0.19	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1232	<0.17	<0.19	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1242	<0.17	<0.19	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1248	<0.17	<0.19	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1254	<0.17	<0.19	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1260	<0.17	<0.19	<0.18	<0.17	<0.17	<0.17	0.33	0.30	--	--	--	--	--	--
Total PCBs	<0.17	<0.19	<0.18	<0.17	<0.17	<0.17	0.33	0.30	1.0	--(1)	1.0	--(1)	--(1)	--(1)

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Applicability requirements and methodologies for development of SROs under Tier 3 must be developed pursuant to 40 CFR Part 761

TABLE NO. 7 (16 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB61 (0-3)	SB61 (17.5-19)	SB62 (0-3)	SB62 (7.5-10)	SB63 (0-3)	SB63 (5-7.5)	SB64 (0-3)	SB64 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24						
Aroclor 1016	<0.18	<0.26	<0.19	<0.20	<0.18	<0.19	<0.19	<0.21	--	--	--	--	--	--
Aroclor 1221	<0.18	<0.26	<0.19	<0.20	<0.18	<0.19	<0.19	<0.21	--	--	--	--	--	--
Aroclor 1232	<0.18	<0.26	<0.19	<0.20	<0.18	<0.19	<0.19	<0.21	--	--	--	--	--	--
Aroclor 1242	<0.18	<0.26	<0.19	<0.20	<0.18	<0.19	<0.19	<0.21	--	--	--	--	--	--
Aroclor 1248	<0.18	<0.26	<0.19	<0.20	<0.18	<0.19	<0.19	<0.21	--	--	--	--	--	--
Aroclor 1254	<0.18	<0.26	<0.19	<0.20	<0.18	<0.19	<0.19	<0.21	--	--	--	--	--	--
Aroclor 1260	<0.18	<0.26	<0.19	<0.20	<0.18	<0.19	<0.19	<0.21	--	--	--	--	--	--
Total PCBs	<0.18	<0.26	<0.19	<0.20	<0.18	<0.19	<0.19	<0.21	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (17 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB65 (0-3)	SB65 (7.5-10)	SB66 (0-3)	SB66 (5-7.5)	SB67 (0-3)	SB67 (3-5)	SB68 (0-3)	SB68 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/6/24	9/9/24	9/9/24						
Aroclor 1016	<0.17	<0.17	<0.18	<0.17	<0.17	<0.18	<0.17	<0.18	--	--	--	--	--	--
Aroclor 1221	<0.17	<0.17	<0.18	<0.17	<0.17	<0.18	<0.17	<0.18	--	--	--	--	--	--
Aroclor 1232	<0.17	<0.17	<0.18	<0.17	<0.17	<0.18	<0.17	<0.18	--	--	--	--	--	--
Aroclor 1242	<0.17	<0.17	<0.18	<0.17	<0.17	<0.18	<0.17	<0.18	--	--	--	--	--	--
Aroclor 1248	<0.17	<0.17	<0.18	<0.17	<0.17	<0.18	<0.17	<0.18	--	--	--	--	--	--
Aroclor 1254	<0.17	<0.17	<0.18	<0.17	<0.17	<0.18	0.25	0.26	--	--	--	--	--	--
Aroclor 1260	<0.17	<0.17	<0.18	<0.17	<0.17	<0.18	<0.17	<0.18	--	--	--	--	--	--
Total PCBs	<0.17	<0.17	<0.18	<0.17	<0.17	<0.18	0.25	0.26	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (18 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB69 (0-3)	SB69 (3-5)	SB70 (0-3)	SB70 (12.5-15)	SB70 (17.5-20)	SB71 (0-3)	SB72 (0-3)	SB72 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	9/9/24	9/9/24	9/9/24	9/9/24	9/9/24	9/9/24	9/10/24	9/10/24						
Aroclor 1016	<0.18	<0.18	<0.17	<0.17	<0.19	<0.89	<0.20	<0.19	--	--	--	--	--	--
Aroclor 1221	<0.18	<0.18	<0.17	<0.17	<0.19	<0.89	<0.20	<0.19	--	--	--	--	--	--
Aroclor 1232	<0.18	<0.18	<0.17	<0.17	<0.19	<0.89	<0.20	<0.19	--	--	--	--	--	--
Aroclor 1242	<0.18	<0.18	<0.17	<0.17	<0.19	<0.89	<0.20	<0.19	--	--	--	--	--	--
Aroclor 1248	<0.18	<0.18	<0.17	<0.17	<0.19	<0.89	<0.20	<0.19	--	--	--	--	--	--
Aroclor 1254	<0.18	<0.18	<0.17	<0.17	<0.19	5.0	<0.20	<0.19	--	--	--	--	--	--
Aroclor 1260	<0.18	<0.18	<0.17	<0.17	<0.19	<0.89	<0.20	<0.19	--	--	--	--	--	--
Total PCBs	<0.18	<0.18	<0.17	<0.17	<0.19	**5.0**	<0.20	<0.19	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (19 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB73 (0-3)	SB73 (5-7.5)	SB74 (0-3)	SB74 (3-5)	SB75 (0-3)	SB75 (5-7.5)	SB76 (0-3)	SB76 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24						
Aroclor 1016	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	<0.19	<0.21	--	--	--	--	--	--
Aroclor 1221	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	<0.19	<0.21	--	--	--	--	--	--
Aroclor 1232	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	<0.19	<0.21	--	--	--	--	--	--
Aroclor 1242	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	0.22	<0.21	--	--	--	--	--	--
Aroclor 1248	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	<0.19	<0.21	--	--	--	--	--	--
Aroclor 1254	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	<0.19	<0.21	--	--	--	--	--	--
Aroclor 1260	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	<0.19	<0.21	--	--	--	--	--	--
Total PCBs	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	0.22	<0.21	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (20 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB77 (0-3)	SB77 (5-7.5)	SB78 (0-3)	SB78 (10-12.5)	SB79 (0-3)	SB79 (5-7.5)	SB80 (0-3)	SB80 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24	9/10/24						
Aroclor 1016	<0.17	<0.17	<0.17	<0.18	<0.17	<0.18	<0.86	<0.017	--	--	--	--	--	--
Aroclor 1221	<0.17	<0.17	<0.17	<0.18	<0.17	<0.18	<0.86	<0.017	--	--	--	--	--	--
Aroclor 1232	<0.17	<0.17	<0.17	<0.18	<0.17	<0.18	<0.86	<0.017	--	--	--	--	--	--
Aroclor 1242	<0.17	<0.17	<0.17	<0.18	<0.17	<0.18	<0.86	<0.017	--	--	--	--	--	--
Aroclor 1248	<0.17	<0.17	<0.17	<0.18	<0.17	<0.18	<0.86	<0.017	--	--	--	--	--	--
Aroclor 1254	<0.17	<0.17	<0.17	<0.18	<0.17	<0.18	2.4	0.22	--	--	--	--	--	--
Aroclor 1260	<0.17	<0.17	<0.17	<0.18	<0.17	<0.18	<0.86	<0.017	--	--	--	--	--	--
Total PCBs	<0.17	<0.17	<0.17	<0.18	<0.17	<0.18	**2.4**	0.22	1.0	--(1)	1.0	--(1)	--(1)	--(1)

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Applicability requirements and methodologies for development of SROs under Tier 3 must be developed pursuant to 40 CFR Part 761

TABLE NO. 7 (21 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB81 (0-3)	SB81 (7.5-10)	SB82 (0-3)	SB82 (5-7.5)	SB83 (0-3)	SB83 (3-5)	SB84 (0-3)	SB84 (5-7.5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24	9/11/24						
Aroclor 1016	<0.18	<0.18	<0.37	<0.22	<0.18	<0.17	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1221	<0.18	<0.18	<0.37	<0.22	<0.18	<0.17	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1232	<0.18	<0.18	<0.37	<0.22	<0.18	<0.17	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1242	<0.18	<0.18	<0.37	<0.22	<0.18	<0.17	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1248	<0.18	<0.18	<0.37	<0.22	<0.18	<0.17	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1254	<0.18	<0.18	<0.37	<0.22	<0.18	<0.17	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1260	<0.18	<0.18	<0.37	<0.22	<0.18	<0.17	<0.17	<0.17	--	--	--	--	--	--
Total PCBs	<0.18	<0.18	<0.37	<0.22	<0.18	<0.17	<0.17	<0.17	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (22 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB85 (0-3)	SB85 (10-12.5)	SB86 (0-3)	SB86 (7.5-10)	SB87 (0-3)	SB87 (3-5)	SB88 (0-3)	SB88 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	9/11/24	9/11/24	9/11/24	9/11/24	9/12/24	9/12/24	9/12/24	9/12/24						
Aroclor 1016	<0.18	<0.18	<0.17	<0.18	<0.19	<0.18	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1221	<0.18	<0.18	<0.17	<0.18	<0.19	<0.18	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1232	<0.18	<0.18	<0.17	<0.18	<0.19	<0.18	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1242	<0.18	<0.18	<0.17	<0.18	<0.19	<0.18	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1248	<0.18	<0.18	<0.17	<0.18	<0.19	<0.18	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1254	<0.18	<0.18	<0.17	<0.18	<0.19	<0.18	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1260	<0.18	<0.18	<0.17	<0.18	<0.19	<0.18	<0.17	<0.17	--	--	--	--	--	--
Total PCBs	<0.18	<0.18	<0.17	<0.18	<0.19	<0.18	<0.17	<0.17	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (23 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB89 (0-3)	SB89 (3-5)	SB90 (0-3)	SB90 (7.5-10)	SB91 (0-3)	SB91 (12.5-15)	SB92 (0-3)	SB92 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24	9/12/24						
Aroclor 1016	<0.18	<0.17	<0.17	<0.18	<0.17	<0.18	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1221	<0.18	<0.17	<0.17	<0.18	<0.17	<0.18	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1232	<0.18	<0.17	<0.17	<0.18	<0.17	<0.18	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1242	<0.18	<0.17	<0.17	<0.18	<0.17	<0.18	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1248	<0.18	<0.17	<0.17	0.21	0.44	0.52	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1254	<0.18	<0.17	<0.17	<0.18	<0.17	<0.18	<0.17	<0.17	--	--	--	--	--	--
Aroclor 1260	<0.18	<0.17	<0.17	<0.18	<0.17	<0.18	<0.17	<0.17	--	--	--	--	--	--
Total PCBs	<0.18	<0.17	<0.17	0.21	0.44	0.52	<0.17	<0.17	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (24 of 29)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB93 (0-3)	SB93 (5-7.5)	SB94 (0-3)	SB94 (12.5-15)	SB95 (0-3)	SB95 (5-7.5)	SB96 (0-3)	SB96 (7.5-10)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24	9/16/24						
Aroclor 1016	<0.17	<0.18	<0.17	<0.18	<0.90	<0.85	<0.18	<0.18	--	--	--	--	--	--
Aroclor 1221	<0.17	<0.18	<0.17	<0.18	<0.90	<0.85	<0.18	<0.18	--	--	--	--	--	--
Aroclor 1232	<0.17	<0.18	<0.17	<0.18	3.0	2.4	<0.18	<0.18	--	--	--	--	--	--
Aroclor 1242	<0.17	<0.18	<0.17	<0.18	<0.90	<0.85	<0.18	<0.18	--	--	--	--	--	--
Aroclor 1248	0.31	<0.18	<0.17	<0.18	<0.90	<0.85	<0.18	<0.18	--	--	--	--	--	--
Aroclor 1254	<0.17	<0.18	<0.17	<0.18	<0.90	<0.85	<0.18	<0.18	--	--	--	--	--	--
Aroclor 1260	<0.17	<0.18	<0.17	<0.18	<0.90	<0.85	<0.18	<0.18	--	--	--	--	--	--
Total PCBs	0.31	<0.18	<0.17	<0.18	**3.0**	**2.4**	<0.18	<0.18	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (25 of 29)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB97 (0-3)	SB97 (5-7.5)	SB98 (0-3)	SB98 (7.5-10)	SB99 (0-3)	SB99 (10-12.5)	SB100 (0-3)	SB100 (3-5)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
									Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Collection Date	9/16/24	9/16/24	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24	9/17/24						
Aroclor 1016	<0.17	<0.17	<0.88	<0.91	<0.17	<0.25	<0.83	<0.83	--	--	--	--	--	--
Aroclor 1221	<0.17	<0.17	<0.88	<0.91	<0.17	<0.25	<0.83	<0.83	--	--	--	--	--	--
Aroclor 1232	<0.17	<0.17	<0.88	<0.91	<0.17	<0.25	<0.83	<0.83	--	--	--	--	--	--
Aroclor 1242	<0.17	<0.17	<0.88	<0.91	<0.17	<0.25	<0.83	<0.83	--	--	--	--	--	--
Aroclor 1248	<0.17	<0.17	<0.88	<0.91	<0.17	<0.25	<0.83	<0.83	--	--	--	--	--	--
Aroclor 1254	<0.17	<0.17	<0.88	<0.91	<0.17	<0.25	<0.83	<0.83	--	--	--	--	--	--
Aroclor 1260	<0.17	<0.17	<0.88	<0.91	<0.17	<0.25	<0.83	<0.83	--	--	--	--	--	--
Total PCBs	<0.17	<0.17	<0.88	<0.91	<0.17	<0.25	<0.83	<0.83	1.0	--(1)	1.0	--(1)	--(1)	--(1)

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Applicability requirements and methodologies for development of SROs under Tier 3 must be developed pursuant to 40 CFR Part 761

TABLE NO. 7 (26 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB101 (0-3)	SB101 (12.5-15)	SB102 (0-3)	SB102 (7.5-10)	SB103 (0-3)	SB103 (5-7.5)	SB104 (0-3)	SB105 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/17/24	9/17/24	9/17/24	9/17/24	9/18/24	9/18/24	9/18/24	9/18/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Aroclor 1016	<0.87	<0.21	<0.18	<0.17	<0.16	<0.18	<0.19	<0.17	--	--	--	--	--	--
Aroclor 1221	<0.87	<0.21	<0.18	<0.17	<0.16	<0.18	<0.19	<0.17	--	--	--	--	--	--
Aroclor 1232	<0.87	<0.21	<0.18	<0.17	<0.16	<0.18	<0.19	<0.17	--	--	--	--	--	--
Aroclor 1242	<0.87	<0.21	0.33	<0.17	<0.16	<0.18	<0.19	<0.17	--	--	--	--	--	--
Aroclor 1248	<0.87	<0.21	<0.18	<0.17	<0.16	<0.18	<0.19	<0.17	--	--	--	--	--	--
Aroclor 1254	<0.87	<0.21	<0.18	<0.17	<0.16	<0.18	<0.19	<0.17	--	--	--	--	--	--
Aroclor 1260	<0.87	<0.21	<0.18	<0.17	<0.16	<0.18	<0.19	<0.17	--	--	--	--	--	--
Total PCBs	<0.87	<0.21	0.33	<0.17	<0.16	<0.18	<0.19	<0.17	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (27 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB105 (10-12.5)	SB106 (0-3)	SB107 (0-3)	SB107 (7.5-10)	SB108 (0-3)	SB109 (0-3)	SB109 (5-7.5)	SB110 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/18/24	9/18/24	9/18/24	9/18/24	9/19/24	9/19/24	9/19/24	9/19/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Aroclor 1016	<0.19	<0.17	<0.17	<0.21	<0.018	<0.18	<0.020	<0.18	--	--	--	--	--	--
Aroclor 1221	<0.19	<0.17	<0.17	<0.21	<0.018	<0.18	<0.020	<0.18	--	--	--	--	--	--
Aroclor 1232	<0.19	<0.17	<0.17	<0.21	<0.018	<0.18	<0.020	<0.18	--	--	--	--	--	--
Aroclor 1242	<0.19	<0.17	<0.17	<0.21	<0.018	<0.18	<0.020	<0.18	--	--	--	--	--	--
Aroclor 1248	<0.19	<0.17	<0.17	<0.21	<0.018	0.81	<0.020	<0.18	--	--	--	--	--	--
Aroclor 1254	<0.19	<0.17	0.45	<0.21	<0.018	<0.18	<0.020	0.60	--	--	--	--	--	--
Aroclor 1260	<0.19	<0.17	<0.17	<0.21	<0.018	<0.18	<0.020	<0.18	--	--	--	--	--	--
Total PCBs	<0.19	<0.17	0.45	<0.21	<0.018	0.81	<0.020	0.60	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (28 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB110 (5-7.5)	SB111 (0-3)	SB111 (3-5)	SB112 (0-3)	SB113 (0-3)	SB113 (10-12.5)	SB114 (0-3)	SB114 (7.5-12)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/19/24	9/19/24	9/19/24	9/19/24	9/20/24	9/20/24	9/20/24	9/20/24	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Aroclor 1016	<0.017	<0.017	<0.017	<0.021	<0.17	<0.20	<0.18	<0.18	--	--	--	--	--	--
Aroclor 1221	<0.017	<0.017	<0.017	<0.021	<0.17	<0.20	<0.18	<0.18	--	--	--	--	--	--
Aroclor 1232	<0.017	<0.017	<0.017	<0.021	<0.17	<0.20	<0.18	<0.18	--	--	--	--	--	--
Aroclor 1242	<0.017	<0.017	<0.017	<0.021	<0.17	<0.20	<0.18	<0.18	--	--	--	--	--	--
Aroclor 1248	<0.017	<0.017	<0.017	<0.021	<0.17	<0.20	<0.18	<0.18	--	--	--	--	--	--
Aroclor 1254	<0.017	<0.017	<0.017	<0.021	<0.17	<0.20	<0.18	<0.18	--	--	--	--	--	--
Aroclor 1260	<0.017	<0.017	0.020	<0.021	<0.17	<0.20	<0.18	<0.18	--	--	--	--	--	--
Total PCBs	<0.017	<0.017	0.020	<0.021	<0.17	<0.20	<0.18	<0.18	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (29 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB115 (0-3)	SB115 (5-7.5)	SB116 (0-3)	SB116 (12.5-15)	SB117 (0-3)	SB117 (5-7.5)	B120 (0-3)	B121 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	9/20/24	2/3/25	2/3/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Aroclor 1016	<0.19	<0.17	<0.18	<0.20	<0.19	<0.19	0.0274	<0.00411	--	--	--	--	--	--
Aroclor 1221	<0.19	<0.17	<0.18	<0.20	<0.19	<0.19	<0.00431	<0.00449	--	--	--	--	--	--
Aroclor 1232	<0.19	<0.17	<0.18	<0.20	<0.19	<0.19	<0.00345	<0.00360	--	--	--	--	--	--
Aroclor 1242	<0.19	<0.17	<0.18	<0.20	<0.19	<0.19	<0.00351	<0.00366	--	--	--	--	--	--
Aroclor 1248	<0.19	<0.17	<0.18	<0.20	<0.19	<0.19	<0.00389	<0.00406	--	--	--	--	--	--
Aroclor 1254	<0.19	<0.17	<0.18	<0.20	<0.19	<0.19	<0.00445	<0.00463	--	--	--	--	--	--
Aroclor 1260	<0.19	<0.17	<0.18	<0.20	<0.19	<0.19	0.0967	<0.00789	--	--	--	--	--	--
Total PCBs	<0.19	<0.17	<0.18	<0.20	<0.19	<0.19	0.1241	<0.00789	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (30 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	B122 (0-3)	B122 (15-17.5)	B123 (0-3)	B123 (5-7.5)	B125 (0-3)	B125 (7.5-10)	B126 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	2/3/25	2/3/25	2/3/25	2/3/25	2/4/25	2/4/25	2/4/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Aroclor 1016	<0.00421	<0.00405	<0.00406	<0.00384	<0.00403	<0.00381	<0.00393	--	--	--	--	--	--
Aroclor 1221	<0.00460	<0.00443	<0.00444	<0.00420	<0.00441	<0.00417	<0.00430	--	--	--	--	--	--
Aroclor 1232	<0.00369	<0.00355	<0.00356	<0.00337	<0.00354	<0.00334	<0.00345	--	--	--	--	--	--
Aroclor 1242	<0.00375	<0.00361	<0.00362	<0.00343	<0.00359	<0.00340	<0.00350	--	--	--	--	--	--
Aroclor 1248	<0.00416	<0.00400	<0.00401	<0.00380	<0.00398	<0.00377	<0.00388	--	--	--	--	--	--
Aroclor 1254	<0.00475	<0.00457	<0.00458	<0.00434	<0.00455	<0.00430	<0.00443	--	--	--	--	--	--
Aroclor 1260	0.0329	<0.00778	0.00818	<0.00738	<0.00774	<0.00732	<0.00755	--	--	--	--	--	--
Total PCBs	0.0329	<0.00778	0.818	<0.00738	<0.00774	<0.00732	<0.00755	1.0	--(1)	1.0	--(1)	--(1)	--(1)

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Applicability requirements and methodologies for development of SROs under Tier 3 must be developed pursuant to 40 CFR Part 761

TABLE NO. 7 (31 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	B126 (5-7.5)	B127 (0-3)	B127 (5-7.5)	SB128 (0-3)	SB128 (7.5-10)	SB129 (0-3)	SB129 (5-7.5)	SB143 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	2/4/25	2/4/25	2/4/25	2/10/25	2/10/25	2/10/25	2/10/25	2/18/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Aroclor 1016	<0.00407	<0.00424	<0.00387	<0.00387	<0.00380	<0.00380	<0.00403	<0.00404	--	--	--	--	--	--
Aroclor 1221	<0.00445	<0.00463	<0.00423	<0.00423	<0.00415	<0.00416	<0.00441	<0.00442	--	--	--	--	--	--
Aroclor 1232	<0.00357	<0.00372	<0.00339	<0.00339	<0.00333	<0.00334	<0.00354	<0.00354	--	--	--	--	--	--
Aroclor 1242	<0.00363	<0.00378	<0.00345	<0.00345	<0.00339	<0.00339	<0.00359	<0.00360	--	--	--	--	--	--
Aroclor 1248	<0.00402	<0.00419	<0.00382	<0.00382	<0.00375	<0.00376	<0.00398	<0.00399	--	--	--	--	--	--
Aroclor 1254	<0.00459	<0.00478	<0.00437	<0.00436	<0.00429	<0.00429	<0.00455	<0.00456	--	--	--	--	--	--
Aroclor 1260	<0.00782	<0.00814	<0.00743	<0.00743	<0.00730	<0.00731	<0.00774	<0.00776	--	--	--	--	--	--
Total PCBs	<0.00782	<0.00814	<0.00743	<0.00743	<0.00730	<0.00731	<0.00774	<0.00776	1.0	--(1)	1.0	--(1)	--(1)	--(1)

TABLE NO. 7 (32 of 32)
Soil Sample Analytical Results: PCBs
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB143 (15-17.5)	SB144 (0-3)	SB144 (12.5-15)	SB145 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
					Industrial - Commercial		Construction Worker		Migration to Groundwater	
Collection Date	2/18/25	2/18/25	2/18/25	4/8/25	Soil Ingestion	Outdoor Inhalation	Soil Ingestion	Inhalation	Class I	Class II
Aroclor 1016	<0.00608	<0.00395	<0.00452	<0.18	--	--	--	--	--	--
Aroclor 1221	<0.00665	<0.00431	<0.00495	<0.18	--	--	--	--	--	--
Aroclor 1232	<0.00533	<0.00346	<0.00397	<0.18	--	--	--	--	--	--
Aroclor 1242	<0.00542	<0.00352	<0.00403	<0.18	--	--	--	--	--	--
Aroclor 1248	<0.00601	<0.00390	<0.00447	<0.18	--	--	--	--	--	--
Aroclor 1254	<0.00686	<0.00445	<0.00510	1.3	--	--	--	--	--	--
Aroclor 1260	<0.0117	<0.00758	<0.00869	<0.18	--	--	--	--	--	--
Total PCBs	<0.0117	<0.00758	<0.00869	**1.3**	1.0	--(1)	1.0	--(1)	--(1)	--(1)

Notes: Results listed in mg/kg (parts per million)
Tier 1 SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
< indicates not detected at stated detection limits
-- indicates value not available
(1) Applicability requirements and methodologies for development of SROs under Tier 3 must be developed pursuant to 40 CFR Part 761

TABLE NO. 8 (1 of 10)
Soil Sample Analytical Results: TPH
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB21a (7.5-10)	SB21 (12.5-15)	SB21a (15-17.5)	SB21b (7.5-10)	SB21b (10-12.5)	SB21b (15-17.5)	SB21c (7.5-10)	SB21c (12.5-15)	SB21c (15-17.5)	SB21d (7.5-10)	SB21d (10-12.5)	SB21d (15-17.5)	SB21e (7.5-10)	SB21e (12.5-15)	SB21e (15-17.5)	SB21f (10-15)	SB21f (15-17.5)	Default Soil Attenuation Capacity: Subsurface Soils[1]	Default Soil Attenuation Capacity: Surface Soils[2]
Collection Date	**12/9/24**	**8/30/24**	**12/9/24**	**12/6/24**	**12/6/24**	**12/6/24**	**12/6/24**	**12/6/24**	**12/6/24**	**12/6/24**	**12/6/24**	**12/6/24**	**12/9/24**	**12/9/24**	**12/9/24**	**2/11/25**	**2/11/25**		
TPH - DRO	42	2,100	21	70	16,000	11	230	4,800	20	17	27,000	19	54	11,000	17	18,000	570	--	--
TPH - ORO	100	2,200	26	120	17,000	<19	620	5,300	<19	<19	15,000	<20	53	8,700	<19	32,000	1,700	--	--
TPH - GRO	<0.80	13	<1.5	3.0	3.5	<1.2	1.3	4.5	<1.3	<1.3	19	<1.3	<1.7	16	<1.1	180	<20	--	--
TPH - Total	<142.8	**4,313**	<48.5	193	**33,004**	<31.2	851	**10,105**	<40.3	<37.3	**42,019**	<40.3	<108.7	**19,716**	<37.1	**50,180**	**<2,290**	2,000	6,000

TABLE NO. 8 (2 of 10)
Soil Sample Analytical Results: TPH
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB21g (10-15)	SB21g (15-17.5)	SB21h (10-15)	SB21h (15-17.5)	SB21i (10-15)	SB21i (15-17.5)	SB21j (10-12.5)	SB21j (12.5-15)	SB21j (17.5-20)	SB21k (10-15)	SB21l (10-15)	SB21m (10-15)	SB21n (10-15)	SB21o (10-15)	SB21p (10-15)	SB21q (10-15)	SB21r (10-15)	Default Soil Attenuation Capacity: Subsurface Soils[1]	Default Soil Attenuation Capacity: Surface Soils[2]
Collection Date	**2/11/25**	**2/11/25**	**2/11/25**	**2/11/25**	**2/11/25**	**2/11/25**	**2/25/25**	**2/25/25**	**2/25/25**	**3/19/25**	**3/19/25**	**3/19/25**	**3/19/25**	**3/19/25**	**3/26/25**	**3/26/25**	**4/7/25**		
TPH - DRO	100	76	7,400	270	12,000	500	1,900	2,500	150	16	14	13	66,000	19	<10	32	4,000	--	--
TPH - ORO	560	550	30,000	3,900	24,000	3,200	2,200	1,500	100	<20	<22	<19	25,000	36	<21	<21	1,500	--	--
TPH - GRO	<20	<20	<20	<20	43	<20	<20	56	<20	<1.0	<1.5	<1.1	630	<1.2	<1.4	<1.3	11	--	--
TPH - Total	<680	<646	**37,420**	**<4,190**	**36,043**	**<3,720**	**<4,100**	**4,056**	<270	<37	<37.5	<33.1	**91,630**	<56.2	<32.4	<54.3	**5,511**	2,000	6,000

TABLE NO. 8 (3 of 10)
Soil Sample Analytical Results: TPH
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB21s (10-15)	SB21t (7.5-10)	SB21u (7.5-10)	SB27 (5-7.5)	SB37 (12.5-15)	SB53 (15-17.5)	SB53 (20-22.5)	SB55 (15-17.5)	SB55 (17.5-20)	SB61a (7.5-10)	SB61 (12.5-15)	SB61 (17.5-19)	SB61a (35-37.5)	SB61a (37.5-40)	SB61b (7.5-10)	SB61b (12.5-15)	SB61b (17.5-19)	Default Soil Attenuation Capacity: Subsurface Soils[1]	Default Soil Attenuation Capacity: Surface Soils[2]
Collection Date	**4/8/25**	**4/8/25**	**4/8/25**	**9/3/24**	**9/4/24**	**2/24/25**	**2/24/25**	**2/21/25**	**2/21/25**	**12/16/24**	**9/6/24**	**9/6/24**	**2/21/25**	**2/21/25**	**12/13/24**	**12/13/24**	**12/13/24**		
TPH - DRO	<9.8	510	400	22	81	43	27	140	<15	150	26,000	5,300	26	<15	180	23,000	<17	--	--
TPH - ORO	<20	630	720	25	45	110	53	370	<49	180	36,000	5,500	120	<49	240	11,000	<34	--	--
TPH - GRO	<1.0	<1.1	<1.3	33	38	<20	<20	<20	<20	2.0	16	51	<20	<20	19	52	<3.2	--	--
TPH - Total	<30.8	<1141.1	<1121.3	80	164	<173	<100	<530	<84	332	**62,016**	**10,851**	<166	<84	439	**34,052**	<54.2	2,000	6,000

TABLE NO. 8 (4 of 10)
Soil Sample Analytical Results: TPH
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB61c (7.5-10)	SB61c (12.5-15)	SB61c (15-17)	SB61d (10-12.5)	SB61d (17.5-20)	SB61d (25-27.5)	SB61e (7.5-10)	SB61e (10-12.5)	SB61e (22.5-25)	SB61f (15-17.5)	SB61f (22.5-25)	SB61g (12.5-15)	SB61g (20-22.5)	SB61h (12.5-15)	SB61h (17.5-19)	SB61i (12.5-15)	SB61j (15-17.5)	Default Soil Attenuation Capacity: Subsurface Soils[1]	Default Soil Attenuation Capacity: Surface Soils[2]
Collection Date	**12/13/24**	**12/13/24**	**12/13/24**	**12/16/24**	**12/16/24**	**12/16/24**	**12/16/24**	**12/16/24**	**12/16/24**	**2/17/25**	**2/18/25**	**2/17/25**	**2/18/25**	**2/18/25**	**2/18/25**	**2/18/25**	**2/19/25**		
TPH - DRO	23	8,300	2,300	400	6,700	1,700	91	26,000	50	1,600	420	20,000	100	4,600	3,800	68	32	--	--
TPH - ORO	34	8,500	2,800	1,100	6,600	1,500	160	14,000	46	4,400	1,500	48,000	290	12,000	8,700	210	110	--	--
TPH - GRO	10	39	20	6.1	8.9	8.0	3.6	50	<1.3	130	<20	<200	<20	110	<100	<20	<20	--	--
TPH - Total	67	**16,839**	**5,120**	1,506	**13,309**	**3,208**	255	**40,050**	<97.3	**6,130**	<1940	**<68,200**	<410	**16,710**	**<12,600**	<298	<162	2,000	6,000

Notes: Results listed in mg/kg (parts per million)
Shaded/Bolded cell indicates value exceeds the applicable Default Attenuation Capacity
DRO = Diesel Range Organics
ORO = Oil Range Organics
GRO = Gasoline Range Organics
TPH = Total Petroleum Hydrocarbons
(1) Pursuant to 35 IAC 742.215(b)(1)(A) for soils within one meter of the surface
(2) Pursuant to 35 IAC 742.215(b)(1)(A) for soils below one meter of the surface

TABLE NO. 8 (5 of 10)
Soil Sample Analytical Results: TPH
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB61j (20-22.5)	SB61j (25-27.5)	SB61k (15-17.5)	SB61k (20-22.5)	SB61k (25-27.5)	SB61l (15-17.5)	SB61l (20-22.5)	SB61l (25-27.5)	SB61m (14-15)	SB61m (15-18)	SB61n (15-17.5)	SB61n (17.5-20)	SB61n (20-22.5)	SB61o (15-17.5)	SB61p (17.5-20)	SB61q (15-17.5)	SB61r (15-17.5)	SB61s (15-17.5)	Default Soil Attenuation Capacity	
Collection Date	**2/19/25**	**2/19/25**	**2/19/25**	**2/19/25**	**2/19/25**	**2/20/25**	**2/20/25**	**2/20/25**	**2/20/25**	**2/20/25**	**2/20/25**	**2/20/25**	**2/20/25**	**2/21/25**	**3/19/25**	**3/19/25**	**3/24/25**	**3/24/25**	**Subsurface Soils[1]**	**Surface Soils[2]**
TPH - DRO	240	16	1,300	65	740	49	270	15	3,200	10,000	69	22	76	<15	6,400	1,700	33	12,000	--	--
TPH - ORO	730	<49	2,400	220	1,600	120	800	74	8,700	31,000	350	110	400	<49	11,000	1,600	34	20,000	--	--
TPH - GRO	<20	<20	<20	<20	<20	<20	<20	<20	<200	<200	<20	<20	<20	<20	7.1	2.9	<1.2	12	--	--
TPH - Total	<990	<85	**<3,720**	<305	**<2,360**	<189	<1,090	<109	**<11,920**	**<41,200**	<439	<152	<496	<84	**17,407**	**3,303**	<68.2	**32,012**	2,000	6,000

TABLE NO. 8 (6 of 10)
Soil Sample Analytical Results: TPH
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB61t (15-17.5)	SB61u (15-17.5)	SB61v (15-17.5)	SB61w (15-17.5)	SB61x (15-17.5)	SB61y (15-17.5)	SB61z (15-17.5)	SB70a (7.5-10)	SB70 (12.5-15)	SB70a (17.5-20)	SB70b (7.5-10)	SB70b (12.5-15)	SB70b (17.5-20)	SB70c (7.5-10)	SB70c (12.5-15)	SB70c (17.5-20)	SB70d (7.5-10)	SB70d (10-12.5)	Default Soil Attenuation Capacity	
Collection Date	**3/24/25**	**3/31/25**	**4/1/25**	**4/1/25**	**4/3/25**	**4/3/25**	**4/7/25**	**12/10/24**	**9/9/24**	**12/10/24**	**12/9/24**	**12/9/24**	**12/9/24**	**12/9/24**	**12/9/24**	**12/9/24**	**12/9/24**	**12/9/24**	**Subsurface Soils[1]**	**Surface Soils[2]**
TPH - DRO	16,000	110	4,600	96	29,000	110	57,000	45	7,200	24	580	8,900	71	<9.1	1,000	21	450	17,000	--	--
TPH - ORO	16,000	140	6,300	51	37,000	210	29,000	75	2,500	30	670	5,300	65	23	540	<19	630	7,700	--	--
TPH - GRO	54	3.1	<1.2	<1.5	5.8	1.8	42	<1.1	300	<1.3	7.4	250	<1.3	<0.97	110	<1.2	1.5	400	--	--
TPH - Total	**32,054**	253	**<10,901.1**	<148.1	**66,006**	322	**86,042**	<121.1	**10,000**	<55.3	1,257	**14,450**	<137.3	<33.07	1,650	<41.2	1,082	**25,100**	2,000	6,000

TABLE NO. 8 (7 of 10)
Soil Sample Analytical Results: TPH
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB70d (17.5-20)	SB70e (7.5-10)	SB70e (10-12.5)	SB70e (15-17.5)	SB70f (10-15)	SB70f (15-17.5)	SB70g (10-15)	SB70g (15-17.5)	SB70g (17.5-20)	SB70h (10-15)	SB70i (10-15)	SB70j (10-15)	SB70k (10-15)	SB70l (15-17.5)	SB70m (15-17.5)	SB70n (12.5-15)	SB70n (15-17.5)	SB70o (12.5-15)	Default Soil Attenuation Capacity	
Collection Date	**12/9/24**	**12/9/24**	**12/9/24**	**12/9/24**	**2/12/25**	**2/12/25**	**2/12/25**	**2/12/25**	**2/12/25**	**3/21/25**	**3/25/25**	**3/26/25**	**3/26/25**	**3/27/25**	**3/27/25**	**3/27/25**	**3/27/25**	**3/27/25**	**Subsurface Soils[1]**	**Surface Soils[2]**
TPH - DRO	20	18	10,000	26	9,000	150	15,000	2,400	150	16	23,000	16	7,900	14,000	3,900	2,000	79	22,000	--	--
TPH - ORO	<19	30	5,600	22	21,000	570	10,000	2,400	470	<22	10,000	<20	5,600	13,000	3,300	2,900	76	14,000	--	--
TPH - GRO	<1.4	<1.0	190	1.2	<200	<20	420	70	<20	<1.9	510	1.6	17	14	18	6.9	<1.1	22	--	--
TPH - Total	<40.4	<49	**15,790**	49	**<30,200**	<740	**25,420**	**4,870**	<640	<39.9	**33,510**	<37.6	**13,517**	**27,014**	**7,218**	**4,907**	<156.1	**36,022**	2,000	6,000

TABLE NO. 8 (8 of 10)
Soil Sample Analytical Results: TPH
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB70p (15-17.5)	SB70q (15-17.5)	SB70r (15-17.5)	SB70s (15-17.5)	SB70t (10-15)	SB70u (15-17.5)	SB70v (15-17.5)	SB70w (15-17.5)	SB70x (15-17.5)	SB70y (15-17.5)	SB70z (10-15)	SB70aa (10-15)	SB78 (10-12.5)	SB90 (0-3)	SB113 (10-12.5)	SB118 (10-12.5)	SB118 (12.5-15)	SB118a (10-15)	Default Soil Attenuation Capacity	
Collection Date	**3/28/25**	**3/28/25**	**3/31/25**	**3/31/25**	**3/31/25**	**4/1/25**	**4/1/25**	**4/1/25**	**4/1/25**	**4/3/25**	**4/7/25**	**4/7/25**	**3/19/25**	**3/19/25**	**12/2/24**	**12/9/24**	**12/9/24**	**2/11/25**	**Subsurface Soils[1]**	**Surface Soils[2]**
TPH - DRO	21	79,000	28	3,100	11	16	7,600	1,600	13,000	12,000	210	130	37	500	17	4,200	82	220	--	--
TPH - ORO	<20	59,000	<19	2,100	<19	<21	2,900	790	6,800	7,500	270	150	27	280	35	3,200	57	1,000	--	--
TPH - GRO	<1.1	21	<1.1	6.8	<1.1	<1.3	29	28	2.5	<1.0	1.4	1.2	<0.88	<1.5	<1.2	31	<1.2	<20	--	--
TPH - Total	<42.1	**138,021**	<48.1	**5,207**	<31.1	<38.3	**10,529**	**2,418**	**19,803**	**<19,501**	481	281	<64.88	<781.5	<53.2	**7,431**	<140.2	<1,240	2,000	6,000

Notes: Results listed in mg/kg (parts per million)
Shaded/Bolded cell indicates value exceeds the applicable Default Attenuation Capacity
DRO = Diesel Range Organics
ORO = Oil Range Organics
GRO = Gasoline Range Organics
TPH = Total Petroleum Hydrocarbons
(1) Pursuant to 35 IAC 742.215(b)(1)(A) for soils within one meter of the surface
(2) Pursuant to 35 IAC 742.215(b)(1)(A) for soils below one meter of the surface

TABLE NO. 8 (9 of 10)
Soil Sample Analytical Results: TPH
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB118a (15-17.5)	SB118b (10-15)	SB118b (15-17.5)	SB118c (10-15)	SB118c (15-17.5)	SB118d (7.5-10)	SB118d (10-15)	SB118d (15-17.5)	SB118e (10-12.5)	SB118e (12.5-15)	SB118f (10-12.5)	SB118f (15-17.5)	SB118g (10-15)	SB118h (10-15)	SB119 (15-17.5)	SB119 (22.5-25)	B136 (5-7.5)	SB137 (5-7.5)	Default Soil Attenuation Capacity	
Collection Date	**2/11/25**	**2/11/25**	**2/11/25**	**2/12/25**	**2/12/25**	**2/12/25**	**2/12/25**	**2/12/25**	**2/25/25**	**2/25/25**	**2/25/25**	**2/25/25**	**3/21/25**	**3/21/25**	**12/13/24**	**12/13/24**	**2/13/25**	**2/13/25**	**Subsurface Soils[1]**	**Surface Soils[2]**
TPH - DRO	140	130	91	16,000	110	23,000	5,500	230	6,000	31	<15	<15	13	16	6,400	2,600	88	57	--	--
TPH - ORO	850	520	610	31,000	470	38,000	9,900	1,000	2,700	<49	<49	<49	<18	<22	7,500	1,700	270	180	--	--
TPH - GRO	<20	<20	<20	<200	<20	<200	33	<20	<40	<20	<20	<20	<1.3	<1.3	26	8.1	<20	<20	--	--
TPH - Total	<1,010	<670	<721	**<47,200**	<600	**61,200**	**15,433**	<1,250	**<8,740**	<51	<20	<20	<14.3	<17.3	**13,926**	**4,308**	<378	<257	2,000	6,000

TABLE NO. 8 (10 of 10)
Soil Sample Analytical Results: TPH
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB138 (5-7.5)	SB139 (5-7.5)	SB139 (7.5-10)	SB140 (5-7.5)	SB141 (5-7.5)	SB141 (7.5-10)	SB141a (7.5-10)	SB141a (10-12.5)	SB141b (5-7.5)	SB141b (12.5-15)	SB141c (5-7.5)	SB141c (7.5-10)	SB142 (5-7.5)	SB142 (7.5-10)	Default Soil Attenuation Capacity	
Collection Date	**2/14/25**	**2/14/25**	**2/14/25**	**2/14/25**	**2/14/25**	**2/14/25**	**3/20/25**	**3/20/25**	**3/20/25**	**3/20/25**	**3/20/25**	**3/20/25**	**2/14/25**	**2/14/25**	**Subsurface Soils[1]**	**Surface Soils[2]**
TPH - DRO	<15	34	25	290	2,100	160	1,900	36	110	17	14	160	290	<15	--	--
TPH - ORO	53	<49	<49	890	340	88	<380	<22	130	<19	<19	410	91	<49	--	--
TPH - GRO	<20	<20	<20	21	20	<20	54	3.2	190	<1.0	18	63	26	<20	--	--
TPH - Total	<73	<103	<94	1,201	**2,460**	<268	**<2,334**	<61.2	430	<37	<51	633	407	<84	2,000	6,000

Notes: Results listed in mg/kg (parts per million)
Shaded/Bolded cell indicates value exceeds the applicable Default Attenuation Capacity
DRO = Diesel Range Organics
ORO = Oil Range Organics
GRO = Gasoline Range Organics
TPH = Total Petroleum Hydrocarbons
(1) Pursuant to 35 IAC 742.215(b)(1)(A) for soils within one meter of the surface
(2) Pursuant to 35 IAC 742.215(b)(1)(A) for soils below one meter of the surface

TABLE NO. 9
Soil Sample Analytical Results: Total Sulfide
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB6 (3-5)	SB10 0-3)	SB21 (12.5-15)	SB30 (12.5-15)	SB37 (12.5-15)	SB38 (12.5-15)	SB45 (5-7.5)	SB49 (0-3)	SB51 (0-3)	SB61 (12.5-15)	SB61 (17.5-19)	SB64 (0-3)	Reactive Sulfide Limit for Hazardous Waste Classification
Collection Date	**8/29/24**	**8/29/24**	**8/30/24**	**9/3/24**	**9/4/24**	**9/4/24**	**9/5/24**	**9/5/24**	**9/4/24**	**9/6/24**	**9/6/24**	**9/6/24**	
Sulfide	**580***	**810***	240	**4,200***	39	320	**510***	**1,600***	300	440	**1,700***	200	500

Notes: Results listed in mg/kg (parts per million)
Shaded/Bolded cell indicates total sulfide concentration exceeds reactive sulfide limit for hazardous waste classification
* indicates reactive sulfide concentration demonstrates compliance with landfill limit (see Table No. 10)

TABLE NO. 9
Soil Sample Analytical Results: Total Sulfide
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB70 (0-3)	SB70 (12.5-15)	SB77 (5-7.5)	SB81 (0-3)	SB86 (7.5-10)	SB88 (7.5-10)	SB92 (0-3)	SB95 (5-7.5)	SB100 (0-3)	SB106 (0-3)	SB111 (0-3)	SB117 (5-7.5)	Reactive Sulfide Limit for Hazardous Waste Classification
Collection Date	**9/9/24**	**9/9/24**	**9/10/24**	**9/11/24**	**9/11/24**	**9/12/24**	**9/12/24**	**9/16/24**	**9/17/24**	**9/18/24**	**9/19/24**	**9/20/24**	
Sulfide	<31	86	<32	60	440	<31	360	460	110	200	<32	**600***	500

Notes: Results listed in mg/kg (parts per million)
Shaded/Bolded cell indicates total sulfide concentration exceeds landfill limits for reactive sulfide
< indicates not detected at stated detection limits
* indicates reactive sulfide concentration demonstrates compliance with landfill limit (see Table No. 10

TABLE NO. 10
Soil Sample Analytical Results: Reactive Sulfide
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID (Interval)	SB6 (3-5)	SB10* (0-3)	SB30 (12.5-15)	SB45 (5-7.5)	SB49 (0-3)	SB61* (17.5-20)	SB117 (5-7.5)	SB128 (0-3)	SB145 (0-3)	Reactive Sulfide Limit for Hazardous Waste Classification
Collection Date	**12/12/24**	**12/17/24**	**12/9/24**	**12/12/24**	**12/12/24**	**12/16/24**	**12/12/24**	**2/10/25**	**4/8/25**	
Sulfide	<49	<47	<47	<49	<49	<50	<49	<10	<44	500

Notes: Results listed in mg/kg (parts per million)
< indicates not detected at stated detection limits
* Sample SB10 (0-3) noted as SB10a (0-3) and sample SB61 (17.5-20) noted as SB61a (17.5-20) in respective laboratory reports

TABLE NO. 11 (1 of 5) Groundwater Sample Analytical Results: VOCs 8080 S. Lake Shore Dr. / Chicago, IL							Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-301**	**MW-302**	**MW-303**	**MW-304**	**MW-305**	**MW-306**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/21/24**	**10/22/24**	**10/22/24**	**10/22/24**	**10/23/24**	**10/23/24**			
1,1,1-Trichloroethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.2	1	1,300
1,1,2,2-Tetrachloroethane (1)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.00043	0.00043	--
1,1,2-Trichloroethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.005	0.05	4,400
1,1-Dichloroethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.7	3.5	580
1,1-Dichloroethene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.007	0.035	74
1,2-Dibromo-3-chloropropane	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0002	0.002	0.0027
1,2-Dibromoethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.00005	0.0005	0.014
1,2-Dichloroethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.005	0.025	0.22
1,2-Dichloropropane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.005	0.025	0.48
p-Dioxane (1) & (2)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.0077	0.0077	25
2-Butanone (MEK) (1) & (2)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	4.2	4.2	48,000
2-Hexanone (1)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.035	0.175	--
4-Methyl-2-pentanone (MIBK) (1)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	19,000	19,000	--
Acetone	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6.3	6.3	1,000,000
Benzene	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.005	0.025	0.41
Bromodichloromethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0002	0.0002	6,700
Bromoform	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	0.001	12
Bromomethane (Methyl Bromide)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0098	0.049	4.8
Carbon Disulfide	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.7	3.5	210
Carbon Tetrachloride	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.005	0.025	0.076
Chlorobenzene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.1	0.5	82
Chloroethane (1)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6,710	6,710	--
Chloroform	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0002	0.001	0.15
Chloromethane (1)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5,320	5,320	--
cis-1,2-Dichloroethene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.07	0.2	3,500
1,3-Dichloropropene (cis + trans)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	0.005	0.52
Dibromochloromethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.14	0.14	2,600
Dichlorodifluoromethane (1) & (2)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	1.4	7.0	9.2
Ethylbenzene	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.7	1	1.4
Isopropylbenzene (Cumene) (1) & (2)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.7	3.5	8.4
Methyl Tertiary-Butyl Ether	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.07	0.07	6,800
Methylene Chloride	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.005	0.05	8.2
Naphthalene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.14	0.22	0.32
n-Butanol	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	0.7	0.7	74,000
m&p-Xylene (3)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	--	--	120
o-Xylene	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	--	--	130
Styrene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.1	0.5	310
Tetrachloroethene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.005	0.025	0.34(4)
Toluene	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	1	2.5	530
Total Xylenes	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	10	10	93
trans-1,2-Dichloroethene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.1	0.5	51
Trichloroethene	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.005	0.025	1.3
Trichlorofluoromethane (1) & (2)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	2.1	10.5	82
Vinyl Acetate	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	7	7	550
Vinyl Chloride	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.002	0.01	0.21

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H, Diffusion & Advection)
(1) GROs for Non-TACO chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Current TACO chemical for the Indoor Inhalation exposure route; proposed TACO chemical for the Class I and Class II groundwater ingestion exposure routes
(3) Laboratory is currently unable to separate m- and p-xylenes, therefore the combined result is reported, and the more stringent GRO for m-xylene is provided for comparison.
(4) The indoor inhalation Tier 1 GROs provided in 35 IAC 742 were calculated using an outdated inhalation URF value. The GROs calculated using the current URF are 2.04 mg/L for residential and 7.6 mg/L for industrial/commercial.

TABLE NO. 11 (2 of 5) Groundwater Sample Analytical Results: VOCs 8080 S. Lake Shore Dr. / Chicago, IL							Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-307**	**MW-308**	**MW-309**	**MW-310**	**MW-311**	**MW-312**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/24/24**	**12/11/24**	**12/11/24**	**12/11/24**	**12/11/24**	**12/12/24**			
1,1,1-Trichloroethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.2	1	1,300
1,1,2,2-Tetrachloroethane (1)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.00043	0.00043	--
1,1,2-Trichloroethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.005	0.05	4,400
1,1-Dichloroethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.7	3.5	580
1,1-Dichloroethene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.007	0.035	74
1,2-Dibromo-3-chloropropane	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0002	0.002	0.0027
1,2-Dibromoethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.00005	0.0005	0.014
1,2-Dichloroethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.005	0.025	0.22
1,2-Dichloropropane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.005	0.025	0.48
p-Dioxane (1) & (2)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.0077	0.0077	25
2-Butanone (MEK) (1) & (2)	<0.0050	<0.0050	<0.0050	0.0064	<0.0050	<0.0050	4.2	4.2	48,000
2-Hexanone (1)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.035	0.175	--
4-Methyl-2-pentanone (MIBK) (1)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	19,000	19,000	--
Acetone	<0.010	<0.010	<0.010	0.075	<0.010	<0.010	6.3	6.3	1,000,000
Benzene	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.005	0.025	0.41
Bromodichloromethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0002	0.0002	6,700
Bromoform	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	0.001	12
Bromomethane (Methyl Bromide)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0098	0.049	4.8
Carbon Disulfide	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.7	3.5	210
Carbon Tetrachloride	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.005	0.025	0.076
Chlorobenzene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.1	0.5	82
Chloroethane (1)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6,710	6,710	--
Chloroform	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0002	0.001	0.15
Chloromethane (1)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5,320	5,320	--
cis-1,2-Dichloroethene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.07	0.2	3,500
1,3-Dichloropropene (cis + trans)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	0.005	0.52
Dibromochloromethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.14	0.14	2,600
Dichlorodifluoromethane (1) & (2)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	1.4	7.0	9.2
Ethylbenzene	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.7	1	1.4
Isopropylbenzene (Cumene) (1) & (2)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.7	3.5	8.4
Methyl Tertiary-Butyl Ether	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.07	0.07	6,800
Methylene Chloride	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.005	0.05	8.2
Naphthalene	0.035	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.14	0.22	0.32
n-Butanol	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	0.7	0.7	74,000
m&p-Xylene (3)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	--	--	120
o-Xylene	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	--	--	130
Styrene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.1	0.5	310
Tetrachloroethene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.005	0.025	0.34(4)
Toluene	0.00083	<0.00050	<0.00050	0.00068	<0.00050	<0.00050	1	2.5	530
Total Xylenes	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	10	10	93
trans-1,2-Dichloroethene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.1	0.5	51
Trichloroethene	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.005	0.025	1.3
Trichlorofluoromethane (1) & (2)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	2.1	10.5	82
Vinyl Acetate	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	7	7	550
Vinyl Chloride	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.002	0.01	0.21

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H, Diffusion & Advection)
(1) GROs for Non-TACO chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Current TACO chemical for the Indoor Inhalation exposure route; proposed TACO chemical for the Class I and Class II groundwater ingestion exposure routes
(3) Laboratory is currently unable to separate m- and p-xylenes, therefore the combined result is reported, and the more stringent GRO for m-xylene is provided for comparison.
(4) The indoor inhalation Tier 1 GROs provided in 35 IAC 742 were calculated using an outdated inhalation URF value. The GROs calculated using the current URF are 2.04 mg/L for residential and 7.6 mg/L for industrial/commercial.

TABLE NO. 11 (3 of 5) Groundwater Sample Analytical Results: VOCs 8080 S. Lake Shore Dr. / Chicago, IL						Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-314**	**MW-315**	**MW-316**	**MW-317**	**MW-318**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/17/25**	**2/17/25**	**2/13/25**	**2/13/25**	**2/13/25**			
1,1,1-Trichloroethane	<0.000159	<0.000159	<0.000159	<0.000159	<0.000159	0.2	1	1,300
1,1,2,2-Tetrachloroethane (1)	<0.000355	<0.000355	<0.000355	<0.000355	<0.000355	0.00043	0.00043	--
1,1,2-Trichloroethane	<0.000224	<0.000224	<0.000224	<0.000224	<0.000224	0.005	0.05	4,400
1,1-Dichloroethane	<0.000527	<0.000527	<0.000527	<0.000527	<0.000527	0.7	3.5	580
1,1-Dichloroethene	<0.000311	<0.000311	<0.000311	<0.000311	<0.000311	0.007	0.035	74
1,2-Dibromo-3-chloropropane	<0.000417	<0.000417	<0.000417	<0.000417	<0.000417	0.0002	0.002	0.0027
1,2-Dibromoethane	<0.000229	<0.000229	<0.000229	<0.000229	<0.000229	0.00005	0.0005	0.014
1,2-Dichloroethane	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.005	0.025	0.22
1,2-Dichloropropane	<0.000210	<0.000210	<0.000210	<0.000210	<0.000210	0.005	0.025	0.48
p-Dioxane (1) & (2)	<0.100	<0.100	<0.100	<0.100	<0.100	0.0077	0.0077	25
2-Butanone (MEK) (1) & (2)	<0.00361	<0.00361	<0.00361	<0.00361	<0.00361	4.2	4.2	48,000
2-Hexanone (1)	<0.00493	<0.00493	<0.00493	<0.00493	<0.00493	0.035	0.175	--
4-Methyl-2-pentanone (MIBK) (1)	<0.00213	<0.00213	<0.00213	<0.00213	<0.00213	19,000	19,000	--
Acetone	<0.00668	<0.00668	<0.00668	<0.00668	0.0107	6.3	6.3	1,000,000
Benzene	<0.0000850	<0.0000850	<0.0000850	<0.0000850	0.00349	0.005	0.025	0.41
Bromodichloromethane	<0.000320	<0.000320	<0.000320	<0.000320	<0.000320	0.0002	0.0002	6,700
Bromoform	<0.000746	<0.000746	<0.000746	<0.000746	<0.000746	0.001	0.001	12
Bromomethane (Methyl Bromide)	<0.000862	<0.000862	<0.000862	<0.000862	<0.000862	0.0098	0.049	4.8
Carbon Disulfide	<0.000674	<0.000674	<0.000674	<0.000674	<0.000674	0.7	3.5	210
Carbon Tetrachloride	<0.000393	<0.000393	<0.000393	<0.000393	<0.000393	0.005	0.025	0.076
Chlorobenzene	<0.000146	<0.000146	<0.000146	<0.000146	<0.000146	0.1	0.5	82
Chloroethane (1)	<0.000950	<0.000950	<0.000950	<0.000950	<0.000950	6,710	6,710	--
Chloroform	<0.000161	<0.000161	<0.000161	<0.000161	<0.000161	0.0002	0.001	0.15
Chloromethane (1)	<0.000428	<0.000428	<0.000428	<0.000428	<0.000428	5,320	5,320	--
cis-1,2-Dichloroethene	<0.000241	<0.000241	<0.000241	<0.000241	<0.000241	0.07	0.2	3,500
1,3-Dichloropropene (cis + trans)	<0.000343	<0.000343	<0.000343	<0.000343	<0.000343	0.001	0.005	0.52
Dibromochloromethane	<0.000237	<0.000237	<0.000237	<0.000237	<0.000237	0.14	0.14	2,600
Dichlorodifluoromethane (1) & (2)	<0.000495	<0.000495	<0.000495	<0.000495	<0.000495	1.4	7.0	9.2
Ethylbenzene	<0.000160	<0.000160	<0.000160	<0.000160	0.000915	0.7	1	1.4
Isopropylbenzene (Cumene) (1) & (2)	<0.000402	<0.000402	<0.000402	<0.000402	0.000422	0.7	3.5	8.4
Methyl Tertiary-Butyl Ether	<0.000434	<0.000434	<0.000434	<0.000434	<0.000434	0.07	0.07	6,800
Methylene Chloride	<0.000620	<0.000620	<0.000620	<0.000620	<0.000620	0.005	0.05	8.2
Naphthalene	<0.0000500	0.0132	0.000893	0.000133	0.123	0.14	0.22	0.32
n-Butanol	<0.100	<0.100	<0.100	<0.100	<0.100	0.7	0.7	74,000
m&p-Xylene (3)	<0.000513	<0.000513	<0.000227	<0.000227	0.00315	--	--	120
o-Xylene	<0.000227	<0.000227	<0.000310	<0.000310	0.00202	--	--	130
Styrene	<0.000310	<0.000310	<0.000849	<0.000849	<0.000849	0.1	0.5	310
Tetrachloroethene	<0.000849	<0.000849	<0.000220	<0.000220	0.00683	0.005	0.025	0.34(4)
Toluene	<0.000220	<0.000220	<0.000227	<0.000227	0.0118	1	2.5	530
Total Xylenes	<0.000227	<0.000227	<0.000183	<0.000183	<0.000183	10	10	93
trans-1,2-Dichloroethene	<0.000183	<0.000183	<0.000582	<0.000582	<0.000582	0.1	0.5	51
Trichloroethene	<0.000246	<0.000246	<0.000246	<0.000246	<0.000246	0.005	0.025	1.3
Trichlorofluoromethane (1) & (2)	<0.000280	<0.000280	<0.000280	<0.000280	<0.000280	2.1	10.5	82
Vinyl Acetate	<0.00293	<0.00293	<0.00293	<0.00293	<0.00293	7	7	550
Vinyl Chloride	<0.000346	<0.000346	<0.000346	<0.000346	<0.000346	0.002	0.01	0.21

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H, Diffusion & Advection)
(1) GROs for Non-TACO chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Current TACO chemical for the Indoor Inhalation exposure route; proposed TACO chemical for the Class I and Class II groundwater ingestion exposure routes
(3) Laboratory is currently unable to separate m- and p-xylenes, therefore the combined result is reported, and the more stringent GRO for m-xylene is provided for comparison.
(4) The indoor inhalation Tier 1 GROs provided in 35 IAC 742 were calculated using an outdated inhalation URF value. The GROs calculated using the current URF are 2.04 mg/L for residential and 7.6 mg/L for industrial/commercial.

TABLE NO. 11 (4 of 5) Groundwater Sample Analytical Results: VOCs 8080 S. Lake Shore Dr. / Chicago, IL						Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-101**	**MW-102**	**MW-102D**	**MW-104D**	**MW-106**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/17/25**	**10/23/24**	**10/23/24**	**2/17/25**	**2/18/25**			
1,1,1-Trichloroethane	<0.000159	<0.0010	<0.0010	<0.000159	<0.000159	0.2	1	1,300
1,1,2,2-Tetrachloroethane (1)	<0.000355	<0.0010	<0.0010	<0.000355	<0.000355	0.00043	0.00043	--
1,1,2-Trichloroethane	<0.000224	<0.0010	<0.0010	<0.000224	<0.000224	0.005	0.05	4,400
1,1-Dichloroethane	<0.000527	<0.0010	<0.0010	<0.000527	<0.000527	0.7	3.5	580
1,1-Dichloroethene	<0.000311	<0.0010	<0.0010	<0.000311	<0.000311	0.007	0.035	74
1,2-Dibromo-3-chloropropane	<0.000417	<0.0050	<0.0050	<0.000417	<0.000417	0.0002	0.002	0.0027
1,2-Dibromoethane	<0.000229	<0.0010	<0.0010	<0.000229	<0.000229	0.00005	0.0005	0.014
1,2-Dichloroethane	<0.000185	<0.0010	<0.0010	<0.000185	<0.000185	0.005	0.025	0.22
1,2-Dichloropropane	<0.000210	<0.0010	<0.0010	<0.000210	<0.000210	0.005	0.025	0.48
p-Dioxane (1) & (2)	<0.100	<0.10	<0.10	<0.100	<0.00113	0.0077	0.0077	25
2-Butanone (MEK) (1) & (2)	<0.00361	<0.0050	<0.0050	<0.00361	<0.100	4.2	4.2	48,000
2-Hexanone (1)	<0.00493	<0.0050	<0.0050	<0.00493	<0.00361	0.035	0.175	--
4-Methyl-2-pentanone (MIBK) (1)	<0.00213	<0.0050	<0.0050	<0.00213	<0.00493	19,000	19,000	--
Acetone	<0.00668	<0.010	<0.010	<0.00668	<0.00213	6.3	6.3	1,000,000
Benzene	<0.0000850	<0.00050	<0.00050	<0.0000850	<0.00668	0.005	0.025	0.41
Bromodichloromethane	<0.000320	<0.0010	<0.0010	<0.000320	<0.0000850	0.0002	0.0002	6,700
Bromoform	<0.000746	<0.0010	<0.0010	<0.000746	<0.000320	0.001	0.001	12
Bromomethane (Methyl Bromide)	<0.000862	<0.0030	<0.0030	<0.000862	<0.000746	0.0098	0.049	4.8
Carbon Disulfide	<0.000674	<0.0020	<0.0020	<0.000674	<0.000862	0.7	3.5	210
Carbon Tetrachloride	<0.000393	<0.0010	<0.0010	<0.000393	<0.000674	0.005	0.025	0.076
Chlorobenzene	<0.000146	<0.0010	<0.0010	<0.000146	<0.000393	0.1	0.5	82
Chloroethane (1)	<0.000950	<0.0050	<0.0050	<0.000950	<0.000146	6,710	6,710	--
Chloroform	<0.000161	<0.0020	<0.0020	<0.000161	<0.000950	0.0002	0.001	0.15
Chloromethane (1)	<0.000428	<0.0050	<0.0050	<0.000428	<0.000161	5,320	5,320	--
cis-1,2-Dichloroethene	<0.000241	<0.0010	<0.0010	<0.000241	<0.000428	0.07	0.2	3,500
1,3-Dichloropropene (cis + trans)	<0.000343	<0.0010	<0.0010	<0.000343	<0.000241	0.001	0.005	0.52
Dibromochloromethane	<0.000237	<0.0010	<0.0010	<0.000237	<0.000343	0.14	0.14	2,600
Dichlorodifluoromethane (1) & (2)	<0.000495	<0.0030	<0.0030	<0.000495	<0.000237	1.4	7.0	9.2
Ethylbenzene	<0.000160	<0.00050	<0.00050	<0.000160	<0.000495	0.7	1	1.4
Isopropylbenzene (Cumene) (1) & (2)	<0.000402	<0.0010	<0.0010	<0.000402	<0.000160	0.7	3.5	8.4
Methyl Tertiary-Butyl Ether	<0.000434	<0.0010	<0.0010	<0.000434	<0.000402	0.07	0.07	6,800
Methylene Chloride	<0.000620	<0.0050	<0.0050	<0.000620	<0.000434	0.005	0.05	8.2
Naphthalene	<0.0000500	<0.0010	<0.0010	0.0000537	<0.000620	0.14	0.22	0.32
n-Butanol	<0.100	<0.13	<0.13	<0.100	<0.100	0.7	0.7	74,000
m&p-Xylene (3)	<0.000513	<0.0010	<0.0010	<0.000513	<0.000227	--	--	120
o-Xylene	<0.000227	<0.00050	<0.00050	<0.000227	<0.000310	--	--	130
Styrene	<0.000310	<0.0010	<0.0010	<0.000310	<0.000849	0.1	0.5	310
Tetrachloroethene	<0.000849	<0.0010	<0.0010	<0.000849	<0.000220	0.005	0.025	0.34(4)
Toluene	<0.000220	<0.00050	<0.00050	<0.000220	<0.000227	1	2.5	530
Total Xylenes	<0.000227	<0.0010	<0.0010	<0.000227	<0.000183	10	10	93
trans-1,2-Dichloroethene	<0.000183	<0.0010	<0.0010	<0.000183	<0.000582	0.1	0.5	51
Trichloroethene	<0.000246	<0.00050	<0.00050	<0.000246	<0.000246	0.005	0.025	1.3
Trichlorofluoromethane (1) & (2)	<0.000280	<0.0010	<0.0010	<0.000280	<0.000280	2.1	10.5	82
Vinyl Acetate	<0.00293	<0.0020	<0.0020	<0.00293	<0.00293	7	7	550
Vinyl Chloride	<0.000346	0.0020	**0.21**	<0.000346	<0.000346	0.002	0.01	0.21

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H, Diffusion & Advection)
(1) GROs for Non-TACO chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Current TACO chemical for the Indoor Inhalation exposure route; proposed TACO chemical for the Class I and Class II groundwater ingestion exposure routes
(3) Laboratory is currently unable to separate m- and p-xylenes, therefore the combined result is reported, and the more stringent GRO for m-xylene is provided for comparison.
(4) The indoor inhalation Tier 1 GROs provided in 35 IAC 742 were calculated using an outdated inhalation URF value. The GROs calculated using the current URF are 2.04 mg/L for residential and 7.6 mg/L for industrial/commercial.

TABLE NO. 11 (5 of 5) Groundwater Sample Analytical Results: VOCs 8080 S. Lake Shore Dr. / Chicago, IL						Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-202**		**MW-204**	**EW-3°°**	**NMW-4**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/13/25**	**6/26/25 +**	**10/23/24**	**10/21/24**	**10/21/24**			
1,1,1-Trichloroethane	<0.000159	--	<0.0010	<0.0010	<0.0010	0.2	1	1,300
1,1,2,2-Tetrachloroethane (1)	<0.000355	--	<0.0010	<0.0010	<0.0010	0.00043	0.00043	--
1,1,2-Trichloroethane	<0.000224	--	<0.0010	<0.0010	<0.0010	0.005	0.05	4,400
1,1-Dichloroethane	<0.000527	--	<0.0010	<0.0010	<0.0010	0.7	3.5	580
1,1-Dichloroethene	<0.000311	--	<0.0010	<0.0010	<0.0010	0.007	0.035	74
1,2-Dibromo-3-chloropropane	<0.000417	--	<0.0050	<0.0050	<0.0050	0.0002	0.002	0.0027
1,2-Dibromoethane	<0.000229	--	<0.0010	<0.0010	<0.0010	0.00005	0.0005	0.014
1,2-Dichloroethane	<0.000185	--	<0.0010	<0.0010	<0.0010	0.005	0.025	0.22
1,2-Dichloropropane	<0.000210	--	<0.0010	<0.0010	<0.0010	0.005	0.025	0.48
p-Dioxane (1) & (2)	<0.100	--	<0.10	<0.10	<0.10	0.0077	0.0077	25
2-Butanone (MEK) (1) & (2)	<0.00361	--	<0.0050	<0.0050	<0.0050	4.2	4.2	48,000
2-Hexanone (1)	<0.00493	--	<0.0050	<0.0050	<0.0050	0.035	0.175	--
4-Methyl-2-pentanone (MIBK) (1)	<0.00213	--	<0.0050	<0.0050	<0.0050	19,000	19,000	--
Acetone	<0.00668	--	<0.010	<0.010	<0.010	6.3	6.3	1,000,000
Benzene	**0.0555**	**0.053**	<0.00050	<0.00050	<0.00050	0.005	0.025	0.41
Bromodichloromethane	<0.000320	--	<0.0010	<0.0010	<0.0010	0.0002	0.0002	6,700
Bromoform	<0.000746	--	<0.0010	<0.0010	<0.0010	0.001	0.001	12
Bromomethane (Methyl Bromide)	<0.000862	--	<0.0030	<0.0030	<0.0030	0.0098	0.049	4.8
Carbon Disulfide	<0.000674	--	<0.0020	<0.0020	<0.0020	0.7	3.5	210
Carbon Tetrachloride	<0.000393	--	<0.0010	<0.0010	<0.0010	0.005	0.025	0.076
Chlorobenzene	<0.000146	--	<0.0010	<0.0010	<0.0010	0.1	0.5	82
Chloroethane (1)	<0.000950	--	<0.0050	<0.0050	<0.0050	6,710	6,710	--
Chloroform	<0.000161	--	<0.0020	<0.0020	<0.0020	0.0002	0.001	0.15
Chloromethane (1)	<0.000428	--	<0.0050	<0.0050	<0.0050	5,320	5,320	--
cis-1,2-Dichloroethene	<0.000241	--	<0.0010	<0.0010	<0.0010	0.07	0.2	3,500
1,3-Dichloropropene (cis + trans)	<0.000343	--	<0.0010	<0.0010	<0.0010	0.001	0.005	0.52
Dibromochloromethane	<0.000237	--	<0.0010	<0.0010	<0.0010	0.14	0.14	2,600
Dichlorodifluoromethane (1) & (2)	<0.000495	--	<0.0030	<0.0030	<0.0030	1.4	7.0	9.2
Ethylbenzene	0.00658	--	<0.00050	<0.00050	<0.00050	0.7	1	1.4
Isopropylbenzene (Cumene) (1) & (2)	0.00174	--	<0.0010	0.0010	<0.0010	0.7	3.5	8.4
Methyl Tertiary-Butyl Ether	<0.000434	--	<0.0010	<0.0010	<0.0010	0.07	0.07	6,800
Methylene Chloride	<0.000620	--	<0.0050	<0.0050	<0.0050	0.005	0.05	8.2
Naphthalene	**0.861 ***	--	<0.0010	<0.0010	<0.0010	0.14	0.22	0.32
n-Butanol	<0.100	--	<0.13	<0.13	<0.13	0.7	0.7	74,000
m&p-Xylene (3)	0.0171	--	<0.0010	<0.0010	<0.0010	--	--	120
o-Xylene	<0.000310	--	<0.00050	<0.00050	<0.00050	--	--	130
Styrene	<0.000849	--	<0.0010	<0.0010	<0.0010	0.1	0.5	310
Tetrachloroethene	0.00194	--	<0.0010	<0.0010	<0.0010	0.005	0.025	0.34(4)
Toluene	0.028	--	<0.00050	<0.00050	<0.00050	1	2.5	530
Total Xylenes	<0.000183	--	<0.0010	0.0011	<0.0010	10	10	93
trans-1,2-Dichloroethene	<0.000582	--	<0.0010	<0.0010	<0.0010	0.1	0.5	51
Trichloroethene	<0.000246	--	<0.00050	<0.00050	<0.00050	0.005	0.025	1.3
Trichlorofluoromethane (1) & (2)	<0.000280	--	<0.0010	<0.0010	<0.0010	2.1	10.5	82
Vinyl Acetate	<0.00293	--	<0.0020	<0.0020	<0.0020	7	7	550
Vinyl Chloride	<0.000346	--	<0.0010	<0.0010	<0.0010	0.002	0.01	0.21

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 GRO
+ monitoring well resampled using low-flow method
°° former extraction well erroneously identified as NW-2 in lab report
* soil gas sample (SG-2) result from this location demonstrates compliance with the indoor inhalation exposure route (see Table No. 17)
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H, Diffusion & Advection)
(1) GROs for Non-TACO chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Current TACO chemical for the Indoor Inhalation exposure route; proposed TACO chemical for the Class I and Class II groundwater ingestion exposure routes
(3) Laboratory is currently unable to separate m- and p-xylenes, therefore the combined result is reported, and the more stringent GRO for m-xylene is provided for comparison.
(4) The indoor inhalation Tier 1 GROs provided in 35 IAC 742 were calculated using an outdated inhalation URF value. The GROs calculated using the current URF are 2.04 mg/L for residential and 7.6 mg/L for industrial/commercial.

TABLE NO. 12 (1 of 5) Groundwater Sample Analytical Results: SVOCs 8080 S. Lake Shore Dr. / Chicago, IL							Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-301**	**MW-302**	**MW-303**	**MW-304**	**MW-305**	**MW-306**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/21/24**	**10/22/24**	**10/22/24**	**10/22/24**	**10/23/24**	**10/23/24**			
1,2,4-Trichlorobenzene	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	0.07	0.7	5.9
1,2-Dichlorobenzene	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	0.6	1.5	160
1,3-Dichlorobenzene	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	--	--	--
1,4-Dichlorobenzene	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	0.075	0.375	79
2,4,5-Trichlorophenol	<0.0098	<0.0078	<0.0089	<0.0078	<0.0076	<0.011	0.7(3)	3.5(3)	--
2,4,6-Trichlorophenol	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	0.01(3)	0.01(3)	--
2,4-Dichlorophenol	<0.0098	<0.0078	<0.0089	<0.0078	<0.0076	<0.011	0.021	0.021	--
2,4-Dimethylphenol	<0.0098	<0.0078	<0.0089	<0.0078	<0.0076	<0.011	0.14	0.14	--
2,4-Dinitrophenol	<0.020	<0.016	<0.018	<0.016	<0.015	<0.022	0.014	0.014	--
2,4-Dinitrotoluene	<0.00098	<0.00078	<0.00089	<0.00078	<0.00076	<0.0011	0.00002	0.00002	--
2,6-Dinitrotoluene	<0.00098	<0.00078	<0.00089	<0.00078	<0.00076	<0.0011	0.00031	0.00031	--
2-Chloronaphthalene (1)	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	0.56	2.8	--
2-Chlorophenol	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	0.035(3)	0.035(3)	22,000
2-Methylnaphthalene (1) & (2)	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	0.028	0.14	25
2-Methylphenol (o-Cresol)	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	0.35	0.35	26,000
2-Nitroaniline (1)	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	0.07	0.07	--
2-Nitrophenol	<0.0098	<0.0078	<0.0089	<0.0078	<0.0076	<0.011	--	--	--
3,3´-Dichlorobenzidine	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	0.02	0.1	--
3,4-Methylphenol (m,p-Cresol) (1)	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	0.14(4)	0.14(4)	--
3-Nitroaniline	<0.0098	<0.0078	<0.0089	<0.0078	<0.0076	<0.011	--	--	--
4,6-Dinitro-2-methylphenol (1)	<0.020	<0.016	<0.018	<0.016	<0.015	<0.022	0.00056	0.0028	--
4-Bromophenyl-phenyl ether	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	--	--	--
4-Chloro-3-methylphenol (1)	<0.0098	<0.0078	<0.0089	<0.0078	<0.0076	<0.011	0.7	3.5	--
4-Chloroaniline	<0.0098	<0.0078	<0.0089	<0.0078	<0.0076	<0.011	0.028	0.028	--
4-Chlorophenyl-phenyl ether	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	--	--	--
4-Nitroaniline (1)	<0.0098	<0.0078	<0.0089	<0.0078	<0.0076	<0.011	0.028	0.028	--
4-Nitrophenol	<0.020	<0.016	<0.018	<0.016	<0.015	<0.022	--	--	--
Bis(2-chloroethoxy)methane (1)	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	0.021	0.021	--
Bis(2-chloroethyl)ether	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	0.01	0.01	0.43
Bis(chloroisopropyl)ether (5)	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	0.28	0.28	--
Bis(2-ethylhexyl)phthalate	<0.0098	<0.0078	<0.0089	<0.0078	<0.0076	<0.011	0.006	0.06	--
Butylbenzylphthalate	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	1.4	7	--
Carbazole	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	--	--	--
Dibenzofuran (1)	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	0.007	0.035	--
Diethylphthalate	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	5.6	5.6	--
Dimethylphthalate	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	--	--	--
Di-n-butylphthalate	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	0.7	3.5	--
Di-n-octylphthalate	<0.0098	<0.0078	<0.0089	<0.0078	<0.0076	<0.011	0.14	0.7	--
Hexachlorobenzene	<0.00049	<0.00039	<0.00044	<0.00039	<0.00038	<0.00056	0.00006	0.0003	0.0062
Hexachlorobutadiene (1)	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	0.007	0.035	--
Hexachlorocyclopentadiene	<0.020	<0.016	<0.018	<0.016	<0.015	<0.022	0.05	0.5	0.26
Hexachloroethane	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	0.007	0.035	50
Isophorone	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	1.4	1.4	12,000
Nitrobenzene	<0.00098	<0.00078	<0.00089	<0.00078	<0.00076	<0.0011	0.0035	0.0035	2
N-Nitrosodi-n-propylamine	<0.00049	<0.00039	<0.00044	<0.00039	<0.00038	<0.00056	0.0018	0.0018	0.27
N-Nitrosodiphenylamine	<0.0020	<0.0016	<0.0018	<0.0016	<0.0015	<0.0022	0.0032	0.016	--
Pentachlorophenol	<0.020	<0.016	<0.018	<0.016	<0.015	<0.022	0.001	0.005	--
Phenol	<0.0049	<0.0039	<0.0044	<0.0039	<0.0038	<0.0056	0.1	0.1	83,000

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Current TACO chemical for the Indoor Inhalation exposure route; proposed TACO chemical for the Class I and Class II groundwater ingestion exposure routes
(3) Most stringent pH-Specific value
(4) The laboratory is currently unable to separate the 3- and 4- Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported, and the more stringent Non-TACO objectives for 3,-Methylphenol are provided for comparison.
(5) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether

TABLE NO. 12 (2 of 5) Groundwater Sample Analytical Results: SVOCs 8080 S. Lake Shore Dr. / Chicago, IL							Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-307**	**MW-308**	**MW-309**	**MW-310**	**MW-311**	**MW-312**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/24/24**	**12/11/24**	**12/11/24**	**12/11/24**	**12/11/24**	**12/12/24**			
1,2,4-Trichlorobenzene	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	0.07	0.7	5.9
1,2-Dichlorobenzene	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	0.6	1.5	160
1,3-Dichlorobenzene	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	--	--	--
1,4-Dichlorobenzene	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	0.075	0.375	79
2,4,5-Trichlorophenol	<0.0085	<0.0089	<0.0077	<0.0077	<0.0079	<0.0082	0.7(3)	3.5(3)	--
2,4,6-Trichlorophenol	<0.0042	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	0.01(3)	0.01(3)	--
2,4-Dichlorophenol	<0.0085	<0.0089	<0.0077	<0.0077	<0.0079	<0.0082	0.021	0.021	--
2,4-Dimethylphenol	<0.0085	<0.0089	<0.0077	<0.0077	<0.0079	<0.0082	0.14	0.14	--
2,4-Dinitrophenol	<0.017	<0.018	<0.015	<0.015	<0.016	<0.016	0.014	0.014	--
2,4-Dinitrotoluene	<0.00085	<0.00089	<0.00077	<0.00077	<0.00079	<0.00082	0.00002	0.00002	--
2,6-Dinitrotoluene	<0.00085	<0.00089	<0.00077	<0.00077	<0.00079	<0.00082	0.00031	0.00031	--
2-Chloronaphthalene (1)	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	0.56	2.8	--
2-Chlorophenol	<0.0042	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	0.035(3)	0.035(3)	22,000
2-Methylnaphthalene (1) & (2)	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	0.028	0.14	25
2-Methylphenol (o-Cresol)	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	0.35	0.35	26,000
2-Nitroaniline (1)	<0.0042	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	0.07	0.07	--
2-Nitrophenol	<0.0085	<0.0089	<0.0077	<0.0077	<0.0079	<0.0082	--	--	--
3,3´-Dichlorobenzidine	<0.0042	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	0.02	0.1	--
3,4-Methylphenol (m,p-Cresol) (1)	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	0.14(4)	0.14(4)	--
3-Nitroaniline	<0.0085	<0.0089	<0.0077	<0.0077	<0.0079	<0.0082	--	--	--
4,6-Dinitro-2-methylphenol (1)	<0.017	<0.018	<0.015	<0.015	<0.016	<0.016	0.00056	0.0028	--
4-Bromophenyl-phenyl ether	<0.0042	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	--	--	--
4-Chloro-3-methylphenol (1)	<0.0085	<0.0089	<0.0077	<0.0077	<0.0079	<0.0082	0.7	3.5	--
4-Chloroaniline	<0.0085	<0.0089	<0.0077	<0.0077	<0.0079	<0.0082	0.028	0.028	--
4-Chlorophenyl-phenyl ether	<0.0042	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	--	--	--
4-Nitroaniline (1)	<0.0085	<0.0089	<0.0077	<0.0077	<0.0079	<0.0082	0.028	0.028	--
4-Nitrophenol	<0.017	<0.018	<0.015	<0.015	<0.016	<0.016	--	--	--
Bis(2-chloroethoxy)methane (1)	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	0.021	0.021	--
Bis(2-chloroethyl)ether	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	0.01	0.01	0.43
Bis(chloroisopropyl)ether (5)	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	0.28	0.28	--
Bis(2-ethylhexyl)phthalate	<0.0085	<0.0089	<0.0077	<0.0077	<0.0079	<0.0082	0.006	0.06	--
Butylbenzylphthalate	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	1.4	7	--
Carbazole	<0.0042	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	--	--	--
Dibenzofuran (1)	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	0.007	0.035	--
Diethylphthalate	<0.0042	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	5.6	5.6	--
Dimethylphthalate	<0.0042	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	--	--	--
Di-n-butylphthalate	<0.0042	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	0.7	3.5	--
Di-n-octylphthalate	<0.0085	<0.0089	<0.0077	<0.0077	<0.0079	<0.0082	0.14	0.7	--
Hexachlorobenzene	<0.00042	<0.00045	<0.00038	<0.00039	<0.00040	<0.00041	0.00006	0.0003	0.0062
Hexachlorobutadiene (1)	<0.0042	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	0.007	0.035	--
Hexachlorocyclopentadiene	<0.017	<0.018	<0.015	<0.015	<0.016	<0.016	0.05	0.5	0.26
Hexachloroethane	<0.0042	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	0.007	0.035	50
Isophorone	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	1.4	1.4	12,000
Nitrobenzene	<0.00085	<0.00089	<0.00077	<0.00077	<0.00079	<0.00082	0.0035	0.0035	2
N-Nitrosodi-n-propylamine	<0.00042	<0.00045	<0.00038	<0.00039	<0.00040	<0.00041	0.0018	0.0018	0.27
N-Nitrosodiphenylamine	<0.0017	<0.0018	<0.0015	<0.0015	<0.0016	<0.0016	0.0032	0.016	--
Pentachlorophenol	<0.017	<0.018	<0.015	<0.015	<0.016	<0.016	0.001	0.005	--
Phenol	0.0075	<0.0045	<0.0038	<0.0039	<0.0040	<0.0041	0.1	0.1	83,000

Notes: Results in mg/L (parts per million)

Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO

< indicates not detected at stated detection limits

-- indicates value not available

Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)

Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)

(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

(2) Current TACO chemical for the Indoor Inhalation exposure route; proposed TACO chemical for the Class I and Class II groundwater ingestion exposure routes

(3) Most stringent pH-Specific value

(4) The laboratory is currently unable to separate the 3- and 4- Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported, and the more stringent Non-TACO objectives for 3,-Methylphenol are provided for comparison.

(5) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether

TABLE NO. 12 (3 of 5) Groundwater Sample Analytical Results: SVOCs 8080 S. Lake Shore Dr. / Chicago, IL								Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-314**	**MW-315**			**MW-316**			**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/17/25**	**2/17/25**	**3/17/2025 +** TOTAL	**3/17/2025 +** DISSOLVED	**2/13/25**	**3/17/2025 +** TOTAL	**3/17/2025 +** DISSOLVED			
1,2,4-Trichlorobenzene	<0.00161	<0.00754	--	--	<0.00147	<0.0015	<0.0016	0.07	0.7	5.9
1,2-Dichlorobenzene	<0.00230	<0.0108	--	--	<0.00210	<0.0015	<0.0016	0.6	1.5	160
1,3-Dichlorobenzene	<0.000210	<0.000210	--	--	<0.00110	<0.0015	<0.0016	--	--	--
1,4-Dichlorobenzene	<0.00133	<0.00626	--	--	<0.00122	<0.0015	<0.0016	0.075	0.375	79
2,4,5-Trichlorophenol	<0.00306	<0.0144	--	--	<0.00280	<0.0075	<0.0079	0.7(3)	3.5(3)	--
2,4,6-Trichlorophenol	<0.00284	<0.0133	--	--	<0.00260	<0.0038	<0.0040	0.01(3)	0.01(3)	--
2,4-Dichlorophenol	<0.00295	<0.0138	--	--	<0.00270	<0.0075	<0.0079	0.021	0.021	--
2,4-Dimethylphenol	<0.00251	<0.0118	--	--	<0.00230	<0.0075	<0.0079	0.14	0.14	--
2,4-Dinitrophenol	<0.00568	<0.0267	--	--	<0.00520	<0.015	<0.016	0.014	0.014	--
2,4-Dinitrotoluene	<0.000721	<0.00338	--	--	**0.00106**	<0.00075	<0.00079	0.00002	0.00002	--
2,6-Dinitrotoluene	<0.000612	<0.00287	--	--	<0.000560	<0.00075	<0.00079	0.00031	0.00031	--
2-Chloronaphthalene (1)	<0.000546	<0.00256	--	--	<0.000500	<0.0015	<0.0016	0.56	2.8	--
2-Chlorophenol	<0.00317	<0.0149	--	--	<0.00290	<0.0038	<0.0040	0.035(3)	0.035(3)	22,000
2-Methylnaphthalene (1) & (2)	<0.000699	0.00738	--	--	0.00202	<0.0015	<0.0016	0.028	0.14	25
2-Methylphenol (o-Cresol)	<0.000667	<0.00313	--	--	<0.000610	<0.0015	<0.0016	0.35	0.35	26,000
2-Nitroaniline (1)	<0.00144	<0.00677	--	--	<0.00132	<0.0038	<0.0040	0.07	0.07	--
2-Nitrophenol	<0.00317	<0.0149	--	--	<0.00290	<0.0075	<0.0079	--	--	--
3,3´-Dichlorobenzidine	<0.00208	<0.00974	--	--	<0.00190	<0.0038	<0.0040	0.02	0.1	--
3,4-Methylphenol (m,p-Cresol) (1)	<0.000546	<0.00256	--	--	<0.000500	<0.0015	<0.0016	0.14(4)	0.14(4)	--
3-Nitroaniline	<0.00137	<0.00641	--	--	<0.00125	<0.0075	<0.0079	--	--	--
4,6-Dinitro-2-methylphenol (1)	<0.00317	<0.0149	--	--	<0.00290	<0.015	<0.016	0.00056	0.0028	--
4-Bromophenyl-phenyl ether	<0.000579	<0.00272	--	--	<0.000530	<0.0038	<0.0040	--	--	--
4-Chloro-3-methylphenol (1)	<0.00295	<0.0138	--	--	<0.00270	<0.0075	<0.0079	0.7	3.5	--
4-Chloroaniline	<0.00339	<0.0159	--	--	<0.00310	<0.0075	<0.0079	0.028	0.028	--
4-Chlorophenyl-phenyl ether	<0.000645	<0.00303	--	--	<0.000590	<0.0038	<0.0040	--	--	--
4-Nitroaniline (1)	<0.00212	<0.00995	--	--	<0.00194	<0.0075	<0.0079	0.028	0.028	--
4-Nitrophenol	<0.00251	<0.0118	--	--	<0.00230	<0.015	<0.016	--	--	--
Bis(2-chloroethoxy)methane (1)	<0.00219	<0.0103	--	--	<0.00200	<0.0015	<0.0016	0.021	0.021	--
Bis(2-chloroethyl)ether	<0.00197	<0.00923	--	--	<0.00180	<0.0015	<0.0016	0.01	0.01	0.43
Bis(chloroisopropyl)ether (5)	<0.00197	<0.00923	--	--	<0.00180	<0.0015	<0.0016	0.28	0.28	--
Bis(2-ethylhexyl)phthalate	<0.00271	<0.0127	--	--	<0.00248	<0.0075	<0.0079	0.006	0.06	--
Butylbenzylphthalate	<0.00328	<0.0154	--	--	<0.00300	<0.0015	<0.0016	1.4	7	--
Carbazole	<0.000896	0.0159	<0.0039	<0.0039	0.00403	<0.0038	<0.0040	--	--	--
Dibenzofuran (1)	<0.000470	0.0158	--	--	0.00867	<0.0015	<0.0016	0.007	0.035	--
Diethylphthalate	<0.00239	<0.0112	--	--	<0.00219	<0.0038	<0.0040	5.6	5.6	--
Dimethylphthalate	<0.00291	<0.0136	--	--	<0.00266	<0.0038	<0.0040	--	--	--
Di-n-butylphthalate	<0.00186	<0.00872	--	--	<0.00170	<0.0038	<0.0040	0.7	3.5	--
Di-n-octylphthalate	<0.00219	<0.0103	--	--	<0.00200	<0.0075	<0.0079	0.14	0.7	--
Hexachlorobenzene	<0.00137	<0.00641	--	--	<0.00125	<0.00038	<0.00040	0.00006	0.0003	0.0062
Hexachlorobutadiene (1)	<0.00148	<0.00692	--	--	<0.00135	<0.0038	<0.0040	0.007	0.035	--
Hexachlorocyclopentadiene	<0.00230	<0.0108	--	--	<0.00210	<0.015	<0.016	0.05	0.5	0.26
Hexachloroethane	<0.00133	<0.00626	--	--	<0.00122	<0.0038	<0.0040	0.007	0.035	50
Isophorone	<0.000612	<0.00287	--	--	<0.000560	<0.0015	<0.0016	1.4	1.4	12,000
Nitrobenzene	<0.00145	<0.00682	--	--	<0.00133	<0.00075	<0.00079	0.0035	0.0035	2
N-Nitrosodi-n-propylamine	<0.00132	<0.00621	--	--	<0.00121	<0.00038	<0.00040	0.0018	0.0018	0.27
N-Nitrosodiphenylamine	<0.00105	<0.00492	--	--	<0.000960	<0.0015	<0.0016	0.0032	0.016	--
Pentachlorophenol	<0.00525	<0.0246	--	--	<0.00480	<0.015	<0.016	0.001	0.005	--
Phenol	<0.00164	<0.00769	--	--	<0.00150	<0.0038	<0.0040	0.1	0.1	83,000

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
+ monitoring well resampled using low-flow method
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Current TACO chemical for the Indoor Inhalation exposure route; proposed TACO chemical for the Class I and Class II groundwater ingestion exposure routes
(3) Most stringent pH-Specific value
(4) The laboratory is currently unable to separate the 3- and 4- Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported, and the more stringent Non-TACO objectives for 3,-Methylphenol are provided for comparison.
(5) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether

TABLE NO. 12 (4 of 5) Groundwater Sample Analytical Results: SVOCs 8080 S. Lake Shore Dr. / Chicago, IL							Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-317**	**MW-318**	**MW-101**	**MW-102**	**MW-102D**	**MW-104D**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/13/25**	**2/13/25**	**2/18/25**	**10/23/24**	**10/23/24**	**2/18/25**			
1,2,4-Trichlorobenzene	<0.00147	<0.0147	<0.00161	<0.0015	<0.0016	<0.00161	0.07	0.7	5.9
1,2-Dichlorobenzene	<0.00210	<0.0210	<0.00230	<0.0015	<0.0016	<0.00230	0.6	1.5	160
1,3-Dichlorobenzene	<0.00110	<0.0110	<0.000210	<0.0015	<0.0016	<0.000210	--	--	--
1,4-Dichlorobenzene	<0.00122	<0.0122	<0.00133	<0.0015	<0.0016	<0.00133	0.075	0.375	79
2,4,5-Trichlorophenol	<0.00280	<0.0280	<0.00306	<0.0076	<0.0078	<0.00306	0.7(3)	3.5(3)	--
2,4,6-Trichlorophenol	<0.00260	<0.0260	<0.00284	<0.0038	<0.0039	<0.00284	0.01(3)	0.01(3)	--
2,4-Dichlorophenol	<0.00270	<0.0270	<0.00295	<0.0076	<0.0078	<0.00295	0.021	0.021	--
2,4-Dimethylphenol	<0.00230	<0.0230	<0.00251	<0.0076	<0.0078	<0.00251	0.14	0.14	--
2,4-Dinitrophenol	<0.00520	<0.0520	<0.00568	<0.015	<0.016	<0.00568	0.014	0.014	--
2,4-Dinitrotoluene	<0.000660	<0.00660	<0.000721	<0.00076	<0.00078	<0.000721	0.00002	0.00002	--
2,6-Dinitrotoluene	<0.000560	<0.00560	<0.000612	<0.00076	<0.00078	<0.000612	0.00031	0.00031	--
2-Chloronaphthalene (1)	<0.000500	<0.00500	<0.000546	<0.0015	<0.0016	<0.000546	0.56	2.8	--
2-Chlorophenol	<0.00290	<0.0290	<0.00317	<0.0038	<0.0039	<0.00317	0.035(3)	0.035(3)	22,000
2-Methylnaphthalene (1) & (2)	0.000840	<0.00640	<0.000699	<0.0015	<0.0016	<0.000699	0.028	0.14	25
2-Methylphenol (o-Cresol)	<0.000610	<0.00610	<0.000667	<0.0015	<0.0016	<0.000667	0.35	0.35	26,000
2-Nitroaniline (1)	<0.00132	<0.0132	<0.00144	<0.0038	<0.0039	<0.00144	0.07	0.07	--
2-Nitrophenol	<0.00290	<0.0290	<0.00317	<0.0076	<0.0078	<0.00317	--	--	--
3,3´-Dichlorobenzidine	<0.00190	<0.0190	<0.00208	<0.0038	<0.0039	<0.00208	0.02	0.1	--
3,4-Methylphenol (m,p-Cresol) (1)	<0.000500	0.00730	<0.000546	<0.0015	<0.0016	0.000721	0.14(4)	0.14(4)	--
3-Nitroaniline	<0.00125	<0.0125	<0.00137	<0.0076	<0.0078	<0.00137	--	--	--
4,6-Dinitro-2-methylphenol (1)	<0.00290	<0.0290	<0.00317	<0.015	<0.016	<0.00317	0.00056	0.0028	--
4-Bromophenyl-phenyl ether	<0.000530	<0.00530	<0.000579	<0.0038	<0.0039	<0.000579	--	--	--
4-Chloro-3-methylphenol (1)	<0.00270	<0.0270	<0.00295	<0.0076	<0.0078	<0.00295	0.7	3.5	--
4-Chloroaniline	<0.00310	<0.0310	<0.00339	<0.0076	<0.0078	<0.00339	0.028	0.028	--
4-Chlorophenyl-phenyl ether	<0.000590	<0.00590	<0.000645	<0.0038	<0.0039	<0.000645	--	--	--
4-Nitroaniline (1)	<0.00194	<0.0194	<0.00212	<0.0076	<0.0078	<0.00212	0.028	0.028	--
4-Nitrophenol	<0.00230	<0.0230	<0.00251	<0.015	<0.016	<0.00251	--	--	--
Bis(2-chloroethoxy)methane (1)	<0.00200	<0.0200	<0.00219	<0.0015	<0.0016	<0.00219	0.021	0.021	--
Bis(2-chloroethyl)ether	<0.00180	<0.0180	<0.00197	<0.0015	<0.0016	<0.00197	0.01	0.01	0.43
Bis(chloroisopropyl)ether (5)	<0.00180	<0.0180	<0.00197	<0.0015	<0.0016	<0.00197	0.28	0.28	--
Bis(2-ethylhexyl)phthalate	<0.00248	<0.0248	<0.00271	<0.0076	<0.0078	<0.00271	0.006	0.06	--
Butylbenzylphthalate	<0.00300	<0.0300	<0.00328	<0.0015	<0.0016	<0.00328	1.4	7	--
Carbazole	<0.000820	<0.00820	<0.000896	<0.0038	<0.0039	<0.000896	--	--	--
Dibenzofuran (1)	0.000720	<0.00430	<0.000470	<0.0015	<0.0016	<0.000470	0.007	0.035	--
Diethylphthalate	<0.00219	<0.0219	<0.00239	<0.0038	<0.0039	<0.00239	5.6	5.6	--
Dimethylphthalate	<0.00266	<0.0266	<0.00291	<0.0038	<0.0039	<0.00291	--	--	--
Di-n-butylphthalate	<0.00170	<0.0170	<0.00186	<0.0038	<0.0039	<0.00186	0.7	3.5	--
Di-n-octylphthalate	<0.00200	<0.0200	<0.00219	<0.0076	<0.0078	<0.00219	0.14	0.7	--
Hexachlorobenzene	<0.00125	<0.0125	<0.00137	<0.00038	<0.00039	<0.00137	0.00006	0.0003	0.0062
Hexachlorobutadiene (1)	<0.00135	<0.0135	<0.00148	<0.0038	<0.0039	<0.00148	0.007	0.035	--
Hexachlorocyclopentadiene	<0.00210	<0.0210	<0.00230	<0.015	<0.016	<0.00230	0.05	0.5	0.26
Hexachloroethane	<0.00122	<0.0122	<0.00133	<0.0038	<0.0039	<0.00133	0.007	0.035	50
Isophorone	<0.000560	<0.00560	<0.000612	<0.0015	<0.0016	<0.000612	1.4	1.4	12,000
Nitrobenzene	<0.00133	<0.0133	<0.00145	<0.00076	<0.00078	<0.00145	0.0035	0.0035	2
N-Nitrosodi-n-propylamine	<0.00121	<0.0121	<0.00132	<0.00038	<0.00039	<0.00132	0.0018	0.0018	0.27
N-Nitrosodiphenylamine	<0.000960	<0.00960	<0.00105	<0.0015	<0.0016	<0.00105	0.0032	0.016	--
Pentachlorophenol	<0.00480	<0.0480	<0.00525	<0.015	<0.016	<0.00525	0.001	0.005	--
Phenol	<0.00150	<0.0150	<0.00164	<0.0038	<0.0039	<0.00164	0.1	0.1	83,000

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Current TACO chemical for the Indoor Inhalation exposure route; proposed TACO chemical for the Class I and Class II groundwater ingestion exposure routes
(3) Most stringent pH-Specific value
(4) The laboratory is currently unable to separate the 3- and 4- Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported, and the more stringent Non-TACO objectives for 3,-Methylphenol are provided for comparison.
(5) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether

TABLE NO. 12 (5 of 5) Groundwater Sample Analytical Results: SVOCs 8080 S. Lake Shore Dr. / Chicago, IL								Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-106**	**MW-202**			**MW-204**	**EW-3∞**	**NMW-4**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/18/25**	**2/13/25**	**6/26/25 +** TOTAL	**6/26/25 +** DISSOLVED	**10/23/24**	**10/21/24**	**10/21/24**			
1,2,4-Trichlorobenzene	<0.00151	<0.00735	--	--	<0.0016	<0.0079	<0.0016	0.07	0.7	5.9
1,2-Dichlorobenzene	<0.00215	<0.0105	--	--	<0.0016	<0.0079	<0.0016	0.6	1.5	160
1,3-Dichlorobenzene	<0.00113	<0.00550	--	--	<0.0016	<0.0079	<0.0016	--	--	--
1,4-Dichlorobenzene	<0.00125	<0.00610	--	--	<0.0016	<0.0079	<0.0016	0.075	0.375	79
2,4,5-Trichlorophenol	<0.00287	<0.0140	--	--	<0.0078	<0.040	<0.0082	0.7(3)	3.5(3)	--
2,4,6-Trichlorophenol	<0.00267	<0.0130	--	--	<0.0039	<0.020	<0.0041	0.01(3)	0.01(3)	--
2,4-Dichlorophenol	<0.00277	<0.0135	--	--	<0.0078	<0.040	<0.0082	0.021	0.021	--
2,4-Dimethylphenol	<0.00236	<0.0115	--	--	<0.0078	<0.040	<0.0082	0.14	0.14	--
2,4-Dinitrophenol	<0.00533	<0.0260	--	--	<0.016	<0.079	<0.016	0.014	0.014	--
2,4-Dinitrotoluene	<0.000677	<0.00330	--	--	<0.00078	<0.0040	<0.00082	0.00002	0.00002	--
2,6-Dinitrotoluene	<0.000574	<0.00280	--	--	<0.00078	<0.0040	<0.00082	0.00031	0.00031	--
2-Chloronaphthalene (1)	<0.000513	<0.00250	--	--	<0.0016	<0.0079	<0.0016	0.56	2.8	--
2-Chlorophenol	<0.00297	<0.0145	--	--	<0.0039	<0.020	<0.0041	0.035(3)	0.035(3)	22,000
2-Methylnaphthalene (1) & (2)	<0.000656	0.00735	--	--	<0.0016	<0.0079	<0.0016	0.028	0.14	25
2-Methylphenol (o-Cresol)	<0.000626	0.00645	--	--	<0.0016	<0.0079	<0.0016	0.35	0.35	26,000
2-Nitroaniline (1)	<0.00135	<0.00660	--	--	<0.0039	<0.020	<0.0041	0.07	0.07	--
2-Nitrophenol	<0.00297	<0.0145	--	--	<0.0078	<0.040	<0.0082	--	--	--
3,3´-Dichlorobenzidine	<0.00195	<0.00950	--	--	<0.0039	<0.020	<0.0041	0.02	0.1	--
3,4-Methylphenol (m,p-Cresol) (1)	<0.000513	0.00250	--	--	<0.0016	<0.0079	<0.0016	0.14(4)	0.14(4)	--
3-Nitroaniline	<0.00128	<0.00625	--	--	<0.0078	<0.040	<0.0082	--	--	--
4,6-Dinitro-2-methylphenol (1)	<0.00297	<0.0145	--	--	<0.016	<0.079	<0.016	0.00056	0.0028	--
4-Bromophenyl-phenyl ether	<0.000544	<0.00265	--	--	<0.0039	<0.020	<0.0041	--	--	--
4-Chloro-3-methylphenol (1)	<0.00277	<0.0135	--	--	<0.0078	<0.040	<0.0082	0.7	3.5	--
4-Chloroaniline	<0.00318	<0.0155	--	--	<0.0078	<0.040	<0.0082	0.028	0.028	--
4-Chlorophenyl-phenyl ether	<0.000605	<0.00295	--	--	<0.0039	<0.020	<0.0041	--	--	--
4-Nitroaniline (1)	<0.00199	<0.00970	--	--	<0.0078	<0.040	<0.0082	0.028	0.028	--
4-Nitrophenol	<0.00236	<0.0115	--	--	<0.016	<0.079	<0.016	--	--	--
Bis(2-chloroethoxy)methane (1)	<0.00205	<0.0100	--	--	<0.0016	<0.0079	<0.0016	0.021	0.021	--
Bis(2-chloroethyl)ether	<0.00185	<0.00900	--	--	<0.0016	<0.0079	<0.0016	0.01	0.01	0.43
Bis(chloroisopropyl)ether (5)	<0.00185	<0.00900	--	--	<0.0016	<0.0079	<0.0016	0.28	0.28	--
Bis(2-ethylhexyl)phthalate	<0.00254	<0.0124	--	--	<0.0078	<0.040	<0.0082	0.006	0.06	--
Butylbenzylphthalate	<0.00308	<0.0150	--	--	<0.0016	<0.0079	<0.0016	1.4	7	--
Carbazole	<0.000841	0.0711	0.11	<0.0041	<0.0039	<0.020	<0.0041	--	--	--
Dibenzofuran (1)	<0.000441	0.0157	--	--	<0.0016	<0.0079	<0.0016	0.007	0.035	--
Diethylphthalate	<0.00225	<0.0110	--	--	<0.0039	<0.020	<0.0041	5.6	5.6	--
Dimethylphthalate	<0.00273	<0.0133	--	--	<0.0039	<0.020	<0.0041	--	--	--
Di-n-butylphthalate	<0.00174	<0.00850	--	--	<0.0039	<0.020	<0.0041	0.7	3.5	--
Di-n-octylphthalate	<0.00205	<0.0100	--	--	<0.0078	<0.040	<0.0082	0.14	0.7	--
Hexachlorobenzene	<0.00128	<0.00625	--	--	<0.00039	<0.0020	<0.00041	0.00006	0.0003	0.0062
Hexachlorobutadiene (1)	<0.00138	<0.00675	--	--	<0.0039	<0.020	<0.0041	0.007	0.035	--
Hexachlorocyclopentadiene	<0.00215	<0.0105	--	--	<0.016	<0.079	<0.016	0.05	0.5	0.26
Hexachloroethane	<0.00125	<0.00610	--	--	<0.0039	<0.020	<0.0041	0.007	0.035	50
Isophorone	<0.000574	<0.00280	--	--	<0.0016	<0.0079	<0.0016	1.4	1.4	12,000
Nitrobenzene	<0.00136	<0.00665	--	--	<0.00078	<0.0040	<0.00082	0.0035	0.0035	2
N-Nitrosodi-n-propylamine	<0.00124	<0.00605	--	--	<0.00039	<0.0020	<0.00041	0.0018	0.0018	0.27
N-Nitrosodiphenylamine	<0.000985	<0.00480	--	--	<0.0016	<0.0079	<0.0016	0.0032	0.016	--
Pentachlorophenol	<0.00492	<0.0240	--	--	<0.016	<0.079	<0.016	0.001	0.005	--
Phenol	<0.00154	<0.00750	--	--	<0.0039	<0.020	<0.0041	0.1	0.1	83,000

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
+ monitoring well resampled using low-flow method
∞ former extraction well erroneously identified as NW-2 in lab report
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Current TACO chemical for the Indoor Inhalation exposure route; proposed TACO chemical for the Class I and Class II groundwater ingestion exposure routes
(3) Most stringent pH-Specific value
(4) The laboratory is currently unable to separate the 3- and 4- Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported, and the more stringent Non-TACO objectives for 3,-Methylphenol are provided for comparison.
(5) Compound is also known as 2,2-oxybis(1-chloropropane) and bis(2-chloro-1-methylethyl)ether

TABLE NO. 13 (1 of 10) Groundwater Sample Analytical Results: PNAs 8080 S. Lake Shore Dr. / Chicago, IL									Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-301**		**MW-302**			**MW-303**			**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**12/5/24**		**10/22/24**	**12/5/24***		**10/22/24**	**12/5/24***				
Method	**Total**	**Dissolved**	**Total**	**Total**	**Dissolved**	**Total**	**Total**	**Dissolved**			
Acenaphthene	<0.00098	<0.00081	0.0020	0.00080	<0.00081	<0.00089	<0.00080	<0.00083	0.42	2.1	--
Acenaphthylene(1)	<0.00098	<0.00081	0.0020	<0.00075	<0.00081	<0.00089	<0.00080	<0.00083	0.42	2.1	--
Anthracene	<0.00098	<0.00081	<0.00078	<0.00075	<0.00081	<0.00089	<0.00080	<0.00083	2.1	10.5	--
Benzo(a)anthracene	<0.00016	<0.00013	<0.00013	<0.00012	<0.00013	**0.0013**	0.00054	<0.00013	0.00013	0.00065	--
Benzo(a)pyrene	<0.00020	<0.00016	<0.00016	0.00019	<0.00016	0.0018	0.00065	<0.00017	0.0002	0.002	--
Benzo(b)fluoranthene	<0.00020	<0.00016	<0.00016	<0.00015	<0.00016	**0.0032**	**0.0010**	<0.00017	0.00018	0.0009	--
Benzo(g,h,i)perylene(1)	<0.00098	<0.00081	<0.00078	<0.00075	<0.00081	0.0021	<0.00080	<0.00083	0.21	1.05	--
Benzo(k)fluoranthene	<0.00020	<0.00016	<0.00016	<0.00015	<0.00016	**0.0013**	0.00034	<0.00017	0.00017	0.00085	--
Chrysene	<0.00020	<0.00016	<0.00016	<0.00015	<0.00016	0.0019	0.00054	<0.00017	0.0015	0.0075	--
Dibenzo(a,h)anthracene	<0.00029	<0.00024	<0.00024	<0.00023	<0.00024	0.00095	<0.00024	<0.00025	0.0003	0.0015	--
Fluoranthene	<0.00098	<0.00081	<0.00078	<0.00075	<0.00081	0.0014	<0.00080	<0.00083	0.28	1.4	--
Fluorene	<0.00098	<0.00081	0.0020	<0.00075	<0.00081	<0.00089	<0.00080	<0.00083	0.28	1.4	--
Indeno(1,2,3-cd)pyrene	<0.00020	<0.00016	<0.00016	<0.00015	<0.00016	**0.0023**	0.00063	<0.00017	0.00043	0.00215	--
Naphthalene	<0.00098	<0.00081	<0.00078	<0.00075	<0.00081	<0.00089	<0.00080	<0.00083	0.14	0.22	0.32
Phenanthrene(1)	<0.00098	<0.00081	<0.00078	<0.00075	<0.00081	<0.00089	<0.00080	<0.00083	0.21	1.05	--
Pyrene	<0.00098	<0.00081	<0.00078	<0.00075	<0.00081	0.0015	<0.00080	<0.00083	0.21	1.05	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
* monitoring well resampled for total and dissolved PNAs
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 13 (2 of 10) Groundwater Sample Analytical Results: PNAs 8080 S. Lake Shore Dr. / Chicago, IL								Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-304**			**MW-305**		**MW-306**		**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/22/24**	**12/5/24***		**10/23/24**		**12/5/24**				
Method	**Total**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**			
Acenaphthene	<0.00078	<0.00075	<0.00083	<0.00076	<0.00080	<0.00093	<0.00084	0.42	2.1	--
Acenaphthylene(1)	<0.00078	<0.00075	<0.00083	<0.00076	<0.00080	<0.00093	<0.00084	0.42	2.1	--
Anthracene	<0.00078	<0.00075	<0.00083	<0.00076	<0.00080	<0.00093	<0.00084	2.1	10.5	--
Benzo(a)anthracene	0.00055	**0.0041**	<0.00013	<0.00012	<0.00013	<0.00015	<0.00014	0.00013	0.00065	--
Benzo(a)pyrene	0.00063	**0.0061**	<0.00017	<0.00015	<0.00016	0.00043	<0.00017	0.0002	0.002	--
Benzo(b)fluoranthene	**0.00093**	**0.0096**	<0.00017	<0.00015	<0.00016	0.00060	<0.00017	0.00018	0.0009	--
Benzo(g,h,i)perylene(1)	<0.00078	0.0079	<0.00083	<0.00076	<0.00080	<0.00093	<0.00084	0.21	1.05	--
Benzo(k)fluoranthene	0.00035	**0.0030**	<0.00017	<0.00015	<0.00016	<0.00019	<0.00017	0.00017	0.00085	--
Chrysene	0.00069	0.0060	<0.00017	<0.00015	<0.00016	<0.00019	<0.00017	0.0015	0.0075	--
Dibenzo(a,h)anthracene	<0.00023	**0.0018**	<0.00025	<0.00023	<0.00024	<0.00028	<0.00025	0.0003	0.0015	--
Fluoranthene	0.00085	0.0049	<0.00083	<0.00076	<0.00080	<0.00093	<0.00084	0.28	1.4	--
Fluorene	<0.00078	<0.00075	<0.00083	<0.00076	<0.00080	<0.00093	<0.00084	0.28	1.4	--
Indeno(1,2,3-cd)pyrene	0.00062	**0.0073**	<0.00017	<0.00015	<0.00016	0.00048	<0.00017	0.00043	0.00215	--
Naphthalene	<0.00078	<0.00075	<0.00083	<0.00076	<0.00080	<0.00093	<0.00084	0.14	0.22	0.32
Phenanthrene(1)	<0.00078	0.0026	<0.00083	<0.00076	<0.00080	<0.00093	<0.00084	0.21	1.05	--
Pyrene	<0.00078	0.0055	<0.00083	<0.00076	<0.00080	<0.00093	<0.00084	0.21	1.05	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
* monitoring well resampled for total and dissolved PNAs
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 13 (3 of 10) Groundwater Sample Analytical Results: PNAs 8080 S. Lake Shore Dr. / Chicago, IL									Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-307**		**MW-308**		**MW-309**				**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/24/24**		**12/11/24**		**12/11/24**		**2/14/25 +**				
Method	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**			
Acenaphthene	0.0032	0.00096	<0.00089	<0.00080	<0.00077	<0.00081	0.000118	<0.0000819	0.42	2.1	--
Acenaphthylene(1)	<0.00085	<0.00084	<0.00089	<0.00080	<0.00077	<0.00081	0.000124	<0.0000394	0.42	2.1	--
Anthracene	<0.00085	<0.00084	<0.00089	<0.00080	<0.00077	<0.00081	0.000107	<0.0000362	2.1	10.5	--
Benzo(a)anthracene	<0.00014	<0.00014	<0.00015	<0.00013	**0.00077**	0.00062	<0.0000857	<0.0000862	0.00013	0.00065	--
Benzo(a)pyrene	<0.00017	<0.00017	<0.00018	<0.00016	0.00093	0.00078	<0.0000698	<0.0000702	0.0002	0.002	--
Benzo(b)fluoranthene	<0.00017	<0.00017	<0.00018	<0.00016	**0.0013**	**0.00094**	<0.0000413	<0.0000415	0.00018	0.0009	--
Benzo(g,h,i)perylene(1)	<0.00085	<0.00084	<0.00089	<0.00080	0.0013	<0.00081	<0.0000487	<0.0000489	0.21	1.05	--
Benzo(k)fluoranthene	<0.00017	<0.00017	<0.00018	<0.00016	0.00043	0.00033	<0.0000508	<0.0000511	0.00017	0.00085	--
Chrysene	<0.00017	<0.00017	<0.00018	<0.00016	0.0010	0.00077	<0.0000381	<0.0000383	0.0015	0.0075	--
Dibenzo(a,h)anthracene	<0.00025	<0.00025	<0.00027	<0.00024	<0.00023	<0.00024	<0.0000497	<0.0000500	0.0003	0.0015	--
Fluoranthene	<0.00085	<0.00084	<0.00089	<0.00080	0.0017	0.0013	0.000238	<0.0000372	0.28	1.4	--
Fluorene	0.0017	<0.00084	<0.00089	<0.00080	<0.00077	<0.00081	0.000181	<0.0000372	0.28	1.4	--
Indeno(1,2,3-cd)pyrene	<0.00017	<0.00017	<0.00018	<0.00016	0.0011	0.00056	<0.0000381	<0.0000383	0.00043	0.00215	--
Naphthalene	0.0086	0.015	<0.00089	0.0011	<0.00077	<0.00081	0.0000646	<0.0000511	0.14	0.22	0.32
Phenanthrene(1)	0.0018	<0.00084	<0.00089	<0.00080	0.0016	0.0013	0.000669	<0.0000894	0.21	1.05	--
Pyrene	<0.00085	<0.00084	<0.00089	<0.00080	0.0019	0.0015	0.000211	<0.0000915	0.21	1.05	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
+ monitoring well resampled using low-flow method
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 13 (4 of 10) Groundwater Sample Analytical Results: PNAs 8080 S. Lake Shore Dr. / Chicago, IL							Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-310**		**MW-311**		**MW-312**		**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**12/11/24**		**12/11/24**		**12/12/24**				
Method	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**			
Acenaphthene	<0.00077	<0.00081	0.00095	<0.00081	<0.00082	<0.00079	0.42	2.1	--
Acenaphthylene(1)	<0.00077	<0.00081	<0.00079	<0.00081	<0.00082	<0.00079	0.42	2.1	--
Anthracene	<0.00077	<0.00081	<0.00079	<0.00081	<0.00082	<0.00079	2.1	10.5	--
Benzo(a)anthracene	<0.00013	0.00016	0.00043	<0.00013	<0.00013	<0.00013	0.00013	0.00065	--
Benzo(a)pyrene	0.00022	<0.00016	0.00041	<0.00016	<0.00016	<0.00016	0.0002	0.002	--
Benzo(b)fluoranthene	0.00028	<0.00016	0.00045	<0.00016	<0.00016	<0.00016	0.00018	0.0009	--
Benzo(g,h,i)perylene(1)	<0.00077	<0.00081	<0.00079	<0.00081	<0.00082	<0.00079	0.21	1.05	--
Benzo(k)fluoranthene	<0.00015	<0.00016	<0.00016	<0.00016	<0.00016	<0.00016	0.00017	0.00085	--
Chrysene	<0.00015	<0.00016	0.00059	<0.00016	<0.00016	<0.00016	0.0015	0.0075	--
Dibenzo(a,h)anthracene	<0.00023	<0.00024	<0.00024	<0.00024	<0.00025	<0.00024	0.0003	0.0015	--
Fluoranthene	<0.00077	<0.00081	0.00088	<0.00081	<0.00082	<0.00079	0.28	1.4	--
Fluorene	<0.00077	<0.00081	<0.00079	<0.00081	<0.00082	<0.00079	0.28	1.4	--
Indeno(1,2,3-cd)pyrene	<0.00015	<0.00016	0.00034	<0.00016	<0.00016	<0.00016	0.00043	0.00215	--
Naphthalene	<0.00077	<0.00081	<0.00079	<0.00081	<0.00082	<0.00079	0.14	0.22	0.32
Phenanthrene(1)	<0.00077	<0.00081	<0.00079	<0.00081	<0.00082	<0.00079	0.21	1.05	--
Pyrene	<0.00077	<0.00081	0.0013	<0.00081	<0.00082	<0.00079	0.21	1.05	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 13 (5 of 10) Groundwater Sample Analytical Results: PNAs 8080 S. Lake Shore Dr. / Chicago, IL									Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-314**		**MW-315**				**MW-316**		**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/17/25**		**2/17/25**		**3/17/25 +**		**2/13/25**				
Method	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**			
Acenaphthene	<0.0000802	<0.0000837	0.00826	0.000461	<0.00079	<0.00078	0.00293	0.000522	0.42	2.1	--
Acenaphthylene(1)	<0.0000385	<0.0000402	0.000898	<0.0000389	<0.00079	<0.00078	0.000544	0.0000843	0.42	2.1	--
Anthracene	<0.000754	<0.0000370	0.0345	0.000337	<0.00079	<0.00078	0.0141	0.000326	2.1	10.5	--
Benzo(a)anthracene	<0.0000844	<0.0000880	**0.0608**	0.000857	0.00016	<0.00013	**0.00149**	0.000190	0.00013	0.00065	--
Benzo(a)pyrene	<0.0000687	<0.0000717	**0.0588**	**0.000794**	<0.00016	<0.00016	**0.00202**	0.000264	0.0002	0.002	--
Benzo(b)fluoranthene	<0.0000406	<0.0000424	**0.0549**	0.000727	<0.00016	<0.00016	**0.00157**	0.000207	0.00018	0.0009	--
Benzo(g,h,i)perylene(1)	<0.0000479	<0.0000500	0.0313	0.000461	<0.00079	<0.00078	0.00244	0.000351	0.21	1.05	--
Benzo(k)fluoranthene	<0.0000500	<0.0000522	**0.0293**	0.000385	<0.00016	<0.00016	**0.000951**	0.000124	0.00017	0.00085	--
Chrysene	<0.000765	<0.0000391	**0.0489**	0.000598	<0.00016	<0.00016	**0.0109**	0.000121	0.0015	0.0075	--
Dibenzo(a,h)anthracene	<0.0000490	<0.0000511	**0.00726**	0.000123	<0.00024	<0.00023	**0.000598**	0.0000844	0.0003	0.0015	--
Fluoranthene	0.0000413	<0.0000380	0.141	0.00176	<0.00079	<0.00078	0.00343	0.000486	0.28	1.4	--
Fluorene	<0.0000365	<0.0000380	0.0109	0.000140	<0.00079	<0.00078	0.00345	0.000570	0.28	1.4	--
Indeno(1,2,3-cd)pyrene	<0.0000375	<0.0000391	**0.0386**	0.000578	<0.00016	<0.00016	**0.00319**	0.000419	0.00043	0.00215	--
Naphthalene	<0.000450	<0.0000522	0.0132	0.00404	0.00095	<0.00078	0.000893	0.000246	0.14	0.22	0.32
Phenanthrene(1)	<0.0000875	<0.0000913	0.0862	0.00102	0.0012	<0.00078	0.00483	0.000726	0.21	1.05	--
Pyrene	<0.0000896	<0.0000935	0.0986	0.00129	<0.00079	<0.00078	0.00234	0.000341	0.21	1.05	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
+ monitoring well resampled using low-flow procedures
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 13 (6 of 10) Groundwater Sample Analytical Results: PNAs 8080 S. Lake Shore Dr. / Chicago, IL							Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-316**		**MW-317**		**MW-318**		**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/17/25**		**2/13/25**		**2/13/25**				
Method	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**			
Acenaphthene	<0.00075	<0.00079	0.000502	<0.0000828	0.00563	0.00120	0.42	2.1	--
Acenaphthylene(1)	<0.00075	<0.00079	0.000211	<0.0000398	0.000516	0.0000635	0.42	2.1	--
Anthracene	0.00096	<0.00079	0.00217	0.0000409	0.00890	0.0000458	2.1	10.5	--
Benzo(a)anthracene	**0.0012**	<0.00013	0.000300	<0.0000871	**0.00295**	<0.0000885	0.00013	0.00065	--
Benzo(a)pyrene	**0.0013**	<0.00016	0.000186	<0.0000710	**0.00273**	<0.0000721	0.0002	0.002	--
Benzo(b)fluoranthene	**0.0015**	<0.00016	0.000224	<0.0000419	**0.00223**	<0.0000426	0.00018	0.0009	--
Benzo(g,h,i)perylene(1)	0.00086	<0.00079	0.000112	<0.0000495	0.00207	<0.0000503	0.21	1.05	--
Benzo(k)fluoranthene	**0.00076**	<0.00016	0.0000895	<0.0000516	**0.000984**	<0.0000525	0.00017	0.00085	--
Chrysene	0.00090	<0.00016	0.00273	<0.0000387	**0.0170**	<0.0000393	0.0015	0.0075	--
Dibenzo(a,h)anthracene	0.00030	<0.00024	<0.0000485	<0.0000505	0.000449	<0.0000514	0.0003	0.0015	--
Fluoranthene	0.0023	<0.00079	0.00130	0.0000813	0.00829	<0.0000383	0.28	1.4	--
Fluorene	0.00078	<0.00079	0.00131	0.0000570	0.00125	0.0000736	0.28	1.4	--
Indeno(1,2,3-cd)pyrene	**0.0010**	<0.00016	0.000119	<0.0000387	0.00195	<0.0000393	0.00043	0.00215	--
Naphthalene	<0.00075	<0.00079	0.000133	0.000103	0.123	0.127	0.14	0.22	0.32
Phenanthrene(1)	0.0017	<0.00079	0.00269	0.000133	0.000935	<0.0000918	0.21	1.05	--
Pyrene	0.0018	<0.00079	0.000835	<0.0000925	0.0134	<0.0000940	0.21	1.05	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 13 (7 of 10) Groundwater Sample Analytical Results: PNAs 8080 S. Lake Shore Dr. / Chicago, IL							Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-101**		**MW-102**		**MW-102D**		**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/17/25**		**10/23/24**		**10/23/24**				
Method	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**			
Acenaphthene	<0.0000802	<0.0000828	<0.00076	<0.00081	<0.00078	<0.00078	0.42	2.1	--
Acenaphthylene(1)	<0.0000385	<0.0000398	<0.00076	<0.00081	<0.00078	<0.00078	0.42	2.1	--
Anthracene	<0.000754	<0.0000366	<0.00076	<0.00081	<0.00078	<0.00078	2.1	10.5	--
Benzo(a)anthracene	<0.0000844	<0.0000871	<0.00012	<0.00013	<0.00013	<0.00013	0.00013	0.00065	--
Benzo(a)pyrene	<0.0000687	<0.0000710	<0.00015	<0.00016	<0.00016	<0.00016	0.0002	0.002	--
Benzo(b)fluoranthene	<0.0000406	<0.0000419	<0.00015	<0.00016	<0.00016	<0.00016	0.00018	0.0009	--
Benzo(g,h,i)perylene(1)	<0.0000479	<0.0000495	<0.00076	<0.00081	<0.00078	<0.00078	0.21	1.05	--
Benzo(k)fluoranthene	<0.0000500	<0.0000516	<0.00015	<0.00016	<0.00016	<0.00016	0.00017	0.00085	--
Chrysene	<0.000765	<0.0000387	<0.00015	<0.00016	<0.00016	<0.00016	0.0015	0.0075	--
Dibenzo(a,h)anthracene	<0.0000490	<0.0000505	<0.00023	<0.00024	<0.00023	<0.00024	0.0003	0.0015	--
Fluoranthene	<0.0000365	<0.0000376	<0.00076	<0.00081	<0.00078	<0.00078	0.28	1.4	--
Fluorene	<0.0000365	<0.0000376	<0.00076	<0.00081	<0.00078	<0.00078	0.28	1.4	--
Indeno(1,2,3-cd)pyrene	<0.0000375	<0.0000387	<0.00015	<0.00016	<0.00016	<0.00016	0.00043	0.00215	--
Naphthalene	<0.000500	<0.0000516	<0.00076	<0.00081	<0.00078	<0.00078	0.14	0.22	0.32
Phenanthrene(1)	<0.0000875	<0.0000903	<0.00076	<0.00081	<0.00078	<0.00078	0.21	1.05	--
Pyrene	<0.0000896	<0.0000925	<0.00076	<0.00081	<0.00078	<0.00078	0.21	1.05	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 13 (8 of 10) Groundwater Sample Analytical Results: PNAs 8080 S. Lake Shore Dr. / Chicago, IL					Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-104D**		**MW-106**		**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/17/25**		**2/18/25**				
Method	**Total**	**Dissolved**	**Total**	**Dissolved**			
Acenaphthene	<0.0000811	<0.0000811	<0.0000770	<0.0000828	0.42	2.1	--
Acenaphthylene(1)	<0.0000389	<0.0000389	<0.0000370	<0.0000398	0.42	2.1	--
Anthracene	<0.000754	<0.0000358	<0.000708	<0.0000366	2.1	10.5	--
Benzo(a)anthracene	<0.0000853	<0.0000853	0.0000996	<0.0000871	0.00013	0.00065	--
Benzo(a)pyrene	<0.0000695	<0.0000695	0.000125	<0.0000710	0.0002	0.002	--
Benzo(b)fluoranthene	<0.0000411	<0.0000411	0.000124	<0.0000419	0.00018	0.0009	--
Benzo(g,h,i)perylene(1)	<0.0000484	<0.0000484	0.000101	<0.0000495	0.21	1.05	--
Benzo(k)fluoranthene	<0.0000505	<0.0000505	0.0000578	<0.0000516	0.00017	0.00085	--
Chrysene	<0.000765	<0.0000379	<0.000718	<0.0000387	0.0015	0.0075	--
Dibenzo(a,h)anthracene	<0.0000495	<0.0000495	<0.0000470	<0.0000505	0.0003	0.0015	--
Fluoranthene	<0.0000368	<0.0000368	0.000191	<0.0000376	0.28	1.4	--
Fluorene	<0.0000368	<0.0000368	<0.0000350	<0.0000376	0.28	1.4	--
Indeno(1,2,3-cd)pyrene	<0.0000379	<0.0000379	0.0000968	<0.0000387	0.00043	0.00215	--
Naphthalene	0.0000537	<0.0000505	<0.0000480	<0.0000516	0.14	0.22	0.32
Phenanthrene(1)	<0.0000884	<0.0000884	0.0000893	<0.0000903	0.21	1.05	--
Pyrene	<0.0000905	<0.0000905	0.000160	<0.0000925	0.21	1.05	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 13 (9 of 10) Groundwater Sample Analytical Results: PNAs 8080 S. Lake Shore Dr. / Chicago, IL						Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-202**					**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/13/25**		**3/18/25 +**	**6/26/25 +**				
Method	**Total**	**Dissolved**	**Total**	**Total**	**Dissolved**			
Acenaphthene	0.0436	0.0195	--	--	--	0.42	2.1	--
Acenaphthylene(1)	0.00428	0.00168	--	--	--	0.42	2.1	--
Anthracene	0.00395	0.0000524	--	--	--	2.1	10.5	--
Benzo(a)anthracene	**0.00203**	<0.0000862	--	--	--	0.00013	0.00065	--
Benzo(a)pyrene	0.00155	<0.0000702	--	--	--	0.0002	0.002	--
Benzo(b)fluoranthene	**0.00122**	<0.0000415	--	--	--	0.00018	0.0009	--
Benzo(g,h,i)perylene(1)	0.00105	<0.0000489	--	--	--	0.21	1.05	--
Benzo(k)fluoranthene	0.000575	<0.0000511	--	--	--	0.00017	0.00085	--
Chrysene	**<0.00350**	<0.0000383	--	--	--	0.0015	0.0075	--
Dibenzo(a,h)anthracene	0.000204	<0.0000500	--	--	--	0.0003	0.0015	--
Fluoranthene	0.00810	<0.0000372	--	--	--	0.28	1.4	--
Fluorene	0.0295	0.00620	--	--	--	0.28	1.4	--
Indeno(1,2,3-cd)pyrene	**0.000931**	<0.0000383	--	--	--	0.00043	0.00215	--
Naphthalene	**0.861**	**0.733 ***	**0.86 ***	**0.94**	<0.00081	0.14	0.22	0.32
Phenanthrene(1)	0.00768	<0.0000894	--	--	--	0.21	1.05	--
Pyrene	0.00710	<0.0000915	--	--	--	0.21	1.05	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
* soil gas sample (SG-2) result from this location demonstrates compliance with the indoor inhalation exposure route (see Table No. 17)
+ monitoring well resampled using low-flow method (3/18/25) with filtering (6/26/25)
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 13 (10 of 10) Groundwater Sample Analytical Results: PNAs 8080 S. Lake Shore Dr. / Chicago, IL							Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-204**		**EW-3∞**		**NMW-4**		**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/23/24**		**12/2/24**		**12/2/24**				
Method	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**			
Acenaphthene	<0.00078	<0.00076	0.0053	<0.00081	<0.00082	<0.00097	0.42	2.1	--
Acenaphthylene(1)	<0.00078	<0.00076	<0.0040	<0.00081	<0.00082	<0.00097	0.42	2.1	--
Anthracene	<0.00078	<0.00076	<0.0040	<0.00081	<0.00082	<0.00097	2.1	10.5	--
Benzo(a)anthracene	<0.00013	<0.00012	<0.00064	<0.00013	**0.00093**	<0.00016	0.00013	0.00065	--
Benzo(a)pyrene	<0.00016	<0.00015	<0.00079	<0.00016	0.0014	<0.00019	0.0002	0.002	--
Benzo(b)fluoranthene	<0.00016	<0.00015	<0.00079	<0.00016	**0.0022**	<0.00019	0.00018	0.0009	--
Benzo(g,h,i)perylene(1)	<0.00078	<0.00076	<0.0040	<0.00081	0.0022	<0.00097	0.21	1.05	--
Benzo(k)fluoranthene	<0.00016	<0.00015	<0.00079	<0.00016	0.00071	<0.00019	0.00017	0.00085	--
Chrysene	<0.00016	<0.00015	0.0016	<0.00016	0.0013	<0.00019	0.0015	0.0075	--
Dibenzo(a,h)anthracene	<0.00023	<0.00023	<0.0012	<0.00024	**0.00057**	<0.00029	0.0003	0.0015	--
Fluoranthene	<0.00078	<0.00076	<0.0040	<0.00081	0.0015	<0.00097	0.28	1.4	--
Fluorene	<0.00078	<0.00076	<0.0040	<0.00081	<0.00082	<0.00097	0.28	1.4	--
Indeno(1,2,3-cd)pyrene	<0.00016	<0.00015	<0.00079	<0.00016	0.0019	<0.00019	0.00043	0.00215	--
Naphthalene	<0.00078	<0.00076	<0.0040	0.0018	<0.00082	0.0066	0.14	0.22	0.32
Phenanthrene(1)	<0.00078	<0.00076	<0.0040	<0.00081	<0.00082	<0.00097	0.21	1.05	--
Pyrene	<0.00078	<0.00076	<0.0040	<0.00081	0.0016	<0.00097	0.21	1.05	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
∞ former extraction well erroneously identified as NW-2 in lab report
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 14 (1 of 7) Groundwater Sample Analytical Results: TCL Metals 8080 S. Lake Shore Dr. / Chicago, IL											Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-301**		**MW-302**		**MW-303**		**MW-304**		**MW-305**		**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/21/24**		**10/22/24**		**10/22/24**		**10/22/24**		**10/23/24**				
Method	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Method**	**Total**			
Aluminum (1)	0.79	<0.10	1.8	<0.10	**61**	<0.10	**51**	<0.10	1.9	0.14	3.5	5	--
Antimony	<0.0030	<0.0030	<0.0030	<0.0030	0.014	<0.0030	0.015	<0.0030	<0.0030	<0.0030	0.006	0.024	--
Arsenic	0.0013	0.0051	0.0029	0.0019	0.10	0.0011	0.051	0.0012	0.0028	0.0019	0.05	0.2	--
Barium	0.042	0.067	0.10	0.057	**2.1**	0.040	1.2	0.031	0.077	0.057	2	2	--
Beryllium	<0.0010	<0.0010	<0.0010	<0.0010	0.015	<0.0010	0.0072	<0.0010	<0.0010	<0.0010	0.004	0.5	--
Cadmium	<0.00050	<0.00050	<0.00050	<0.00050	0.018	<0.00050	0.0057	<0.00050	<0.00050	<0.00050	0.005	0.05	--
Calcium	130	88	34	29	300	180	230	170	150	100	--	--	--
Chromium	<0.0050	<0.0050	<0.0050	<0.0050	0.32	<0.0050	0.14	<0.0050	<0.0050	<0.0050	0.1	1	--
Cobalt	<0.0010	<0.0010	0.0011	<0.0010	0.041	<0.0010	0.027	<0.0010	0.0013	<0.0010	1	1	--
Copper	0.0056	<0.0020	0.0020	<0.0020	0.29	<0.0020	0.39	<0.0020	<0.0020	<0.0020	0.65	0.65	--
Cyanide	0.12	--	0.0079	--	0.49	--	0.033	--	<0.0050	--	0.2	0.6	--
Iron	3.3	0.29	2.5	<0.10	**360**	0.43	**310**	0.26	2.4	<0.10	5	5	--
Lead	0.021	0.0015	0.032	<0.00050	**1.5**	0.0016	**0.44**	<0.00050	0.0037	<0.00050	0.0075	0.1	--
Magnesium	15	38	53	50	72	51	44	32	25	3.7	--	--	--
Manganese	0.28	1.5	0.24	0.084	**16**	2.0	**14**	1.3	**0.22**	0.011	0.15	10	--
Mercury	<0.00020	<0.00020	<0.00020	<0.00020	0.0011	<0.00020	0.00095	<0.00020	<0.00020	<0.00020	0.002	0.01	0.060(2)
Nickel	<0.0020	<0.0020	<0.0020	<0.0020	0.32	0.0046	0.28	0.0059	<0.0020	<0.0020	0.1	2	--
Potassium	60	7.3	12	11	24	20	19	18	33	31	--	--	--
Selenium	<0.0025	<0.0025	<0.0025	<0.0025	0.013	<0.0025	0.0095	<0.0025	0.0044	0.0032	0.05	0.05	--
Silver	<0.00050	<0.00050	<0.00050	<0.00050	0.0034	<0.00050	0.0016	<0.00050	<0.00050	<0.00050	0.05	--	--
Sodium	49	100	35	34	16	16	12	13	15	15	--	--	--
Thallium	<0.0020	<0.0020	<0.0020	<0.0020	0.0066	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.002	0.02	--
Vanadium	<0.0050	<0.0050	<0.0050	<0.0050	**0.24**	<0.0050	**0.15**	<0.0050	0.0051	<0.0050	0.049	0.1	--
Zinc	0.067	<0.020	<0.020	<0.020	2.5	<0.020	0.69	<0.020	<0.020	<0.020	5	10	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Pursuant to 35 IAC 742, the inhalation objective only applies at sites where elemental mercury is a contaminant of concern

TABLE NO. 14 (2 of 7)
Groundwater Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID	MW-306		MW-307				MW-308		MW-309		Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Collection Date	10/23/24		10/24/24		2/14/25 *		12/11/24		12/11/24		Class I	Class II	Indoor Inhalation - Industrial/ Commercial
Method	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved			
Aluminum (1)	**6.1**	<0.10	0.62	0.47	--	--	1.9	0.14	**56**	0.58	3.5	5	--
Antimony	0.0057	<0.0030	**0.026**	0.023	--	--	<0.0030	<0.0030	**0.049**	0.0053	0.006	0.024	--
Arsenic	0.0064	0.0011	0.0014	0.0013	--	--	0.0053	0.0013	0.066	0.010	0.05	0.2	--
Barium	0.13	0.030	0.055	0.052	--	--	0.043	0.031	0.93	0.025	2	2	--
Beryllium	0.0026	<0.0010	<0.0010	<0.0010	--	--	<0.0010	<0.0010	0.014	<0.0010	0.004	0.5	--
Cadmium	0.0014	<0.00050	<0.00050	<0.00050	--	--	<0.00050	<0.00050	0.0030	<0.00050	0.005	0.05	--
Calcium	400	180	63	60	--	--	110	100	340	120	--	--	--
Chromium	0.035	<0.0050	<0.0050	<0.0050	--	--	0.0061	<0.0050	0.25	<0.0050	0.1	1	--
Cobalt	0.0031	<0.0010	<0.0010	<0.0010	--	--	0.0027	<0.0010	0.040	<0.0010	1	1	--
Copper	0.48	<0.0020	0.0033	0.0069	--	--	0.0072	<0.0020	**1.1**	0.014	0.65	0.65	--
Cyanide	0.13	--	0.010	--	--	--	<0.0050	--	0.043	--	0.2	0.6	--
Iron	**38**	<0.10	0.22	<0.10	--	--	**18**	2.5	**270**	3.4	5	5	--
Lead	**0.18**	<0.00050	**0.45**	**0.16**	0.0883	0.0437	0.0058	0.00073	**0.69**	0.0074	0.0075	0.1	--
Magnesium	18	3.9	0.46	<0.20	--	--	60	55	28	1.5	--	--	--
Manganese	1.5	0.0032	0.020	0.0039	--	--	2.8	1.7	**14**	0.13	0.15	10	--
Mercury	<0.00020	<0.00020	<0.00020	<0.00020	--	--	<0.00020	<0.00020	0.00025	<0.00020	0.002	0.01	0.060(2)
Nickel	0.019	<0.0020	<0.0020	<0.0020	--	--	0.0045	<0.0020	0.18	0.0020	0.1	2	--
Potassium	39	27	11	11	--	--	20	20	21	16	--	--	--
Selenium	0.0079	0.0034	<0.0025	<0.0025	--	--	<0.0025	<0.0025	**0.070**	0.029	0.05	0.05	--
Silver	<0.00050	<0.00050	<0.00050	<0.00050	--	--	<0.00050	<0.00050	0.00065	<0.00050	0.05	--	--
Sodium	14	11	7.3	7.2	--	--	26	25	30	29	--	--	--
Thallium	<0.0020	<0.0020	<0.0020	<0.0020	--	--	<0.0020	<0.0020	<0.0020	<0.0020	0.002	0.02	--
Vanadium	0.019	<0.0050	0.0052	<0.0050	--	--	0.010	<0.0050	**0.27**	0.092	0.049	0.1	--
Zinc	0.42	<0.020	<0.020	<0.020	--	--	0.042	<0.020	0.64	<0.020	5	10	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
* monitoring well resampled using low-flow procedures
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Pursuant to 35 IAC 742, the inhalation objective only applies at sites where elemental mercury is a contaminant of concern

TABLE NO. 14 (3 of 7) Groundwater Sample Analytical Results: TCL Metals 8080 S. Lake Shore Dr. / Chicago, IL									Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-310**		**MW-311**		**MW-312**		**MW-313**		**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**12/11/24**		**12/11/24**		**12/12/24**		**12/12/24**				
Method	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**			
Aluminum (1)	0.82	1.8	**7.2**	0.45	**32**	0.21	--	--	3.5	5	--
Antimony	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	--	--	0.006	0.024	--
Arsenic	0.0010	0.0013	0.022	0.0038	0.038	<0.0010	--	--	0.05	0.2	--
Barium	0.033	0.062	0.098	0.057	0.16	0.048	--	--	2	2	--
Beryllium	<0.0010	<0.0010	<0.0010	<0.0010	0.0024	<0.0010	--	--	0.004	0.5	--
Cadmium	<0.00050	<0.00050	<0.00050	<0.00050	0.00081	<0.00050	--	--	0.005	0.05	--
Calcium	150	120	250	140	360	190	--	--	--	--	--
Chromium	<0.0050	<0.0050	0.017	<0.0050	0.074	0.026	--	--	0.1	1	--
Cobalt	<0.0010	<0.0010	0.011	<0.0010	0.047	<0.0010	--	--	1	1	--
Copper	<0.0020	<0.0020	0.017	0.0027	0.080	<0.0020	--	--	0.65	0.65	--
Cyanide	0.018	--	<0.0050	--	<0.0050	--	--	--	0.2	0.6	--
Iron	<0.10	0.45	**20**	1.4	**97**	0.68	--	--	5	5	--
Lead	<0.00050	0.00054	0.031	0.0031	**0.13**	0.00083	--	--	0.0075	0.1	--
Magnesium	<0.20	0.63	83	29	140	75	--	--	--	--	--
Manganese	0.0084	0.055	0.93	0.28	3.1	0.12	**31**	0.62	0.15	10	--
Mercury	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	--	--	0.002	0.01	0.060(2)
Nickel	<0.0020	0.0048	0.016	<0.0020	0.094	0.0063	--	--	0.1	2	--
Potassium	43	57	16	15	19	11	--	--	--	--	--
Selenium	0.014	0.018	0.0042	<0.0025	0.012	0.0060	--	--	0.05	0.05	--
Silver	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	--	--	0.05	--	--
Sodium	90	89	44	45	12	11	--	--	--	--	--
Thallium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	--	--	0.002	0.02	--
Vanadium	0.0093	0.0074	0.021	<0.0050	0.089	<0.0050	--	--	0.049	0.1	--
Zinc	<0.020	<0.020	0.082	<0.020	0.31	<0.020	--	--	5	10	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Pursuant to 35 IAC 742, the inhalation objective only applies at sites where elemental mercury is a contaminant of concern

TABLE NO. 14 (4 of 7)
Groundwater Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID	MW-314				MW-315				MW-316		Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Collection Date	2/17/25		3/17/25 *		2/17/25		3/17/25 *		2/13/25		Class I	Class II	Indoor Inhalation - Industrial/ Commercial
Method	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved			
Aluminum (1)	**27.8**	<0.0170	--	--	**15.5**	0.0371	--	--	**46.6**	1.5	3.5	5	--
Antimony	0.00494	<0.00480	--	--	<0.00480	<0.00480	--	--	<0.00480	<0.00480	0.006	0.024	--
Arsenic	0.0287	<0.00560	--	--	0.0129	<0.00560	--	--	0.0591	<0.00560	0.05	0.2	--
Barium	0.163	0.0516	--	--	0.118	0.0279	--	--	0.398	0.0449	2	2	--
Beryllium	0.00168	<0.000390	--	--	0.00104	<0.000390	--	--	0.00485	<0.000390	0.004	0.5	--
Cadmium	<0.000590	<0.000590	--	--	<0.000590	<0.000590	--	--	<0.000590	<0.000590	0.005	0.05	--
Calcium	475	169	--	--	157	70.3	--	--	872	53	--	--	--
Chromium	0.0559	<0.00300	--	--	0.0244	<0.00300	--	--	0.101	0.00446	0.1	1	--
Cobalt	0.0298	<0.000570	--	--	0.00477	<0.000570	--	--	0.0523	0.00123	1	1	--
Copper	0.132	<0.00530	--	--	0.0338	<0.00530	--	--	0.101	<0.00530	0.65	0.65	--
Cyanide	0.00914	--	--	--	0.0510	--	--	--	0.00235	--	0.2	0.6	--
Iron	**65**	0.196	--	--	**49**	0.235	--	--	**179**	4.31	5	5	--
Lead	0.0883	<0.00130	--	--	0.0834	<0.00130	--	--	**0.116**	0.00387	0.0075	0.1	--
Magnesium	132	9.77	--	--	22	2.43	--	--	337	25.2	--	--	--
Manganese	1.69	0.00978	--	--	1.88	0.118	--	--	5.6	0.114	0.15	10	--
Mercury	<0.000086	<0.000086	--	--	0.000235	<0.000086	--	--	0.000184	<0.000086	0.002	0.01	0.060(2)
Nickel	0.0567	<0.00390	--	--	0.0107	<0.00390	--	--	0.0835	<0.00390	0.1	2	--
Potassium	38.1	31.2	--	--	27.6	25.6	--	--	23.5	10.9	--	--	--
Selenium	0.0347	0.00773	--	--	<0.00570	<0.00570	--	--	0.0094	<0.00570	0.05	0.05	--
Silver	<0.00210	<0.00210	--	--	<0.00210	<0.00210	--	--	<0.00210	<0.00210	0.05	--	--
Sodium	412	415	--	--	32.8	32.3	--	--	38.8	15.9	--	--	--
Thallium	**0.0842**	**0.0819**	<0.0020	<0.0020	**0.0582**	**0.0559**	<0.0020	<0.0020	**0.0201**	0.00711	0.002	0.02	--
Vanadium	0.0898	0.00379	--	--	0.0197	0.00182	--	--	**0.14**	0.00549	0.049	0.1	--
Zinc	0.362	0.00128	--	--	0.192	0.000579	--	--	0.385	<0.0120	5	10	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
* monitoring well resampled using low-flow procedures
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Pursuant to 35 IAC 742, the inhalation objective only applies at sites where elemental mercury is a contaminant of concern

TABLE NO. 14 (5 of 7)
Groundwater Sample Analytical Results: TCL Metals
8080 S. Lake Shore Dr. / Chicago, IL

Sample ID	MW-317		MW-318		MW-101				MW-102		Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Collection Date	2/13/25		2/13/25		2/17/25		3/17/25 *		10/23/24		Class I	Class II	Indoor Inhalation - Industrial/ Commercial
Method	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved			
Aluminum (1)	45.3	0.164	49.6	0.523	0.7	0.388	--	--	**3.7**	<0.10	3.5	5	--
Antimony	**0.036**	<0.00480	<0.00480	0.00535	<0.00480	<0.00480	--	--	<0.0030	<0.0030	0.006	0.024	--
Arsenic	0.129	0.00652	0.0281	0.00681	<0.00560	<0.00560	--	--	0.0030	<0.0010	0.05	0.2	--
Barium	0.752	0.0837	0.641	0.023	0.0312	0.0281	--	--	0.081	0.056	2	2	--
Beryllium	0.00771	<0.000390	0.00725	<0.000390	<0.000390	<0.000390	--	--	<0.0010	<0.0010	0.004	0.5	--
Cadmium	0.0131	<0.000590	0.000645	<0.000590	<0.000590	<0.000590	--	--	<0.00050	<0.00050	0.005	0.05	--
Calcium	285	165	414	56	143	148	--	--	150	120	--	--	--
Chromium	0.148	<0.00300	0.0758	<0.00300	0.00315	<0.00300	--	--	0.013	<0.0050	0.1	1	--
Cobalt	0.0352	0.000601	0.0179	<0.000570	<0.000570	<0.000570	--	--	0.0051	0.0015	1	1	--
Copper	0.166	<0.00530	0.101	<0.00530	<0.00530	<0.00530	--	--	0.075	0.028	0.65	0.65	--
Cyanide	0.135	--	0.0431	--	<0.00200	--	--	--	<0.0050	--	0.2	0.6	--
Iron	**618**	1.39	**77.8**	0.295	0.119	<0.0520	--	--	**8.1**	<0.10	5	5	--
Lead	**1.45**	0.00345	**0.181**	<0.00130	<0.00130	<0.00130	--	--	0.0061	<0.00050	0.0075	0.1	--
Magnesium	53.4	26.4	75.5	0.112	1.34	0.143	--	--	98	86	--	--	--
Manganese	**19**	0.572	7.39	<0.00790	0.00864	<0.00790	--	--	0.56	0.26	0.15	10	--
Mercury	0.0013	<0.000086	0.000427	<0.000086	<0.000086	<0.000086	--	--	<0.00020	<0.00020	0.002	0.01	0.060(2)
Nickel	0.106	<0.00390	0.0716	0.00497	<0.00390	<0.00390	--	--	0.012	0.0031	0.1	2	--
Potassium	41.3	48	19.2	12.3	19.3	18.9	--	--	8.6	7.6	--	--	--
Selenium	0.00821	<0.00570	0.0155	0.00773	0.00837	0.007	--	--	<0.0025	<0.0025	0.05	0.05	--
Silver	<0.00210	<0.00210	<0.00210	<0.00210	<0.00210	<0.00210	--	--	<0.00050	<0.00050	0.05	--	--
Sodium	29.8	32.7	19.8	15.8	15	14.9	--	--	13	13	--	--	--
Thallium	**0.0387**	0.0159	0.0182	0.00492	**0.0737**	**0.0722**	<0.0020	<0.0020	<0.0020	<0.0020	0.002	0.02	--
Vanadium	**0.188**	<0.00120	0.091	0.0133	0.00169	0.00154	--	--	0.0080	<0.0050	0.049	0.1	--
Zinc	1.98	<0.0120	0.42	<0.0120	<0.0120	<0.0120	--	--	0.034	<0.020	5	10	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
* monitoring well resampled using low-flow procedures
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Pursuant to 35 IAC 742, the inhalation objective only applies at sites where elemental mercury is a contaminant of concern

TABLE NO. 14 (6 of 7) Groundwater Sample Analytical Results: TCL Metals 8080 S. Lake Shore Dr. / Chicago, IL											Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-102D**		**MW-104D**		**MW-106**				**MW-204**		**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/23/24**		**2/17/25**		**2/18/25**		**3/17/25 ***		**10/23/24**				
Method	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**			
Aluminum (1)	**3.6**	<0.10	0.952	0.663	0.788	<0.0170	--	--	0.14	<0.10	3.5	5	--
Antimony	<0.0030	<0.0030	<0.00480	<0.00480	<0.00480	<0.00480	--	--	<0.0030	<0.0030	0.006	0.024	--
Arsenic	0.0057	0.0020	0.0078	0.00897	<0.00560	<0.00560	--	--	0.0035	0.0011	0.05	0.2	--
Barium	0.073	0.049	0.0426	0.0351	0.113	0.0889	--	--	0.046	0.041	2	2	--
Beryllium	<0.0010	<0.0010	<0.000390	<0.000390	<0.000390	<0.000390	--	--	<0.0010	<0.0010	0.004	0.5	--
Cadmium	<0.00050	<0.00050	<0.000590	<0.000590	<0.000590	<0.000590	--	--	<0.00050	<0.00050	0.005	0.05	--
Calcium	150	120	69.7	53.6	133	124	--	--	94	86	--	--	--
Chromium	0.0083	<0.0050	<0.00300	<0.00300	0.00379	<0.00300	--	--	<0.0050	<0.0050	0.1	1	--
Cobalt	0.0039	<0.0010	<0.000570	<0.000570	0.000683	<0.000570	--	--	0.0016	0.0013	1	1	--
Copper	0.013	<0.0020	<0.00530	<0.00530	0.00846	<0.00530	--	--	0.023	0.0046	0.65	0.65	--
Cyanide	<0.0050	--	0.00751	--	<0.00200	--	--	--	<0.0050	--	0.2	0.6	--
Iron	**9.9**	0.13	0.352	<0.0520	2.91	<0.0520	--	--	1.5	<0.10	5	5	--
Lead	0.0033	<0.00050	0.00136	<0.00130	0.00948	<0.00130	--	--	0.00059	<0.00050	0.0075	0.1	--
Magnesium	99	83	0.609	0.933	34.2	32	--	--	52	48	--	--	--
Manganese	0.98	0.57	0.0179	<0.00790	1.37	1.25	--	--	0.056	0.040	0.15	10	--
Mercury	<0.00020	<0.00020	<0.000086	<0.000086	0.00011	<0.000086	--	--	<0.00020	<0.00020	0.002	0.01	0.060(2)
Nickel	0.0066	<0.0020	<0.00390	<0.00390	<0.00390	<0.00390	--	--	0.0020	<0.0020	0.1	2	--
Potassium	8.3	6.9	27.8	27.9	46.7	45.6	--	--	12	11	--	--	--
Selenium	<0.0025	<0.0025	<0.00570	<0.00570	<0.00570	<0.00570	--	--	<0.0025	<0.0025	0.05	0.05	--
Silver	<0.00050	<0.00050	<0.00210	<0.00210	<0.00210	<0.00210	--	--	<0.00050	<0.00050	0.05	--	--
Sodium	16	16	37.6	39.8	40.2	39.7	--	--	13	12	--	--	--
Thallium	<0.0020	<0.0020	0.00861	0.0101	**0.0315**	**0.0301**	<0.0020	<0.0020	<0.0020	<0.0020	0.002	0.02	--
Vanadium	0.0089	<0.0050	0.0038	0.00291	0.00439	0.00134	--	--	<0.0050	<0.0050	0.049	0.1	--
Zinc	<0.020	<0.020	<0.0120	<0.0120	0.0301	<0.0120	--	--	<0.020	<0.020	5	10	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
* monitoring well resampled using low-flow procedures
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Pursuant to 35 IAC 742, the inhalation objective only applies at sites where elemental mercury is a contaminant of concern

TABLE NO. 14 (7 of 7) Groundwater Sample Analytical Results: TCL Metals 8080 S. Lake Shore Dr. / Chicago, IL					Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**EW-3[oo]**		**NWM-4**		**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/21/24**		**10/21/24**				
Method	**Total**	**Dissolved**	**Total**	**Dissolved**			
Aluminum (1)	**17**	0.18	**21**	0.41	3.5	5	--
Antimony	0.0053	<0.0030	0.011	<0.0030	0.006	0.024	--
Arsenic	0.012	<0.0010	0.062	0.0023	0.05	0.2	--
Barium	0.15	0.035	0.32	0.022	2	2	--
Beryllium	<0.0010	<0.0010	0.0029	<0.0010	0.004	0.5	--
Cadmium	0.00080	<0.00050	0.0045	<0.00050	0.005	0.05	--
Calcium	130	89	210	37	--	--	--
Chromium	0.036	<0.0050	0.12	<0.0050	0.1	1	--
Cobalt	0.0091	<0.0010	0.022	<0.0010	1	1	--
Copper	0.085	<0.0020	0.22	0.0029	0.65	0.65	--
Cyanide	<0.0050	--	<0.0050	--	0.2	0.6	--
Iron	**39**	1.3	**86**	1.7	5	5	--
Lead	**0.19**	0.0023	**0.56**	0.0059	0.0075	0.1	--
Magnesium	34	22	76	9.8	--	--	--
Manganese	1.0	0.33	4.9	0.17	0.15	10	--
Mercury	<0.00020	<0.00020	0.00049	<0.00020	0.002	0.01	0.060(2)
Nickel	0.023	<0.0020	0.061	<0.0020	0.1	2	--
Potassium	7.0	3.4	13	1.6	--	--	--
Selenium	<0.0025	<0.0025	0.0080	<0.0025	0.05	0.05	--
Silver	<0.00050	<0.00050	0.00056	<0.00050	0.05	--	--
Sodium	130	5.1	140	2.4	--	--	--
Thallium	<0.0020	<0.0020	<0.0020	<0.0020	0.002	0.02	--
Vanadium	0.034	<0.0050	0.084	<0.0050	0.049	0.1	--
Zinc	0.25	<0.020	1.1	<0.020	5	10	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
[oo] former extraction well erroneously identified as NW-2 in lab report
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)
(2) Pursuant to 35 IAC 742, the inhalation objective only applies at sites where elemental mercury is a contaminant of concern

TABLE NO. 15 (1 of 3) Groundwater Sample Analytical Results: Pesticides 8080 S. Lake Shore Dr. / Chicago, IL										Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-301**	**MW-302**	**MW-303**	**MW-304**	**MW-305**	**MW-306**	**MW-307**	**MW-308**	**MW-309**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/21/24**	**10/22/24**	**10/22/24**	**10/22/24**	**10/23/24**	**10/23/24**	**10/24/24**	**12/11/24**	**12/11/24**			
4,4'-DDD	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	0.014	0.07	--
4,4'-DDE	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	0.01	0.05	--
4,4'-DDT	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	0.006	0.03	--
Aldrin	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	0.014	0.07	--
alpha-BHC (a-HCH)	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	0.00011	0.00055	--
alpha-Chlordane	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	--	--	--
b-BHC (1)	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	0.000047	0.00024	--
Chlordane	<0.00021	<0.00020	<0.00024	<0.00020	<0.00023	<0.00025	<0.00021	<0.00026	<0.00022	0.002	0.01	--
d-BHC	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	--	--	--
Dieldrin	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	0.009	0.045	--
Endosulfan I	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	--	--	--
Endosulfan II	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	--	--	--
Endosulfan Sulfate (1)	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	0.042	0.21	--
Endrin	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	0.002	0.01	--
Endrin Aldehyde	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	--	--	--
Endrin Ketone	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	--	--	--
g-BHC (Lindane)	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	0.0002	0.001	--
gamma-Chlordane	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	--	--	--
Heptachlor	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	0.0004	0.002	0.0096
Heptachlor Epoxide	<0.00010	<0.00010	<0.00012	<0.00010	<0.00012	<0.00012	<0.00011	<0.00013	<0.00011	0.0002	0.001	--
Methoxychlor	<0.00021	<0.00020	<0.00024	<0.00020	<0.00023	<0.00025	<0.00021	<0.00026	<0.00022	0.04	0.2	--
Toxaphene	<0.0010	<0.0010	<0.0012	<0.0010	<0.0012	<0.0012	<0.0011	<0.0013	<0.0011	0.003	0.015	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 15 (2 of 3) Groundwater Sample Analytical Results: Pesticides 8080 S. Lake Shore Dr. / Chicago, IL									Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-310**	**MW-311**	**MW-312**	**MW-314**	**MW-315**	**MW-316**	**MW-317**	**MW-318**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**12/11/24**	**12/11/24**	**12/12/24**	**2/17/25**	**2/17/25**	**2/13/25**	**2/13/25**	**2/13/25**			
4,4'-DDD	<0.000098	<0.000098	<0.000098	<0.0000160	0.0000244	<0.0000154	<0.0000155	<0.0000150	0.014	0.07	--
4,4'-DDE	<0.000098	<0.000098	<0.000098	<0.0000107	<0.0000102	<0.0000103	<0.0000104	<0.0000100	0.01	0.05	--
4,4'-DDT	<0.000098	<0.000098	<0.000098	<0.0000160	0.0000212	<0.0000154	<0.0000155	<0.0000150	0.006	0.03	--
Aldrin	<0.000098	<0.000098	<0.000098	<0.00000963	<0.00000914	<0.00000923	<0.00000933	<0.00000900	0.014	0.07	--
alpha-BHC (a-HCH)	<0.000098	<0.000098	<0.000098	<0.00000642	<0.00000609	<0.00000615	<0.00000622	<0.00000600	0.00011	0.00055	--
alpha-Chlordane	<0.000098	<0.000098	<0.000098	<0.00000535	<0.00000508	<0.00000513	<0.00000518	<0.00000500	--	--	--
b-BHC (1)	<0.000098	<0.000098	<0.000098	<0.00000749	0.0000191	<0.00000718	<0.00000725	0.0000146	0.000047	0.00024	--
Chlordane	<0.00020	<0.00020	<0.00020	<0.0000107	<0.0000102	<0.00103	<0.00104	<0.00100	0.002	0.01	--
d-BHC	<0.000098	<0.000098	<0.000098	<0.00000749	<0.00000711	<0.00000718	<0.00000725	<0.00000700	--	--	--
Dieldrin	<0.000098	<0.000098	<0.000098	<0.0000139	0.0000505	<0.0000133	<0.0000135	<0.0000130	0.009	0.045	--
Endosulfan I	<0.000098	<0.000098	<0.000098	<0.00000642	0.0000130	<0.00000615	<0.00000622	<0.00000600	--	--	--
Endosulfan II	<0.000098	<0.000098	<0.000098	<0.0000160	0.0000215	<0.0000154	<0.0000155	<0.0000150	--	--	--
Endosulfan Sulfate (1)	<0.000098	<0.000098	<0.000098	<0.0000160	0.0000549	<0.0000154	<0.0000155	<0.0000150	0.042	0.21	--
Endrin	<0.000098	<0.000098	<0.000098	<0.0000160	0.0000226	<0.0000154	<0.0000155	<0.0000150	0.002	0.01	--
Endrin Aldehyde	<0.000098	<0.000098	<0.000098	<0.0000160	0.0000227	<0.0000154	<0.0000155	<0.0000150	--	--	--
Endrin Ketone	<0.000098	<0.000098	<0.000098	<0.0000150	0.0000695	<0.0000144	<0.0000145	<0.0000140	--	--	--
g-BHC (Lindane)	<0.000098	<0.000098	<0.000098	<0.00000642	0.0000244	0.0000267	<0.00000622	0.0000300	0.0002	0.001	--
gamma-Chlordane	<0.000098	<0.000098	<0.000098	<0.0000107	<0.0000102	<0.00103	<0.00104	<0.00100	--	--	--
Heptachlor	<0.000098	<0.000098	<0.000098	<0.00000535	<0.00000508	<0.00000513	<0.00000518	<0.00000500	0.0004	0.002	0.0096
Heptachlor Epoxide	<0.000098	<0.000098	<0.000098	<0.00000749	0.0000143	<0.00000718	<0.00000725	<0.00000700	0.0002	0.001	--
Methoxychlor	<0.00020	<0.00020	<0.00020	<0.000102	<0.0000964	<0.0000974	<0.0000984	<0.0000950	0.04	0.2	--
Toxaphene	<0.00098	<0.00098	<0.00098	<0.000118	<0.000112	<0.000113	<0.000114	<0.000110	0.003	0.015	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 15 (3 of 3) Groundwater Sample Analytical Results: Pesticides 8080 S. Lake Shore Dr. / Chicago, IL									Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-101**	**MW-102**	**MW-102D**	**MW-104D**	**MW-106**	**MW-204**	**EW-3[oo]**	**NMW-4**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/17/25**	**10/23/24**	**10/23/24**	**2/17/25**	**2/18/25**	**10/23/24**	**10/21/24**	**10/21/24**			
4,4'-DDD	<0.0000159	<0.000096	<0.000095	<0.0000152	<0.0000154	<0.000098	<0.000095	<0.00010	0.014	0.07	--
4,4'-DDE	<0.0000106	<0.000096	<0.000095	<0.0000102	<0.0000103	<0.000098	<0.000095	<0.00010	0.01	0.05	--
4,4'-DDT	<0.0000159	<0.000096	<0.000095	0.0000221	<0.0000154	<0.000098	<0.000095	<0.00010	0.006	0.03	--
Aldrin	<0.00000952	<0.000096	<0.000095	<0.00000914	<0.00000923	<0.000098	<0.000095	<0.00010	0.014	0.07	--
alpha-BHC (a-HCH)	<0.00000635	<0.000096	<0.000095	<0.00000609	<0.00000615	<0.000098	<0.000095	<0.00010	0.00011	0.00055	--
alpha-Chlordane	<0.00000529	<0.000096	<0.000095	<0.00000508	<0.00000513	<0.000098	<0.000095	<0.00010	--	--	--
b-BHC (1)	<0.00000741	<0.000096	<0.000095	<0.00000711	<0.00000718	<0.000098	<0.000095	<0.00010	0.000047	0.00024	--
Chlordane	<0.000106	<0.00019	<0.00019	<0.000102	<0.000103	<0.00020	<0.00019	<0.00021	0.002	0.01	--
d-BHC	<0.00000741	<0.000096	<0.000095	<0.00000711	<0.00000718	<0.000098	<0.000095	<0.00010	--	--	--
Dieldrin	<0.0000138	<0.000096	<0.000095	<0.0000132	<0.0000133	<0.000098	<0.000095	<0.00010	0.009	0.045	--
Endosulfan I	<0.00000635	<0.000096	<0.000095	<0.00000609	<0.00000615	<0.000098	<0.000095	<0.00010	--	--	--
Endosulfan II	<0.0000159	<0.000096	<0.000095	<0.0000152	<0.0000154	<0.000098	<0.000095	<0.00010	--	--	--
Endosulfan Sulfate (1)	<0.0000159	<0.000096	<0.000095	<0.0000152	<0.0000154	<0.000098	<0.000095	<0.00010	0.042	0.21	--
Endrin	<0.0000159	<0.000096	<0.000095	<0.0000152	<0.0000154	<0.000098	<0.000095	<0.00010	0.002	0.01	--
Endrin Aldehyde	<0.0000159	<0.000096	<0.000095	<0.0000152	<0.0000154	<0.000098	<0.000095	<0.00010	--	--	--
Endrin Ketone	<0.0000148	<0.000096	<0.000095	<0.0000142	<0.0000144	<0.000098	<0.000095	<0.00010	--	--	--
g-BHC (Lindane)	<0.00000635	<0.000096	<0.000095	<0.00000609	<0.00000615	<0.000098	<0.000095	<0.00010	0.0002	0.001	--
gamma-Chlordane	<0.0000106	<0.000096	<0.000095	<0.0000102	<0.0000103	<0.000098	<0.000095	<0.00010	--	--	--
Heptachlor	<0.00000529	<0.000096	<0.000095	<0.00000508	<0.00000513	<0.000098	<0.000095	<0.00010	0.0004	0.002	0.0096
Heptachlor Epoxide	<0.00000741	<0.000096	<0.000095	<0.00000711	<0.00000718	<0.000098	<0.000095	<0.00010	0.0002	0.001	--
Methoxychlor	<0.000101	<0.00019	<0.00019	<0.0000964	<0.0000974	<0.00020	<0.00019	<0.00021	0.04	0.2	--
Toxaphene	<0.000116	<0.00096	<0.00095	<0.000112	<0.000113	<0.00098	<0.00095	<0.0010	0.003	0.015	--

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
[oo] former extraction well erroneously identified as NW-2 in lab report
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (May 2022)

TABLE NO. 16 (1 of 5) Groundwater Sample Analytical Results: PCBs 8080 S. Lake Shore Dr. / Chicago, IL							Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-301**	**MW-302**	**MW-303**	**MW-304**	**MW-305**	**MW-306**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/21/24**	**10/22/24**	**10/22/24**	**10/22/24**	**10/23/24**	**10/23/24**			
Aroclor 1016	<0.0010	<0.0010	<0.0012	<0.0010	<0.0012	<0.0012	--	--	--
Aroclor 1221	<0.0010	<0.0010	<0.0012	<0.0010	<0.0012	<0.0012	--	--	--
Aroclor 1232	<0.0010	<0.0010	<0.0012	<0.0010	<0.0012	<0.0012	--	--	--
Aroclor 1242	<0.0010	<0.0010	<0.0012	<0.0010	<0.0012	<0.0012	--	--	--
Aroclor 1248	<0.0010	<0.0010	<0.0012	<0.0010	<0.0012	<0.0012	--	--	--
Aroclor 1254	<0.0010	<0.0010	<0.0012	<0.0010	<0.0012	<0.0012	--	--	--
Aroclor 1260	<0.0010	<0.0010	<0.0012	<0.0010	<0.0012	<0.0012	--	--	--
Total PCBs	<0.0010	<0.0010	<0.0012	<0.0010	<0.0012	<0.0012	0.0005	0.0025	--(1)

TABLE NO. 16 (2 of 5) Groundwater Sample Analytical Results: PCBs 8080 S. Lake Shore Dr. / Chicago, IL							Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-307**	**MW-308**	**MW-309**	**MW-310**	**MW-311**	**MW-312**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/24/24**	**12/11/24**	**12/11/24**	**12/11/24**	**12/11/24**	**12/12/24**			
Aroclor 1016	<0.0011	<0.0013	<0.0011	<0.0098	<0.00098	<0.00098	--	--	--
Aroclor 1221	<0.0011	<0.0013	<0.0011	<0.0098	<0.00098	<0.00098	--	--	--
Aroclor 1232	<0.0011	<0.0013	<0.0011	<0.0098	<0.00098	<0.00098	--	--	--
Aroclor 1242	<0.0011	<0.0013	<0.0011	<0.0098	<0.00098	<0.00098	--	--	--
Aroclor 1248	<0.0011	<0.0013	<0.0011	<0.0098	<0.00098	<0.00098	--	--	--
Aroclor 1254	<0.0011	<0.0013	<0.0011	<0.0098	<0.00098	<0.00098	--	--	--
Aroclor 1260	<0.0011	<0.0013	<0.0011	<0.0098	<0.00098	<0.00098	--	--	--
Total PCBs	<0.0011	<0.0013	<0.0011	<0.0098	<0.00098	<0.00098	0.0005	0.0025	--(1)

TABLE NO. 16 (3 of 5) Groundwater Sample Analytical Results: PCBs 8080 S. Lake Shore Dr. / Chicago, IL						Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-314**	**MW-315**	**MW-316**	**MW-317**	**MW-318**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/17/25**	**2/17/25**	**2/13/25**	**2/13/25**	**2/13/25**			
Aroclor 1016	<0.0000370	<0.0000370	<0.0000370	<0.0000370	<0.0000370	--	--	--
Aroclor 1221	<0.0000180	<0.0000180	<0.0000180	<0.0000180	<0.0000180	--	--	--
Aroclor 1232	<0.0000240	<0.0000240	<0.0000240	<0.0000240	<0.0000240	--	--	--
Aroclor 1242	<0.0000240	<0.0000240	<0.0000240	<0.0000240	<0.0000240	--	--	--
Aroclor 1248	<0.0000290	<0.0000290	<0.0000290	<0.0000290	<0.0000290	--	--	—
Aroclor 1254	<0.0000170	<0.0000170	<0.0000170	<0.0000170	<0.0000170	--	--	--
Aroclor 1260	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	--	--	--
Total PCBs	<0.0000370	<0.0000370	<0.0000370	<0.0000370	<0.0000370	0.0005	0.0025	--(1)

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
(1) Consult with the Illinois EPA to determine appropriate values to use for the physical/chemical and toxicity parameters in calculating Tier 2 or Tier 3 GROs

TABLE NO. 16 (4 of 5) Groundwater Sample Analytical Results: PCBs 8080 S. Lake Shore Dr. / Chicago, IL						Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-101**	**MW-102**	**MW-102D**	**MW-104D**	**MW-106**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**2/17/25**	**10/23/24**	**10/23/24**	**2/17/25**	**2/18/25**			
Aroclor 1016	<0.0000370	<0.00096	<0.00095	<0.0000370	<0.0000370	--	--	--
Aroclor 1221	<0.0000180	<0.00096	<0.00095	<0.0000180	<0.0000180	--	--	--
Aroclor 1232	<0.0000240	<0.00096	<0.00095	<0.0000240	<0.0000240	--	--	--
Aroclor 1242	<0.0000240	<0.00096	<0.00095	<0.0000240	<0.0000240	--	--	--
Aroclor 1248	<0.0000290	<0.00096	<0.00095	<0.0000290	<0.0000290	--	--	--
Aroclor 1254	<0.0000170	<0.00096	<0.00095	<0.0000170	<0.0000170	--	--	--
Aroclor 1260	<0.0000250	<0.00096	<0.00095	<0.0000250	<0.0000250	--	--	--
Total PCBs	<0.0000370	<0.00096	<0.00095	<0.0000370	<0.0000370	0.0005	0.0025	--(1)

TABLE NO. 16 (5 of 5) Groundwater Sample Analytical Results: PCBs 8080 S. Lake Shore Dr. / Chicago, IL				Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-204**	**EW-3^{oo}**	**NMW-4**	**Class I**	**Class II**	**Indoor Inhalation - Industrial/ Commercial**
Collection Date	**10/23/24**	**10/21/24**	**10/21/24**			
Aroclor 1016	<0.00098	<0.00095	<0.0010	--	--	--
Aroclor 1221	<0.00098	<0.00095	<0.0010	--	--	--
Aroclor 1232	<0.00098	<0.00095	<0.0010	--	--	--
Aroclor 1242	<0.00098	<0.00095	<0.0010	--	--	--
Aroclor 1248	<0.00098	<0.00095	<0.0010	--	--	--
Aroclor 1254	<0.00098	<0.00095	<0.0010	--	--	--
Aroclor 1260	<0.00098	<0.00095	<0.0010	--	--	--
Total PCBs	<0.00098	<0.00095	<0.0010	0.0005	0.0025	--(1)

Notes: Results in mg/L (parts per million)
Shaded/Bolded cell indicates value exceeds an applicable Tier 1 GRO
^{oo} former extraction well erroneously identified as NW-2 in lab report
< indicates not detected at stated detection limits
-- indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
(1) Consult with the Illinois EPA to determine appropriate values to use for the physical/chemical and toxicity parameters in calculating Tier 2 or Tier 3 GROs

TABLE NO. 17 Soil Gas Sample Analytical Results: VOCs 8080 S. Lake Shore Dr. / Chicago, IL				Tier 1 Soil Gas Remediation Objectives (Tier 1 SGROs)		
Sample ID	**SG-1**	**SG-2**	**SG-3**	**Outdoor Inhalation[1]**		**Indoor Inhalation Diffusion and Advection[2]**
Collection Date	**2/13/25**	**3/19/25**	**3/20/25**	**Residential**	**Construction Worker**	**Industrial-Commercial**
Carbon tetrachloride	0.0552	--	--	290	770	1.5
Naphthalene	--	0.0755	--	560	5.8	0.75
Vinyl chloride	--	--	0.0015	780	3,000	4.8

Notes: Results listed in mg/m^3

EPA test method TO-15

Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 Remediation Objective (RO)

< indicates not detected at stated detection limits

-- indicates value is not available

(1) SGROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table G)

(2) SGROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)

Spreadsheet 1-A: Non-TACO SROs

Industrial/Commercial Soil Ingestion for Noncarcinogenic Contaminants
SSL Equation S1

	VOCs			SVOCs (excluding PNAs)										Inorganic Parameters
Non-TACO Parameter:	**1,1,2,2-tetrachloroethane**	**2-butanone (MEK)**	**2-hexanone**	**2-chloronaphthalene**	**2-methylnaphthalene**	**2-nitroaniline**	**3-methylphenol (m-Cresol)**	**4-methylphenol (p-Cresol)**	**4,6-dinitro-2-methylphenol**	**4-nitroaniline**	**bis(2-chloroisopropyl) ether**	**dibenzofuran**	**hexachlorobutadiene**	**aluminum**
Default Parameters														
IRsoil (Soil Ingestion Rate) - mg/d Residential=200, Ind/Com=50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
ED (Exposure Duration) - yr Residential=6, Ind/Com=25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
EF (Exposure Frequency) - d/yr Residential=350, Ind/Com=250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
AT (Averaging Time - NonCarcinogens) - yr Residential=6, Ind/Com=25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
BW (Body Weight) - kg Residential=15, Ind/Com=70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
THQ (Target Hazard Quotient) 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Chemical-Specific Parameters														
RfDo (Oral Reference Dose) - mg/kg-d Toxicological Specific - USEPA Regional Screening Level Summary Table (May 2022)	2.0E-02	6.0E-01	5.0E-03	8.0E-02	4.0E-03	1.0E-02	5.0E-02	1.0E-01	8.0E-05	4.0E-03	4.0E-02	1.0E-03	1.0E-03	1.0E+00
SSL Calculation														
S1 (mg/kg or ppm) Remediation Objectives for Noncarcinogenic Contaminants	40,880	1,226,400	10,220	163,520	8,176	20,440	102,200	204,400	164	8,176	81,760	2,044	2,044	2,044,000
Non-TACO SRO - Industrial/Commercial Soil Ingestion (mg/kg or ppm)	**40,880**	**1,000,000(1)**	**10,220**	**163,520**	**8,176**	**20,440**	**102,200**	**204,400**	**164**	**8,176**	**81,760**	**2,044**	**2,044**	**1,000,000(1)**

(1) Calculated SRO Defaults to 1,000,000 mg/kg

Spreadsheet 1-B: Non-TACO SROs

Industrial/Commercial Soil Ingestion for Carcinogenic Contaminants
SSL Equation S3

	VOCs
Non-TACO Parameter:	**1,1,2,2-Tetrachloroethane**
Default Parameters	
IRsoil (Soil Ingestion Rate) - mg/d Residential=200, Ind/Com=50	50
ED (Exposure Duration) - yr Residential=6, Ind/Com=25	25
EF (Exposure Frequency) - d/yr Residential=350, Ind/Com=250	250
AT (Averaging Time - Carcinogens) - yr 70	70
BW (Body Weight) - kg Residential=15, Ind/Com=70	70
TR (Target Cancer Risk) Residential or Ind/Com = 10-6	1.0E-06
Chemical-Specific Parameters	
Sfo (Oral Slope Factor) - mg/kg-d Toxicological Specific - USEPA Regional Screening Level Summary Table (May 2022)	2.0E-01
SSL Calculation	
S3 (mg/kg or ppm) Remediation Objectives for Carcinogenic Contaminants	28.616

Non-TACO SRO - Industrial/Commercial Soil Ingestion (mg/kg or ppm)	**28.6**

Spreadsheet 2-A: Non-TACO SROs

Construction Worker Soil Ingestion for Noncarcinogenic Contaminants
SSL Equation S1

	VOCs					SVOCs (excluding PNAs)										Inorganic Parameters
Non-TACO Parameter:	**1,1,2,2-tetrachloroethane**	**2-butanone (MEK)**	**2-hexanone**	**4-methyl-2-pentanone (MIBK)**	**Chloroethane a.k.a. ethyl chloride**	**2-chloronaphthalene**	**2-methylnaphthalene**	**2-nitroaniline**	**3-methylphenol (m-Cresol)**	**4-methylphenol (p-Cresol)**	**4,6-dinitro-2-methylphenol**	**4-nitroaniline**	**bis(2-chloroisopropyl) ether**	**dibenzofuran**	**hexachlorobutadiene**	**aluminum**
Default Parameters																
IRsoil (Soil Ingestion Rate) - mg/d Construction Worker=480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480
ED (Exposure Duration) - yr Construction Worker=1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EF (Exposure Frequency) - d/yr Construction Worker=30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
AT (Averaging Time - NonCarcinogens) - yr Construction Worker=0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
BW (Body Weight) - kg Construction Worker=70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
THQ (Target Hazard Quotient) 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Chemical-Specific Parameters																
RfDs (Subchronic Oral Reference Dose) - mg/kg-d Toxicological Specific - USEPA Regional Screening Level Subchronic Toxicity Values Table (May 2022)	5.0E-01	2.0E+00	5.0E-03	8.0E-01	1.0E-01	2.0E-01	4.0E-03	1.0E-01	5.0E-01	2.0E-02	8.0E-04	1.0E-02	1.0E-03	4.0E-03	1.0E-03	1.0E+00
SSL Calculation																
S1 (mg/kg or ppm) Remediation Objectives for Noncarcinogenic Contaminants	102,022.57	408,090.28	1,020.23	163,236.11	20,404.51	40,809.03	816.18	20,404.51	102,022.57	4,080.90	163.24	2,040.45	204.05	816.18	204.05	204,045.14

Non-TACO SRO - Construction Worker Soil Ingestion (mg/kg or ppm)	**102,023**	**408,090**	**1,020**	**163,236**	**20,405**	**40,809**	**816**	**20,405**	**102,023**	**4,081**	**163**	**2,040**	**204**	**816**	**204**	**204,045**

Spreadsheet 2-B: Non-TACO SROs

Construction Worker Soil Ingestion for Carcinogenic Contaminants
SSL Equation S3

	VOCs
Non-TACO Parameter:	**1,1,2,2-Tetrachloroethane**
Default Parameters	
IRsoil (Soil Ingestion Rate) - mg/d Construction Worker=480	480
ED (Exposure Duration) - yr Construction Worker=1	1
EF (Exposure Frequency) - d/yr Construction Worker=30	30
AT (Averaging Time - Carcinogens) - yr 70	70
BW (Body Weight) - kg Construction Worker=70	70
TR (Target Cancer Risk) Residential or Ind/Com = 10-6	1.0E-06
Chemical-Specific Parameters	
Sfo (Oral Slope Factor) - mg/kg-d Toxicological Specific - USEPA Regional Screening Level Summary Table (May 2022)	2.0E-01
SSL Calculation	
S3 (mg/kg or ppm) Remediation Objectives for Carcinogenic Contaminants	621.007

Non-TACO SRO - Construction Worker Soil Ingestion (mg/kg or ppm)	**621**

Spreadsheet 3-A: Non-TACO SROs

Industrial/Commercial Outdoor Inhalation for Noncarcinogenic Contaminants
SSL Equation S4

Non-TACO Parameter:	VOCs					SVOCs			
	2-butanone (MEK)	2-hexanone	4-methyl-2-pentanone (MIBK)	chloroethane	chloromethane	2-nitroaniline	3-methylphenol (m-Cresol)	4-methylphenol (p-Cresol)	4-nitroaniline
Default Parameters									
f_{OC} (Organic Carbon Content) - g/g Surface Soil = 0.006 or Site-Specific	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
h (Total Soil Porosity) - Lpore/Lsoil 0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay = 0.36, or Calculated	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Qa (Air Filled Porosity) - Lair/Lsoil Surface Soil (top 1 meter) = 0.28, or Gravel = 0.05, Sand = 0.14, Silt = 0.24, Clay = 0.19 or Calculated	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Qw (Water Filled Porosity) - Lwater/Lsoil Surface Soil (top 1 meter) = 0.15, or Gravel = 0.20, Sand = 0.18, Silt = 0.16, Clay = 0.17 or Calculated	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
ρb (Dry Soil Bulk Density) - kg/L or g/cm3 1.5 or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7 or Site-Specific	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
AT (Averaging Time for Noncarcinogens-Inhalation) - yr Residential = 30, Ind/Com = 25	25	25	25	25	25	25	25	25	25
ED (Exposure Duration) - yr Residential = 30, Ind/Com = 25	25	25	25	25	25	25	25	25	25
EF (Exposure Frequency) - d/yr Residential = 350, Ind/Com = 250	250	250	250	250	250	250	250	250	250
Q/C - (g/m2*s)/(kg/m3) Residential = 68.81, Ind/Com = 85.81	85.81	85.81	85.81	85.81	85.81	85.81	85.81	85.81	85.81
T (Exposure Interval) - s Residential = 9.5e8, Ind/Com = 7.9e8	7.90E+08	7.90E+08	7.90E+08	7.90E+08	7.90E+08	7.90E+08	7.90E+08	7.90E+08	7.90E+08
THQ (Target Hazard Quotient) 1	1	1	1	1	1	1	1	1	1
Chemical-Specific Parameters									
Di (Diffusivity in Air) - cm2/s Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	9.10E-02	7.00E-02	7.00E-02	1.00E-01	1.20E-01	5.20E-02	7.30E-02	7.20E-02	6.40E-02
Dw (Diffusivity in Water) - cm2/s Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	1.00E-05	8.40E-06	8.30E-06	1.20E-05	1.40E-05	7.40E-06	9.30E-06	9.20E-06	9.80E-06
H' (Henry's Law Constant) - unitless Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	2.30E-03	3.80E-03	5.60E-03	4.50E-01	3.60E-01	2.40E-06	3.50E-05	4.10E-05	5.20E-08
Koc (Organic Carbon Partition Coef) - cm3/g or L/kg Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	4.50E+00	1.50E+01	1.30E+01	2.20E+01	1.30E+01	1.10E+02	3.00E+02	3.00E+02	1.10E+02
RfC (Inhalation Reference Concentration) - mg/m3 Toxicological Specific - USEPA Regional Screening Level Summary Table (May 2022)	5.0E+00	3.0E-02	3.0E+00	1.0E+01	9.0E-02	5.0E-05	6.0E-01	6.0E-01	6.0E-03
SSL Calculations									
S8 (Volatilization Factor [VF]) - m3/kg	15,369.04	16,694.75	13,333.83	1,655.47	1,488.33	531,314.67	446,554.62	425,117.97	491,159.31
S10 (Apparent Diffusivity [D_A]) - cm2/s	0.0000859204	0.0000728166	0.0001141511	0.0074053910	0.0091619721	0.0000000719	0.0000001018	0.0000001123	0.0000000841
S19 (Soil-Water Part. Coef. [Kd]) - cm3/g	2.70E-02	9.00E-02	7.80E-02	1.32E-01	7.80E-02	6.60E-01	1.80E+00	1.80E+00	6.60E-01
S4 - Remediation Objectives for Noncarcinogenic Contaminants (mg/kg or ppm)	112,194.00	731.23	58,402.17	24,169.85	195.57	38.79	391,181.85	372,403.34	4,302.56

Non-TACO SRO - Industrial/Commercial Outdoor Inhalation (mg/kg or ppm)	**25,000[1]**	**731.23**	**58,402**	**24,170**	**195.57**	**38.79**	**391,182**	**372,403**	**4,303**

(1) Default Soil Saturation Limit for the Outdoor Inhalation Exposure Route (35 IAC 742)

Spreadsheet 3-B: Non-TACO SROs

Industrial/Commercial Outdoor Inhalation for Carcinogenic Contaminants
SSL Equation S6

	VOCs	SVOCs
Non-TACO Parameter:	**1,1,2,2-Tetrachloroethane**	**Hexachlorobutadiene**
Site Specific Parameters		
f_{OC} (Organic Carbon Content) - g/g Surface Soil = 0.006 or Site Specific	0.006	0.006
η (Total Soil Porosity) - Lpore/Lsoil 0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay = 0.36, or Calculated	0.43	0.43
Θa (Air Filled Porosity) - Lair/Lsoil Surface Soil (top 1 meter) = 0.28 or Gravel = 0.05, Sand = 0.14, Silt = 0.24, Clay = 0.19 or Calculated	0.28	0.28
Θw (Water Filled Porosity) - Lwater/Lsoil Surface Soil (top 1 meter) = 0.15 or Gravel = 0.20, Sand = 0.18, Silt = 0.16, Clay = 0.17 or Calculated	0.15	0.15
ρb (Dry Soil Bulk Density) - kg/L or g/cm3 1.5 or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7 or Site Specific	1.5	1.5
Chemical Specific Parameters		
Di (Diffusivity in Air) - cm2/s Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	4.90E-02	2.70E-02
Dw (Diffusivity in Water) - cm2/s Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	9.30E-06	7.00E-06
H' (Henry's Law Constant) - unitless Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	1.50E-02	4.20E-01
Koc (Organic Carbon Partition Coef) - cm3/g or L/kg Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	9.50E+01	8.50E+02
URF (Inhalation Unit Risk Factor) - (µg/m3)-1 Toxicological Specific - USEPA Regional Screening Level Summary Table (May 2022)	5.8E-05	2.2E-05
Default Parameters		
AT_c (Averaging Time for Carcinogens) - yr 70	70	70
ED (Exposure Duration for Inhalation of Carcinogens) - yr Residential = 30, Ind/Com = 25	25	25
EF (Exposure Frequency) - d/yr Residential = 350, Ind/Com = 250	250	250
Q/C - (g/m2*s)/(kg/m3) Residential = 68.81, Ind/Com = 85.81	85.81	85.81
T (Exposure Interval) - s Residential = 9.5e8, Ind/Com = 7.9e8	7.90E+08	7.90E+08
TR (Target Cancer Risk) 1e-6	1.00E-06	1.00E-06
SSL Calculations		
S8 (Volatilization Factor [VF]) - m3/kg	18,886.30	13,477.79
S10 (Apparent Diffusivity [D_A]) - cm2/s	0.0000568979	0.0001117255
S19 (Soil-Water Part. Coef. [Kd]) - cm3/g	5.70E-01	5.10E+00
S6 - Remediation Objectives for Carcinogenic Contaminants - (mg/kg or ppm)	1.33	2.50

Tier 2 SROs - Industrial/Commercial Outdoor Inhalation (mg/kg or ppm)	**1.33**	**2.50**

Spreadsheet 4-A: Non-TACO SROs

Construction Worker Inhalation for Noncarcinogenic Contaminants
SSL Equation S5

	VOCs					SVOCs			
Non-TACO Parameter:	**2-butanone (MEK)**	**2-hexanone**	**4-methyl-2-pentanone (MIBK)**	**chloroethane**	**chloromethane**	**2-nitroaniline**	**3-methylphenol (m-Cresol)**	**4-methylphenol (p-Cresol)**	**4-nitroaniline**
Default Parameters									
f_{OC} (Organic Carbon Content) - g/g Surface Soil = 0.006 or Site-Specific	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
h (Total Soil Porosity) - Lpore/Lsoil 0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay = 0.36, or Calculated	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Qa (Air Filled Porosity) - Lair/Lsoil Surface Soil (top 1 meter) = 0.28, or Gravel = 0.05, Sand = 0.14, Silt = 0.24, Clay = 0.19 or Calculated	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Qw (Water Filled Porosity) - Lwater/Lsoil Surface Soil (top 1 meter) = 0.15, or Gravel = 0.20, Sand = 0.18, Silt = 0.16, Clay = 0.17 or Calculated	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
ρb (Dry Soil Bulk Density) - kg/L or g/cm3 1.5 or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7 or Site-Specific	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
AT (Averaging Time for Noncarcinogens-Inhalation) - yr Construction Worker = 0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
ED (Exposure Duration) - yr Construction Worker = 1	1	1	1	1	1	1	1	1	1
EF (Exposure Frequency) - d/yr Construction Worker = 30	30	30	30	30	30	30	30	30	30
Q/C - (g/m2*s)/(kg/m3) Construction Worker = 85.81	85.81	85.81	85.81	85.81	85.81	85.81	85.81	85.81	85.81
T (Exposure Interval) - s Construction Worker = 3.6e6	3.60E+06	3.60E+06	3.60E+06	3.60E+06	3.60E+06	3.60E+06	3.60E+06	3.60E+06	3.60E+06
THQ (Target Hazard Quotient) 1	1	1	1	1	1	1	1	1	1
Chemical-Specific Parameters									
Di (Diffusivity in Air) - cm2/s Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	9.10E-02	7.00E-02	7.00E-02	1.00E-01	1.20E-01	5.20E-02	7.30E-02	7.20E-02	6.40E-02
Dw (Diffusivity in Water) - cm2/s Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	1.00E-05	8.40E-06	8.30E-06	1.20E-05	1.40E-05	7.40E-06	9.30E-06	9.20E-06	9.80E-06
H' (Henry's Law Constant) - unitless Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	2.30E-03	3.80E-03	5.60E-03	4.50E-01	3.60E-01	2.40E-06	3.50E-05	4.10E-05	5.20E-08
Koc (Organic Carbon Partition Coef) - cm3/g or L/kg Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	4.50E+00	1.50E+01	1.30E+01	2.20E+01	1.30E+01	1.10E+02	3.00E+02	3.00E+02	1.10E+02
RfCs (Inhalation Subchronic Reference Concentration) - mg/m3 Toxicological Specific - USEPA Regional Screening Level Subchronic Toxicity Values Table (May 2022)	1.0E+00	3.0E-02	8.0E-01	4.0E+00	3.0E+00	4.0E-04	6.0E-01	6.0E-01	2.0E-02
SSL Calculations									
S8 (Volatilization Factor [VF]) - m3/kg	1,037.49	1,126.98	900.10	111.75	100.47	35,866.54	30,144.79	28,697.70	33,155.84
S9 (Volatilization Factor [VF']-Construction Worker [adjusted for agitation]) - m3/kg	103.75	112.70	90.01	11.18	10.05	3586.65	3014.48	2869.77	3315.58
S10 (Apparent Diffusivity [D_A]) - cm2/s	0.0000859204	0.0000728166	0.0001141511	0.0074053910	0.0091619721	0.0000000719	0.0000001018	0.0000001123	0.0000000841
S19 (Soil-Water Part. Coef. [Kd]) - cm3/g	2.70E-02	9.00E-02	7.80E-02	1.32E-01	7.80E-02	6.60E-01	1.80E+00	1.80E+00	6.60E-01
S5 - Remediation Objectives for Noncarcinogenic Contaminants (mg/kg or ppm)	145.16	4.73	100.75	62.54	42.17	2.01	2,530.66	2,409.17	92.78

Non-TACO SRO - Construction Worker Inhalation (mg/kg or ppm)	**145.16**	**4.73**	**100.75**	**62.54**	**42.17**	**2**	**2,531**	**2,409**	**92.78**

Spreadsheet 4-B: Non-TACO SROs

Construction Worker Inhalation for Carcinogenic Contaminants
SSL Equation S7

Non-TACO Parameter:	VOCs 1,1,2,2-Tetrachloroethane	SVOCs Hexachlorobutadiene
Site Specific Parameters		
f_{OC} (Organic Carbon Content) - g/g Surface Soil = 0.006 or Site Specific	0.006	0.006
η (Total Soil Porosity) - Lpore/Lsoil 0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay = 0.36, or Calculated	0.43	0.43
Θa (Air Filled Porosity) - Lair/Lsoil Surface Soil (top 1 meter) = 0.28 or Gravel = 0.05, Sand = 0.14, Silt = 0.24, Clay = 0.19 or Calculated	0.28	0.28
Θw (Water Filled Porosity) - Lwater/Lsoil Surface Soil (top 1 meter) = 0.15 or Gravel = 0.20, Sand = 0.18, Silt = 0.16, Clay = 0.17 or Calculated	0.15	0.15
ρb (Dry Soil Bulk Density) - kg/L or g/cm3 1.5 or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7 or Site Specific	1.5	1.5
Chemical Specific Parameters		
Di (Diffusivity in Air) - cm2/s Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	4.90E-02	2.70E-02
Dw (Diffusivity in Water) - cm2/s Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	9.30E-06	7.00E-06
H' (Henry's Law Constant) - unitless Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	1.50E-02	4.20E-01
Koc (Organic Carbon Partition Coef) - cm3/g or L/kg Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	9.50E+01	8.50E+02
URF (Inhalation Unit Risk Factor) - (µg/m3)-1 Toxicological Specific - USEPA Regional Screening Level Summary Table (May 2022)	5.8E-05	2.2E-05
Default Parameters		
AT_c (Averaging Time for Carcinogens) - yr 70	70	70
ED (Exposure Duration for Inhalation of Carcinogens) - yr Construction Worker = 1	1	1
EF (Exposure Frequency) - d/yr Construction Worker = 30	30	30
Q/C - (g/m2*s)/(kg/m3) Construction Worker = 85.81	85.81	85.81
T (Exposure Interval) - s Construction Worker = 3.6e6	3.60E+06	3.60E+06
TR (Target Cancer Risk) 1e-6	1.00E-06	1.00E-06
SSL Calculations		
S8 (Volatilization Factor [VF]) - m3/kg	1,274.92	909.82
S9 (Volatilization Factor [VF']-Construction Worker [adjusted for agitation]) - m3/kg	127.49	90.98
S10 (Apparent Diffusivity [D_A]) - cm2/s	0.0000568979	0.0001117255
S19 (Soil-Water Part. Coef. [Kd]) - cm3/g	5.70E-01	5.10E+00
S7 - Remediation Objectives for Carcinogenic Contaminants - (mg/kg or ppm)	**1.87**	**3.52**

Tier 2 SROs - Construction Worker Inhalation (mg/kg or ppm)	**1.87**	**3.52**

Spreadsheet 5: Non-TACO SROs

Soil Component of Class I Groundwater Ingestion
SSL Equation S17

	VOCs			SVOCs (excluding PNAs)			
Non-TACO Parameter:	**1,1,2,2-Tetrachloroethane**	**2-butanone (MEK)**	**2-hexanone**	**2,2-oxybis (1-chloropropane) a.k.a. bis(2-chloro-1-methylethyl)ether**	**2-chloronaphthalene**	**2-methylnaphthalene**	**2-nitroaniline**
Default Parameters							
DF (Dilution Factor) - unitless S22 in App. C, Table B or 20	20	20	20	20	20	20	20
foc (Organic Carbon Content) - g/g Surface Soil = 0.006; Subsurface Soil = 0.002 or Site-Specific	0.0078	0.002	0.002	0.002	0.002	0.002	0.002
Θw (Water Filled Porosity) - Lwater/Lsoil Surface Soil (top 1 meter) = 0.15, Subsurface Soil (below 1 meter) = 0.30 or Gravel = 0.20, Sand = 0.18, Silt = 0.16, Clay = 0.17 or Calculated	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Θa (Air Filled Porosity) - Lpore/Lsoil Surface Soil (top 1 meter) = 0.28, Subsurface Soil (below 1 meter) = 0.13 or Gravel = 0.05, Sand = 0.14, Silt = 0.24, Clay = 0.19 or Calculated	0.13	0.13	0.13	0.13	0.13	0.13	0.13
pb (Dry Soil Bulk Density) - kg/L or g/cm3 1.5 or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7 or Site-Specific	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Chemical-Specific Parameters							
Gwobj (Groundwater Remediation Objective) - mg/L: Non-TACO, Class I GRO - Illinois EPA (May 2022)	0.00043	4.2	0.035	0.28	0.56	0.028	0.105
H' (Henry's Law Constant) - unitless Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	1.50E-02	2.30E-03	3.80E-03	3.00E-03	1.30E-02	2.10E-02	2.40E-06
Koc (Organic Carbon Partition Coef) - cm3/g or L/kg Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	9.50E+01	4.50E+00	1.50E+01	8.30E+01	2.50E+03	2.50E+03	1.10E+02
SSL Equations							
Target Soil Leachate Concentration (C_w) - mg/L S18 $C_w=DF*GW_{obj}$:	0.0086	84.0000	0.7000	5.6000	11.2000	0.5600	2.1000
Soil-Water Partition Coefficient (Kd) - cm^3/g S19 $K_d=K_{oc}*f_{oc}$:	0.74	0.01	0.03	0.17	5.00	5.00	0.22
Soil Remediation Objective - Soil Component of the Groundwater Ingestion Exposure Route - mg/kg **S17** $C_{soil}=C_w*(K_d+(\Theta_w+\Theta_a*H')/\rho_b)$:	0.00810	17.573	0.161	2.051	58.253	2.913	0.8820

Non-TACO SRO - Soil Component of Class I Groundwater Ingestion (mg/kg or ppm):	**0.0081**	**17.57**	**0.161**	**2.05**	**58.25**	**2.91**	**0.882**

Spreadsheet 5: Non-TACO SROs

Soil Component of Class I Groundwater Ingestion
SSL Equation S17

Non-TACO Parameter:	SVOCs (excluding PNAs)						Inorganic Parameters
	3-methylphenol (m-Cresol)	4-methylphenol (p-Cresol)	4,6-dinitro-2-methylphenol	4-nitroaniline	dibenzofuran	hexachlorobutadiene	aluminum
Default Parameters							
DF (Dilution Factor) - unitless S22 in App. C, Table B or 20	20	20	20	20	20	20	20
foc (Organic Carbon Content) - g/g Surface Soil = 0.006; Subsurface Soil = 0.002 or Site-Specific	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Θw (Water Filled Porosity) - Lwater/Lsoil Surface Soil (top 1 meter) = 0.15, Subsurface Soil (below 1 meter) = 0.30 or Gravel = 0.20, Sand = 0.18, Silt = 0.16, Clay = 0.17 or Calculated	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Θa (Air Filled Porosity) - Lpore/Lsoil Surface Soil (top 1 meter) = 0.28, Subsurface Soil (below 1 meter) = 0.13 or Gravel = 0.05, Sand = 0.14, Silt = 0.24, Clay = 0.19 or Calculated	0.13	0.13	0.13	0.13	0.13	0.13	0.13
ρb (Dry Soil Bulk Density) - kg/L or g/cm3 1.5 or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7 or Site-Specific	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Chemical-Specific Parameters							
Gwobj (Groundwater Remediation Objective) - mg/L: Non-TACO, Class I GRO - Illinois EPA (May 2022)	0.35	0.7	0.00056	0.028	0.007	0.007	3.5
H' (Henry's Law Constant) - unitless Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	3.50E-05	4.10E-05	5.70E-05	5.20E-08	8.70E-03	4.20E-01	0.00E+00
Koc (Organic Carbon Partition Coef) - cm3/g or L/kg Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	3.00E+02	3.00E+02	7.50E+02	1.10E+02	9.20E+03	8.50E+02	0.00E+00
SSL Equations							
Target Soil Leachate Concentration (C_w) - mg/L S18 $C_w=DF*GW_{obj}$:	7.0000	14.0000	0.0112	0.5600	0.1400	0.1400	70.0000
Soil-Water Partition Coefficient (Kd) - cm^3/g S19 $K_d=K_{oc}*f_{oc}$ or USEPA Regional Screening Level Supporting Table (aluminum):	0.60	0.60	1.50	0.22	18.40	1.70	1500
Soil Remediation Objective - Soil Component of the Groundwater Ingestion Exposure Route - mg/kg **S17** $C_{soil}=C_w*(K_d+(\Theta_w+\Theta_a*H')/\rho_b)$:	5.600	11.200	0.0190	0.2352	2.604	0.2711	105,014.00
Non-TACO SRO - Soil Component of Class I Groundwater Ingestion (mg/kg or ppm):	**5.60**	**11.20**	**0.019**	**0.235**	**2.60**	**0.271**	**105,014**

Spreadsheet 6: Non-TACO SROs

Soil Component of Class II Groundwater Ingestion
SSL Equation S17

	VOCs			SVOCs (excluding PNAs)			
Non-TACO Parameter:	**1,1,2,2-Tetrachloroethane**	**2-butanone (MEK)**	**2-hexanone**	**2,2-oxybis (1-chloropropane) a.k.a. bis(2-chloro-1-methylethyl)ether**	**2-chloronaphthalene**	**2-methylnaphthalene**	**2-nitroaniline**
Default Parameters							
DF (Dilution Factor) - unitless S22 in App. C, Table B or 20	20	20	20	20	20	20	20
foc (Organic Carbon Content) - g/g Surface Soil = 0.006; Subsurface Soil = 0.002 or Site-Specific	0.0078	0.002	0.002	0.002	0.002	0.002	0.002
Θw (Water Filled Porosity) - Lwater/Lsoil Surface Soil (top 1 meter) = 0.15, Subsurface Soil (below 1 meter) = 0.30 or Gravel = 0.20, Sand = 0.18, Silt = 0.16, Clay = 0.17 or Calculated	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Θa (Air Filled Porosity) - Lpore/Lsoil Surface Soil (top 1 meter) = 0.28, Subsurface Soil (below 1 meter) = 0.13 or Gravel = 0.05, Sand = 0.14, Silt = 0.24, Clay = 0.19 or Calculated	0.13	0.13	0.13	0.13	0.13	0.13	0.13
pb (Dry Soil Bulk Density) - kg/L or g/cm3 1.5 or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7 or Site-Specific	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Chemical-Specific Parameters							
Gwobj (Groundwater Remediation Objective) - mg/L: Non-TACO, Class II GRO - Illinois EPA (May 2022)	0.00043	4.2	0.035	0.28	2.8	0.14	0.105
H' (Henry's Law Constant) - unitless Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	1.50E-02	2.30E-03	3.80E-03	3.00E-03	1.30E-02	2.10E-02	2.40E-06
Koc (Organic Carbon Partition Coef) - cm3/g or L/kg Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	9.50E+01	4.50E+00	1.50E+01	8.30E+01	2.50E+03	2.50E+03	1.10E+02
SSL Equations							
Target Soil Leachate Concentration (C_w) - mg/L S18 $C_w=DF*GW_{obj}$:	0.0086	84.0000	0.7000	5.6000	56.0000	2.8000	2.1000
Soil-Water Partition Coefficient (Kd) - cm^3/g S19 $K_d=K_{oc}*f_{oc}$:	0.74	0.01	0.03	0.17	5.00	5.00	0.22
Soil Remediation Objective - Soil Component of the Groundwater Ingestion Exposure Route - mg/kg **S17** $C_{soil}=C_w*(K_d+(\Theta_w+\Theta_a*H')/\rho_b)$:	0.00810	17.573	0.161	2.051	291.263	14.565	0.8820

Non-TACO SRO - Soil Component of Class II Groundwater Ingestion (mg/kg or ppm):	**0.0081**	**17.57**	**0.161**	**2.05**	**291**	**14.57**	**0.882**

Spreadsheet 6: Non-TACO SROs

Soil Component of Class II Groundwater Ingestion
SSL Equation S17

Non-TACO Parameter:	SVOCs (excluding PNAs)						Inorganic Parameters
	3-methylphenol (m-Cresol)	4-methylphenol (p-Cresol)	4,6-dinitro-2-methylphenol	4-nitroaniline	dibenzofuran	hexachlorobutadiene	aluminum
Default Parameters							
DF (Dilution Factor) - unitless S22 in App. C, Table B or 20	20	20	20	20	20	20	20
foc (Organic Carbon Content) - g/g Surface Soil = 0.006; Subsurface Soil = 0.002 or Site-Specific	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Θw (Water Filled Porosity) - Lwater/Lsoil Surface Soil (top 1 meter) = 0.15, Subsurface Soil (below 1 meter) = 0.30 or Gravel = 0.20, Sand = 0.18, Silt = 0.16, Clay = 0.17 or Calculated	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Θa (Air Filled Porosity) - Lpore/Lsoil Surface Soil (top 1 meter) = 0.28, Subsurface Soil (below 1 meter) = 0.13 or Gravel = 0.05, Sand = 0.14, Silt = 0.24, Clay = 0.19 or Calculated	0.13	0.13	0.13	0.13	0.13	0.13	0.13
ρb (Dry Soil Bulk Density) - kg/L or g/cm3 1.5 or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7 or Site-Specific	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Chemical-Specific Parameters							
Gwobj (Groundwater Remediation Objective) - mg/L: Non-TACO, Class II GRO - Illinois EPA (May 2022)	0.35	0.7	0.0028	0.028	0.035	0.035	5
H' (Henry's Law Constant) - unitless Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	3.50E-05	4.10E-05	5.70E-05	5.20E-08	8.70E-03	4.20E-01	0.00E+00
Koc (Organic Carbon Partition Coef) - cm3/g or L/kg Chemical Specific - USEPA Regional Screening Level Supporting Table (May 2022)	3.00E+02	3.00E+02	7.50E+02	1.10E+02	9.20E+03	8.50E+02	0.00E+00
SSL Equations							
Target Soil Leachate Concentration (C_w) - mg/L S18 $C_w=DF*GW_{obj}$:	7.0000	14.0000	0.0560	0.5600	0.7000	0.7000	100.0000
Soil-Water Partition Coefficient (Kd) - cm^3/g S19 $K_d=K_{oc}*f_{oc}$ or USEPA Regional Screening Level Supporting Table (aluminum):	0.60	0.60	1.50	0.22	18.40	1.70	1500
Soil Remediation Objective - Soil Component of the Groundwater Ingestion Exposure Route - mg/kg **S17** $C_{soil}=C_w*(K_d+(\Theta_w+\Theta_a*H')/\rho_b)$:	5.600	11.200	0.0952	0.2352	13.021	1.3555	150,020.00
Non-TACO SRO - Soil Component of Class II Groundwater Ingestion (mg/kg or ppm):	**5.60**	**11.20**	**0.095**	**0.235**	**13.02**	**1.355**	**150,020**

Summary of Approach for Calculating Non-TACO Soil Remediation Objectives

Non-TACO soil remediation objectives (SROs) are no longer posted on the Illinois EPA website. For those chemicals detected at the site, but not included in 35 IAC 742, Pioneer followed the procedures for determining non-TACO SROs at: http://www.epa.illinois.gov/topics/cleanup-programs/taco/procedures-for-determining-soil-remediation-objectives-for-non-taco-chemicals/index.

Pioneer calculated objectives for the following non-TACO chemicals: acenaphthylene; aluminum; benzo(g,h.i)perylene; bis(2-chloro-1-methylethyl)ether [a.k.a. 2,2'oxybis(1-chloropane)]; chloromethane; 2-chloronaphthalene; 3-methylphenol (a.k.a. m-cresol); 4-methylphenol (a.k.a. p-cresol); dibenzofuran; dimethylphthalate; 4,6-dinitro-2-methylphenol (a.k.a. 4,6-dinitro-o-cresol); chloroethane (a.k.a. ethyl chloride); hexachlorobutadiene; methyl ethyl ketone (a.k.a. 2-butanone); methyl isobutyl ketone (a.k.a. 4-methyl-2-pentanone); 2-methylnaphthalene; 2-nitroaniline; 3-nitroaniline; 4-nitroaniline; phenanthrene; 1,1,2,2-tetrachloroethane; and 2-hexanone.

For the industrial/commercial ingestion exposure route Pioneer utilized SSL Equations S1 and S3 (for non-carcinogens and carcinogens, respectively), and the toxicity data and chemical/physical data listed in the USEPA Regional Screening Level (RSL) tables (https://www.epa.gov/risk/regional-screening-levels-rsls) and calculations in 35 IAC Part 742. The oral reference dose (RfD_o) and/or oral slope factor (SF_o) were unavailable for the following chemicals: acenaphthylene; benzo(g,h,i)perylene; chloromethane; dimethylphthalate; chloroethane (a.k.a. ethyl chloride); methyl isobutyl ketone (a.k.a 4-methyl-2-pentanone); 3-nitroaniline; and phenanthrene. Therefore, Pioneer was unable to calculate SROs for the industrial/commercial soil ingestion exposure route for these chemicals. The calculations for the remaining chemicals are provided in the following Spreadsheets 1 and 2.

For the construction worker ingestion exposure route, Pioneer utilized SSL Equations S1 and S3, and the chemical/physical data listed in the RSL tables and the subchronic reference doses (RfDs) listed in the table provided at http://www.epa.illinois.gov/topics/cleanup-programs/taco/index. The RfDs were unavailable for chloromethane, dimethylphthalate and 3-nitroaniline. Therefore, Pioneer was unable to calculate SROs for the construction worker soil ingestion exposure route for these chemicals. The calculations for the remaining chemicals are provided in the following Spreadsheets 3 and 4.

For the industrial/commercial outdoor inhalation exposure route, Pioneer utilized SSL Equations S4 and S6 (for non-carcinogens and carcinogens, respectively), and for the construction worker outdoor inhalation exposure route Pioneer utilized SSL Equations S5 and S7, along with toxicity data and chemical/physical data listed in the USEPA RSL tables (https://www.epa.gov/risk/regional-screening-levels-rsls). The inhalation reference concentration (RfC) [subchronic for the construction worker populations], Inhalation Unit Risk Factor (URF), and/or chemical/physical data were unavailable for acenaphthylene; aluminum; benzo(g,h,i)perylene; 2,2'-oxybis(1-chloropropane) [a.k.a. bis(2-chloro-1-methylethyl)ether; 2-chloronaphthalene; dibenzofuran; dimethylphthalate; 4,6-dinitro-2-methylphenol (a.k.a. 4,6-dinitro-o-cresol); 2-methylnaphthalene; 3-nitroaniline; and phenanthrene. Therefore, Pioneer was unable to calculate the SROs for the industrial/commercial and construction worker outdoor inhalation exposure route for these chemicals. The calculations for the remaining chemicals are provided in the following Spreadsheets 5 through 8.

For the migration to groundwater exposure route, Pioneer utilized SSL Equations S17, S18 and S19 and the Class I and Class II groundwater objectives provided at http://www.epa.illinois.gov/topics/cleanup-programs/taco/index. It should be noted that certain chemicals, specifically acenaphthylene, benzo(g,h,i)perylene, and phenanthrene were not listed in the USEPA RSL tables. Therefore, Pioneer is proposing to use the chemical properties provided by the Illinois EPA Toxicity Assessment Unit for the Organic Carbon Partition Coefficient (Koc) and Henry's Law Constant (H') values. Additionally, the Class I and Class II groundwater objectives were not available for chloromethane, chloroethane (a.k.a. ethyl chloride), dimethylphthalate, methyl isobutyl ketone (a.k.a 4-methyl-2-pentanone), and 3-nitroaniline. Therefore, Pioneer was unable to calculate migration to groundwater SROs for these chemicals. The calculations for the remaining chemicals are provided in the following Spreadsheets 9 and 10.

Appendix A SRP Forms, ALTA Land Title Survey and Legal Descriptions, Proposed Site Plans

Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Site Remediation Program (SRP)
Application and Services Agreement (DRM-1) Form

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Remedial Project Management Section at the above address.

For Illinois EPA Use:

Log No. _____

____ Site Base Map (required)
____ $2500 Advance Partial Payment (required)
____ DRM-2 Form (if reports included)

I. Site Identification:

Site Name: U.S. Steel South Works County: Cook

Street Address: 8080 South DuSable Lake Shore Drive P.O. Box: _____

City: Chicago Zip Code: 60617 Approx. site size (acres) 440

Illinois Inventory ID Number: 0316515061 USEPA ID Number _____

Site Base Map Attached: ☑ Yes ☐ No Illinois EPA Permit(s): _____

LUST/IEMA Incident Number(s), if applicable: _____

II. Remediation Applicant ("RA"):

RA's Name: Mr./Ms. Mr. Curt R. Bailey Title: Authorized Agent

Company: RMW CRG Quantum Shore Ground Tenant LLC

Street Address: 350 West Hubbard Street P.O. Box: _____

City: Chicago State: IL Zip Code: 60654 Phone: _____

FEIN or SSN: 32-0826877 RA Email Address: mellch@relatedmidwest.com

I hereby certify that I am authorized to sign this application and services agreement. I certify that the proposed project meets the eligibility criteria set forth in Section 58.1(a)(2) of the Environmental Protection Act (415 ILCS 5/58.1(a)(2)) and regulations promulgated thereunder and that this submittal and all attachments were prepared at my direction. In consideration for the Illinois EPA's agreement to provide (subject to applicable law, available resources, and receipt of the advance partial payment) review and evaluation services for activities carried out pursuant to Title 17 of the Illinois Environmental Protection Act (415 ILCS 5/58-58.12), I agree to:

(1) Conform with the procedures of Title 17 of the Illinois Environmental Protection Act (415 ILCS 5/58 - 58.12) and implementing regulations;

(2) Allow for or otherwise arrange site visits or other site evaluations by the Illinois EPA when requested;

(3) Pay any reasonable costs incurred and documented by the Illinois EPA in providing such services; and

(4) Make a $2500 advance partial payment to the Illinois EPA for such anticipated services provided in Section V of this application.

As the RA, I understand that I may terminate this services agreement at any time, by notifying the Illinois EPA in writing that services previously requested under the services agreement are no longer wanted. Within 180 days of receipt of the notice, the Illinois EPA shall provide me with a final invoice for services provided until the date of receipt of such notification.

To the best of my knowledge and belief, this request and all attachments are true, accurate and complete. I hereby certify that I have the authority to enter into this agreement.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent conviction is a Class 3 felony. (415 ILCS 5/44(h)).

RA's Signature: _____ Date: 10/2/2025

***In addition to the fees applicable under this Services Agreement, the recipient of a No Further Remediation (NFR) Letter must pay to the Illinois EPA an NFR Assessment in the amount of the lesser of $2500 or an amount equal to the costs incurred by the Illinois EPA under this Agreement (35 IAC 740.615)**

III. Project Objectives:

A. Release Letter Requested.

Please complete one of the subsections by checking applicable boxes and including other information (if necessary, additonal information may be attached to this application form):

☑ Comprehensive No Further Remediation ("NFR") Letter

☐ Focused NFR Letter
Identify the focused contaminants of concern by checking the applicable box(es):

☐ Volatiles ☐ BTEX ☐ PCBs ☐ Metals ☐ Semivolatiles ☐ PNAs
☐ Pesticides ☐ Other (identify) _____

☐ 4(y) Letter
Identify the focused contaminants of concern by checking the applicable box(es):

☐ Volatiles ☐ BTEX ☐ PCBs ☐ Metals ☐ Semivolatiles ☐ PNAs
☐ Pesticides ☐ Other (identify) _____

Identify the media of concern by checking the applicable box(es):

☐ Soil ☐ Sediments ☐ Other: _____

Identify the actions (e.g. drum removal, spill response, etc.):

B. Identify any support services being sought from the Illinois EPA in addition to the review and evaluation services. If necessary, additional information may be attached to this application form.

☐ No additional support services are being sought
☐ Assistance with community relations
☐ Sample collection and analyses
☐ Other (identify): _____

C. Anticipated Schedule

SRP Document	Projected Date of Receipt by Illinois EPA
Site Investigation Report	October 2025
Remediation Objectives Report	October 2025
Remedial Action Plan	October 2025
Remedial Action Completion Report	October 2026

D. Identify the current and post-remedation uses of the remediation site. If necessary, additional information may be attached to this application form.

Current Use:
Vacant

Post-Remediation Use:
Industrial/Commercial

IV. Written Permission from the Property Owner (check one of the applicable boxes and provide additional information):

☐ RA is the property owner of the remediation site identified in Section 1 of this application

☑ RA is **not** the property owner of the remediation site identified in Section 1 of this application

Property Owner's Name: Mr./Ms. Mr. Ryan Phelan Title: Managing Director - Delagatee

Company: Blue Owl Capital

Street Address: 150 N Riverside Plaza, 37th Floor P.O. Box: _____

City: Chicago State: IL Zip Code: 60602 Phone: 312-283-7111

Email Address: ryan.phelan@blueowl.com

I hereby certify that the RA has my permission to enroll the site identified in Section 1 of this application into the Illinois EPA Site Remediation Program. I certify that the RA and designated representatives have permission to enter the indicated premises for the purpose of conducting remedial investigations or activities.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent conviction is a Class 3 felony. (415 ILCS 5/44(h)).

Ryan Phelan
Owner's Signature:

10/6/25
Date:

For multiple property owners, attach additional sheets containing all the information above along with a signed, dated certification for each.

V. Advance Partial Payment:

☑ A $2500 advance partial payment is included with this application. Please make the check payable to: "Illinois Environmental Protection Agency". Please include "For Deposit in the Hazardous Waste Fund" and the Remediation Applicant's FEIN or SSN on the check.

If plans or reports for review and evaluation by the Illinois EPA accompany this application, a completed DRM-2 Form must also accompany this submittal.

The Illinois EPA is authorized to require this information under Section 415 ILCS 5/58 - 58.12 of the Environmental Protection Act and regulations promulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your application being rejected. This form has been approved by the Forms Management Center.

All information submitted as part of this application is available to the public except when specifically designated by the RA to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines.

IV. Written Permission from the Property Owner (check one of the applicable boxes and provide additional information):

☐ RA is the property owner of the remediation site identified in Section 1 of this application

☑ RA is **not** the property owner of the remediation site identified in Section 1 of this application

Property Owner's Name: Mr./Ms. Mr. Michael Ellch Title: Authorized Agent

Company: Related Chicago 8080 LLC

Street Address: 350 W Hubbard Street, Ste 300 P.O. Box: _____

City: Chicago State: IL Zip Code: 60654 Phone: _____

Email Address: mellch@relatedmidwest.com

I hereby certify that the RA has my permission to enroll the site identified in Section 1 of this application into the Illinois EPA Site Remediation Program. I certify that the RA and designated representatives have permission to enter the indicated premises for the purpose of conducting remedial investigations or activities.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent conviction is a Class 3 felony. (415 ILCS 5/44(h)).

Owner's Signature: Date: 10/9/25

For multiple property owners, attach additional sheets containing all the information above along with a signed, dated certification for each.

V. Advance Partial Payment:

☐ A $2500 advance partial payment is included with this application. Please make the check payable to: "Illinois Environmental Protection Agency". Please include "For Deposit in the Hazardous Waste Fund" and the Remediation Applicant's FEIN or SSN on the check.

If plans or reports for review and evaluation by the Illinois EPA accompany this application, a completed DRM-2 Form must also accompany this submittal.

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IV. Written Permission from the Property Owner (check one of the applicable boxes and provide additional information):

☐ RA is the property owner of the remediation site identified in Section 1 of this application

☑ RA is **not** the property owner of the remediation site identified in Section 1 of this application

Property Owner's Name: Mr./Ms. Mr. Michael Ellch Title: Authorized Agent

Company: 3733 East 87th Street LLC

Street Address: 350 W Hubbard Street, Ste 300 P.O. Box: _____

City: Chicago State: IL Zip Code: 60654 Phone: _____

Email Address: mellch@relatedmidwest.com

I hereby certify that the RA has my permission to enroll the site identified in Section 1 of this application into the Illinois EPA Site Remediation Program. I certify that the RA and designated representatives have permission to enter the indicated premises for the purpose of conducting remedial investigations or activities.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent conviction is a Class 3 felony. (415 ILCS 5/44(h)).

Owner's Signature: Date: 10/9/25

For multiple property owners, attach additional sheets containing all the information above along with a signed, dated certification for each.

V. Advance Partial Payment:

☐ A $2500 advance partial payment is included with this application. Please make the check payable to: "Illinois Environmental Protection Agency". Please include "For Deposit in the Hazardous Waste Fund" and the Remediation Applicant's FEIN or SSN on the check.

If plans or reports for review and evaluation by the Illinois EPA accompany this application, a completed DRM-2 Form must also accompany this submittal.

The Illinois EPA is authorized to require this information under Section 415 ILCS 5/58 - 58.12 of the Environmental Protection Act and regulations promulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your application being rejected. This form has been approved by the Forms Management Center.

All information submitted as part of this application is available to the public except when specifically designated by the RA to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines.

Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Site Remediation Program Form (DRM-2)

(To be Submitted with all Plans and Reports)

You may complete this form in Acrobat, save a copy, print, sign, and mail it to the address above.

I. Site Identification

Site Name: U.S. Steel South Works

Street Address: 8080 South DuSable Lake Shore Drive

City: Chicago State: IL Zip Code: 60617 Phone:

Bureau of Land ID Number: 0316515061

II. Remediation Applicant

Applicant's Name: Mr. Curt R. Bailey

Company: RMW CRG Quantum Shore Ground Tenant LLC

Street Address: 350 West Hubbard Street P.O. Box:

City: Chicago State: IL Zip Code: 60654 Phone: 312-832-2308

Email Address: mellch@relatedmidwest.com

I hereby request that the Illinois EPA review and evaluate the attached project documents in accordance with the terms and conditions of the Environmental Protection Act (415 ILCS 5), implementing regulations, and the review and evaluation services agreement.

Remediation Applicant's Signature: Date: 10/2/2025

III. Consultant

Contact's Name: Mr. Jacob Hartsock

Company: Pioneer Engineering & Environmental Services, LLC

Street Address: 2753 West 31st Street P.O. Box:

City: Chicago State: IL Zip Code: 60608 Phone: 773-722-9200

Email Address: jhartsock@pioneerees.com

IV. Professional Engineer's or Geologist's Seal or Stamp

Documents Submitted

- [x] Site Investigation Report - Comprehensive
- [ ] Site Investigation Report - Focused
- [ ] Remediation Objectives Report - Tier 1 or 2
- [x] Remediation Objectives Report - Tier 3
- [x] Remedial Action Plan
- [ ] Remedial Action Completion Report
- [ ] Sampling Plan
- [ ] Dry Cleaner Trust Fund - Budget
- [ ] Dry Cleaner Trust Fund - Reimbursement Request
- [ ] Other: _____

I attest that all site investigations or remedial activities that are subject of this plan(s) or report(s) were performed under my direction, and this document and all attachments were prepared under my direction or reviewed by me, and to the best of my knowledge and belief, the work described in the plan and report has been designed or completed in accordance with the Illinois Environmental Protection Act (415 ILCS 5), 35 Ill. Adm. Code 740, and generally accepted engineering practices or principles of professional geology, and the information presented is accurate and complete.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 Felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Engineer's or Geologist's Name: Jeffrey McClelland

Company: Pioneer Engineering & Environmental Services, LLC

Registration Number: 062-054039

Phone: 773-722-9200

License Expiration Date: 11/2025

Signature: _____ Date: 10/3/2025

Note: The authority of a Licensed Professional Geologist to certify documents submitted to the Illinois Environmental Protection Agency for review and evaluation pursuant to Title XVII of the Environmental Protection Act is limited to Site Investigation Reports (415 ILCS 58.7(f), as amended by P.A. 92-0735, effective July 25, 2002. A Licensed Professional Geologist cannot certify to Remediation Objectives Reports, Remedial Action Plans or Remedial Action Completion Reports.

Professional Engineer's or Geologist's Seal or Stamp

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

PROPERTY DESCRIPTION AND NOTES FROM TITLE COMMITMENT

SHEET INDEX

SHEET 1	PROPERTY DESCRIPTION AND NOTES FROM TITLE COMMITMENT
SHEET 2	OVERALL BOUNDARY EXHIBIT
SHEET 3-18	EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION

PROPERTY DESCRIPTION:

PARCEL A:

THAT PART OF BLOCK 1 IN ILLINOIS STEEL COMPANY'S SOUTH WORKS RE-SUBDIVISION, BEING LOTS, PIECES, AND PARCELS OF LAND IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 15 EAST, AND IN SECTION 5 NORTH OF THE INDIAN BOUNDARY LINE, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 27, 1914 AS DOCUMENT NUMBER 5384242, DESCRIBED AS FOLLOWS: COMMENCING AT NORTHWEST CORNER OF SAID BLOCK 1; THENCE ALONG AN ASSUMED BEARING SOUTH 01 DEGREES 28 MINUTES 02 SECONDS EAST BEING THE WEST LINE OF SAID BLOCK 1, A DISTANCE OF 242.85 FEET TO A POINT ON A SOUTHEASTERLY LINE OF SOUTH AVENUE 'O'-US ROUTE 41 PER PLAT OF HIGHWAYS RECORDED MARCH 9, 2006 AS DOCUMENT NUMBER 0606834023 AND RECORDED NOVEMBER 21, 2008 AS DOCUMENT NUMBER 0832645125, SAID POINT BEING THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 01 DEGREES 28 MINUTES 02 SECONDS EAST ALONG SAID WEST LINE, 2044.25 FEET TO A CORNER OF SAID BLOCK 1; THENCE NORTH 88 DEGREES 32 MINUTES 54 SECONDS EAST ALONG A SOUTH LINE OF SAID BLOCK 1, A DISTANCE OF 989.89 FEET TO A POINT ON THE EAST LINE OF SOUTH MACKINAW AVENUE, SAID EAST LINE ALSO BEING A WEST LINE OF SAID BLOCK 1; THENCE SOUTH 01 DEGREES 32 MINUTES 35 SECONDS EAST ALONG SAID WEST LINE, 290.88 FEET TO A POINT ON A NORTH LINE OF EAST 83RD STREET PER PLAT OF HIGHWAYS FOR SOUTH AVENUE 'O'- US ROUTE 41 RELOCATION RECORDED MARCH 9, 2006 AS DOCUMENT NUMBER 0606834023 AND RECORDED NOVEMBER 21, 2008 AS DOCUMENT NUMBER 0832645125; THENCE EAST, NORTH AND WEST ALONG THE NORTH, WEST AND SOUTH LINES OF EAST 83RD STREET AND SOUTH AVENUE 'O'- US ROUTE 41 PER SAID PLATS FOR THE FOLLOWING 41 COURSES; THENCE NORTH 88 DEGREES 29 MINUTES 30 SECONDS EAST, 558.81 FEET; THENCE NORTH 70 DEGREES 18 MINUTES 23 SECONDS EAST, 13.02 FEET; THENCE NORTH 49 DEGREES 34 MINUTES 03 SECONDS EAST, 33.75 FEET; THENCE NORTH 12 DEGREES 27 MINUTES 45 SECONDS EAST, 15.18 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 541.19 FEET; THENCE NORTH 46 DEGREES 33 MINUTES 47 SECONDS WEST, 14.14 FEET; THENCE SOUTH 88 DEGREES 26 MINUTES 49 SECONDS WEST, 10.00 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 66.00 FEET; THENCE NORTH 88 DEGREES 26 MINUTES 49 SECONDS EAST, 10.00 FEET; THENCE NORTH 43 DEGREES 26 MINUTES 10 SECONDS EAST, 14.14 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 578.34 FEET; THENCE NORTH 69 DEGREES 46 MINUTES 48 SECONDS WEST, 26.93 FEET; THENCE SOUTH 88 DEGREES 25 MINUTES 05 SECONDS WEST, 25.00 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 81.00 FEET; THENCE NORTH 88 DEGREES 25 MINUTES 05 SECONDS EAST, 40.00 FEET; THENCE NORTH 42 DEGREES 56 MINUTES 25 SECONDS EAST, 14.03 FEET TO A POINT ON A NON-TANGENT CURVE; THENCE NORTHWESTERLY 816.38 FEET, ALONG THE ARC OF A NON-TANGENT CIRCLE TO THE LEFT, HAVING A RADIUS OF 685.00 FEET AND WHOSE CHORD BEARS NORTH 36 DEGREES 59 MINUTES 16 SECONDS WEST, 768.92 FEET; THENCE NORTH 71 DEGREES 07 MINUTES 51 SECONDS WEST NON-TANGENT TO THE LAST DESCRIBED COURSE, 81.94 FEET; THENCE NORTH 71 DEGREES 07 MINUTES 49 SECONDS WEST, 417.77 FEET; THENCE SOUTH 01 DEGREES 25 MINUTES 45 SECONDS EAST, 32.28 FEET; THENCE SOUTH 88 DEGREES 34 MINUTES 15 SECONDS WEST, 100.00 FEET; THENCE NORTH 01 DEGREES 25 MINUTES 45 SECONDS WEST, 69.27 FEET; THENCE NORTH 71 DEGREES 07 MINUTES 49 SECONDS WEST, 582.36 FEET; THENCE SOUTH 27 DEGREES 03 MINUTES 21 SECONDS WEST, 57.48 FEET (57.45 FEET, RECORD) TO THE POINT OF BEGINNING, IN THE CITY OF CHICAGO, COOK COUNTY, ILLINOIS.

PARCEL B:

THAT PART OF BLOCKS 1 AND 2 IN ILLINOIS STEEL COMPANY'S SOUTH WORKS RE-SUBDIVISION, BEING LOTS, PIECES, AND PARCELS OF LAND IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 15 EAST, AND IN SECTION 5 NORTH OF THE INDIAN BOUNDARY LINE, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 27, 1914 AS DOCUMENT NUMBER 5384242, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID BLOCK 1; THENCE NORTH 88 DEGREES 26 MINUTES 11 SECONDS EAST ALONG AN ASSUMED BEARING BEING THE NORTH LINE OF SAID BLOCK 1, A DISTANCE OF 1677.00 FEET TO AN ANGLE POINT; THENCE SOUTH 62 DEGREES 00 MINUTES 50 SECONDS EAST ALONG THE NORTHEASTERLY LINE OF SAID BLOCK 1, A DISTANCE OF 2654.83 FEET; THENCE SOUTH 05 DEGREES 29 MINUTES 17 SECONDS EAST 476.70 FEET TO A POINT ON A LINE LYING 300.00 FEET WEST OF AND PARALLEL WITH THE EAST LINE OF SAID BLOCK 1, SAID POINT BEING THE POINT OF BEGINNING; THENCE SOUTH 06 DEGREES 15 MINUTES 26 SECONDS EAST ALONG SAID PARALLEL LINE 2227.25 FEET TO A POINT ON THE NORTH LINE OF THE NORTH SLIP, SAID SLIP BEING LOCATED AS INDICATED IN SAID RESUBDIVISION; THENCE SOUTH 88 DEGREES 31 MINUTES 57 SECONDS WEST ALONG SAID NORTH LINE 2149.16 FEET TO A POINT ON AN EAST LINE OF INTERSECTION OF 85TH STREET AND SOUTH AVENUE 'O'- US ROUTE 41, PER PLAT OF HIGHWAYS RECORDED MARCH 9, 2006 AS DOCUMENT NUMBER 0606834023; THENCE NORTH AND WEST ALONG THE EAST LINES OF SAID INTERSECTION AND OF SAID SOUTH AVENUE 'O'- US ROUTE 41 AND ITS INTERSECTION WITH 83RD STREET AS SHOWN ON SAID PLAT, THE FOLLOWING 25 COURSES; THENCE NORTH 01 DEGREES 28 MINUTES 56 SECONDS WEST, 87.19 FEET; THENCE SOUTH 88 DEGREES 31 MINUTES 11 SECONDS WEST, 315.04 FEET; THENCE NORTH 64 DEGREES 56 MINUTES 01 SECONDS WEST, 22.38 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 578.06 FEET; THENCE NORTH 43 DEGREES 26 MINUTES 00 SECONDS EAST, 14.14 FEET; THENCE NORTH 88 DEGREES 26 MINUTES 15 SECONDS EAST, 10.00 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 66.00 FEET; THENCE SOUTH 88 DEGREES 26 MINUTES 15 SECONDS WEST, 10.00 FEET; THENCE NORTH 46 DEGREES 34 MINUTES 12 SECONDS WEST, 14.14 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 558.67 FEET; THENCE NORTH 35 DEGREES 19 MINUTES 11 SECONDS EAST, 24.99 FEET; THENCE NORTH 88 DEGREES 29 MINUTES 30 SECONDS EAST, 65.00 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 80.00 FEET; THENCE SOUTH 88 DEGREES 29 MINUTES 30 SECONDS WEST, 70.00 FEET; THENCE NORTH 46 DEGREES 32 MINUTES 27 SECONDS WEST, 14.15 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 571.29 FEET; THENCE NORTH 43 DEGREES 26 MINUTES 07 SECONDS EAST, 14.14 FEET; THENCE NORTH 88 DEGREES 26 MINUTES 49 SECONDS EAST, 10.00 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 66.00 FEET; THENCE SOUTH 88 DEGREES 26 MINUTES 49 SECONDS WEST, 10.00 FEET; THENCE NORTH 46 DEGREES 33 MINUTES 41 SECONDS WEST, 14.14 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 578.42 FEET; THENCE NORTH 43 DEGREES 25 MINUTES 20 SECONDS EAST, 14.14 FEET; THENCE NORTH 88 DEGREES 25 MINUTES 05 SECONDS EAST, 40.00 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 66.00 FEET; THENCE NORTH 88 DEGREES 25 MINUTES 05 SECONDS EAST, 905.83 FEET; THENCE SOUTH 78 DEGREES 36 MINUTES 47 SECONDS EAST, 505.63 FEET; HENCE SOUTH 18 DEGREES 13 MINUTES 09 SECONDS EAST, 233.11 FEET; THENCE NORTH 88 DEGREES 31 MINUTES 58 SECONDS EAST 111.07 FEET; THENCE SOUTH 75 DEGREES 54 MINUTES 23 SECONDS EAST 701.83 FEET TO THE POINT OF BEGINNING, IN THE CITY OF CHICAGO, COOK COUNTY, ILLINOIS.

PARCEL C:

THAT PART OF BLOCK 2 IN ILLINOIS STEEL COMPANY'S SOUTH WORKS RE-SUBDIVISION, BEING LOTS, PIECES, AND PARCELS OF LAND IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 15 EAST, AND IN SECTION 5 NORTH OF THE INDIAN BOUNDARY LINE, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 27, 1914 AS DOCUMENT NUMBER 5384242, DESCRIBED AS FOLLOWS: COMMENCING AT NORTHWEST CORNER OF BLOCK 1 IN SAID ILLINOIS STEEL COMPANY'S SOUTH WORKS RE-SUBDIVISION; THENCE SOUTH 01 DEGREES 28 MINUTES 02 SECONDS EAST ALONG AN ASSUMED BEARING, BEING THE WEST LINE OF SAID BLOCK 1, A DISTANCE OF 2287.12 FEET TO A CORNER OF SAID BLOCK 1; THENCE NORTH 88 DEGREES 32 MINUTES 54 SECONDS EAST ALONG A SOUTH LINE OF SAID BLOCK 1, A DISTANCE OF 989.89 FEET TO A POINT ON THE EAST LINE OF SOUTH MACKINAW AVENUE, ALSO BEING A WEST LINE OF SAID BLOCK 1; THENCE SOUTH 01 DEGREES 32 MINUTES 35 SECONDS EAST ALONG SAID WEST LINE 296.93 FEET TO A POINT ON THE NORTH LINE OF EAST 83RD STREET ALSO BEING A SOUTH LINE OF SAID BLOCK 1; THENCE NORTH 88 DEGREES 31 MINUTES 03 SECONDS EAST ALONG THE LAST DESCRIBED LINE 329.88 FEET TO A POINT ON THE EAST LINE OF SOUTH GREEN BAY AVENUE, ALSO BEING A WEST LINE OF SAID BLOCK 1; THENCE SOUTH 01 DEGREE 28 MINUTES 03 SECONDS EAST ALONG THE LAST DESCRIBED WEST LINE AND A WEST LINE OF SAID BLOCK 2 A DISTANCE OF 73.81 FEET TO A POINT ON A SOUTH LINE OF 83RD STREET PER PLAT OF HIGHWAYS FOR SOUTH AVENUE 'O'- US ROUTE 41 RELOCATION RECORDED MARCH 9, 2006 AS DOCUMENT NUMBER 0606834023, SAID POINT BEING THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 01 DEGREES 28 MINUTES 03 SECONDS EAST ALONG THE WEST LINE OF SAID BLOCK 2 A DISTANCE OF 1252.54 FEET TO A POINT ON A NORTH LINE OF 85TH STREET PER SAID PLAT; THENCE EAST, NORTH AND WEST ALONG THE NORTH LINE OF SAID 85TH STREET, THE WEST LINE OF SOUTH AVENUE 'O'- US ROUTE 41 AND THE SOUTH LINE OF 83RD STREET ALL PER SAID PLAT, THE FOLLOWING 11 COURSES; THENCE NORTH 88 DEGREES 31 MINUTES 11 SECONDS EAST, 263.72 FEET; THENCE NORTH 43 DEGREES 28 MINUTES 24 SECONDS EAST, 14.13 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 577.87 FEET; THENCE NORTH 46 DEGREES 34 MINUTES 00 SECONDS WEST, 14.15 FEET; THENCE SOUTH 88 DEGREES 26 MINUTES 15 SECONDS WEST, 10.00 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 66.00 FEET; THENCE NORTH 88 DEGREES 26 MINUTES 15 SECONDS EAST, 10.00 FEET; THENCE NORTH 43 DEGREES 25 MINUTES 54 SECONDS EAST, 14.14 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 568.79 FEET; THENCE NORTH 46 DEGREES 32 MINUTES 26 SECONDS WEST, 14.15 FEET; THENCE SOUTH 88 DEGREES 29 MINUTES 30 SECONDS WEST, 261.41 FEET TO THE POINT OF BEGINNING, (EXCEPTING THEREFROM THAT PART DEDICATED FOR 84TH STREET EXTENSION IN DEDICATION PLAT RECORDED 10-13-16 AS DOCUMENT 1628713010) IN THE CITY OF CHICAGO, COOK COUNTY, ILLINOIS.

PARCEL D:

THAT PART OF SECTION 32, TOWNSHIP 38 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN AND PART OF BLOCK 2 IN ILLINOIS STEEL COMPANY'S SOUTH WORKS RE-SUBDIVISION, BEING LOTS, PIECES, AND PARCELS OF LAND IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 15 EAST, AND IN SECTION 5 NORTH OF THE INDIAN BOUNDARY LINE, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 27, 1914 AS DOCUMENT NUMBER 5384242, DESCRIBED AS FOLLOWS: COMMENCING AT NORTHWEST CORNER OF BLOCK 1 IN SAID ILLINOIS STEEL COMPANY'S SOUTH WORKS RE-SUBDIVISION; THENCE SOUTH 01 DEGREES 28 MINUTES 02 SECONDS EAST ALONG AN ASSUMED BEARING, BEING THE WEST LINE OF SAID BLOCK 1, A DISTANCE OF 2287.12 FEET TO A CORNER OF SAID BLOCK 1; THENCE NORTH 88 DEGREES 32 MINUTES 54 SECONDS EAST ALONG A SOUTH LINE OF SAID BLOCK 1, A DISTANCE OF 989.89 FEET TO A POINT ON THE EAST LINE OF SOUTH MACKINAW AVENUE, ALSO BEING A WEST LINE OF SAID BLOCK 1; THENCE SOUTH 01 DEGREES 32 MINUTES 35 SECONDS EAST ALONG SAID WEST LINE 296.93 FEET TO A POINT ON THE SOUTH LINE OF SAID BLOCK 1; THENCE NORTH 88 DEGREES 31 MINUTES 03 SECONDS EAST ALONG THE LAST DESCRIBED LINE 329.88 FEET TO A POINT ON THE EAST LINE OF SOUTH GREEN BAY AVENUE, ALSO BEING A WEST LINE OF SAID BLOCK 1; THENCE SOUTH 01 DEGREE 28 MINUTES 03 SECONDS EAST ALONG THE LAST DESCRIBED WEST LINE AND A WEST LINE OF SAID BLOCK 2 A DISTANCE OF 1390.88 FEET TO A CORNER OF SAID BLOCK 2; THENCE NORTH 88 DEGREES 31 MINUTES 54 SECONDS EAST ALONG SAID WEST LINE 8.00 FEET TO A CORNER OF SAID BLOCK 2; THENCE SOUTH 01 DEGREES 28 MINUTES 03 SECONDS EAST ALONG SAID WEST LINE 1.47 FEET TO A POINT ON A SOUTH LINE OF 85TH STREET AS ESTABLISHED BY PLAT OF HIGHWAYS FOR SOUTH AVENUE 'O'- US ROUTE 41 RELOCATION RECORDED MARCH 9, 2006 AS DOCUMENT NUMBER 0606834023, SAID POINT BEING THE POINT OF BEGINNING; THENCE EAST AND SOUTH ALONG THE SOUTH LINE OF SAID 85TH STREET AND THE WEST LINES OF SOUTH AVENUE 'O'- US ROUTE 41 PER SAID PLAT, THE FOLLOWING 15 COURSES; THENCE NORTH 88 DEGREES 31 MINUTES 11 SECONDS EAST, 245.84 FEET; THENCE SOUTH 64 DEGREES 56 MINUTES 01 SECONDS EAST, 22.38 FEET; THENCE SOUTH 01 DEGREES 34 MINUTES 23 SECONDS EAST, 220.59 FEET; THENCE SOUTH 43 DEGREES 28 MINUTES 20 SECONDS WEST, 14.13 FEET; THENCE SOUTH 88 DEGREES 31 MINUTES 03 SECONDS WEST, 10.00 FEET; THENCE SOUTH 01 DEGREES 34 MINUTES 23 SECONDS EAST, 66.00 FEET; THENCE NORTH 88 DEGREES 31 MINUTES 03 SECONDS EAST, 10.00 FEET; THENCE SOUTH 46 DEGREES 31 MINUTES 40 SECONDS EAST, 14.15 FEET; THENCE SOUTH 01 DEGREES 34 MINUTES 23 SECONDS EAST, 335.74 FEET; THENCE SOUTH 32 DEGREES 24 MINUTES 50 SECONDS WEST, 16.58 FEET; THENCE SOUTH 66 DEGREES 24 MINUTES 04 SECONDS WEST, 38.84 FEET; THENCE SOUTH 23 DEGREES 35 MINUTES 56 SECONDS EAST, 66.00 FEET; THENCE NORTH 66 DEGREES 24 MINUTES 04 SECONDS EAST, 22.14 FEET; THENCE SOUTH 01 DEGREES 34 MINUTES 23 SECONDS EAST, 483.35 FEET; THENCE SOUTH 43 DEGREES 28 MINUTES 27 SECONDS WEST, 21.34 FEET TO A POINT ON THE NORTH LINE OF EAST 87TH STREET AS OPENED PER DOCUMENT RECORDED DECEMBER 14, 2004 AS DOCUMENT NUMBER 0434944043; THENCE SOUTH 88 DEGREES 31 MINUTES 20 SECONDS WEST ALONG SAID NORTH LINE, 731.46 FEET; THENCE SOUTH 01 DEGREES 28 MINUTES 42 SECONDS EAST ALONG SAID NORTH LINE, 20.00 FEET; THENCE SOUTH 88 DEGREES 31 MINUTES 20 SECONDS WEST ALONG THE NORTH LINE OF SAID EAST 87TH STREET, 455.55 FEET; THENCE NORTH 46 DEGREES 28 MINUTES 32 SECONDS WEST 56.57 FEET TO A POINT ON THE EAST LINE OF SOUTH BURLEY AVENUE; THENCE NORTH 01 DEGREES 28 MINUTES 26 SECONDS WEST ALONG SAID EAST LINE 581.40 FEET TO A POINT ON THE CENTERLINE OF EAST 86TH STREET; THENCE NORTH 88 DEGREES 26 MINUTES 13 SECONDS EAST ALONG SAID CENTERLINE 974.07 FEET TO A POINT ON A WEST LINE OF SAID BLOCK 2; THENCE NORTH 01 DEGREES 28 MINUTES 03 SECONDS WEST ALONG SAID WEST LINE 629.11 FEET TO THE POINT OF BEGINNING, (EXCEPTING THEREFROM THAT PART DEDICATED FOR 86TH STREET SOUTH 1/2 BY DEDICATION PLAT RECORDED 10-13-16 AS DOCUMENT 1628713012) IN THE CITY OF CHICAGO, COOK COUNTY, ILLINOIS.

PARCEL E:

THAT PART OF BLOCK 2 IN ILLINOIS STEEL COMPANY'S SOUTH WORKS RE-SUBDIVISION, BEING LOTS, PIECES, AND PARCELS OF LAND IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 15 EAST, AND IN SECTION 5 NORTH OF THE INDIAN BOUNDARY LINE, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 27, 1914 AS DOCUMENT NUMBER 5384242, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF BLOCK 1 IN SAID ILLINOIS STEEL COMPANY'S SOUTH WORKS RE-SUBDIVISION; THENCE NORTH 88 DEGREES 26 MINUTES 11 SECONDS EAST ALONG AN ASSUMED BEARING BEING THE NORTH LINE OF SAID BLOCK 1, A DISTANCE OF 1677.00 FEET TO AN ANGLE POINT; THENCE SOUTH 62 DEGREES 00 MINUTES 50 SECONDS EAST ALONG THE NORTHEASTERLY LINE OF SAID BLOCK 1, A DISTANCE OF 2654.83 FEET; THENCE SOUTH 05 DEGREES 29 MINUTES 17 SECONDS EAST 476.70 FEET TO A POINT ON A LINE LYING 300.00 FEET WEST OF AND PARALLEL WITH THE EAST LINE OF SAID BLOCK 1; THENCE SOUTH 06 DEGREES 15 MINUTES 26 SECONDS EAST ALONG SAID PARALLEL LINE 2423.94 FEET TO A POINT ON THE SOUTH LINE OF THE NORTH SLIP, SAID SLIP BEING LOCATED AS INDICATED IN SAID RESUBDIVISION, SAID POINT BEING THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 06 DEGREES 15 MINUTES 26 SECONDS EAST ALONG SAID PARALLEL LINE 708.26 FEET; THENCE SOUTH 88 DEGREES 55 MINUTES 23 SECONDS EAST 47.44 FEET; THENCE SOUTH 00 DEGREES 49 MINUTES 53 SECONDS EAST 140.44 FEET; THENCE NORTH 88 DEGREES 55 MINUTES 23 SECONDS WEST 34.05 FEET TO A POINT ON THE LAST DESCRIBED PARALLEL LINE; THENCE SOUTH 06 DEGREES 15 MINUTES 26 SECONDS EAST ALONG SAID PARALLEL LINE 55.25 FEET TO A POINT ON A NON-TANGENT CURVE, SAID CURVE BEING THE EASTERLY LINE OF EAST 87TH STREET AS OPENED PER DOCUMENT RECORDED DECEMBER 14, 2004 AS DOCUMENT NUMBER 0434944043; THENCE NORTHWESTERLY 95.72 FEET ALONG SAID CURVE TO THE LEFT HAVING A RADIUS OF 60.00 FEET AND WHOSE CHORD BEARS NORTH 51 DEGREES 57 MINUTES 42 SECONDS WEST 85.89 FEET TO A POINT OF TANGENCY; THENCE SOUTH 82 DEGREES 36 MINUTES 47 SECONDS WEST ALONG THE NORTH LINE OF SAID EAST 87TH STREET 1623.83 FEET TO A BEND POINT; THENCE SOUTH 88 DEGREES 31 MINUTES 20 SECONDS WEST ALONG SAID NORTH LINE 882.29 FEET TO A POINT ON AN EAST LINE OF SOUTH AVENUE 'O'- US ROUTE 41 PER PLAT OF HIGHWAYS RECORDED MARCH 9, 2006 AS DOCUMENT NUMBER 0606834023; THENCE NORTH AND EAST ALONG THE EAST AND SOUTH LINES OF SAID SOUTH AVENUE 'O'- US ROUTE 41, THE FOLLOWING 15 COURSES; THENCE NORTH 46 DEGREES 31 MINUTES 33 SECONDS WEST, 14.30 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 486.31 FEET; THENCE NORTH 43 DEGREES 28 MINUTES 20 SECONDS EAST, 14.14 FEET; THENCE NORTH 88 DEGREES 31 MINUTES 03 SECONDS EAST, 9.99 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 66.00 FEET; THENCE SOUTH 88 DEGREES 31 MINUTES 03 SECONDS WEST, 10.00 FEET; THENCE NORTH 46 DEGREES 31 MINUTES 40 SECONDS WEST, 14.14 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 333.00 FEET; THENCE NORTH 43 DEGREES 28 MINUTES 20 SECONDS EAST, 14.14 FEET; THENCE NORTH 88 DEGREES 31 MINUTES 03 SECONDS EAST, 10.00 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 66.00 FEET; THENCE SOUTH 88 DEGREES 31 MINUTES 03 SECONDS WEST, 10.00 FEET; THENCE NORTH 46 DEGREES 31 MINUTES 40 SECONDS WEST, 14.15 FEET; THENCE NORTH 01 DEGREES 34 MINUTES 23 SECONDS WEST, 206.58 FEET TO THE SOUTH LINE OF 85TH STREET PER SAID PLAT OF HIGHWAYS RECORDED MARCH 9, 2006 AS DOCUMENT NUMBER 0606834023; THENCE NORTH 88 DEGREES 31 MINUTES 11 SECONDS EAST 82.44 FEET ALONG SAID SOUTH LINE, TO A POINT ON THE WEST LINE OF SAID NORTH SLIP; THENCE SOUTH 01 DEGREES 28 MINUTES 02 SECONDS EAST ALONG SAID WEST LINE 193.13 FEET TO THE SOUTHWEST CORNER OF SAID NORTH SLIP; THENCE NORTH 88 DEGREES 31 MINUTES 57 SECONDS EAST ALONG THE SOUTH LINE OF SAID NORTH SLIP 2418.05 FEET TO THE POINT OF BEGINNING, IN THE CITY OF CHICAGO, COOK COUNTY, ILLINOIS.

PARCEL G:

LOT 24 IN BLOCK 30 OF SOUTH CHICAGO, BEING A SUBDIVISION OF THE EAST HALF OF THE WEST HALF, AND PARTS OF THE EAST FRACTIONAL HALF OF FRACTIONAL SECTION 6, NORTH OF THE INDIAN BOUNDARY LINE, AND THAT PART OF FRACTIONAL SECTION 6 SOUTH OF THE INDIAN BOUNDARY LINE, LYING NORTH OF THE MICHIGAN SOUTHERN RAILROAD, AND FRACTIONAL SECTION 5, NORTH OF THE INDIAN BOUNDARY LINE, ALL IN TOWNSHIP 37 NORTH RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN; AND ALL OF THE VACATED ALLEY LYING EAST OF AND ADJOINING SAID LOT 24, AND THAT PART OF BLOCK 3 IN ILLINOIS STEEL COMPANY'S SOUTH WORKS RESUBDIVISION OF LOTS, PIECES AND PARCELS OF LAND IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 15 EAST AND IN SECTION 5 NORTH OF THE INDIAN BOUNDARY LINE, TOWNSHIP 37, NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 27, 1914 AS DOCUMENT NUMBER 5384242, ALL DESCRIBED AS FOLLOWS: COMMENCING AT THE INTERSECTION OF THE NORTH LINE OF EAST 89TH STREET AND THE EAST LINE OF SOUTH AVENUE 'O'- US ROUTE 41, AS OPENED BY DOCUMENT RECORDED DECEMBER 14, 2004 AS DOCUMENT 04349440431; THENCE ON AN ASSUMED BEARING OF SOUTH 88 DEGREES 29 MINUTES 59 SECONDS WEST ALONG THE NORTH LINE OF SAID 89TH STREET, 100.00 FEET TO A POINT ON A LINE 20 FEET WESTERLY OF AND PARALLEL WITH THE NORTHERLY EXTENSION OF THE WEST LINE OF SAID SOUTH AVENUE 'O' (THEN KNOWN AS 'THE STRAND') IN SOUTH CHICAGO SUBDIVISION, BEING A POINT ON THE WEST LINE AS ESTABLISHED BY SAID PLAT 04349440431, SAID POINT BEING THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 88 DEGREES 29 MINUTES 59 SECONDS WEST ALONG SAID NORTH LINE, 661.36 FEET TO A POINT ON THE EAST LINE OF SOUTH MACKINAW AVENUE; THENCE NORTH 01 DEGREES 35 MINUTES 19 SECONDS WEST ALONG SAID EAST LINE 1166.93 FEET TO AN ANGLE POINT, SAID POINT BEING THE SOUTH LINE OF THE EAST 87TH STREET AS OPENED PER DOCUMENT RECORDED DECEMBER 14, 2004 AS DOCUMENT 0434944043; THENCE NORTH 44 DEGREES 59 MINUTES 57 SECONDS EAST, ALONG SAID SOUTH LINE 94.26 FEET TO AN ANGLE POINT; THENCE NORTH 88 DEGREES 31 MINUTES 20 SECONDS EAST, ALONG SAID SOUTH LINE 548.54 FEET TO AN ANGLE POINT; THENCE SOUTH 37 DEGREES 37 MINUTES 50 SECONDS EAST, ALONG SAID SOUTH LINE 67.67 FEET TO A POINT ON THE WEST LINE OF THE SOUTH AVENUE 'O'- US ROUTE 41 AS OPENED PER DOCUMENT NUMBER 0434944043; THENCE SOUTH 05 DEGREES 00 MINUTES 15 SECONDS EAST ALONG SAID WEST LINE 69.47 FEET TO AN ANGLE POINT; THENCE SOUTH 01 DEGREES 36 MINUTES 33 SECONDS EAST ALONG SAID WEST LINE, 1107.60 FEET, MORE OR LESS, TO THE POINT OF BEGINNING, IN THE CITY OF CHICAGO, COOK COUNTY, ILLINOIS, (EXCEPT THAT PART DEDICATED (WIDENING) ALONG EAST LINE THEREOF FOR SOUTH AVENUE 'O'-US ROUTE 41 PER PLAT OF HIGHWAYS RECORDED MARCH 9, 2006 AS DOCUMENT NUMBER 0606834023)

PROPERTY DESCRIPTION (CONTINUED):

PARCEL 16a:

THAT PART OF BLOCK 3 IN ILLINOIS STEEL COMPANY'S SOUTH WORKS RESUBDIVISION OF LOTS, PIECES AND PARCELS OF LAND IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 15 EAST AND IN SECTION 5 NORTH OF THE INDIAN BOUNDARY LINE, TOWNSHIP 37 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 27, 1914 AS DOCUMENT NUMBER 5384242, DESCRIBED AS FOLLOWS: BEGINNING AT THE INTERSECTION OF THE NORTH LINE OF 89TH STREET AND THE EAST LINE OF SOUTH AVENUE 'O'- US ROUTE 41, AS OPENED BY DOCUMENT RECORDED DECEMBER 14, 2004 AS DOCUMENT 0434944043; THENCE ON AN ASSUMED BEARING OF NORTH 01 DEGREES 36 MINUTES 33 SECONDS WEST ALONG THE EAST LINE OF SAID SOUTH AVENUE 'O'- US ROUTE 41, 1187.45 FEET TO AN ANGLE POINT; THENCE NORTH 43 DEGREES 27 MINUTES 29 SECONDS EAST, ALONG SAID EAST LINE 62.28 FEET TO THE SOUTH LINE OF EAST 87TH STREET AS OPENED PER DOCUMENT NUMBER 04349440431; THENCE NORTH 88 DEGREES 31 MINUTES 20 SECONDS EAST ALONG SAID SOUTH LINE 117.03 FEET; THENCE SOUTH 00 DEGREES 31 MINUTES 14 SECONDS EAST, 468.13 FEET TO AN ANGLE POINT; THENCE SOUTH 15 DEGREES 09 MINUTES 30 SECONDS WEST, 286.54 FEET TO A POINT OF CURVATURE; THENCE SOUTHERLY 531.46 FEET ALONG A CURVE TO THE LEFT, HAVING A RADIUS OF 486.00 FEET AND WHOSE CHORD BEARS SOUTH 16 DEGREES 10 MINUTES 09 SECONDS EAST 505.37 FEET; THENCE SOUTH 88 DEGREES 29 MINUTES 59 SECONDS WEST NON TANGENT TO THE LAST DESCRIBED COURSE, ALONG THE EASTERLY EXTENSION OF THE NORTH LINE OF 89TH STREET 196.62 FEET MORE, OR LESS, TO THE POINT OF BEGINNING IN THE CITY OF CHICAGO, COOK COUNTY, ILLINOIS.

PARCEL 16b:

THAT PART OF BLOCK 3 IN ILLINOIS STEEL COMPANY'S SOUTH WORKS RESUBDIVISION OF LOTS, PIECES AND PARCELS OF LAND IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 15 EAST AND IN SECTION 5 NORTH OF THE INDIAN BOUNDARY LINE, TOWNSHIP 37, NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 27, 1914 AS DOCUMENT NUMBER 5384242, DESCRIBED AS FOLLOWS: COMMENCING AT THE INTERSECTION OF THE NORTH LINE OF EAST 89TH STREET AND THE EAST LINE OF SOUTH AVENUE 'O'- US ROUTE 41 AS OPENED BY DOCUMENT RECORDED DECEMBER 14, 2004 AS DOCUMENT 04349440431; THENCE ON AN ASSUMED BEARING OF SOUTH 01 DEGREES 36 MINUTES 33 SECONDS EAST ALONG THE EAST LINE OF SAID SOUTH AVENUE 'O'- US ROUTE 41, 80.00 FEET TO THE POINT OF BEGINNING; THENCE ALONG THE EASTERLY EXTENSION OF THE SOUTH LINE OF SAID EAST 89TH STREET, NORTH 88 DEGREES 29 MINUTES 59 SECONDS EAST 60.74 FEET TO A POINT ON A NON-TANGENTIAL CURVE; THENCE SOUTHERLY 61.01 FEET ALONG SAID CURVE TO THE LEFT, HAVING A RADIUS OF 453.34 FEET WHOSE CHORD BEARS SOUTH 11 DEGREES 09 MINUTES 12 SECONDS EAST 60.96 FEET TO A POINT OF COMPOUND CURVATURE; THENCE SOUTHEASTERLY 69.65 FEET ALONG A CURVE TO THE LEFT, HAVING A RADIUS OF 478.90 FEET AND WHOSE CHORD BEARS SOUTH 19 DEGREES 10 MINUTES 32 SECONDS EAST 69.59 FEET TO A POINT OF TANGENCY; THENCE SOUTH 23 DEGREES 20 MINUTES 31 SECONDS EAST 244.22 FEET TO A POINT OF CURVATURE; THENCE SOUTHERLY 166.98 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 440.60 FEET AND WHOSE CHORD BEARS SOUTH 12 DEGREES 29 MINUTES 07 SECONDS EAST 165.98 FEET TO A POINT OF TANGENCY; THENCE SOUTH 01 DEGREES 37 MINUTES 42 SECONDS EAST, 537.58 FEET TO A POINT OF CURVATURE; THENCE SOUTHWESTERLY 198.38 FEET ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 376.60 FEET AND WHOSE CHORD BEARS SOUTH 13 DEGREES 27 MINUTES 45 SECONDS WEST 196.10 FEET TO A POINT OF TANGENCY; THENCE SOUTH 28 DEGREES 33 MINUTES 12 SECONDS WEST 72.10 FEET TO AN ANGLE POINT; THENCE SOUTH 18 DEGREES 14 MINUTES 53 SECONDS WEST 208.45 FEET TO AN ANGLE POINT; THENCE SOUTH 20 DEGREES 09 MINUTES 23 SECONDS EAST 163.11 FEET TO A POINT ON THE NORTH LINE OF THE CALUMET RIVER; THENCE SOUTH 59 DEGREES 48 MINUTES 01 SECONDS WEST ALONG SAID NORTH LINE 17.49 FEET TO THE EASTERLY CORNER OF A PARCEL OF LAND RECORDED SEPTEMBER 1972, AS DOCUMENT NUMBER 22050136; THENCE NORTH 30 DEGREES 11 MINUTES 45 SECONDS WEST ALONG THE EASTERLY LINE OF SAID PARCEL 25.00 FEET TO THE NORTHERLY CORNER OF SAID PARCEL; THENCE SOUTH 66 DEGREES 01 MINUTES 48 SECONDS WEST ALONG THE NORTHERLY LINE OF SAID PARCEL 55.33 FEET TO THE WESTERLY CORNER OF SAID PARCEL ALSO BEING A WESTERLY LINE OF SAID BLOCK 3; THENCE NORTH 29 DEGREES 44 MINUTES 33 SECONDS WEST ALONG THE LAST DESCRIBED LINE 257.44 FEET TO A POINT THAT IS 46 FEET SOUTHEASTERLY OF THE SOUTHERLY LINE OF HARBOR AVENUE; THENCE NORTH 59 DEGREES 48 MINUTES 42 SECONDS EAST ALONG A LINE PARALLEL TO AND 46 FEET SOUTHEASTERLY OF THE SOUTHERLY LINE OF HARBOR AVENUE, 105.04 FEET TO THE EAST LINE OF SOUTH AVENUE 'O' NOW US ROUTE 41, EXTENDED SOUTH; THENCE NORTH 01 DEGREES 36 MINUTES 33 SECONDS WEST ALONG THE EXTENSION OF AND THE EAST LINE OF SAID SOUTH AVENUE 'O', 1386.60 FEET TO THE POINT OF BEGINNING; TOGETHER WITH ANY AND ALL INTEREST IN LANDS ABUTTING AND LYING SOUTHERLY OF SAID PART OF BLOCK 3 AS HERETOFORE DESCRIBED AND LYING ADJACENT TO AND UNDER THE CALUMET RIVER, SAID RIVER AS IDENTIFIED ON SAID PLAT OF RESUBDIVISION, IN THE CITY OF CHICAGO, COOK COUNTY, ILLINOIS.

PARCEL 17:

THAT PART OF SECTION 32, TOWNSHIP 38 NORTH, RANGE 15, AND SECTION 5 NORTH OF THE INDIAN BOUNDARY LINE, IN TOWNSHIP 37 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE INTERSECTION OF THE NORTH LINE OF EAST 89TH STREET AND THE EAST LINE OF SOUTH AVENUE 'O'- US ROUTE 41 AS OPENED BY DOCUMENT RECORDED DECEMBER 14, 2004 AS DOCUMENT 04349440431; THENCE NORTH 88 DEGREES 29 MINUTES 59 SECONDS EAST ALONG THE EASTERLY EXTENSION OF SAID NORTH LINE OF EAST 89TH STREET 196.62 FEET TO A POINT ON THE ARC OF A CIRCLE, SAID POINT BEING THE POINT OF BEGINNING; THENCE NORTHERLY 531.46 FEET ALONG THE ARC OF A CIRCLE, CONCAVE EASTERLY, HAVING A RADIUS OF 486 FEET, AND WHOSE CHORD BEARS NORTH 16 DEGREES 10 MINUTES 09 SECONDS WEST 505.37 FEET TO A POINT OF TANGENCY; THENCE NORTH 15 DEGREES 09 MINUTES 30 SECONDS EAST 286.54 FEET; THENCE NORTH 00 DEGREES 31 MINUTES 14 SECONDS WEST 468.13 FEET TO A POINT ON A LINE LYING 100 FEET SOUTH OF AND PARALLEL WITH THE EASTERLY EXTENSION OF THE NORTH LINE OF EAST 87TH STREET, BEING NOW THE SOUTH LINE OF 87TH STREET AS OPENED BY DOCUMENT RECORDED DECEMBER 14, 2004 AS DOCUMENT 04349440431; THENCE NORTH 88 DEGREES 31 MINUTES 20 SECONDS EAST ALONG THE LAST DESCRIBED LINE 752.91 FEET; THENCE NORTH 82 DEGREES 36 MINUTES 47 SECONDS EAST 1570.37 FEET; THENCE SOUTH 15 DEGREES 07 MINUTES 23 SECONDS EAST 1491.78 FEET TO A POINT ON THE NORTHERLY LINE OF BLOCK 4 IN ILLINOIS STEEL COMPANY'S SOUTH WORKS RE-SUBDIVISION, BEING LOTS, PIECES, AND PARCELS OF LAND IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND IN SECTION 5, NORTH OF THE INDIAN BOUNDARY LINE, IN TOWNSHIP 37 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 27, 1914 AS DOCUMENT 5384242, SAID BLOCK 4 ALSO BEING GOVERNMENT LOT NUMBER 1; THENCE SOUTH 59 DEGREES 50 MINUTES 12 SECONDS WEST ALONG THE LAST DESCRIBED NORTHERLY LINE 309.94 FEET TO THE NORTHWESTERLY CORNER OF SAID BLOCK 4; THENCE SOUTH 30 DEGREES 09 MINUTES 47 SECONDS EAST ALONG THE WESTERLY LINE OF SAID BLOCK 4 A DISTANCE OF 150 FEET TO THE SOUTH LINE OF BLOCK 3; THENCE SOUTH 59 DEGREES 50 MINUTES 14 SECONDS WEST ALONG THE SOUTH LINE OF SAID BLOCK 3 AND THE WESTERLY EXTENSION THEREOF, A DISTANCE OF 2045.26 FEET TO THE WEST EDGE OF A SHEET PILE WALL; THENCE NORTH 62 DEGREES 14 MINUTES 22 SECONDS WEST ALONG SAID WEST EDGE OF SAID WALL, 16.67 FEET; THENCE NORTH 64 DEGREES 26 MINUTES 58 SECONDS WEST CONTINUING ALONG THE WEST EDGE OF SAID WALL 33.72 FEET; THENCE NORTH 20 DEGREES 18 MINUTES 07 SECONDS WEST 140.94 FEET; THENCE NORTH 19 DEGREES 31 MINUTES 11 SECONDS WEST CONTINUING ALONG SAID WEST EDGE 256.73 FEET; THENCE NORTH 19 DEGREES 58 MINUTES 49 SECONDS WEST CONTINUING ALONG SAID WEST EDGE 422.23 FEET; THENCE NORTH 19 DEGREES 49 MINUTES 22 SECONDS WEST CONTINUING ALONG SAID WEST EDGE 193.84 FEET; THENCE NORTH 19 DEGREES 34 MINUTES 09 SECONDS WEST CONTINUING ALONG SAID WEST EDGE AND THE NORTHERLY EXTENSION OF SAID WEST EDGE 214.38 FEET; THENCE NORTH 63 DEGREES 25 MINUTES 08 SECONDS WEST 106.94 FEET TO A POINT OF CURVATURE; THENCE NORTHWESTERLY 135.06 FEET ALONG THE ARC OF A CIRCLE, CONCAVE EASTERLY, HAVING A RADIUS OF 486 FEET, AND WHOSE CHORD BEARS NORTH 55 DEGREES 27 MINUTES 28 SECONDS WEST 134.62 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

EASEMENT PARCEL FOR THE BENEFIT OF PARCEL 17:

PERPETUAL, NON-EXCLUSIVE EASEMENT AS CREATED BY ACCESS AND UTILITY EASEMENT AGREEMENTS EXECUTED BY USX CP AND SOLO CUP COMPANY RECORDED JULY 18, 2001 AS DOCUMENT 0010642149 FOR THE PURPOSE OF CONSTRUCTING, MAINTAINING AND REPAIRING AN ACCESS ROAD, CURB CUTS, CURBING AND REASONABLY NECESSARY RELATED TRAFFIC CONTROL SIGNS AND GATES AND OTHER SURFACE IMPROVEMENTS REASONABLY BENEFITING INGRESS AND EGRESS BETWEEN THE SOLO PARCEL AND SOUTH AVENUE 'O'- US ROUTE 41 WITHIN THE ACCESS AND UTILITY EASEMENT; VEHICULAR AND PEDESTRIAN INGRESS AND EGRESS OVER AND ACROSS THE ACCESS ROAD BY SOLO, ITS TENANTS AND LICENSEES OR THEIR RESPECTIVE EMPLOYEES OR INVITEES AND INSTALLING, CONSTRUCTING, INSPECTING, OPERATING, REPLACING, RENEWING, ALTERING, ENLARGING, REMOVING, REPAIRING, CLEANING AND MAINTAINING ELECTRICAL, CABLE TELEVISION, COMMUNICATION, GAS, TELEPHONE, WATER, SANITARY SEWER, STORM SEWER OR OTHER UTILITY LINES AND APPURTENANCES AND SUCH OTHER INSTALLATIONS AND SERVICE CONNECTIONS AS MAY BE REQUIRED TO FURNISH UTILITY SERVICES TO THE SOLO PARCEL OVER THE FOLLOWING DESCRIBED PARCELS OF LAND: THAT PART OF BLOCK 3 IN ILLINOIS STEEL COMPANY'S SOUTH WORKS RESUBDIVISION OF LOTS, PIECES AND PARCELS OF LAND IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 15 EAST AND IN SECTION 5 OF THE INDIAN BOUNDARY LINE, TOWNSHIP 37 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE INTERSECTION OF THE NORTH LINE OF 89TH STREET AND THE EAST LINE OF SOUTH AVENUE 'O'-US ROUTE 41 AS OPENED BY DOCUMENT RECORDED DECEMBER 14, 2004 AS DOCUMENT 04349440431; THENCE ON AN ASSUMED BEARING ON NORTH 88 DEGREES 29 MINUTES 59 SECONDS EAST ALONG EASTERLY EXTENSION OF THE NORTH LINE OF SAID 89TH STREET, A DISTANCE OF 196.62 FEET TO A POINT ON A NON-TANGENTIAL CURVE CONCAVE TO THE NORTHEAST HAVING A RADIUS OF 486.00 FEET AND WHOSE CORD BEARS SOUTH 55 DEGREES 27 MINUTES 28 SECONDS EAST; THENCE SOUTHEASTERLY 135.06 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 15 DEGREES 55 MINUTES 19 SECONDS TO A POINT; THENCE SOUTH 63 DEGREES 25 MINUTES 10 SECONDS EAST; A DISTANCE OF 1.68 FEET TO A POINT; THENCE SOUTH 88 DEGREES 29 MINUTES 59 SECONDS WEST, A DISTANCE OF 306.80 FEET TO A POINT ON THE SAID EAST LINE OF SAID SOUTH AVENUE 'O'- US ROUTE 41, FORMERLY KNOWN AS THE STRAND; THENCE NORTH 1 DEGREE 36 MINUTES 33 SECONDS WEST ALONG THE SAID EAST LINE OF SAID SOUTH AVENUE 'O', A DISTANCE OF 80.00 FEET, MORE OR LESS, TO THE POINT OF BEGINNING (EXCEPTING THEREFROM THAT PART FALLING PARCEL 25a).

PARCEL 25a:

THAT PART OF BLOCK 3 IN ILLINOIS STEEL COMPANY'S SOUTH WORKS RESUBDIVISION, BEING LOTS, PIECES, AND PARCELS OF LAND IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 15 EAST, AND IN SECTION 5 NORTH OF THE INDIAN BOUNDARY LINE, IN TOWNSHIP 37 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 27, 1914 AS DOCUMENT NUMBER 5384242, DESCRIBED AS FOLLOWS: BEGINNING AT THE INTERSECTION OF THE NORTH LINE OF EAST 89TH STREET AND THE EAST LINE OF SOUTH AVENUE 'O'-US ROUTE 41 AS OPENED BY DOCUMENT RECORDED DECEMBER 14, 2004 AS DOCUMENT 04349440431; THENCE NORTH 88 DEGREES 29 MINUTES 59 SECONDS EAST ALONG THE EASTERLY EXTENSION OF SAID NORTH LINE OF EAST 89TH STREET 52.77 FEET; THENCE SOUTH 07 DEGREES 17 MINUTES 53 SECONDS EAST 80.41 FEET TO A POINT ON THE EASTERLY EXTENSION OF THE SOUTH LINE OF SAID EAST 89TH STREET; THENCE SOUTH 88 DEGREES 29 MINUTES 59 SECONDS WEST ALONG THE LAST DESCRIBED LINE 60.74 FEET TO A POINT ON THE EAST LINE OF SAID SOUTH AVENUE 'O'- US ROUTE 41, FORMERLY KNOWN AS THE STRAND; THENCE NORTH 01 DEGREES 36 MINUTES 33 SECONDS WEST ALONG THE LAST DESCRIBED LINE 80.00 FEET TO THE POINT OF BEGINNING, IN THE CITY OF CHICAGO, COOK COUNTY, ILLINOIS.

PARCEL 26:

LOTS 17 THROUGH 29, BOTH INCLUSIVE, IN BLOCK 3, IN MARY P. M. PALMER'S ADDITION TO SOUTH CHICAGO, BEING A SUBDIVISION OF THE NORTH 1/2 OF THE SOUTH 1/2 OF THE SOUTH 1/2, (EXCEPTING THEREFROM THE WEST 155 FEET OF THE SOUTH 445 FEET); THE WEST 5 ACRES OF THE SOUTH 1/2 OF THE NORTH 1/2 OF THE SOUTH 1/2; AND THE SOUTH 1 ACRE OF THE EAST 5 ACRES OF THE WEST 10 ACRES OF THE SOUTH 1/2 OF THE NORTH 1/2 OF THE SOUTH 1/2, ALL OF FRACTIONAL SECTION 32, TOWNSHIP 38 NORTH, RANGE 15, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

PARCEL T-1:

THAT PART OF THE WEST 1/2 OF LOT 8 AND ALL OF LOTS 9 AND 10 IN MAHAN'S SUBDIVISION OF THE EAST HALF OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 31, TOWNSHIP 38 NORTH, RANGE 15, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AUGUST 9, 1889 AS DOCUMENT 1140084, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHWEST CORNER OF SAID LOT 10; THENCE NORTH 01 DEGREES 25 MINUTES 07 SECONDS WEST, ALONG THE WEST LINE OF SAID LOT 10, A DISTANCE OF 40.21 FEET; THENCE NORTH 02 DEGREES 50 MINUTES 48 SECONDS EAST, 54.61 FEET; THENCE SOUTH 60 DEGREES 34 MINUTES 36 SECONDS EAST, 65.36 FEET; THENCE SOUTH 64 DEGREES 02 MINUTES 19 SECONDS EAST, 10.97 FEET TO A POINT ON THE EAST LINE OF THE WEST 1/2 OF SAID LOT 8; THENCE SOUTH 01 DEGREES 23 MINUTES 43 SECONDS EAST, ALONG SAID EAST LINE, 55.93 FEET TO A POINT ON THE SOUTH LINE OF SAID LOT 8; THENCE SOUTH 88 DEGREES 25 MINUTES 32 SECONDS WEST, ALONG THE SOUTH LINE OF SAID LOTS 8, 9 AND 10, FOR A DISTANCE OF 69.90 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

PARCEL T-2:

THAT PART OF LOTS 2, 3, 4, 5, 6, 7 AND THE EAST HALF OF LOT 8, IN MAHAN'S SUBDIVISION, DEDICATED FOR PART OF INTERSECTION OF U.S. 41, 79TH STREET AND BRANDON ROAD BY PLAT OF DEDICATION RECORDED MARCH 9, 2006 AS DOCUMENT 0606834023 (PART OF PARCEL OFV0019 THEREIN); AND THAT PART OF THE NORTH HALF OF THE 16-FOOT EAST-WEST ALLEY, SOUTH AND ADJOINING LOTS 1, 2 AND 3, IN MAHAN'S SUBDIVISION BEING A SUBDIVISION OF THE EAST HALF OF THE NORTHEAST QUARTER OF SECTION 31, TOWNSHIP 38 NORTH, RANGE 15, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AUGUST 9, 1889 AS DOCUMENT 1140084; AS VACATED BY ORDINANCE RECORDED OCTOBER 13, 2016 AS DOCUMENT 1628713011 WITH PLAT RECORDED OCTOBER 13, 2016 AS DOCUMENT 1628713013, MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHWEST CORNER OF SAID LOT 10; THENCE NORTH 01 DEGREES 25 MINUTES 07 SECONDS WEST, ALONG THE WEST LINE OF SAID LOT 10, A DISTANCE OF 40.21 FEET; THENCE NORTH 02 DEGREES 50 MINUTES 48 SECONDS EAST, 54.61 FEET; THENCE SOUTH 60 DEGREES 34 MINUTES 36 SECONDS EAST, 65.36 FEET; THENCE SOUTH 64 DEGREES 02 MINUTES 19 SECONDS EAST, 10.97 FEET TO A POINT ON THE WEST LINE OF THE EAST HALF OF SAID LOT 8, BEING THE POINT OF BEGINNING; THENCE SOUTH 64 DEGREES 02 MINUTES 19 SECONDS EAST, 31.26 FEET TO A POINT OF CURVATURE; THENCE EASTERLY 68.71 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE LEFT, HAVING A RADIUS OF 321.00 FEET AND WHOSE CHORD BEARS SOUTH 70 DEGREES 10 MINUTES 16 SECONDS EAST, 68.58 FEET TO A POINT OF TANGENCY; THENCE SOUTH 76 DEGREES 18 MINUTES 12 SECONDS EAST, 61.38 FEET; THENCE SOUTH 71 DEGREES 13 MINUTES 38 SECONDS EAST, 23.84 FEET TO A POINT ON THE SOUTH LINE OF THE NORTH HALF OF SAID 16-FOOT EAST-WEST ALLEY; THENCE SOUTH 88 DEGREES 25 MINUTES 32 SECONDS WEST, ALONG SAID SOUTH LINE, 56.04 FEET TO A POINT ON THE WEST LINE OF THE EAST 78.00 FEET OF SAID 16-FOOT EAST-WEST ALLEY; THENCE NORTH 01 DEGREES 28 MINUTES 02 SECONDS WEST, ALONG SAID WEST LINE, 8.00 FEET TO A POINT ON THE NORTH LINE OF SAID 16-FOOT EAST-WEST ALLEY; THENCE SOUTH 88 DEGREES 25 MINUTES 32 SECONDS WEST, ALONG SAID NORTH LINE, ALSO BEING THE SOUTH LINE OF SAID LOTS 3, 4, 5, 6, 7 AND 8, FOR A DISTANCE OF 117.28 FEET TO A POINT ON THE WEST LINE OF THE EAST HALF OF SAID LOT 8; THENCE NORTH 01 DEGREES 23 MINUTES 43 SECONDS WEST, ALONG SAID EAST LINE, 55.93 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

NOTES:

THIS SURVEY REFLECTS MATTERS OF TITLE AS LISTED ON A COMMITMENT FOR TITLE INSURANCE BY CHICAGO TITLE INSURANCE COMPANY, NUMBER 1401 008984097 D2 WITH AN EFFECTIVE DATE OF MAY 31, 2017.

UNDERGROUND UTILITIES ARE SHOWN BY USING PHYSICAL EVIDENCE FOUND ON THE SURFACE AND/OR FROM UTILITY COMPANY FIELD STAKES, AND/OR ENGINEERING DESIGN PLANS. THEREFORE, THEIR LOCATIONS ARE APPROXIMATE AND SUSPECTED AND MAY NOT BE COMPLETELY ACCURATE. FOR MORE ACCURATE LOCATION, FIELD EXCAVATE. OTHER UTILITIES NOT SHOWN MAY EXIST. NO UNDERGROUND UTILITIES WERE LOCATED. BEFORE DIGGING CALL J.U.L.I.E. AT 1-800-892-0123.

ALL DIMENSIONS ARE IN FEET AND DECIMAL PARTS THEREOF. NO DISTANCES OR ANGLES SHOWN HEREON MAY BE ASSUMED BY SCALING.

TAX P.I.N.s (PER TITLE COMMITMENT):

21-31-207-040-0000	21-32-211-036-0000	21-32-213-015-0000
21-32-100-005-0000	21-32-211-037-0000	21-32-213-017-0000
21-32-100-006-0000	21-32-211-038-0000	21-32-213-018-0000
21-32-100-012-0000	21-32-211-039-0000	21-32-500-002-0000
21-32-100-015-0000	21-32-212-002-0000	26-05-200-001-0000
21-32-100-016-0000	21-32-213-009-0000	26-05-200-007-0000
21-32-211-018-0000	21-32-213-010-0000	26-05-200-008-0000
21-32-211-019-0000	21-32-213-011-0000	26-05-200-009-0000
21-32-211-020-0000	21-32-213-013-0000	26-05-200-010-0000
21-32-211-021-0000	21-32-213-014-0000	26-05-200-013-0000

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY IN ADDITION TO THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS.

SPACECO, INC IS AN ILLINOIS PROFESSIONAL DESIGN FIRM REGISTERED UNDER LICENSE NUMBER 184-001157.

BASED UPON A REVIEW OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBERS 170074C0545J AND 170074C0660J, MAPS REVISED AUGUST 19, 2008, IT IS OUR CONSIDERED OPINION THAT THIS PROPERTY LIES IN "ZONE X (UNSHADED)" AS IDENTIFIED BY SAID F.I.R.M. MAP. (TABLE A, ITEM 3)

CURRENT ZONING CLASSIFICATION AND BUILDING SETBACK REQUIREMENTS, HEIGHT AND FLOOR SPACE AREA RESTRICTIONS AS SET FORTH IN THAT CLASSIFICATION FOR THE SURVEYED PROPERTY WAS NOT PROVIDED TO THIS SURVEYOR AS REQUIRED BY THE MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS EFFECTIVE 2/23/2016. (TABLE A, ITEM 6A)

SUBSTANTIAL FEATURES ARE SHOWN HEREON. (TABLE A ITEM 8)

AERIAL PHOTOGRAPHY PRODUCED BY SPACECO ON MARCH 29, 2017 UTILIZING POST-PROCESSED IMAGES AND ILLINOIS STATE PLANE COORDINATES VIA GNSS REAL TIME NETWORK (REILNET) AND EXCEEDS RECOMMENDED ACCURACIES FOR FEATURE & TOPOGRAPHIC SITE PLANS & SPECS PER FEDERAL GEOGRAPHIC DATA COMMITTEE (FGDC TABLE A-3). (TABLE A ITEM 15)

THERE IS NO OBSERVABLE EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS WITHIN RECENT MONTHS. (TABLE A ITEM 16)

NOTES FROM TITLE COMMITMENT:

G 11. RIGHTS, IF ANY, OF THE UNITED STATES OF AMERICA, THE STATE OF ILLINOIS, THE MUNICIPALITY AND THE PUBLIC IN AND TO THAT PART OF THE LAND LYING WITHIN THE BED OF THE CALUMET RIVER; AND THE RIGHTS OF OTHER OWNERS OF LAND BORDERING ON THE RIVER IN RESPECT TO THE WATER OF SAID RIVER. (SURVEYOR'S NOTE: THE EDGE OF WATER OF FOR THE CALUMET RIVER AT THE TIME OF SURVEY HAS BEEN SHOWN HEREON.)

H 12. TERMS, PROVISIONS AND CONDITIONS CONTAINED IN AN UNRECORDED AGREEMENT DATED JUNE 1, 1909, JUNE 29, 1921 AND MARCH 19, 1929 BETWEEN ILLINOIS STEEL COMPANY AND CHICAGO LAKE SHORE AND EASTERN RAILROAD COMPANY CONCERNING THE USE OF PORTIONS OF THE LAND, THE OWNERSHIP OF TRACKS CONSTRUCTED OR TO BE CONSTRUCTED THEREON AND THE EXERCISE OF CERTAIN RIGHTS BY CHICAGO LAKE SHORE AND EASTERN RAILWAY COMPANY, ITS SUCCESSORS, GRANTEES, ASSIGNS, LESSEES AND LICENSEES AS DISCLOSED BY DEED RECORDED OCTOBER 1, 1935 AS DOCUMENT 11686963. (SURVEYOR'S NOTE: SAID DEED INCLUDES PARCELS A, B, C, PART OF D, E, G, 16A, 16B AND 25A, BUT CONTAINS NO PLOTTABLE EASEMENTS OR RESTRICTIONS.)

I 13. EASEMENT IN FAVOR OF THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO, AND ITS SUCCESSORS AND ASSIGNS, TO INSTALL, OPERATE AND MAINTAIN ALL EQUIPMENT NECESSARY FOR THE PURPOSE OF SERVING THE LAND AND OTHER PROPERTY, TOGETHER WITH THE RIGHT OF ACCESS TO SAID EQUIPMENT, AND THE PROVISIONS RELATING THERETO CONTAINED IN THE GRANT RECORDED OCTOBER 30, 1978 AS DOCUMENT NO. 24693101 AND AMENDED BY DOCUMENT 24693102. (SURVEYOR'S NOTE: SAID EASEMENT BURDENS PARCEL 16B AND OTHER PROPERTY. THE LOCATION OF SAID EASEMENT WAS FURTHER DEFINED BY DOCUMENT 98089543. SAID EASEMENT HAS BEEN SHOWN HEREON.)

J 14. EASEMENT IN FAVOR OF THE ILLINOIS BELL TELEPHONE COMPANY, AND ITS SUCCESSORS AND ASSIGNS, TO INSTALL, OPERATE AND MAINTAIN ALL EQUIPMENT NECESSARY FOR THE PURPOSE OF SERVING THE LAND AND OTHER PROPERTY, TOGETHER WITH THE RIGHT OF ACCESS TO SAID EQUIPMENT, AND THE PROVISIONS RELATING THERETO CONTAINED IN THE GRANT RECORDED AS DOCUMENT 86020598, AFFECTING A STRIP OF LAND 10.00 FEET IN WIDTH RUNNING THROUGH A PORTION OF THE LAND AND OTHER PROPERTY. PARTIAL RELEASE OF EASEMENT RECORDED NOVEMBER 22, 2004 AS DOCUMENT 0432708003. (SURVEYOR'S NOTE: SAID EASEMENT BURDENS PARCEL G AND HAS BEEN SHOWN HEREON.)

K 15. ENVIRONMENTAL NO FURTHER REMEDIATION LETTERS FROM THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AS FOLLOWS: 1. RECORDED AUGUST 27, 1997 AS DOCUMENT 97630473. (SURVEYOR'S NOTE: SAID LETTER BURDENS PARCELS A, B, C, PART OF D, E, G, 16A, 16B, 17 AND 25A, BUT CONTAINS NO PLOTTABLE EASEMENTS OR RESTRICTIONS.) 2. RECORDED AUGUST 5, 2010 AS DOCUMENT 1021710085. (SURVEYOR'S NOTE: SAID LETTER BURDENS THE REMAINDER OF PARCEL D NOT COVERED IN DOCUMENT 97630473, BUT CONTAINS NO PLOTTABLE EASEMENTS OR RESTRICTIONS.)

L 16. EASEMENT IN FAVOR OF THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO, A MUNICIPAL CORPORATION, AND ITS SUCCESSORS AND ASSIGNS, TO INSTALL, OPERATE AND MAINTAIN ALL EQUIPMENT NECESSARY FOR THE PURPOSE OF SERVING THE LAND AND OTHER PROPERTY, TOGETHER WITH THE RIGHT OF ACCESS TO SAID EQUIPMENT, AND THE PROVISIONS RELATING THERETO CONTAINED IN THE GRANT MADE BY USX CORPORATION RECORDED FEBRUARY 3, 1998 AS DOCUMENT NO. 98089543. (SURVEYOR'S NOTE: SAID EASEMENT BURDENS PARCEL 16B AND OTHER PROPERTY AND HAS BEEN SHOWN HEREON. THE TEMPORARY EASEMENT GRANTED THEREIN EXPIRED OCTOBER 1, 2002.)

M 17. ACCESS, EMERGENCY TRUCK AND UTILITY EASEMENT AS RESERVED IN THE ACCESS AND UTILITY EASEMENT FROM USX CORPORATION TO SOLO CUP COMPANY DATED JUNE 28, 2001 AND RECORDED JULY 18, 2001 AS DOCUMENT 0010642149 AND AS SET FORTH IN CONVEYANCE OF THAT PART OF SAID EASEMENT AREA CONTAINED IN PARCEL 25B IN SPECIAL WARRANTY DEED FROM USX CORPORATION AND THE CITY OF CHICAGO RECORDED JULY 18, 2001 AS DOCUMENT 0010642158, AS RE-RECORDED SEPTEMBER 14, 2006 AS DOCUMENT 0625734039 AND RE-RECORDED OCTOBER 31, 2008 AS DOCUMENT 0830518084, RESERVING EASEMENTS FOR USX AND FOR COMMONWEALTH EDISON AND THE TERMS AND CONDITIONS THEREIN. (SURVEYOR'S NOTE: SAID ACCESS, EMERGENCY TRUCK AND UTILITY EASEMENT BURDENS ALL OF PARCEL 25A AND OTHER PROPERTY AND HAS BEEN SHOWN HEREON. SAID DOCUMENT ALSO RESERVES A WATER INTAKE/OUTFLOW FACILITY EASEMENT OVER PART OF PARCEL E AND OTHER PROPERTY THAT APPEARS TO HAVE BEEN ABANDONED AND IS SHOWN HEREON FOR REFERENCE.)

N 18. TERMS, CONDITIONS AND PROVISIONS OF REDEVELOPMENT AGREEMENT RECORDED JULY 18, 2001 AS DOCUMENT 0010642153 BY AND BETWEEN THE CITY OF CHICAGO AND SOLO CUP COMPANY RELATING TO THE PROJECT, PARK LAND, STORMWATER, SEAWALL CONSTRUCTION AND MAINTENANCE, CONSERVATION EASEMENT, FINANCING, CONDITIONS PRECEDENT, COMPLETION OF CONSTRUCTION, COVENANTS, REPRESENTATIVES AND WARRANTIES, ENVIRONMENTAL MATTERS AND OTHERS. (SURVEYOR'S NOTE: SAID LETTER AFFECTS PARCEL 17, BUT CONTAINS NO PLOTTABLE EASEMENTS OR RESTRICTIONS.)

O 19. EASEMENT AGREEMENT RECORDED JULY 18, 2001 AS DOCUMENT 0010642154 MADE BY AND BETWEEN SOLO CUP COMPANY AND THE CITY OF CHICAGO GRANTING A SEAWALL EASEMENT, CONSTRUCTION EASEMENT, AND CONSERVATION EASEMENT AND THE TERMS AND CONDITIONS AS SET FORTH THEREIN. (SURVEYOR'S NOTE: SAID AGREEMENT GRANTS A SEAWALL EASEMENT, CONSTRUCTION EASEMENT AND CONSERVATION EASEMENT BURDENS PARCEL 17 AND HAS BEEN SHOWN HEREON.)

P 20. TERMS, PROVISIONS, CONDITIONS AND LIMITATIONS SET FORTH IN THE SOUTH WORKS INDUSTRIAL REDEVELOPMENT PROJECT AREA - USX CORPORATION REDEVELOPMENT AGREEMENT MADE BY AND BETWEEN THE CITY OF CHICAGO AND USX CORPORATION, A DELAWARE CORPORATION, A COPY OF WHICH WAS RECORDED JULY 18, 2001 AS DOCUMENT 0010642155. NOTE ACKNOWLEDGEMENT OF SAME MADE BY UNITED STATES STEEL LLC RECORDED JULY 18, 2001 AS DOCUMENT NO. 0010642145. JOINDER AND CERTIFICATION RECORDED JULY 18, 2001 AS DOCUMENT 0010642152 MADE BY UNITED STATES STEEL LLC, A DELAWARE LIMITED LIABILITY COMPANY, SUCCESSOR IN INTEREST BY MERGE ON JULY 2, 2001 TO USX CORPORATION, A DELAWARE CORPORATION. (SURVEYOR'S NOTE: SAID AGREEMENT BURDENS PARCELS A, B, C, D, E, G, 16A, 16B, 17 AND 25A, BUT CONTAINS NO PLOTTABLE EASEMENTS OR RESTRICTIONS.)

Q 21. COVENANTS AND RESTRICTIONS RELATING TO "GREENING" OF LAKEFRONT PARK SOUTHEAST PARCEL; INSTALLMENT SALES AGREEMENT; ALTERNATIVE TO CONVEY (SUBJECT TO REVERSION IN USX AFFECTING OTHER PROPERTY NOT NOW IN QUESTION), POST CLOSING CONVEYANCES, ROADWAY IMPROVEMENTS, INSTALLMENT SALES AGREEMENT, CREATION OF CONVENANTS RESTRICTING LAND USES, SUNSET CONTINGENCY, AND ENVIRONMENTAL MATTERS CONTAINED IN THE LAND CONVEYANCE AND USE AGREEMENT MADE BY AND BETWEEN THE CITY OF CHICAGO AND USX CORPORATION RECORDED JULY 18, 2001 AS DOCUMENT NO. 0010642156. NOTE ACKNOWLEDGEMENT OF SAME MADE BY UNITED STATES STEEL LLC RECORDED JULY 18, 2001 AS DOCUMENT NO. 0010642145. JOINDER AND CERTIFICATION RECORDED JULY 18, 2001 AS DOCUMENT 0010642152 MADE BY UNITED STATES STEEL LLC, A DELAWARE LIMITED LIABILITY COMPANY, SUCCESSOR IN INTEREST BY MERGE ON JULY 2, 2001 TO USX CORPORATION, A DELAWARE CORPORATION. (SURVEYOR'S NOTE: SAID AGREEMENT BURDENS PARCELS A, B, C, D, E, G, 16A, 16B, 17 AND 25A, BUT CONTAINS NO PLOTTABLE EASEMENTS OR RESTRICTIONS.)

R 22. TERMS AND CONDITIONS OF INSTALLMENT SALE AGREEMENT ENTERED INTO BY AND BETWEEN CITY OF CHICAGO AND USX CORPORATION, DATED JUNE 28, 2001 AND RECORDED JULY 18, 2001 AS DOCUMENT 0010642157, PROVIDING FOR, BUT NOT LIMITED TO EXCLUSIVE SALE OF CONVEYANCE PARCELS TO CITY OF CHICAGO, RELEASING CONVEYED PARCELS FROM TERMS OF SAID AGREEMENT AND CONVEYANCE OF LAND FOR THE ROUTE 41 RE-ALIGNMENT AND LAKEFRONT CONVEYANCE PARCELS. NOTE ACKNOWLEDGEMENT OF SAME MADE BY UNITED STATES STEEL LLC RECORDED JULY 18, 2001 AS DOCUMENT NO. 0010642145. JOINDER AND CERTIFICATION RECORDED JULY 18, 2001 AS DOCUMENT 0010642152 MADE BY UNITED STATES STEEL LLC, A DELAWARE LIMITED LIABILITY COMPANY, SUCCESSOR IN INTEREST BY MERGE ON JULY 2, 2001 TO USX CORPORATION, A DELAWARE CORPORATION WE NOTE RIGHT, TITLE AND INTEREST OF THE CITY OF CHICAGO IN AND TO PARTS OF THE LAND DESCRIBED ON SCHEDULE A PURSUANT TO SAID INSTALLMENT SALE AGREEMENT. (SURVEYOR'S NOTE: SAID AGREEMENT BURDENS THE SURVEYED PROPERTY. ROUTE 41 RELOCATION PARCELS BURDEN PARTS OF PARCELS A, C AND D. LAKEFRONT CONVEYANCE PARCELS BURDEN PARTS OF PARCELS A AND B. SEE DETAIL DEPICTING PORTIONS AFFECTED BY SAID AGREEMENT.)

AM 23. NON EXCLUSIVE EASEMENT IN FAVOR OF THE CITY OF CHICAGO FOR THE PURPOSE OF VEHICULAR AND PEDESTRIAN INGRESS AND EGRESS RECORDED JULY 18, 2001 AS DOCUMENT 0010642400, AND THE TERMS AND PROVISIONS CONTAINED THEREIN. (SURVEYOR'S NOTE: SAID EASEMENT DOES NOT BURDEN THE SURVEYED PROPERTY. IT SHOULD BURDEN PARCEL 25A, BUT APPEARS TO HAVE BEEN RECORDED WITH THE LEGAL DESCRIPTIONS FOR PARCELS 25A AND 25B SWITCHED.)

T 24. EASEMENTS OR CLAIMS OF EASEMENTS TO MAINTAIN UTILITY POLES AND AERIAL WIRES AS TO PARCELS A, D AND E HEREIN, (NOTE 6 ON SURVEY); AND THE ORE DOCK RETAINING WALLS AND THE TUNNEL LOCATED ON PARCEL E, AS DISCLOSED BY SURVEY BY ALFRED BENESCH & COMPANY DATED AUGUST 3, 2004 AND REVISED NOVEMBER 17, 2004. (SURVEYOR'S NOTE: A COPY OF SAID SURVEY WAS NOT PROVIDED TO THIS SURVEYOR. EXISTING CONDITIONS AS OF THE TIME OF SURVEY ALONG THE LIMITS OF PARCELS A, D AND E HAVE BEEN SHOWN HEREON.)

U 25. RIGHTS OF THE MUNICIPALITY, THE STATE OF ILLINOIS, THE PUBLIC AND ADJOINING OWNERS IN AND TO THE ALLEYWAY AS IMPROVED, OCCUPIED AND USED LOCATED ALONG THE MOST NORTHERLY SOUTH LINE OF PARCEL A AS DISCLOSED BY SURVEY BY ALFRED BENESCH & COMPANY DATED AUGUST 3, 2004 AND REVISED NOVEMBER 17, 2004 (NOTE 7 PAGE 1). AFFECTS SOUTH FOOTAGE ALONG MOST WESTERLY, SOUTHERLY LINE OF PARCEL A, SOUTH OF RETAINING WALL, BEING USED AS AN ALLEY BY OWNERS SOUTH AND ADJOINING. (SURVEYOR'S NOTE: A COPY OF SAID SURVEY WAS NOT PROVIDED TO THIS SURVEYOR. EXISTING CONDITIONS AS OF THE TIME OF SURVEY ALONG SAID MOST NORTHERLY SOUTH LINE OF PARCEL A HAVE BEEN SHOWN HEREON.)

V 26. TERMS AND CONDITIONS CONTAINED IN THE CHICAGO LAKESIDE DEVELOPMENT PHASE 1 REDEVELOPMENT AGREEMENT DATED AS OF DECEMBER 23, 2010 AND RECORDED JANUARY 5, 2011 AS DOCUMENT 1100533028 BETWEEN THE CITY OF CHICAGO AND CHICAGO LAKESIDE DEVELOPMENT, LLC, A DELAWARE LIMITED LIABILITY COMPANY, AS TO PHASE 1 DEVELOPMENT, FINANCING AND CONSTRUCTION. (SURVEYOR'S NOTE: SAID AGREEMENT BURDENS ALL OF PARCEL A AND OTHER PROPERTY, BUT CONTAINS NO PLOTTABLE EASEMENTS OR RESTRICTIONS.)

AN 27. RIGHTS OF THE PUBLIC AND QUASI-PUBLIC UTILITIES, IF ANY, FOR MAINTENANCE THEREIN OF POLES, CONDUITS, SEWERS AND OTHER FACILITIES IN AND TO THAT PART OF PARCEL T-2 FALLING IN: THE INTERSECTION OF U.S. 41, 79TH STREET AND BRANDON ROAD BY PLAT OF DEDICATION RECORDED MARCH 9, 2006 AS DOCUMENT 0606834023 (PART OF PARCEL OFV0019 THEREIN); AND IN THE NORTH 1/2 OF THE 16 FOOT EAST TO WEST ALLEY SOUTH OF AND ADJOINING LOT 2 AND SOUTH OF AND ADJOINING PARTS OF LOTS 1 AND 3 IN MAHAN'S SUBDIVISION. (SURVEYOR'S NOTE: SAID RIGHTS MAY BURDEN PARCEL T-2, BUT ARE NOT PLOTTABLE.)

AO 28. EASEMENT RESERVED IN FAVOR OF COMMONWEALTH EDISON AND ITS SUCCESSORS AND ASSIGNS, TO INSTALL, OPERATE AND MAINTAIN ALL EQUIPMENT NECESSARY FOR THE PURPOSE OF SERVING THE LAND AND OTHER PROPERTY, TOGETHER WITH THE RIGHT OF ACCESS TO SAID EQUIPMENT, AND THE PROVISIONS RELATING THERETO CONTAINED IN THE RESERVATION IN SECTION 4 OF THE ORDINANCE PASSED MAY 18, 2016, A COPY OF WHICH WAS RECORDED OCTOBER 13, 2016 AS DOCUMENT 1628713011 (PLAT RECORDED OCTOBER 13, 2016 AS DOCUMENT 1628713013).
(SURVEYOR'S NOTE: SAID EASEMENT BURDENS ALL OF PARCEL T-2.)

AP 29. CONDITION AND COVENANT CONTAINED IN DEED FROM THE CITY OF CHICAGO TO CHICAGO LAKESIDE DEVELOPMENT, LLC DATED OCTOBER 6, 2016 AND RECORDED OCTOBER 13, 2016 AS DOCUMENT 1628713014, THAT THE LAND WILL BE USED AS A POCKET PARK FOR PERIOD OF TWENTY (20) YEARS FROM AND AFTER THE DATE OF RECORDING OF SAID DEED. (SURVEYOR'S NOTE: SAID COVENANT BURDENS PARCEL T-1, BUT IS NOT PLOTTABLE.)

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

TO: CHICAGO TITLE INSURANCE COMPANY
AND TO: CHICAGO LAKESIDE DEVELOPMENT LLC FORMERLY KNOWN AS LAKESIDE LAND, LLC, A DELAWARE LIMITED LIABILITY COMPANY
AND TO: UNITED STATES STEEL CORPORATION, A CORPORATION OF DELAWARE, AS SUCCESSOR BY MERGER TOUSX CORPORATION, A CORPORATION OF DELAWARE
AND TO: CLD PARCEL 14, LLC, A DELAWARE LIMITED LIABILITY COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 3, 4, 6(a), 7(a), 7(b)(1), 7(c), 8, 15 & 16 OF TABLE "A" THEREOF. THE FIELDWORK WAS COMPLETED ON APRIL 28, 2017.

GIVEN UNDER MY HAND AND SEAL THIS____ DAY OF________, 2017 IN ROSEMONT, ILLINOIS.

REBECCA Y. POPECK, I.P.L.S. No. 035-3642
LICENSE EXPIRES: 11-30-2018
rpopeck@spacecoinc.com

(VALID ONLY IF EMBOSSED SEAL AFFIXED)

PREPARED FOR:
MAYER BROWN LLP
71 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606

FOR REVIEW
PURPOSES ONLY

REVISIONS:
06/20/2017
07/10/2017

SPACECO INC.
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SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
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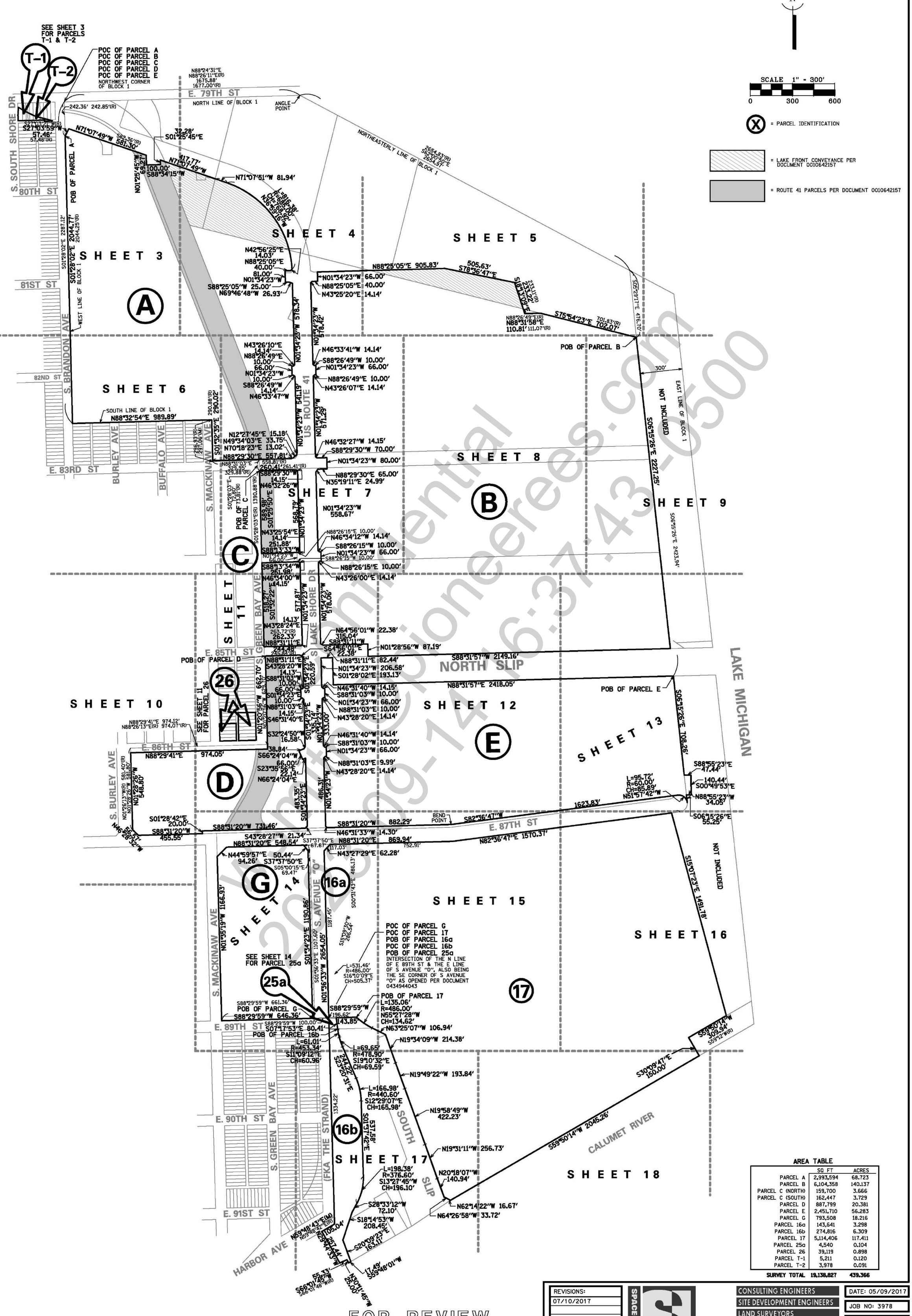
Phone: (847) 696-4060 Fax: (847) 696-4065

DATE: 05/09/2017
JOB NO: 3978
FILENAME: 3978ALTA-01
SHEET 1 OF 18

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

OVERALL BOUNDARY EXHIBIT



AREA TABLE

	SQ FT	ACRES
PARCEL A	2,993,594	68.723
PARCEL B	6,104,358	140.137
PARCEL C (NORTH)	159,700	3.666
PARCEL C (SOUTH)	162,447	3.729
PARCEL D	887,799	20.381
PARCEL E	2,451,710	56.283
PARCEL G	793,508	18.216
PARCEL 16a	143,641	3.298
PARCEL 16b	274,816	6.309
PARCEL 17	5,114,406	117.411
PARCEL 25a	4,540	0.104
PARCEL 26	39,119	0.898
PARCEL T-1	5,211	0.120
PARCEL T-2	3,978	0.091
SURVEY TOTAL	**19,138,827**	**439.366**

Preliminary
Not for Construction
2017-09-14 16:37:43-0500

FOR REVIEW PURPOSES ONLY

PREPARED FOR:
MAYER BROWN LLP
71 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606

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07/10/2017

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JOB NO: 3978
FILENAME: 3978ALTA-01
SHEET 2 OF 18

N:\Projects\3978\SURVEY\3978ALTA-01.dgn SHEET 2 User=rpopeck

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION

"A" = PART OF LOT 8
"B" = PART OF LOT 6

C1=
L=68.71'
R=321.00'
CH=68.58'
S70°10'16"E

L1 = 10.97' S64°02'19"E
L2 = 55.93' S01°23'43"E
L3 = S60°34'36"E 65.36'
L4 = S64°02'19"E 42.23'
L5 = S76°18'12"E 61.38'
L6 = S71°13'38"E 23.84'
L7 = S88°25'32"W 56.04'
L8 = N01°28'02"W 8.00'
L9 = S88°25'32"W 187.18'
L10 = N02°50'48"E 54.61'

POC OF PARCEL A
POC OF PARCEL B
POC OF PARCEL C
POC OF PARCEL D
POC OF PARCEL E
NORTHWEST CORNER OF BLOCK 1

SEE IMPROVEMENT TIE DETAIL BELOW

SOUTH SOUTH SHORE DRIVE
RIGHT OF WAY VARIES
E LINE OF S SOUTH SHORE DR PER DOC.

SOUTH LAKE SHORE DRIVE
PER DOCUMENT 0606834023

POB OF PARCEL T-2
SET IR W/CAP AT CORNER

T-1
T-2

N01°25'07"W 40.21'

POB OF PARCEL T-1
& POC OF PARCEL T-2
SOUTHWEST CORNER OF LOT 10

L9 PUBLIC ALLEY

HERETOFORE DEDICATED PER DOCUMENT 1140084

W LINE OF THE E 78' OF THE EAST-WEST PUBLIC ALLEY

SET CUT CROSS 5.00'S & ON-LINE

SET CUT CROSS AT CORNER

LOT 46
LOT 45
LOT 44
LOT 11
LOT 12
LOT 13

PUBLIC ALLEY

FOUND CROSS 2.40'E

LOT 14
LOT 15
LOT 16
LOT 17
LOT 18
LOT 19
LOT 20
LOT 21
LOT 22
LOT 23
LOT 24
LOT 25
LOT 26
LOT 27
LOT 28
LOT 35
LOT 34
LOT 33
LOT 32
LOT 31
LOT 30
LOT 29

MAHAN'S SUBDIVISION
RECORDED JULY 9, 1889
AS DOCUMENT 1140084

FOUND CROSS 6.05'S (EXTENDED

80TH ST
HERETOFORE DEDICATED

FOUND CROSS 2.06'N

LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
LOT 7
LOT 8
LOT 9 BLOCK 5 C. L. HAMMOND'S SUBDIVISION RECORDED JANUARY 11, 1890 AS DOCUMENT 120889
LOT 10
LOT 11
LOT 12
LOT 13
LOT 14
LOT 15
LOT 16
LOT 17
LOT 18
LOT 19
LOT 20
LOT 21
LOT 22
C. L. RESUBDIVISION OF LOTS 23 & 24 IN BLOCK 5 IN C. L. HAMMOND'S SUB. RECORDED JUNE 19, 1925 AS DOC. 8949458
LOT 1
LOT 2

81ST ST
HERETOFORE DEDICATED

LOT 48
LOT 47
LOT 46
LOT 45
LOT 44
LOT 43
LOT 42
BLOCK 1 A. B. MEEKER'S ADDITION TO HYDE PARK RECORDED FEBRUARY 20, 1884 AS DOCUMENT 526294
LOT 41
LOT 40
LOT 39
LOT 38
LOT 37
LOT 36

SOUTH BRANDON AVENUE
HERETOFORE DEDICATED

EAST LINE OF NE 1/4 OF SEC. 31-38-15
WEST LINE OF NW 1/4 OF SEC. 32-38-15

33' 33' 66'
39.2' BC-BC
38.8' BC-BC
99'

SOUTH LINE OF SW 1/4 OF SEC. 29-38-15
NORTH LINE OF NW 1/4 OF SEC. 32-38-15
EAST 79TH STREET
(66' RIGHT OF WAY)
N88°26'11"E(R) 1677.00'(R)
N88°24'31"E 1675.88'

NORTH LINE OF US ROUTE 41 & NORTH LINE OF BLOCK 1

EAST LINE OF SOUTH BRANDON AVENUE & WEST LINE OF US ROUTE 41

WEST LINE OF BRANDON AVE PER DOC. 1140094

182.20' S01°28'02"E
242.85'(R) 242.36'

WEST LINE OF DEDICATION OF US ROUTE 41 PER DOCUMENT 0606834023

HERETOFORE DEDICATED PER DOC. 0832645125

SET IR W/CAP AT CORNER

57.48'(R) S27°03'59"W(R)
S27°03'59"W 57.46'

SE'LY LINE OF SOUTH AVENUE "O" PER DOC. 0832645125

POB OF PARCEL A
℄ WALL ON-LINE

6' CHAIN LINK FENCE

CONC STAIR SET W/HAND RAIL

SILT FENCE

W WALL FACE 0.5'W

EC 11.8'N

A SOUTHERLY LINE OF US ROUTE 41

N71°07'49"W 581.30'
582.36'(R)

VACATED BY DOCUMENT 103553031

HERETOFORE DEDICATED PER DOCUMENT 0606834023 RECORDED MARCH 9, 2006

US ROUTE 41

65'
130'

EC 0.9'N

SNOW FENCE

N01°25'45"W 69.27'

HERETOFORE DEDICATED PER DOCUMENT 0832645125

EP 10.6'N
EP 11.9'N

S88°34'15"W 100.00'

EC 0.5'N

S01°25'45"E 32.28'

N71°07'49"W 417.77'

4' CHAIN LINK FENCE

7' CONCRETE WALL W/ 7' CHAIN LINK FENCE
EC 1.5'W
W WALL FACE 0.4'W

W WALL FACE 0.4'W

EC 1.5'W
W WALL FACE 0.5'W

EC 1.5'W
1' CONCRETE WALL W/ 7' CHAIN LINK FENCE

W WALL FACE 0.6'W

WEST LINE OF BLOCK 1

℄ UMH 5.5'E

2044.25'(R) S01°28'02"E 2044.77'

W WALL FACE 0.5'W

S01°28'02"E 2287.12'

℄ HH 4.2'W

W WALL FACE 0.5'W

EC 1.5'W

CONCRETE WALL W/ 7' CHAIN LINK FENCE

W WALL FACE 0.4'W

EC 1.4'W

W WALL FACE 0.4'W

Ⓐ PART OF BLOCK 1

ILLINOIS STEEL COMPANY'S SOUTH WORKS RESUBDIVISION RECORDED MARCH 27, 1914 AS DOCUMENT 5384242

MATCH LINE - SEE SHEET 4 OF 18

MATCH LINE - SEE SHEET 6 OF 18

IMPROVEMENT TIE DETAIL

ECX 1.0'NE & 1.0'W
EC 1.0'NE
EC 1.0'W
EC 1.6'NE
EC 1.5'NE
SPRINKLER BOX
AT&T VAULT
EC 1.0'NE BX 0.19'N
SCULPTURE
GUY WIRE ANCHOR
SPRINKLER VALVE
EC 0.2'S
EC 1.9'W & ON-LINE
EC 0.2'N
EC 0.4'S
℄ UP 1.2'S
℄ UP 0.8'S
EC 0.4'S & 0.9'W
TWO STORY BRICK RESIDENCE #7915
BX 0.14'S
BX 0.06'S
FRAME GARAGE BX 0.27'N
TWO STORY BLOCK RESIDENCE #7916
SOUTH SOUTH SHORE DRIVE
PUBLIC ALLEY
SOUTH LAKE SHORE DRIVE

SCALE 1" - 60'
0 60 120

BASIS OF BEARINGS:
TRUE NORTH BASED ON GEODETIC OBSERVATION IL EAST ZONE

NOTE: ALL BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.

(X) = PARCEL IDENTIFICATION

LEGEND

- STORM SEWER
- SANITARY SEWER
- COMBINED SEWER
- WATER MAIN
- GAS MAIN
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND CATV LINE
- OVERHEAD WIRE(S)ON UTILITY POLES
- FIBER OPTIC LINE
- RAILROAD
- FENCE
- GUARDRAIL
- SANITARY MANHOLE
- STORM MANHOLE
- CATCH BASIN
- INLET
- FLARED END SECTION
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- TELEPHONE UPRIGHT
- ELECTRIC UPRIGHT
- CABLE TV UPRIGHT
- FIRE HYDRANT
- VALVE AND VAULT
- WATER VALVE
- B BOX
- AUXILIARY VALVE
- GAS VALVE
- HAND HOLE
- STREET LIGHT
- UTILITY POLE
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL BOX
- BOLLARD
- MAILBOX
- SIGN
- UNIDENTIFIED MANHOLE
- RIGHT-OF-WAY MONUMENT
- DISC
- IRON / STEEL ROD
- IRON PIPE
- CUT CROSS
- PK / MAG NAIL
- RAILROAD SPIKE

BC	TOP OF CURB
BX	BUILDING CORNER
℄	CENTERLINE
CEMH	COMED MANHOLE
EPX	EDGE PAVEMENT CORNER
EP	EDGE PAVEMENT
EC	EDGE CONCRETE
ECX	EDGE CONCRETE CORNER
FNC	FENCE
FNCEND	FENCE END
FNCX	FENCE CORNER
IBTMH	IBT MANHOLE
IR	IRON ROD
IP	IRON PIPE
(M)	MEASURED
(R)	RECORD
UP	UTILITY POLE

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Pioneerees.com
2023-09-14 16:37:43 -05'00'
mlin@pio

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MAYER BROWN LLP
71 SOUTH WACKER DRIVE
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REVISIONS:
07/10/2017

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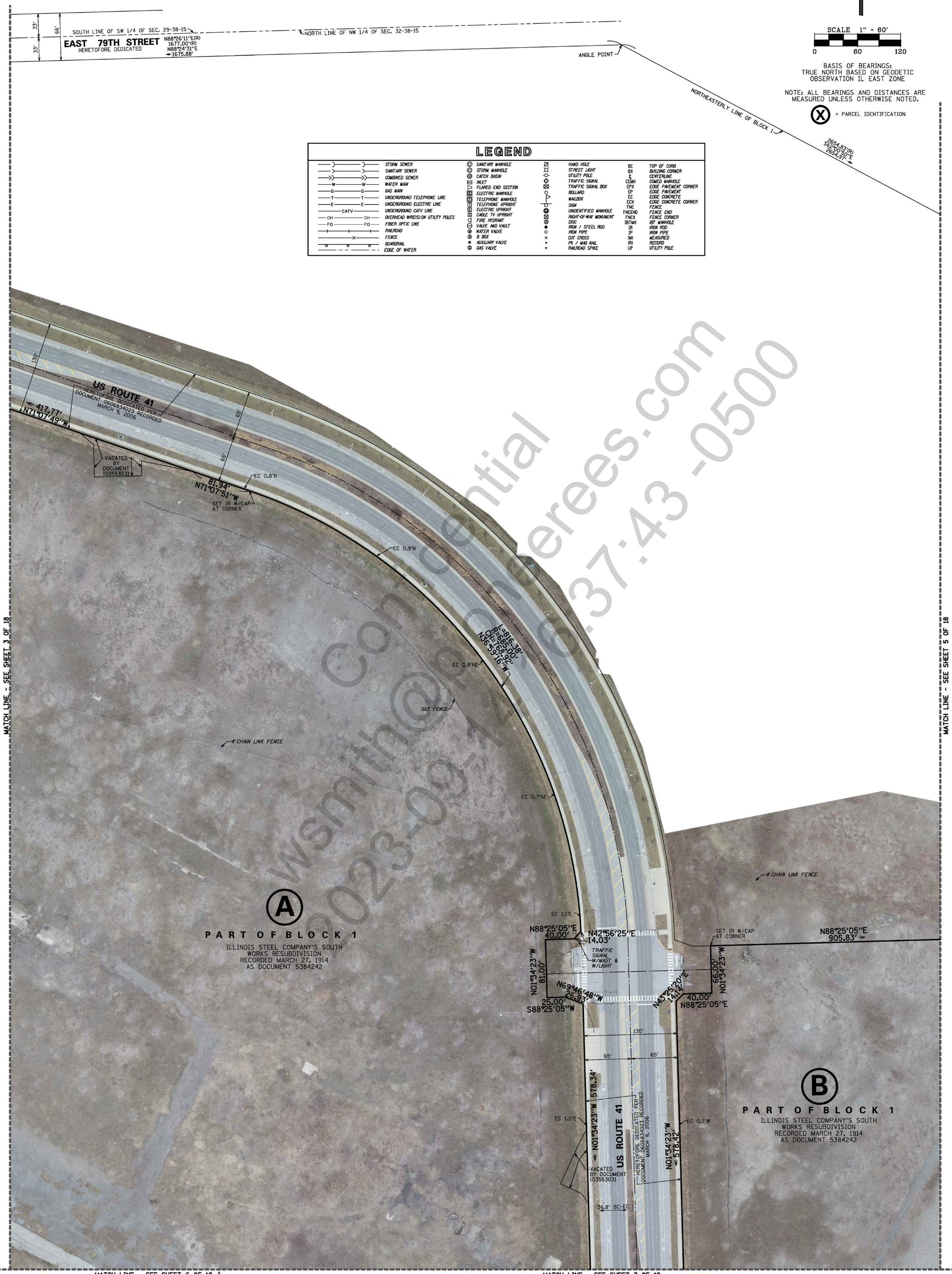
SHEET 3 OF 18

N:\Projects\3978\SURVEY\3978ALTA-01.dgn SHEET 3 User=rpopeck

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION



LEGEND

STORM SEWER	SANITARY MANHOLE	HAND HOLE	BC	TOP OF CURB
SANITARY SEWER	STORM MANHOLE	STREET LIGHT	BX	BUILDING CORNER
COMBINED SEWER	CATCH BASIN	UTILITY POLE	℄	CENTERLINE
WATER MAIN	INLET	TRAFFIC SIGNAL	CEMH	COMED MANHOLE
GAS MAIN	FLARED END SECTION	TRAFFIC SIGNAL BOX	EPX	EDGE PAVEMENT CORNER
UNDERGROUND TELEPHONE LINE	ELECTRIC MANHOLE	BOLLARD	EP	EDGE PAVEMENT
UNDERGROUND ELECTRIC LINE	TELEPHONE MANHOLE	MAILBOX	EC	EDGE CONCRETE
UNDERGROUND CATV LINE	TELEPHONE UPRIGHT	SIGN	ECX	EDGE CONCRETE CORNER
OVERHEAD WIRE(S) ON UTILITY POLES	ELECTRIC UPRIGHT	UNIDENTIFIED MANHOLE	FNC	FENCE
FIBER OPTIC LINE	CABLE TV UPRIGHT	RIGHT-OF-WAY MONUMENT	FNCEND	FENCE END
RAILROAD	FIRE HYDRANT	DISC	FNCX	FENCE CORNER
FENCE	VALVE AND VAULT	IRON / STEEL ROD	IBTMH	IBT MANHOLE
GUARDRAIL	WATER VALVE	IRON PIPE	IR	IRON ROD
EDGE OF WATER	B BOX	CUT CROSS	IP	IRON PIPE
	AUXILIARY VALVE	PK / MAG NAIL	(M)	MEASURED
	GAS VALVE	RAILROAD SPIKE	(R)	RECORD
			UP	UTILITY POLE

MATCH LINE - SEE SHEET 3 OF 18

MATCH LINE - SEE SHEET 5 OF 18

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MATCH LINE - SEE SHEET 6 OF 18

MATCH LINE - SEE SHEET 7 OF 18

PREPARED FOR:
MAYER BROWN LLP
71 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606

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07/10/2017

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DATE: 05/09/2017
JOB NO: 3978
FILENAME: 3978ALTA-01
SHEET 4 OF 18

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION

N

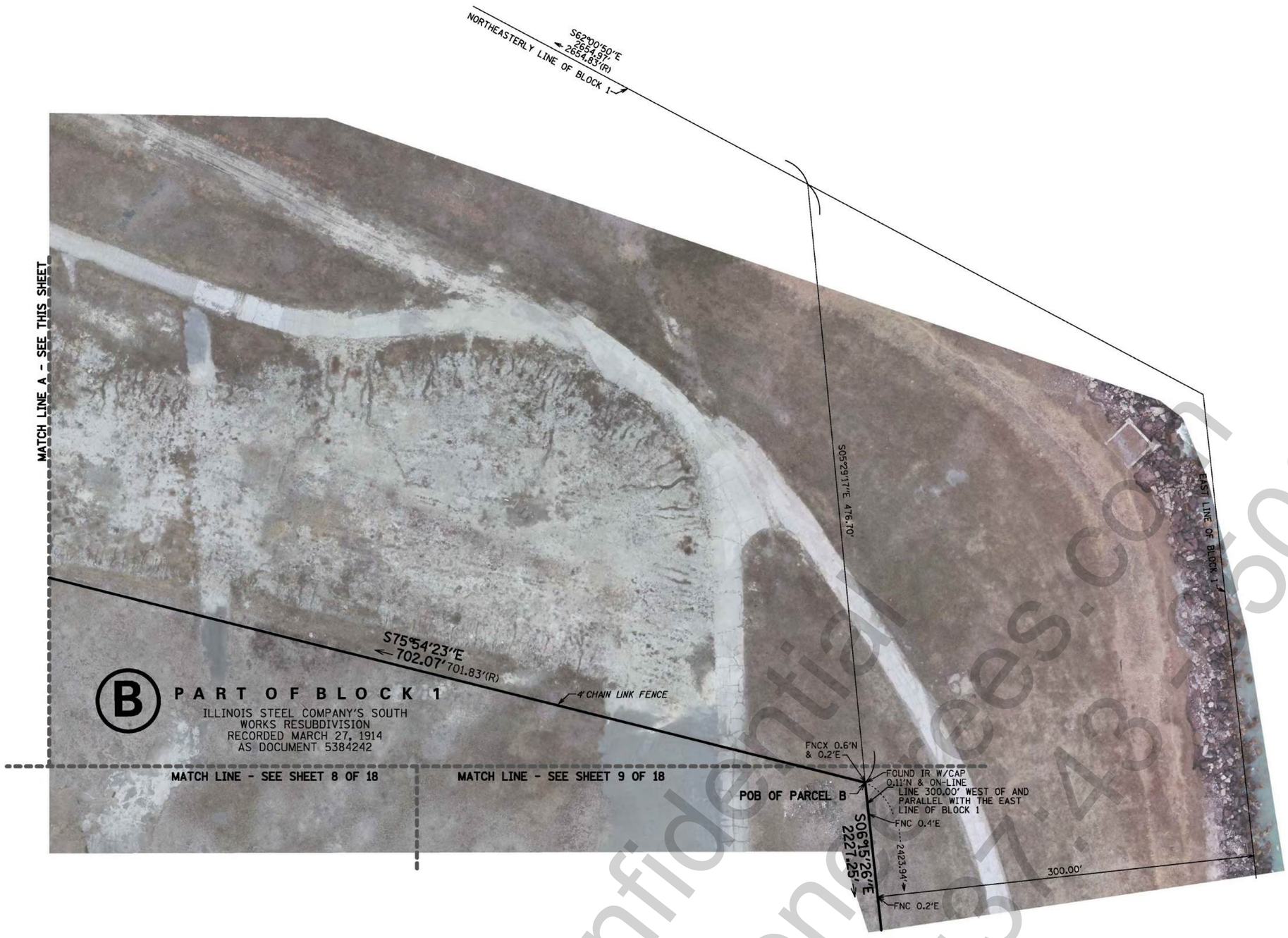
SCALE 1" = 60'

0 60 120

BASIS OF BEARINGS:
TRUE NORTH BASED ON GEODETIC OBSERVATION IL EAST ZONE

NOTE: ALL BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.

(X) = PARCEL IDENTIFICATION



LEGEND

	STORM SEWER
	SANITARY SEWER
	COMBINED SEWER
W	WATER MAIN
G	GAS MAIN
T	UNDERGROUND TELEPHONE LINE
E	UNDERGROUND ELECTRIC LINE
CATV	UNDERGROUND CATV LINE
OH	OVERHEAD WIRE(S) ON UTILITY POLES
FO	FIBER OPTIC LINE
	RAILROAD
	FENCE
	GUARDRAIL
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	INLET
	FLARED END SECTION
E	ELECTRIC MANHOLE
T	TELEPHONE MANHOLE
T	TELEPHONE UPRIGHT
E	ELECTRIC UPRIGHT
CATV	CABLE TV UPRIGHT
	FIRE HYDRANT
	VALVE AND VAULT
W	WATER VALVE
B	B BOX
	AUXILIARY VALVE
G	GAS VALVE
	HAND HOLE
	STREET LIGHT
	UTILITY POLE
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL BOX
	BOLLARD
	MAILBOX
	SIGN
U	UNIDENTIFIED MANHOLE
	RIGHT-OF-WAY MONUMENT
	DISC
	IRON / STEEL ROD
	IRON PIPE
	CUT CROSS
	PK / MAG NAIL
	RAILROAD SPIKE
BC	TOP OF CURB
BX	BUILDING CORNER
℄	CENTERLINE
COMH	COMED MANHOLE
EPX	EDGE PAVEMENT CORNER
EP	EDGE PAVEMENT
EC	EDGE CONCRETE
ECX	EDGE CONCRETE CORNER
FNC	FENCE
FNCEND	FENCE END
FNCX	FENCE CORNER
IBTMH	IBT MANHOLE
IR	IRON ROD
IP	IRON PIPE
(M)	MEASURED
(R)	RECORD
UP	UTILITY POLE

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PREPARED FOR:
MAYER BROWN LLP
71 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606

FOR REVIEW PURPOSES ONLY

REVISIONS:

SPACECO INC.

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

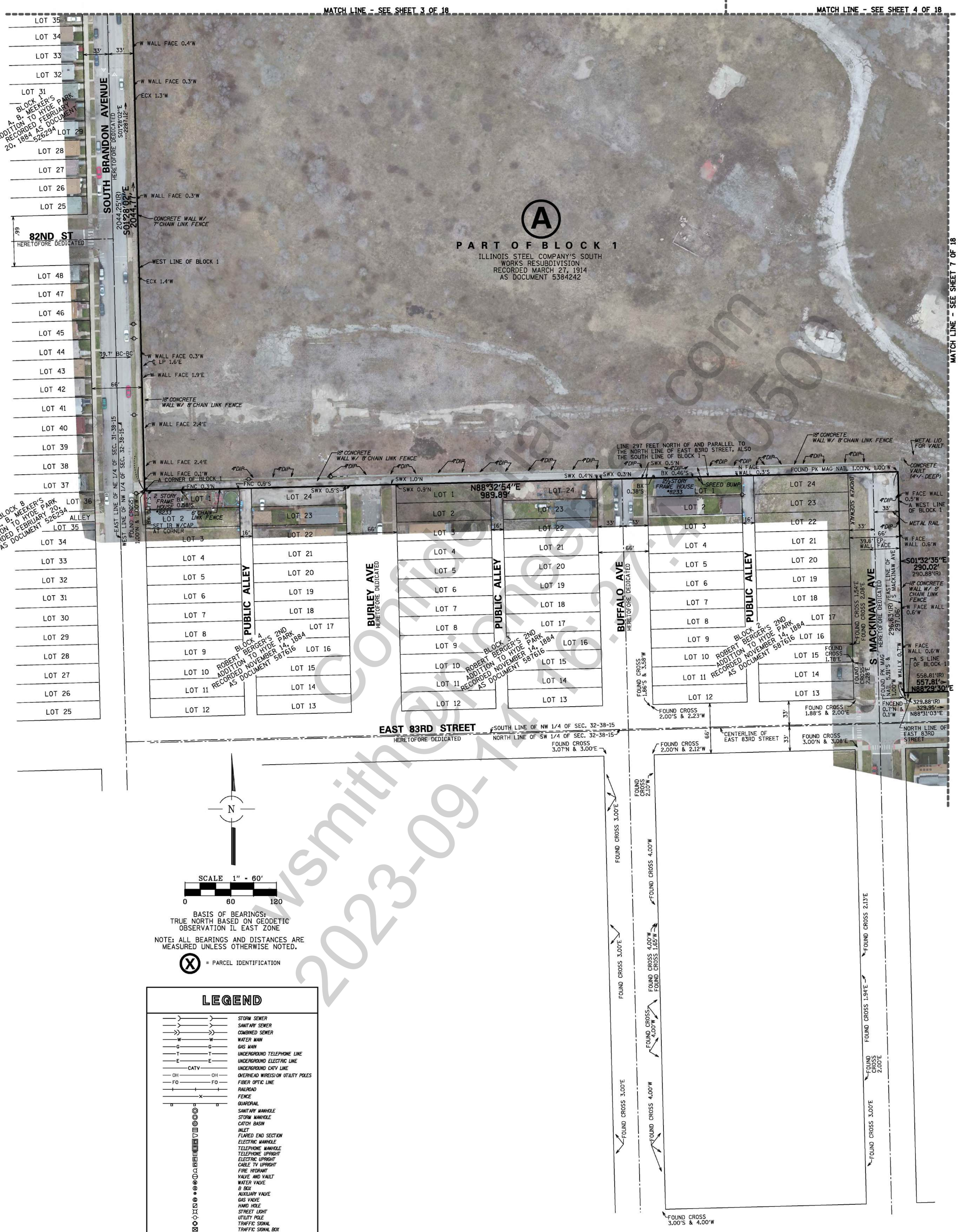
9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

DATE: 05/09/2017
JOB NO: 3978
FILENAME: 3978ALTA-01
SHEET 5 OF 18

N:\Projects\3978\SURVEY\3978ALTA-01.dgn SHEET 5 User=rpopeck

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION



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wsmith@spaceco.com
2023-09-14 16:37:4 050

N

SCALE 1" = 60'

0 60 120

BASIS OF BEARINGS:
TRUE NORTH BASED ON GEODETIC OBSERVATION IL EAST ZONE

NOTE: ALL BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.

(X) = PARCEL IDENTIFICATION

LEGEND

	STORM SEWER
	SANITARY SEWER
	COMBINED SEWER
W	WATER MAIN
G	GAS MAIN
T	UNDERGROUND TELEPHONE LINE
E	UNDERGROUND ELECTRIC LINE
CATV	UNDERGROUND CATV LINE
OH	OVERHEAD WIRE(S) ON UTILITY POLES
FO	FIBER OPTIC LINE
	RAILROAD
	FENCE
	GUARDRAIL
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	INLET
	FLARED END SECTION
	ELECTRIC MANHOLE
	TELEPHONE MANHOLE
	TELEPHONE UPRIGHT
	ELECTRIC UPRIGHT
	CABLE TV UPRIGHT
	FIRE HYDRANT
	VALVE AND VAULT
	WATER VALVE
	B BOX
	AUXILIARY VALVE
	GAS VALVE
	HAND HOLE
	STREET LIGHT
	UTILITY POLE
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL BOX
	BOLLARD
	MAILBOX
	SIGN
	UNIDENTIFIED MANHOLE
	RIGHT-OF-WAY MONUMENT
	DISC
	IRON / STEEL ROD
	IRON PIPE
	CUT CROSS
	PK / MAG NAIL
	RAILROAD SPIKE
BC	TOP OF CURB
BX	BUILDING CORNER
℄	CENTERLINE
CEMH	COMED MANHOLE
EPX	EDGE PAVEMENT CORNER
EP	EDGE PAVEMENT
EC	EDGE CONCRETE
ECX	EDGE CONCRETE CORNER
FNC	FENCE
FNCEND	FENCE END
FNCX	FENCE CORNER
IBTMH	IBT MANHOLE
IR	IRON ROD
IP	IRON PIPE
(M)	MEASURED
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UP	UTILITY POLE

PREPARED FOR:
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DATE: 05/09/2017
JOB NO: 3978
FILENAME: 3978ALTA-01
SHEET 6 OF 18

N:\Projects\3978\SURVEY\3978ALTA-01.dgn SHEET 6 User=rpopeck

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION

MATCH LINE - SEE SHEET 4 OF 18

MATCH LINE - SEE SHEET 5 OF 18

MATCH LINE - SEE SHEET 6 OF 18

MATCH LINE - SEE SHEET 8 OF 18

MATCH LINE - SEE SHEET 11 OF 18

N

SCALE 1" - 60'

0 60 120

BASIS OF BEARINGS:
TRUE NORTH BASED ON GEODETIC OBSERVATION IL EAST ZONE

NOTE: ALL BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.

(X) = PARCEL IDENTIFICATION

LEGEND

	STORM SEWER
	SANITARY SEWER
	COMBINED SEWER
W	WATER MAIN
G	GAS MAIN
T	UNDERGROUND TELEPHONE LINE
E	UNDERGROUND ELECTRIC LINE
CATV	UNDERGROUND CATV LINE
OH	OVERHEAD WIRE(S) ON UTILITY POLES
FO	FIBER OPTIC LINE
	RAILROAD
	FENCE
	GUARDRAIL
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	INLET
	FLARED END SECTION
	ELECTRIC MANHOLE
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	ELECTRIC UPRIGHT
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FNCEND	FENCE END
FNCX	FENCE CORNER
IBTMH	IBT MANHOLE
IR	IRON ROD
IP	IRON PIPE
(M)	MEASURED
(R)	RECORD
UP	UTILITY POLE

EC 1.1'E
EC 0.8'W
578.34' N01°34'23"W
N01°34'23"W 578.42'
65' 65'
N88°26'49"E 10.00'
℄ LP 1.9'E
14.14' N43°26'10"E
N46°33'41"W 14.14'
S88°26'49"W 10.00'
N01°34'23"W 66.00'
N01°34'23"W 66.00'
14.14' N46°33'41"W
N43°26'07"E 14.14'
10.00' S88°26'49"W
10.00' N88°26'49"E
HERETOFORE DEDICATED PER DOCUMENT 0606834023 RECORDED MARCH 9, 2006
US ROUTE 41
36.7' BC-EC
EC 1.2'E
EC 0.9'W
541.19' N01°34'23"W
571.29' N01°34'23"W
36.6' BC-EC
EC 1.2'E
EC 1.0'W
130'

A

PART OF BLOCK 1
ILLINOIS STEEL COMPANY'S SOUTH WORKS RESUBDIVISION
RECORDED MARCH 27, 1914
AS DOCUMENT 5384242

B

PART OF BLOCK 1
ILLINOIS STEEL COMPANY'S SOUTH WORKS RESUBDIVISION
RECORDED MARCH 27, 1914
AS DOCUMENT 5384242

N12°27'45"E 15.18'
EC 1.2'E
N70°18'23"E 13.02'
N49°34'03"E 33.75'
HERETOFORE DEDICATED PER DOCUMENT 0832645125
S88°29'30"W 70.00'
N46°32'21"W 14.15'
EC 1.0'S
SET IR W/CAP AT CORNER
A SOUTH LINE OF BLOCK 1
558.81'(R)
8" CHAIN LINK FENCE
FOUND CROSS 6.16'S
EC 0.9'S
FNCEND 0.2'N
N88°29'30"E 557.81'
NORTH LINE OF EAST 83RD STREET
N88°31'03"E 329.95'
329.88'(R)
40'
73'
33'
A NORTH LINE OF US ROUTE 41
S01°28'03"E 73.80'
S01°28'03"E(R) 73.81'(R)
BC-BC
80'
47.7'
EAST 83RD STREET
HERETOFORE DEDICATED
A SOUTH LINE OF E 83RD STREET
A WEST LINE OF BLOCK 1
EC 1.3'N
EC 1.2'N
EC 0.9'N
SET IR W/CAP AT CORNER
EC 0.9'E
N46°32'26"W 14.15'
N35°19'11"E 24.99'
65.00' N88°29'30"E
N01°34'23"W 80.00'
SOUTH LINE OF BLOCK 1
NORTH LINE OF BLOCK 2
W WALLX 1.3'W
260.41'
S88°29'30"W
261.41'(R)
POB OF PARCEL C
SET IR W/CAP ON-LINE & 5.00'W
FOUND CROSS 1.88'N & 5.00'E
4"DIP
18" CONCRETE WALL W/ 8' CHAIN LINK FENCE
W WALL FACE 0.8'W
WEST LINE OF BLOCK 2
EAST LINE OF S GREEN BAY AVE
33' 33'
W WALL FACE 0.9'W
SOUTH GREEN BAY AVENUE
HERETOFORE DEDICATED
589.98' S01°25'49"E
45.5' BC-WALL FACE
W WALL FACE 0.9'W
66'
6"DIP
S01°28'03"E(R) 1252.54'(R)
S01°28'03"E(R) 1390.88'(R)
W WALL FACE 0.5'W
SET IR W/CAP ON-LINE & 5.00'W
N88°13'34"E 251.88'
SET IR W/CAP AT CORNER
N88°26'15"E 10.00'
N43°25'54"E 14.14'
N46°34'12"W 14.14'
S88°26'15"W 10.00'
EXCEPTION TO PARCEL C
EAST 84TH STREET
HERETOFORE DEDICATED FOR PUBLIC STREET PER DOCUMENT 1628713010
WEST LINE OF SOUTH LAKE SHORE DRIVE
N01°34'23"W 66.00'
10.00' S88°26'15"W
N01°34'23"W 66.00'
EAST 84TH STREET
S01°25'49"E 33.00'
18" WALL W/ 5' CHAIN LINK FENCE
6"DIP
S01°32'19"E(R) S01°32'22"E 33.00'
FOUND CROSS 2.00'N & 4.00'E
FOUND IR 0.49'N
N88°13'34"E 251.98'
SET IR W/CAP AT CORNER
14.15' N46°34'00"W
N43°26'00"E 14.14'
℄ LP 1.6'W
10.00' N88°26'15"E
"STOP"
SET PK NAIL ON-LINE & 5.00'W
W WALL FACE 0.7'W
S01°32'22"E 596.56'
577.87' N01°34'23"W
N01°34'23"W 578.06'
EC 1.1'E
568.79' N01°34'23"W
N01°34'23"W 558.67'
EC 0.8'W
EC 0.7'W
36.7' BC-EC

C

PART OF BLOCK 2
ILLINOIS STEEL COMPANY'S SOUTH WORKS RESUBDIVISION
RECORDED MARCH 27, 1914
AS DOCUMENT 5384242

B

PART OF BLOCK 2
ILLINOIS STEEL COMPANY'S SOUTH WORKS RESUBDIVISION
RECORDED MARCH 27, 1914
AS DOCUMENT 5384242

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PREPARED FOR:
MAYER BROWN LLP
71 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606

FOR REVIEW PURPOSES ONLY

REVISIONS:
07/10/2017

SPACECO INC.
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
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DATE: 05/09/2017
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FILENAME: 3978ALTA-01
SHEET 7 OF 18

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A.L.T.A./N.S.P.S. LAND TITLE SURVEY

EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION

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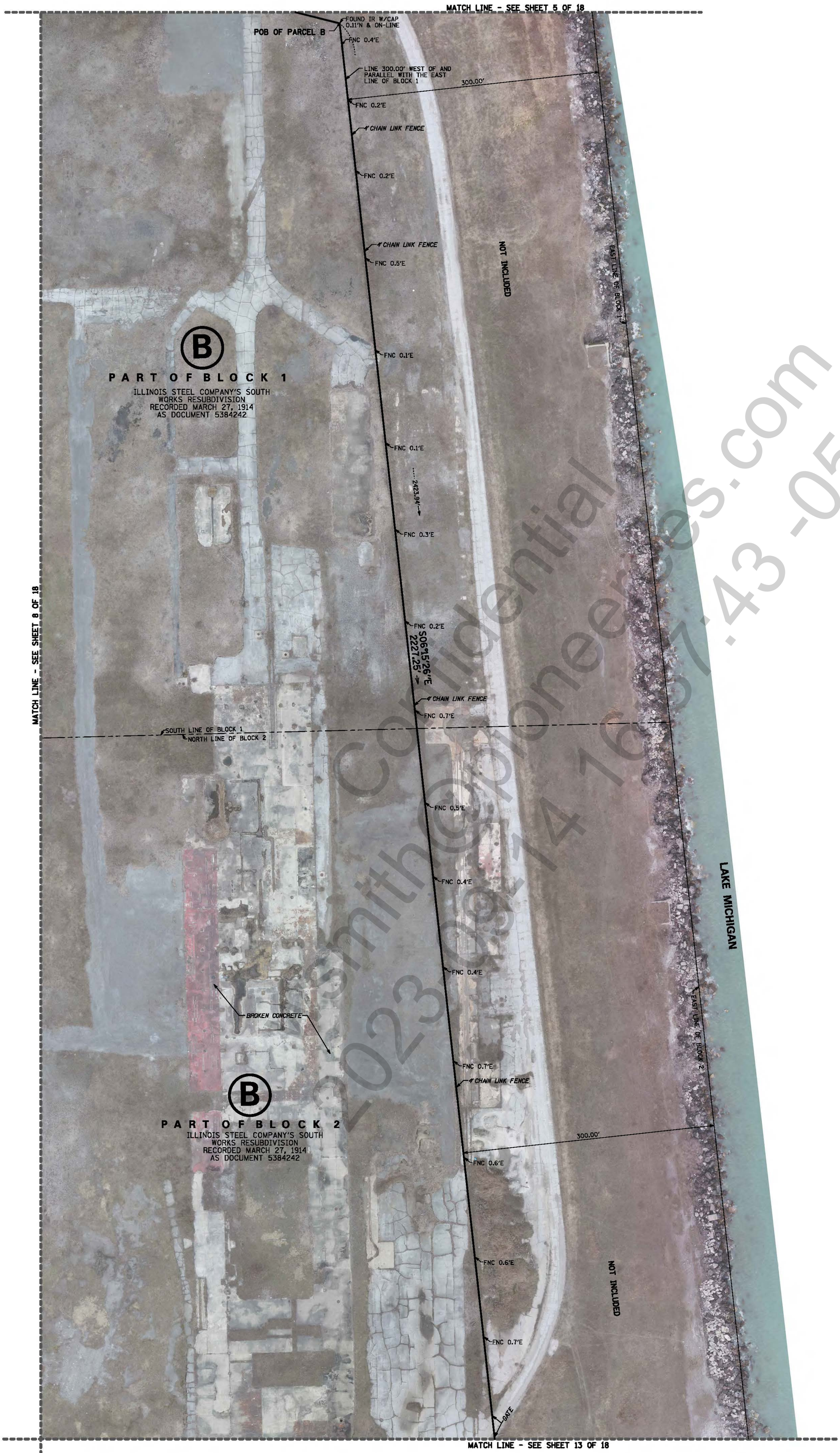
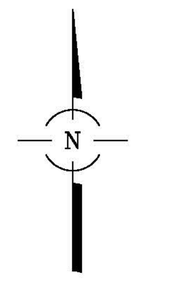
SHEET 8 OF 18

N:\Projects\3978\SURVEY\3978ALTA-01.dgn SHEET 8 User=rpopeck

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION





BASIS OF BEARINGS:
TRUE NORTH BASED ON GEODETIC OBSERVATION IL EAST ZONE

NOTE: ALL BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.

(X) = PARCEL IDENTIFICATION

LEGEND

	STORM SEWER
	SANITARY SEWER
	COMBINED SEWER
W	WATER MAIN
G	GAS MAIN
T	UNDERGROUND TELEPHONE LINE
E	UNDERGROUND ELECTRIC LINE
CATV	UNDERGROUND CATV LINE
OH	OVERHEAD WIRE(S)ON UTILITY POLES
FO	FIBER OPTIC LINE
	RAILROAD
x	FENCE
	GUARDRAIL
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	INLET
	FLARED END SECTION
E	ELECTRIC MANHOLE
T	TELEPHONE MANHOLE
	TELEPHONE UPRIGHT
	ELECTRIC UPRIGHT
	CABLE TV UPRIGHT
	FIRE HYDRANT
	VALVE AND VAULT
	WATER VALVE
	B BOX
	AUXILIARY VALVE
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	TRAFFIC SIGNAL BOX
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	SIGN
	UNIDENTIFIED MANHOLE
	RIGHT-OF-WAY MONUMENT
	DISC
	IRON / STEEL ROD
	IRON PIPE
	CUT CROSS
	PK / MAG NAIL
	RAILROAD SPIKE
BC	TOP OF CURB
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EC	EDGE CONCRETE
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FNC	FENCE
FNCEND	FENCE END
FNCX	FENCE CORNER
IBTMH	IBT MANHOLE
IR	IRON ROD
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(M)	MEASURED
(R)	RECORD
UP	UTILITY POLE

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71 SOUTH WACKER DRIVE
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SHEET 9 OF 18

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A.L.T.A./N.S.P.S. LAND TITLE SURVEY

EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION

N

SCALE 1" = 60'

0 60 120

BASIS OF BEARINGS:
TRUE NORTH BASED ON GEODETIC OBSERVATION IL EAST ZONE

NOTE: ALL BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.

(X) = PARCEL IDENTIFICATION

MATCH LINE - SEE SHEET 11 OF 18

MATCH LINE - SEE SHEET 14 OF 18

LEGEND

	STORM SEWER
	SANITARY SEWER
	COMBINED SEWER
W	WATER MAIN
G	GAS MAIN
T	UNDERGROUND TELEPHONE LINE
E	UNDERGROUND ELECTRIC LINE
CATV	UNDERGROUND CATV LINE
	OVERHEAD WIRE(S) ON UTILITY POLES
FO	FIBER OPTIC LINE
	RAILROAD
X	FENCE
	GUARDRAIL
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	INLET
	FLARED END SECTION
E	ELECTRIC MANHOLE
T	TELEPHONE MANHOLE
T	TELEPHONE UPRIGHT
E	ELECTRIC UPRIGHT
CATV	CABLE TV UPRIGHT
	FIRE HYDRANT
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	WATER VALVE
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IBTMH	IBT MANHOLE
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(M)	MEASURED
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UP	UTILITY POLE

Wolf Pioneering
Wolf@Pioneering.com
630.443.0500

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SHEET 10 OF 18

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EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION

LEGEND

	STORM SEWER
	SANITARY SEWER
	COMBINED SEWER
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IR	IRON ROD
IP	IRON PIPE
(M)	MEASURED
(R)	RECORD
UP	UTILITY POLE

N

SCALE 1" - 60'

0 60 120

BASIS OF BEARINGS:
TRUE NORTH BASED ON GEODETIC OBSERVATION IL EAST ZONE

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(X) = PARCEL IDENTIFICATION

•• = MONUMENT FOUND PREVIOUSLY, BUT DESTROYED AT TIME OF SURVEY

MATCH LINE - SEE SHEET 7 OF 18

SOUTH GREEN BAY AVENUE
HERETOFORE DEDICATED

EAST 85TH STREET
HERETOFORE DEDICATED

US ROUTE 41

PART OF BLOCK 2
ILLINOIS STEEL COMPANY'S SOUTH WORKS RESUBDIVISION
RECORDED MARCH 27, 1914
AS DOCUMENT 5384242

HERETOFORE DEDICATED PER DOCUMENT 0606834023 RECORDED MARCH 9, 2006

SOUTH LINE OF 85TH STREET PER DOCUMENT 06068334023

WEST LINE OF BLOCK 2

POB OF PARCEL D

A CORNER OF BLOCK 2
S01°28'03"E(R) 1.47'(R) 0.00'(M)
A SOUTH LINE OF US ROUTE 41

POB OF PARCEL D

EAST 85TH STREET
EXCEPTION TO PARCEL D
HERETOFORE DEDICATED FOR PUBLIC STREET PER DOCUMENT 1628713012

SOUTH MACKINAW AVENUE
HERETOFORE DEDICATED

PUBLIC ALLEY

BLOCK 3 OF MARY P. W. PALMER'S ADDITION TO SOUTH CHICAGO RECORDED SEPTEMBER 30, 1857 AS DOCUMENT 42001

TWO STORY FRAME RESIDENCE

TWO STORY BRICK BUILDING
#8555
AREA=2,300 SQ.FT (AT GROUND LEVEL)

BLDG HEIGHT=25.5

VIEWING TOWER

WATER RECOLLECTION SILO

NORTH SLIP
NOT INCLUDED

SOUTH AVENUE "O"

MATCH LINE - SEE SHEET 10 OF 18

MATCH LINE - SEE SHEET 12 OF 18

MATCH LINE - SEE SHEET 14 OF 18

Preliminary Not for Construction 815-464-0500

PREPARED FOR:
MAYER BROWN LLP
71 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606

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A.L.T.A./N.S.P.S. LAND TITLE SURVEY

EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION

MATCH LINE - SEE SHEET 8 OF 18

N

SCALE 1" - 60'

0 60 120

BASIS OF BEARINGS:
TRUE NORTH BASED ON GEODETIC
OBSERVATION IL EAST ZONE

NOTE: ALL BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.

(X) = PARCEL IDENTIFICATION

(B)

PART OF BLOCK 2

ILLINOIS STEEL COMPANY'S SOUTH
WORKS RESUBDIVISION
RECORDED MARCH 27, 1914
AS DOCUMENT 5384242

CONC WALL

18' WIDE CONCRETE RETAINING WALL WITH STEEL HAND RAIL

18' WIDE CONCRETE RETAINING WALL WITH STEEL HAND RAIL

IRON SHEET PILE WALL

S88°31'57"W
2149.16'

ANCHOR 3.4'N ANCHOR 3.3'N ANCHOR 3.4'N ANCHOR 3.2'N ANCHOR 3.2'N ANCHOR 2.8'N ANCHOR 3.0'N ANCHOR 3.2'N ANCHOR 3.4'N ANCHOR 3.0'N ANCHOR 3.2'N ANCHOR 2.6'N ANCHOR 3.0'N ANCHOR 2.8'N ANCHOR 2.5'N ANCHOR 2.9'N ANCHOR 2.8'N ANCHOR 2.5'N ANCHOR 2.6'N ANCHOR 2.9'N

WALL 1.9'S WALL 2.4'S WALL 2.7'S WALL 2.7'S WALL 2.2'S WALL 2.2'S WALL 2.2'S WALL 2.6'S WALL 2.8'S NORTH LINE OF THE NORTH SLIP WALL 2.8'S WALL 2.9'S WALL 2.8'S

NORTH SLIP
NOT INCLUDED

2.5' WIDE CONCRETE WALL

IRON SHEET PILE WALL

MOORING POST (TYPICAL)

WALL 2.8'N WALL 2.5'N WALL 2.3'N WALL 2.2'N WALL 2.4'N WALL 2.2'N WALL 2.1N WALL 1.7'N WALL 1.8'N WALL 1.6'N SOUTH LINE OF THE NORTH SLIP WALL 1.6'N WALL 1.8'N WALL 2.5'N

1.25' WIDE I-BEAM WALL

¢ POST 0.2'S ¢ POST 0.2'S ¢ POST 0.6'S ¢ POST 0.7'S ¢ POST 0.7'S ¢ POST 0.8'S ¢ POST 0.8'S ¢ POST 0.4'S ¢ POST 0.3'S ¢ POST 0.5'S ¢ POST 1.8'S ¢ POST 1.8'S ¢ POST 2.1'S

2418.05'
N88°31'57"E

¢ POST 2.5'S ¢ POST 2.6'S ¢ POST 2.2'S ¢ POST 2.0'S ¢ POST 2.2'S ¢ POST 2.2'S ¢ POST 2.2'S ¢ POST 1.8'S ¢ POST 1.6'S ¢ POST 1.7'S ¢ POST 1.8'S ¢ POST 1.7'S

BASE OF CONCRETE WALL

CONCRETE WALL

MATCH LINE - SEE SHEET 11 OF 18

MATCH LINE - SEE SHEET 13 OF 18

LEGEND

	STORM SEWER
	SANITARY SEWER
	COMBINED SEWER
W	WATER MAIN
G	GAS MAIN
T	UNDERGROUND TELEPHONE LINE
E	UNDERGROUND ELECTRIC LINE
CATV	UNDERGROUND CATV LINE
OH	OVERHEAD WIRE(S)ON UTILITY POLES
FO	FIBER OPTIC LINE
	RAILROAD
	FENCE
	GUARDRAIL
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	INLET
	FLARED END SECTION
E	ELECTRIC MANHOLE
T	TELEPHONE MANHOLE
	TELEPHONE UPRIGHT
E	ELECTRIC UPRIGHT
	CABLE TV UPRIGHT
	FIRE HYDRANT
	VALVE AND VAULT
	WATER VALVE
	B BOX
	AUXILIARY VALVE
G	GAS VALVE
	HAND HOLE
	STREET LIGHT
	UTILITY POLE
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL BOX
	BOLLARD
	MAILBOX
	SIGN
	UNIDENTIFIED MANHOLE
	RIGHT-OF-WAY MONUMENT
	DISC
	IRON / STEEL ROD
	IRON PIPE
	CUT CROSS
	PK / MAG NAIL
	RAILROAD SPIKE
BC	TOP OF CURB
BX	BUILDING CORNER
℄	CENTERLINE
CEMH	COMED MANHOLE
EPX	EDGE PAVEMENT CORNER
EP	EDGE PAVEMENT
EC	EDGE CONCRETE
ECX	EDGE CONCRETE CORNER
FNC	FENCE
FNCEND	FENCE END
FNCX	FENCE CORNER
IBTMH	IBT MANHOLE
IR	IRON ROD
IP	IRON PIPE
(M)	MEASURED
(R)	RECORD
UP	UTILITY POLE

BASE OF CONCRETE WALL

CONCRETE WALL

CONCRETE WALL

CONCRETE WALL

(E)

PART OF BLOCK 2

ILLINOIS STEEL COMPANY'S SOUTH
WORKS RESUBDIVISION
RECORDED MARCH 27, 1914
AS DOCUMENT 5384242

SIGN

MATCH LINE - SEE SHEET 15 OF 18

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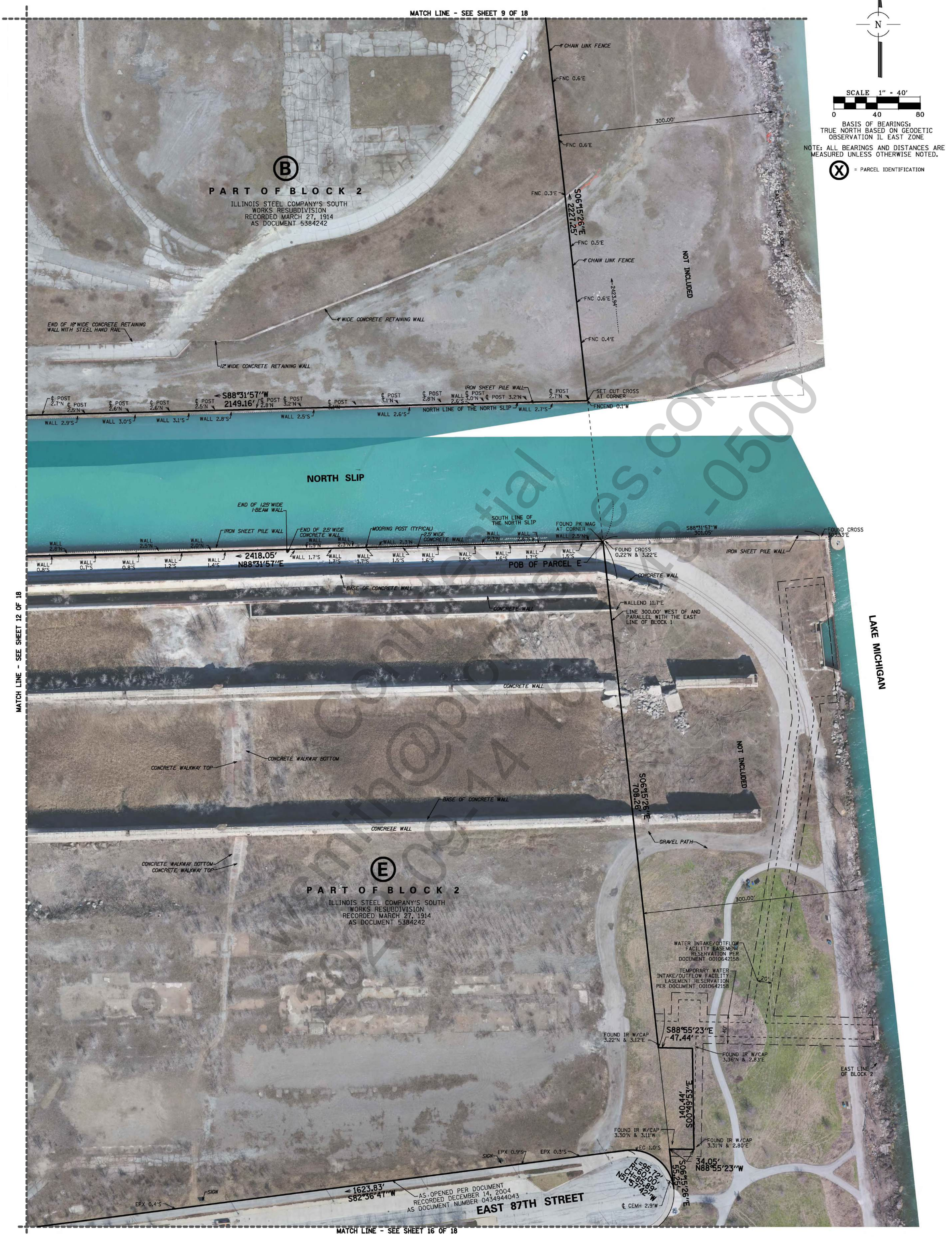
FILENAME: 3978ALTA-01
SHEET 12 OF 18

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION



LEGEND

STORM SEWER	SANITARY MANHOLE	HAND HOLE	BC	TOP OF CURB
SANITARY SEWER	STORM MANHOLE	STREET LIGHT	BX	BUILDING CORNER
COMBINED SEWER	CATCH BASIN	UTILITY POLE	℄	CENTERLINE
WATER MAIN	INLET	TRAFFIC SIGNAL	CEMH	COMED MANHOLE
GAS MAIN	FLARED END SECTION	TRAFFIC SIGNAL BOX	EPX	EDGE PAVEMENT CORNER
UNDERGROUND TELEPHONE LINE	ELECTRIC MANHOLE	BOLLARD	EP	EDGE PAVEMENT
UNDERGROUND ELECTRIC LINE	TELEPHONE MANHOLE	MAILBOX	EC	EDGE CONCRETE
UNDERGROUND CATV LINE	TELEPHONE UPRIGHT	SIGN	ECX	EDGE CONCRETE CORNER
OVERHEAD WIRE(S)ON UTILITY POLES	ELECTRIC UPRIGHT	UNIDENTIFIED MANHOLE	FNC	FENCE
FIBER OPTIC LINE	CABLE TV UPRIGHT	RIGHT-OF-WAY MONUMENT	FNCEND	FENCE END
RAILROAD	FIRE HYDRANT	DISC	FNCX	FENCE CORNER
FENCE	VALVE AND VAULT	IRON / STEEL ROD	IBTMH	IBT MANHOLE
GUARDRAIL	WATER VALVE	IRON PIPE	IR	IRON ROD
EDGE OF WATER	B BOX	CUT CROSS	IP	IRON PIPE
	AUXILIARY VALVE	PK / MAG NAIL	(M)	MEASURED
	GAS VALVE	RAILROAD SPIKE	(R)	RECORD
			UP	UTILITY POLE

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SHEET 13 OF 18

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION

LEGEND

STORM SEWER	SANITARY MANHOLE	HAND HOLE	BC	TOP OF CURB
SANITARY SEWER	STORM MANHOLE	STREET LIGHT	BX	BUILDING CORNER
COMBINED SEWER	CATCH BASIN	UTILITY POLE	℄	CENTERLINE
WATER MAIN	INLET	TRAFFIC SIGNAL	CEMH	COMED MANHOLE
GAS MAIN	FLARED END SECTION	TRAFFIC SIGNAL BOX	EPX	EDGE PAVEMENT CORNER
UNDERGROUND TELEPHONE LINE	ELECTRIC MANHOLE	SPRINKLER HEAD	EP	EDGE PAVEMENT
UNDERGROUND ELECTRIC LINE	TELEPHONE MANHOLE	BOLLARD	EC	EDGE CONCRETE
UNDERGROUND CATV LINE	TELEPHONE UPRIGHT	MAILBOX	ECX	EDGE CONCRETE CORNER
OVERHEAD WIRE(S)ON UTILITY POLES	ELECTRIC UPRIGHT	SIGN	FNC	FENCE
FIBER OPTIC LINE	CABLE TV UPRIGHT	UNIDENTIFIED MANHOLE	FNCEND	FENCE END
RAILROAD	FIRE HYDRANT	RIGHT-OF-WAY MONUMENT	FNCX	FENCE CORNER
FENCE	VALVE AND VAULT	DISC	IBTMH	IBT MANHOLE
GUARDRAIL	WATER VALVE	IRON / STEEL ROD	IR	IRON ROD
	B BOX	IRON PIPE	IP	IRON PIPE
	AUXILIARY VALVE	CUT CROSS	MD	MEASURED
	WELL	PK / MAG NAIL	RD	RECORD
	GAS VALVE	RAILROAD SPIKE	UP	UTILITY POLE

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SHEET 14 OF 18

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EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION

MATCH LINE - SEE SHEET 12 OF 18

(E)

PART OF BLOCK 2
ILLINOIS STEEL COMPANY'S SOUTH
WORKS RESUBDIVISION
RECORDED MARCH 27, 1914
AS DOCUMENT 5384242

S88°31'20"W
882.29'

EP 0.7'S

BEND POINT
EP 0.7'S

EP 0.4'S

FOUND RR SPIKE
AT CORNER

EP 0.6'S

1623.83'
S82°36'47"W

EP 0.3'S

120'

27.8'
EC-EC

SOUTH LINE OF BLOCK 2
NORTH LINE OF BLOCK 3

21.1'
EC-BC

EAST 87TH STREET
AS OPENED PER DOCUMENT
RECORDED DECEMBER 14, 2004
AS DOCUMENT NUMBER 0434944043

EC 1.1'N

FNC 1.9'S
BROKEN CONC PAD

1570.37'
N82°36'47"E

6'CHAIN LINK FENCE

FNCEND
1.4'S

EC 0.5'N

EC 0.2'N

BC
0.4'S

BC 1.3'S

FNC 1.6'S

BC 0.1'S

FNC 2.7'S

EC 0.9'N

EC 1.2'N

FNCX 2.1'S

FNC 1.3'S
BEND POINT

FNC 1.9'S

869.94'
N88°31'20"E

8.5'CHAIN LINK
FENCE W/BARBED WIRE

N

SCALE 1" = 60'

0 60 120

BASIS OF BEARINGS:
TRUE NORTH BASED ON GEODETIC
OBSERVATION IL EAST ZONE

NOTE: ALL BEARINGS AND DISTANCES ARE
MEASURED UNLESS OTHERWISE NOTED.

(X) = PARCEL IDENTIFICATION

LEGEND

	STORM SEWER
	SANITARY SEWER
	COMBINED SEWER
W	WATER MAIN
G	GAS MAIN
T	UNDERGROUND TELEPHONE LINE
E	UNDERGROUND ELECTRIC LINE
CATV	UNDERGROUND CATV LINE
OH	OVERHEAD WIRE(S) ON UTILITY POLES
FO	FIBER OPTIC LINE
	RAILROAD
	FENCE
	GUARDRAIL
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	INLET
	FLARED END SECTION
	ELECTRIC MANHOLE
	TELEPHONE MANHOLE
	TELEPHONE UPRIGHT
	ELECTRIC UPRIGHT
	CABLE TV UPRIGHT
	FIRE HYDRANT
	VALVE AND VAULT
	WATER VALVE
	B BOX
	AUXILIARY VALVE
	GAS VALVE
	HAND HOLE
	STREET LIGHT
	UTILITY POLE
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL BOX
	BOLLARD
	MAILBOX
	SIGN
	UNIDENTIFIED MANHOLE
	RIGHT-OF-WAY MONUMENT
	DISC
	IRON / STEEL ROD
	IRON PIPE
	CUT CROSS
	PK / MAG NAIL
	RAILROAD SPIKE
BC	TOP OF CURB
BX	BUILDING CORNER
	CENTERLINE
CBMH	COMED MANHOLE
EPX	EDGE PAVEMENT CORNER
EP	EDGE PAVEMENT
EC	EDGE CONCRETE
ECX	EDGE CONCRETE CORNER
FNC	FENCE
FNCEND	FENCE END
FNCX	FENCE CORNER
IBTMH	IBT MANHOLE
IR	IRON ROD
IP	IRON PIPE
(M)	MEASURED
(R)	RECORD
UP	UTILITY POLE

(17)

PART OF BLOCK 3

ILLINOIS STEEL COMPANY'S SOUTH
WORKS RESUBDIVISION
RECORDED MARCH 27, 1914
AS DOCUMENT 5384242

MATCH LINE - SEE SHEET 14 OF 18

MATCH LINE - SEE SHEET 16 OF 18

N63°25'07"W
106.94'

FNCX 6.6'E
FOUND CROSS
AT CORNER

EPX 7.7'E

6'CHAIN LINK FENCE

SOUTH SLIP

IRON SHEET
PILE WALL

NOT INCLUDED

N19°54'09"W
214.38'

CONCRETE ORE WALL

MATCH LINE - SEE SHEET 17 OF 18

MATCH LINE - SEE SHEET 18 OF 18

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JOB NO: 3978
FILENAME: 3978ALTA-01
SHEET 15 OF 18

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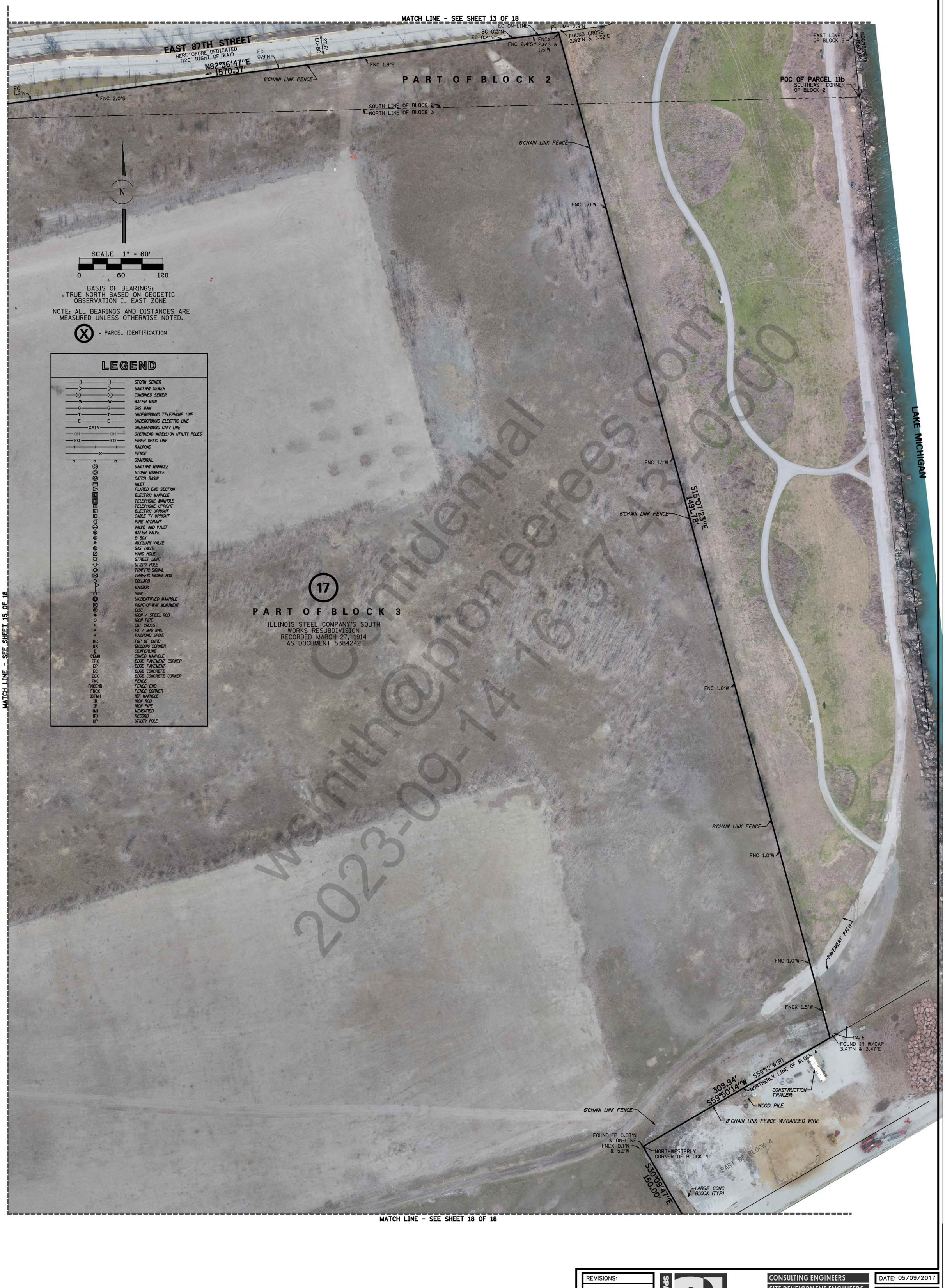
EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION



N

SCALE 1" = 60'

0 60 120

BASIS OF BEARINGS:
TRUE NORTH BASED ON GEODETIC
OBSERVATION IL EAST ZONE

NOTE: ALL BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.

(X) = PARCEL IDENTIFICATION

LEGEND

	STORM SEWER
	SANITARY SEWER
	COMBINED SEWER
W	WATER MAIN
G	GAS MAIN
T	UNDERGROUND TELEPHONE LINE
E	UNDERGROUND ELECTRIC LINE
CATV	UNDERGROUND CATV LINE
OH	OVERHEAD WIRE(S) ON UTILITY POLES
FO	FIBER OPTIC LINE
	RAILROAD
X	FENCE
	GUARDRAIL
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	INLET
	FLARED END SECTION
	ELECTRIC MANHOLE
	TELEPHONE MANHOLE
	TELEPHONE UPRIGHT
	ELECTRIC UPRIGHT
	CABLE TV UPRIGHT
	FIRE HYDRANT
	VALVE AND VAULT
	WATER VALVE
	B BOX
	AUXILIARY VALVE
	GAS VALVE
	HAND HOLE
	STREET LIGHT
	UTILITY POLE
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL BOX
	BOLLARD
	MAILBOX
	SIGN
	UNIDENTIFIED MANHOLE
	RIGHT-OF-WAY MONUMENT
	DISC
	IRON / STEEL ROD
	IRON PIPE
	CUT CROSS
	PK / MAG NAIL
	RAILROAD SPIKE
BC	TOP OF CURB
BX	BUILDING CORNER
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EP	EDGE PAVEMENT
EC	EDGE CONCRETE
ECX	EDGE CONCRETE CORNER
FNC	FENCE
FNCEND	FENCE END
FNCX	FENCE CORNER
IBTMH	IBT MANHOLE
IR	IRON ROD
IP	IRON PIPE
(M)	MEASURED
(R)	RECORD
UP	UTILITY POLE

(17)

PART OF BLOCK 3

ILLINOIS STEEL COMPANY'S SOUTH
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LEGEND

	STORM SEWER
	SANITARY SEWER
	COMBINED SEWER
W — W	WATER MAIN
G — G	GAS MAIN
T — T	UNDERGROUND TELEPHONE LINE
E — E	UNDERGROUND ELECTRIC LINE
CATV	UNDERGROUND CATV LINE
OH — OH	OVERHEAD WIRE(S) ON UTILITY POLES
FO — FO	FIBER OPTIC LINE
	RAILROAD
	FENCE
	GUARDRAIL
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	INLET
	FLARED END SECTION
	ELECTRIC MANHOLE
	TELEPHONE MANHOLE
	TELEPHONE UPRIGHT
	ELECTRIC UPRIGHT
	CABLE TV UPRIGHT
	FIRE HYDRANT
	VALVE AND VAULT
	WATER VALVE
	B BOX
	AUXILIARY VALVE
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IR	IRON ROD
IP	IRON PIPE
(M)	MEASURED
(R)	RECORD
UP	UTILITY POLE

N

SCALE 1" = 60'

0 60 120

BASIS OF BEARINGS:
TRUE NORTH BASED ON GEODETIC OBSERVATION IL EAST ZONE

NOTE: ALL BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.

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SHEET 17 OF 18

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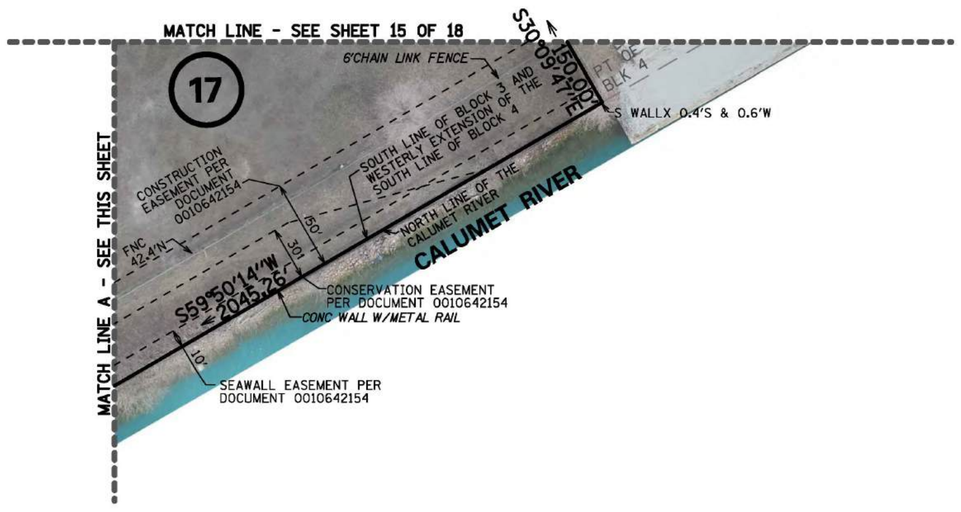

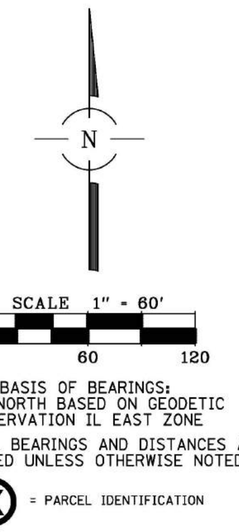

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TRUE NORTH BASED ON GEODETIC OBSERVATION IL EAST ZONE

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LEGEND

STORM SEWER	SANITARY MANHOLE	HAND HOLE	BC	TOP OF CURB
SANITARY SEWER	STORM MANHOLE	STREET LIGHT	BX	BUILDING CORNER
COMBINED SEWER	CATCH BASIN	UTILITY POLE		CENTERLINE
WATER MAIN	INLET	TRAFFIC SIGNAL	CEMH	COMED MANHOLE
GAS MAIN	FLARED END SECTION	TRAFFIC SIGNAL BOX	EPX	EDGE PAVEMENT CORNER
UNDERGROUND TELEPHONE LINE	ELECTRIC MANHOLE	BOLLARD	EP	EDGE PAVEMENT
UNDERGROUND ELECTRIC LINE	TELEPHONE MANHOLE	MAILBOX	EC	EDGE CONCRETE
UNDERGROUND CATV LINE	TELEPHONE UPRIGHT	SIGN	ECX	EDGE CONCRETE CORNER
OVERHEAD WIRE(S) ON UTILITY POLES	ELECTRIC UPRIGHT	UNIDENTIFIED MANHOLE	FNC	FENCE
FIBER OPTIC LINE	CABLE TV UPRIGHT	RIGHT-OF-WAY MONUMENT	FNCEND	FENCE END
RAILROAD	FIRE HYDRANT	DISC	FNCX	FENCE CORNER
FENCE	VALVE AND VAULT	IRON / STEEL ROD	IBTMH	IBT MANHOLE
GUARDRAIL	WATER VALVE	IRON PIPE	IR	IRON ROD
EDGE OF WATER	B BOX	CUT CROSS	IP	IRON PIPE
	AUXILIARY VALVE	PK / MAG NAIL	(M)	MEASURED
	GAS VALVE	RAILROAD SPIKE	(R)	RECORD
			UP	UTILITY POLE

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SHEET 18 OF 18

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E 87TH ST

S. DUSABLE LAKE SHORE DRIVE

E 89TH ST

ILLINOIS QUANTUM AND MICROELECTRONICS PARK DEVELOPMENT AREA

ILLINOIS QUANTUM AND MICROELECTRONICS PARK DEVELOPMENT AREA

SHARED IQMP

CRYOGENIC FACILITY

PSIQUANTUM PHASE ONE DEVELOPMENT BUILDING

PSIQUANTUM PHASE TWO

PSIQUANTUM PHASE THREE

PSIQUANTUM PHASE FOUR

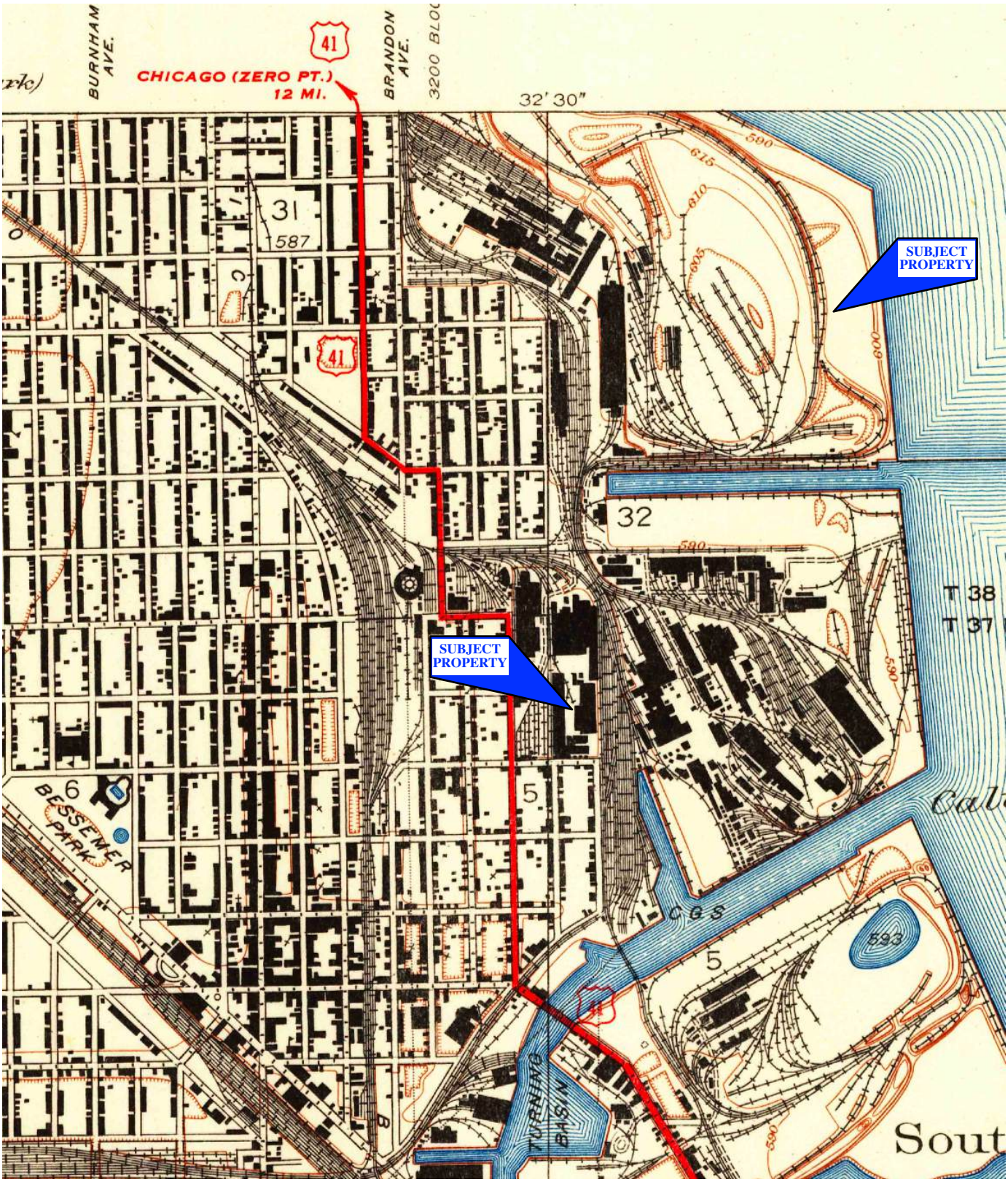
STEEL WORKERS PARK

LAKE MICHIGAN

SOUTH SLIP

CALUMET RIVER

Appendix B USGS and ISGS Maps, Topographic Survey

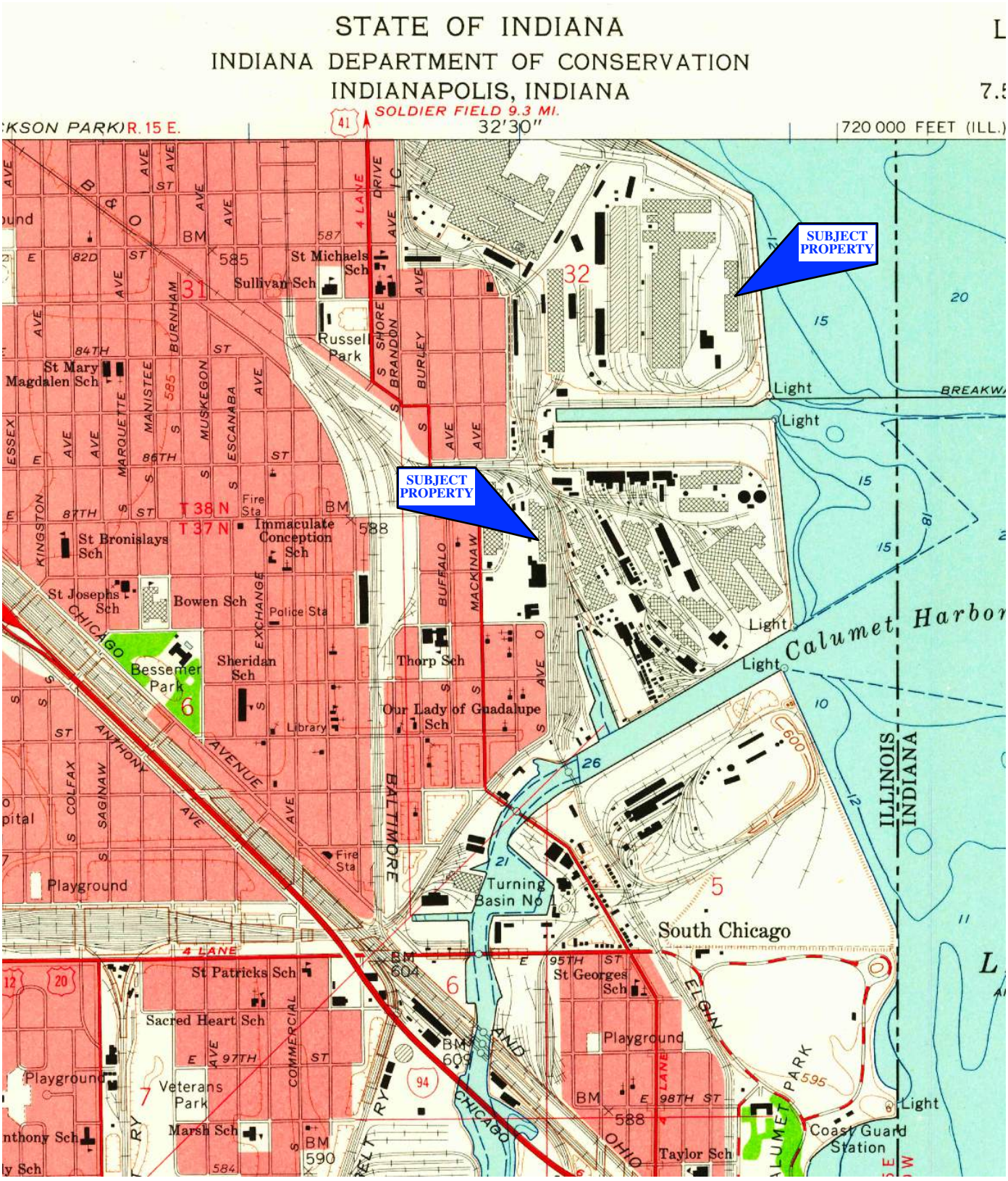


PIONEER
Engineering & Environmental Services, LLC

8080 S. Lake Shore Drive
Chicago, Illinois

USGS 7.5 Minute Topographic Map (1929)

The Remediation Site is located in Section 32, Township 38 North and Section 5, Township 37, Range 15 East (Lake Calumet, IL Quadrangle)



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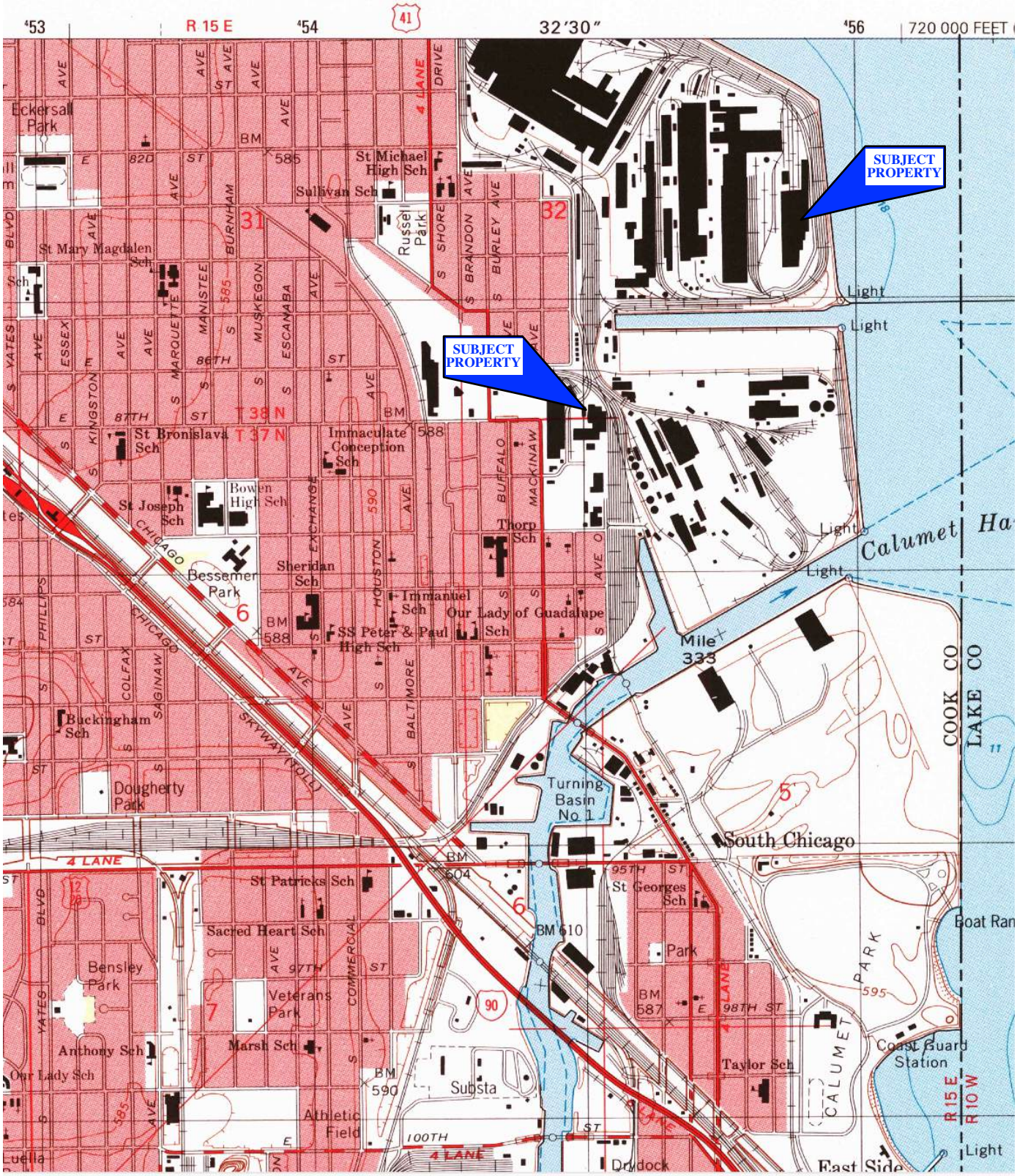
USGS 7.5 Minute Topographic Map (1960)

The Remediation Site is located in Section 32, Township 38 North and Section 5, Township 37, Range 15 East (Lake Calumet, IL Quadrangle)



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USGS 7.5 Minute Topographic Map (1997)

The Remediation Site is located in Section 32, Township 38 North and Section 5, Township 37, Range 15 East (Lake Calumet, IL Quadrangle)

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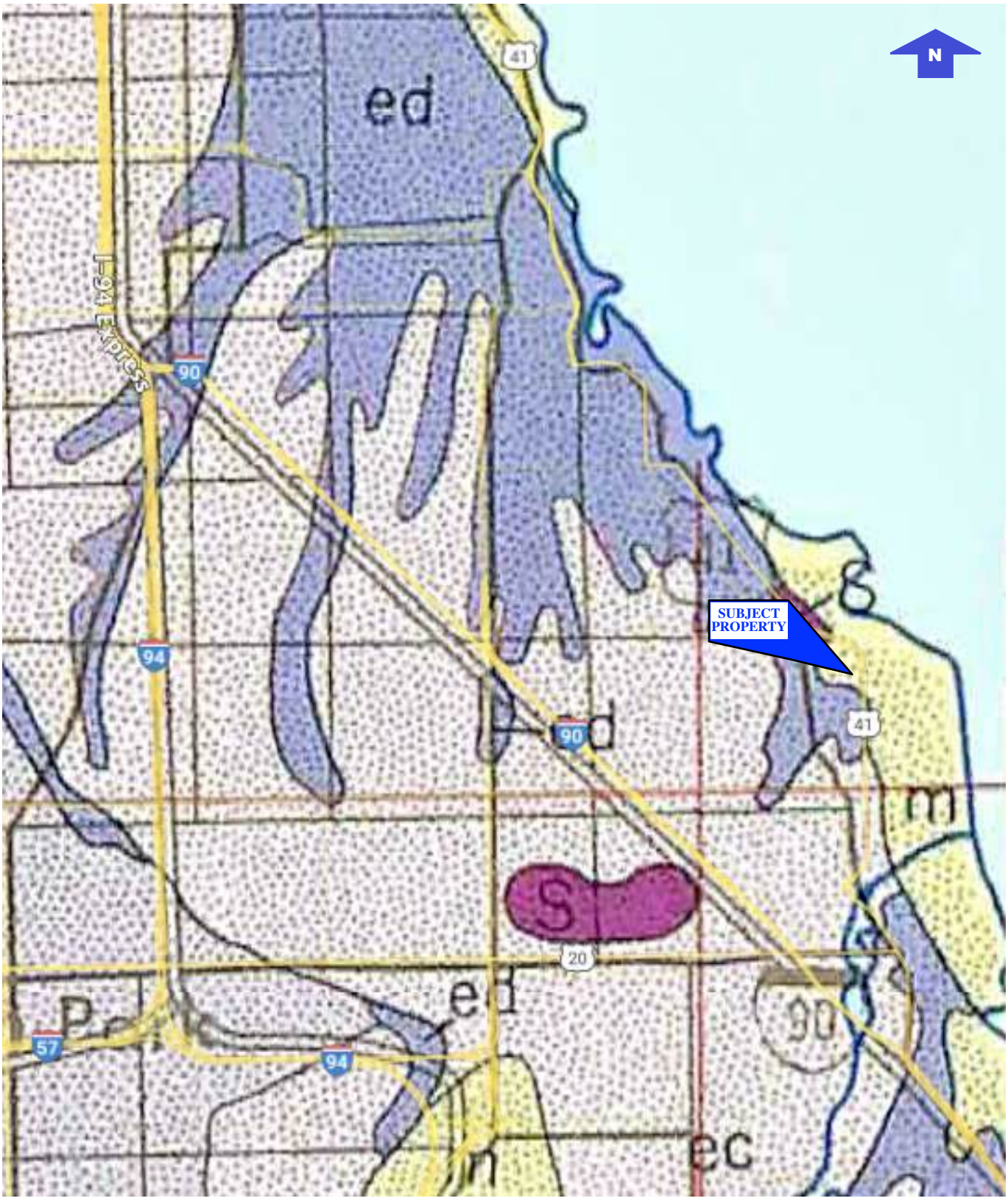
Zoning Map
(2025)



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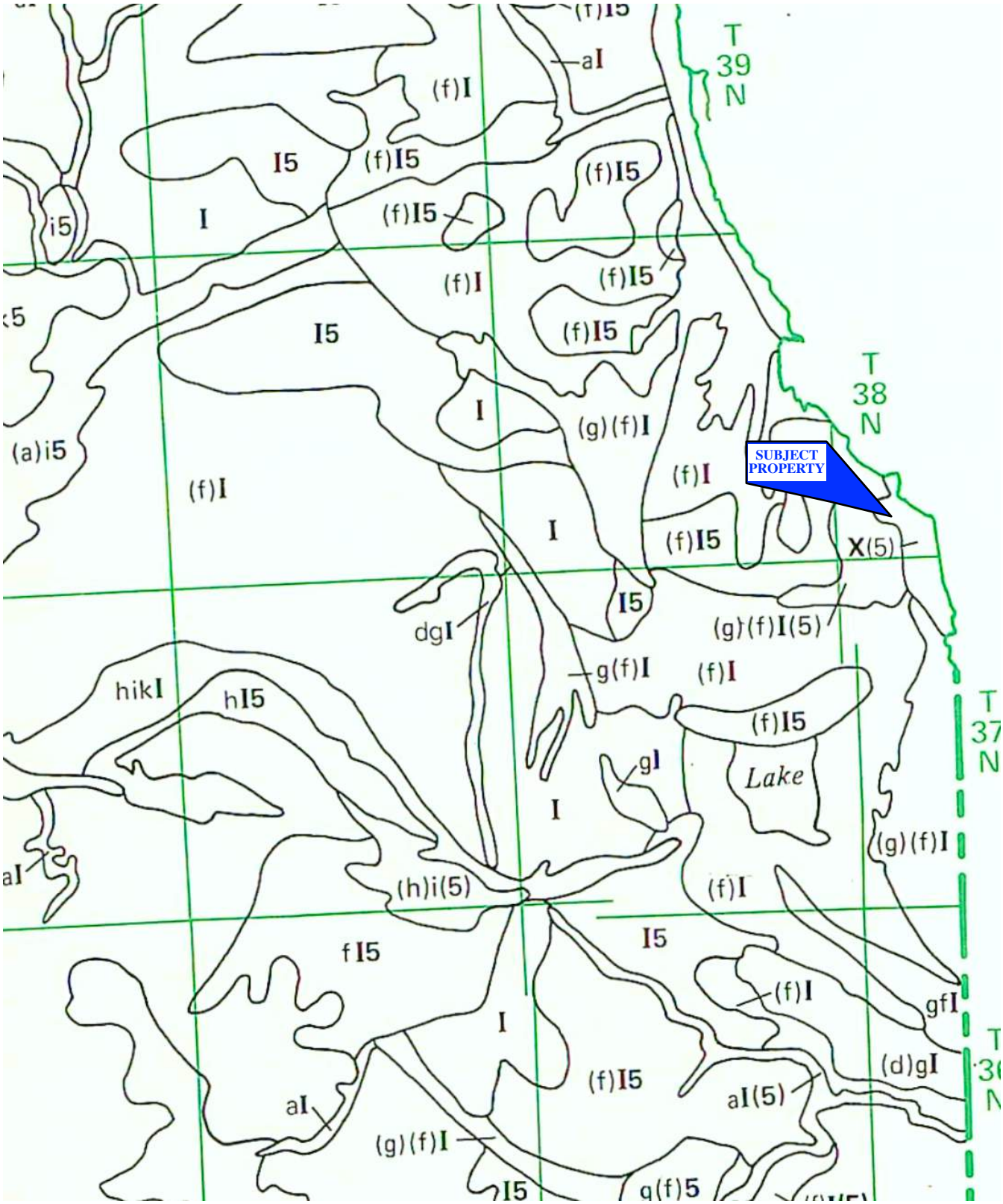
ISGS Map - Surficial Geology of the Chicago Region (1970)

KEY: m = Made land (man-made fill; areas formerly covered by Lake Michigan and Lake Calumet; largely sand in areas bordering Lake Michigan and rubbish in areas bordering Lake Calumet)



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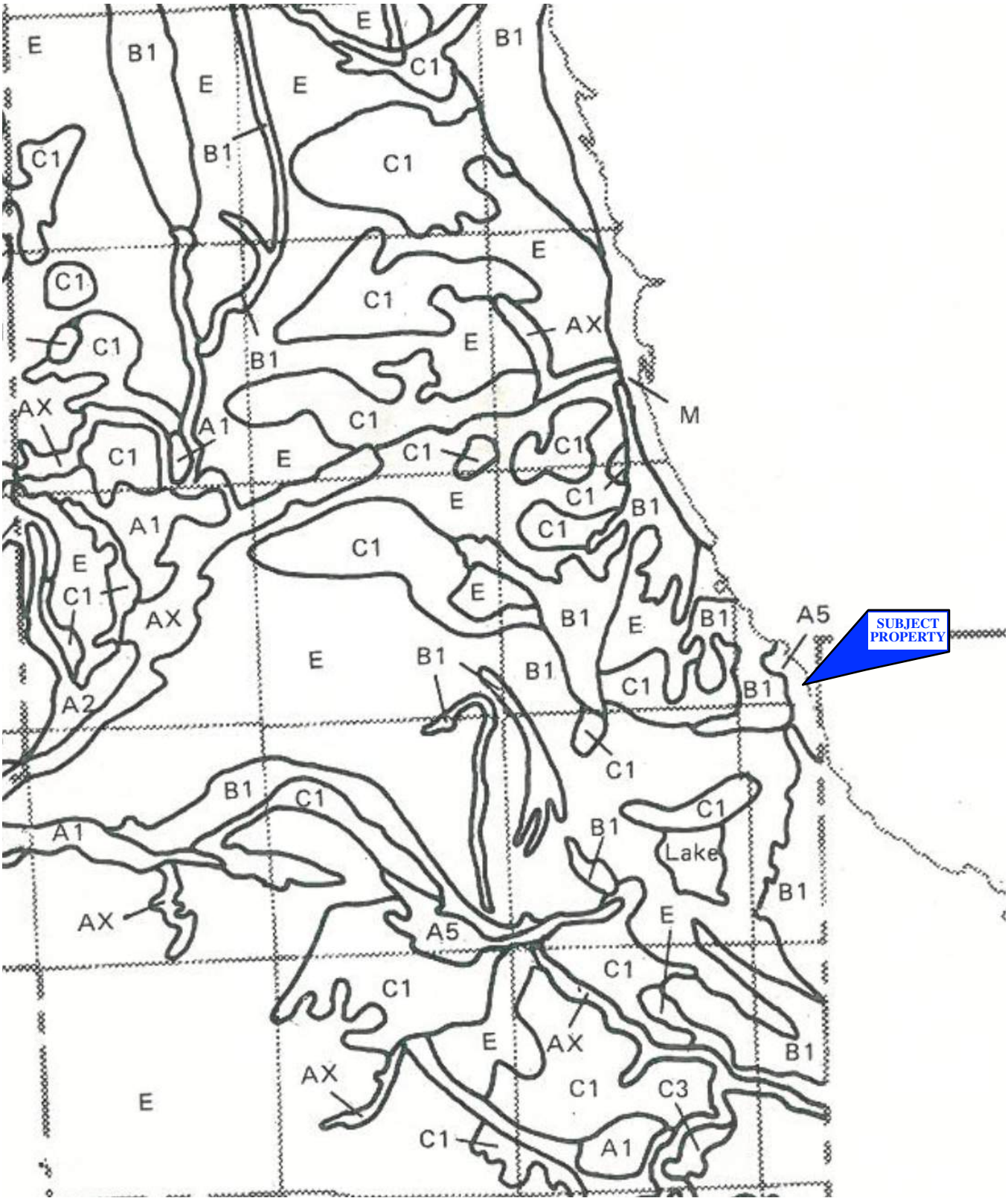
ISGS Stack-Unit Map of Northern Illinois (1987)

KEY: X(5) = man-made land overlying discontinuous Silurian and some Devonian bedrock, mainly dolomite



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Chicago, Illinois

Potential for Contamination of Shallow Aquifers (1984)

KEY: A5 = permeable bedrock generally within 20 feet of land surface; overlying materials variable but mostly till

TOPOGRAPHIC SURVEY EXHIBIT

N

SCALE 1" = 200'

0 200 400

NOTES:

1. CONTOURS SHOWN HEREON ARE ON THE CITY OF CHICAGO DATUM.

2. CONTOURS CALCULATED FROM UAV AERIAL FLIGHT DATA COLLECTED MARCH 2, 2022

STORM SURGE ELEVATION OF LAKE MICHIGAN SHORELINE = **585.00 FEET (NGVD)** per USACE

BM1	11.506	CUT CROSS IN CENTERLINE OF 87TH ST. ISLAND 9 FT. +/- W. OF E. END OF W. ISLAND @ BURLEY. (RT 41)
BM2	12.877	N. NE. BOLT OF F.H. @ SE. CORNER OF 87TH ST.
BM3	10.372	N. NE. BOLT OF F.H. @ SE. CORNER OF 87TH ST. & MACKINAW AVE.
BM4	16.897	N. BOLT OF F.H. ON S. SIDE OF 87TH ST. 1ST. F.H. EAST OF MACKINAW.
BM5	15.303	E. BOLT OF F.H. @ SW. CORNER OF 87TH. ST. & AVE. O
BM6	15.861	N. BOLT OF F.H. ON S. SIDE OF 87TH ST. 1ST. F.H. EAST OF AVE. O.
BM7	15.989	N. BOLT OF F.H. ON S. SIDE OF 87TH ST. 2ND F.H. EAST OF AVE. O.
BM8	15.342	N. BOLT OF F.H. ON S. SIDE OF 87TH ST. 3RD F.H. EAST OF AVE. O.
BM9	16.275	N. BOLT OF F.H. ON S. SIDE OF 87TH ST. 4TH F.H. EAST OF AVE. O.
BM10	16.350	N. BOLT OF F.H. ON S. SIDE OF 87TH ST. 5TH F.H. EAST OF AVE. O.
BM11	15.122	W. SW. BOLT OF F.H. ON S. SIDE OF 87TH ST. 6TH F.H. EAST OF AVE. O.
BM12	15.258	S. SW. BOLT OF F.H. ON S. SIDE OF 87TH ST. 7TH F.H. EAST OF AVE. O.
BM13	15.380	NW. BOLT OF F.H. ON S. SIDE OF 87TH ST. 8TH F.H. EAST OF AVE. O.
BM14	10.956	E. BOLT OF F.H. ON E. SIDE OF BURLEY. 1ST F.H. N. OF 87TH ST.
BM15	9.294	S. BOLT OF F.H. ON NE. CORNER OF BURLEY & 86TH ST.
BM16	7.146	W. BOLT OF F.H. @ NE. CORNER OF BUFFALO & 86TH ST.
BM17	7.455	E. BOLT OF F.H. @ NE. CORNER OF MACKINAW & 86TH ST.
BM18	8.756	E. BOLT OF F.H. @ NE. CORNER OF GREENBAY & 86TH ST.
BM19	9.458	S. BOLT OF F.H. ON E. SIDE OF GREENBAY 2ND F.H. NORTH OF 86TH ST.
BM20	8.592	S. BOLT OF F.H. @ NE. CORNER OF GREENBAY & 85TH ST.
BM21	7.964	S. BOLT OF F.H. @ NE. CORNER OF MACKINAW & 85TH ST.
BM22	7.235	S. BOLT OF F.H. @ NE. CORNER OF BUFFALO & 85TH ST.
BM23	7.945	S. BOLT OF F.H. @ NW CORNER OF BURLEY & 85TH ST.
BM24	8.352	W. BOLT OF F.H. ON E. SIDE OF BURLEY @ 8527.
BM25	8.015	S. BOLT OF F.H. ON E. SIDE OF GREENBAY AVE. @ 8428.
BM26	7.722	S. BOLT OF F.H. @ NE. CORNER OF GREENBAY & 84TH ST.
BM27	6.636	S. BOLT OF F.H. @ NE CORNER OF MACKINAW & 84 TH ST.
BM28	7.331	S. BOLT OF F.H. ON E. SIDE OF MACKINAW @ 8427
BM29	6.932	S. BOLT OF F.H. ON EAST SIDE OF MACKINAW @ 8328.
BM30	7.299	S. BOLT OF F.H. @ NE. CORNER OF MACKINAW & 83RD ST.
BM31	7.654	S. BOLT OF F.H. @ NE CORNER OF GREENBAY & 83RD ST.
BM32	7.902	S. BOLT OF F.H. ON E. SIDE OF GREENBAY AVE. BETWEEN 83RD & 84TH ST.
BM33	8.482	S. BOLT OF F.H. ON E. SIDE OF MACKINAW @ ALLEY N. OF 83RD ST.
BM34	7.611	N. BOLT OF F.H. ON E. SIDE OF BUFFALO @ 8233
BM35	7.178	NE. BOLT OF F.H. ON E. SIDE OF BURLEY @ ALLEY N. OF 83RD ST.
BM36	8.094	N. BOLT OF F.H. ON E. SIDE OF BRANDON @ 8239.
BM37	8.023	NE. BOLT OF F.H. @ NW. CORNER OF 82ND ST. & BRANDON.
BM38	7.424	S. BOLT OF F.H. @ SE. CORNER OF SOUTH SHORE & 82ND. ST.
BM39	7.305	N. BOLT OF F.H. ON E. SIDE OF SOUTH SHORE @ 8235 ST. MICHAELS
BM40	7.040	NW. BOLT OF F.H. @ NE. CORNER OF SOUTH SHORE & 83RD ST.
BM41	7.882	SE. BOLT OF F.H. @ NE. CORNER OF BRANDON & 83RD ST.
BM42	7.393	N. BOLT OF F.H. @ NE. CORNER OF BURLEY & 83RD ST.
BM43	7.052	N. BOLT OF F.H. @ NE. CORNER OF BUFFALO & 83RD ST.
BM44	8.896	N. BOLT OF F.H. ON E. SIDE OF BRANDON @ 8128.
BM45	9.091	N. BOLT OF F.H. @ NE. CORNER OF 81ST. & BRANDON.
BM46	9.051	N. BOLT OF F.H. ON E. SIDE OF BRANDON @ 8030.
BM47	8.860	N. BOLT OF F.H. @ NE. CORNER OF BRANDON & 80TH ST.
BM48	9.903	N. BOLT OF F.H. ON E. SIDE OF BRANDON @ 7928.
BM49	11.049	NW. BOLT OF F.H. ON N. SIDE OF 79TH @ CUL-DE-SAC E. OF BRANDON.
BM50	10.853	N. BOLT OF F.H. ON N. SIDE OF 79TH ST. @ CENTERLINE OF BRANDON.
BM51	9.708	NW. BOLT OF F.H. @ NE. CORNER OF 79TH ST. & SOUTH SHORE.
BM52	12.645	E. BOLT OF F.H. APPROX. 50 FT. W. OF SW. CORNER OF THE N. SLIP.
BM53	11.185	CUT CROSS ON TOP OF S. EDGE OF STEEL MOORING ON S. SIDE OF N. SLIP @ WEST EDGE OF N. ORE WALL.
BM54	10.561	CUT CROSS ON W. ARM OF STEEL MOORING ON S. SIDE OF N. SLIP @ 4+75 +/- OF N. ORE WALL.
BM55	11.221	CUT CROSS ON TOP OF S. EDGE OF STEEL MOORING ON S. SIDE OF N. SLIP @ 8+90 +/- OF N. ORE WALL.
BM56	11.501	CUT CROSS ON TOP OF W. SIDE OF STEEL MOORING ON S. SIDE OF N. SLIP @ 13+10 +/- OF N. ORE WALL.
BM57	10.868	BOX CUT ON TOP OF SW. SIDE OF STEEL MOORING ON S. SIDE OF N.SLIP @ 17+45 +/- ON N. ORE WALL.
BM58	10.094	CUT CROSS ON W. ARM OF STEEL MOORING ON S. SIDE OF N. SLIP @ 21+50 +/- ON N. ORE WALL.
BM59	10.139	CUT CROSS ON W. ARM OF STEEL MOORING ON S. SIDE OF N. SLIP @ 24+00 +/- ON N. ORE WALL.
BM60	13.718	RAILROAD SPIKE IN W. SIDE OF UP. 1ST UP S. OF THE SE. CORNER OF THE N. SLIP ALONG LAKE MICHIGAN.

EXHIBIT ASSUMES
NGVD = CCD +579.00

GENERAL SITE ELEVATION EXHIBIT
2024-04-19

PR
MA
71
CHICAGO, ILLINOIS 60606

REVISIONS:

SPACECO INC.

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

DATE: 04/06/2023
JOB NO: 3978.15
FILENAME: EXB-03 TOPO
SHEET 1 OF 1

N:\Projects\3978\3978.15\SURVEY\3978.15EXB-03 TOPO.dgn Default User=rpopeck

Appendix C Soil Boring and Monitoring Well Logs, Pioneer's Investigation Protocols

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB1

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/28/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, with some slag and gravel), brown/gray; dense, moist	
	75	(0-3')	0		2.0 SAND, brown; dense, moist	
5			0			
	50	(5-7.5')	0		8.0 SILTY CLAY, with sand, brown/gray; stiff, moist	
10			0		10.0 ▽ SAND, gray; dense, wet	
	75		0			
15			0		15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB2

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/28/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 9.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						0.2 ASPHALT FILL (Sand, with some slag and gravel), black; dense, moist	
	75		(0-3')	0			
			(3-5')	2		5.0	
5						SAND, black/brown; dense, moist	
	25			0			
				0		9.0 ▽	
10						SAND, brown/gray; dense, wet	
	50			0			
				0		14.0	
15						SAND, gray; dense, wet 15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB3

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/28/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 8.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, with some slag and gravel), black; dense, moist	
	50	(0-3')	⊙ 0			
			⊙ 0			
5					5.0	
					CONCRETE	
		(5-7.5')	⊙ 8		6.0	
					FILL (Sand, with slag and gravel), black/brown; dense, moist	
					8.0 ▽	
			⊙ 0		SAND, brown; dense, wet	
10					10.0	
			⊙ 0		SAND, with gravel, brown; dense, wet	
					13.0	
			⊙ 0		SAND, gray; dense, wet	
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB4

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/28/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.2 TOPSOIL FILL (Sand, with trace gravel), black/brown; dense, moist	
	50	(0-3')	⊙ 0			
			⊙ 0		4.0 SAND, brown; dense, moist	
5						
	50		⊙ 0			
		(7.5-10')	⊙ 0		8.0 SAND, gray; dense, moist	
10					10.0 ▽ SAND, gray; dense, wet	
	75		⊙ 0			
			⊙ 0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB5

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/28/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, with some slag and gravel), black/brown; dense, moist	
	25	(0-3)	⊙ 3			
			⊙ 0			
5						
	50	(5-7.5)	⊙ 0			
					8.0	
			⊙ 0		SAND, brown; dense, moist	
10						
	75		⊙ 0			
					13.0 ▽	
			⊙ 0		SAND, gray; dense, wet	
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB6

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/29/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						0.3 ASPHALT FILL (Sand, with some slag and gravel), black/brown; dense, moist	
	50		(0-3')	0			
5			(3-5')	22			
	50			0			
10				0		10.0 ▽ SAND, gray; dense, wet	
	75			0			
15				0		15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB7

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/29/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, with some slag and gravel), black/brown; dense, moist	
	75	(0-3')	0			
			0			
5						
	10		0			
			0			
10						
	75	(10-12.5')	0		11.0 ▽ SAND, gray; dense, wet	
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB8

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/29/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 7.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Sand, with some slag and gravel), black/gray; dense, moist	
	50	(0-3')	⊙ 0			
5			⊙ 0			
	50	(5-7.5')	⊙ 0		7.0 ▽ SAND, with some gravel, brown; dense, wet	
10			⊙ 0			
	50		⊙ 0			
15			⊙ 0		14.0 SAND, gray; dense, wet 15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB9

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/29/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Sand, with some slag and gravel), black/brown; dense, moist	
	50	(0-3')	0			
5			0		5.0	
			0		SAND, brown/gray; dense, moist	
	50	(7.5-10')	0			
10					10.0 ▽	
			0		SAND, with gravel, gray; dense, wet	
	50		0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB10(a)

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/29/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Drilled to 15' 8/29/34; re-drilled to 15' 12/17/24 as SB10a

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 ASPHALT FILL (Sand, with slag and gravel), black/brown; dense, moist	
	75	(0-3')	⊙ 18		2.0 2.5 CONCRETE FILL (Sand with slag and gravel, crushed bricks), black/brown; dense, moist	
5		(3-5')	⊙ 0			
	50	(5-7.5')	⊙ 0			
10		(7.5-10')	⊙ 0		11.0 ▽ Sand, brown; medium dense, wet	
	75		⊙ 0			
15			⊙ 0		15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB10b

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/17/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some gravel and slag), black/brown; very dense, stiff	
			0			
	50					
			0			
5						
		(5-7.5)	0			
	50					
					8.0	
			0		SAND, brown; medium dense, moist	
10					10.0	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB10c

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/17/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 ASPHALT FILL (Gravel and sand, crushed brick), brown; very dense, moist	
			0			
	75					
			0			
5						
		(5-7.5)	0			
	50					
			0			
10					10.0	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB10d

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/17/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 ASPHALT FILL (Gravel and slag, some sand), gray/black; very dense, moist	
			0			
	75				3.0 FILL (Gravel and crushed brick), brown/gray; dense, moist	
			0			
5						
		(5-7.5)	0			
	25					
			0			
10					10.0	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB10e

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/17/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 ASPHALT FILL (Gravel and slag, some sand), gray/brown; very dense, moist	
			0			
	60					
			0			
5						
	50	(5-7.5)	0			
			0			
10					10.0	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB11/MW-314

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/29/24 **DATE MW INSTALLED**

GROUND ELEVATION 13.7 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. David **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger 2/5/25

AFTER DRILLING 12.72 ft / Elev 0.98 ft (14.02' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						Stick-up cover
		(0-3')	0		0.2 TOPSOIL 13.5 FILL (Sand, with some slag and gravel), brown/black; dense, moist	Cement Seal Medium Chip Bentonite Fill
	50		0			Riser: 10.3' of 2" I.D. Sch 40 PVC
5		(5-7.5')	4			Bentonite Seal
	50		0			#5 Quartz Sand
10			0			
	50		0		12.0 1.7 FILL (Sand, with gravel), brown/gray; dense, moist	Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
15					15.0 -1.3 SAND, trace gravel, gray/brown; dense, wet	
					19.0 -5.3 Bottom of borehole at 19.0 feet.	

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB12

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/29/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with sandl), black/gray; very dense, moist	
	75	(0-3')	0			
			0			
5						
			5		6.0 FILL (Sand, with trace gravel), brown/black; dense, moist	
	75				8.0 FILL (Slag and gravel), black/gray; very dense, moist	
		(7.5-10')	11		▽	
10						
			0			
	25					
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB13

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/29/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with sand), black; very dense, moist	
	60	(0-3')	⊙ 7			
5			⊙ 4			
	60	(5-7.5')	⊙ 2			
10			⊙ 0			
	25		⊙ 0			
15			⊙ 0		15.0	
					Bottom of borehole at 15.0 feet.	

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB14/MW-301

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/29/24 **DATE MW INSTALLED**

GROUND ELEVATION 14.6 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger 10/14/24

AFTER DRILLING 11.90 ft / Elev 2.70 ft (14.40' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
						FILL (Sand and gravel, with slag), brown/gray; dense, moist	Cement Seal
			(0-3')	0			Medium Chip Bentonite Fill
	75						Riser: 7.5' of 2" I.D. Sch 40 PVC
				0			Bentonite Seal
5							#5 Quartz Sand
				0			
	60						
				0			
10							Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
			(10-12.5')	0			
						12.0 ▼ 2.6	
	60					SAND, gray/brown; dense, wet	
				0			
15						15.0 -0.4	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB15

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/29/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with sand), brown/gray; very dense, moist	
	75	(0-3')	⊙ 0			
5			⊙ 0			
	75		⊙ 0			
		(7.5-10')	⊙ 0			
10					10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB16

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/29/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with sand), brown/gray; very dense, moist	
	75	(0-3')	⊙ 0			
		(3-5')	⊙ 0			
5				5.0	Refusal at 5' BSG	

Bottom of borehole at 5.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB17

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/30/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with some sand), black/gray; dense, moist	
	50	(0-3')	0			
5			0			
		(5-7.5')	0		6.0	
	75				FILL (Sand, trace gravel), brown; medium dense, moist 7.0	
10			0		FILL (Slag and gravel, with sand), gray/brown; very dense, moist 10.0	
	75		0		SAND, brown; medium dense, moist	
					13.0 ▽	
15			0		SAND, brown/gray; medium dense, wet 15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB18

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/30/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with sand), black; dense, moist	
	75	(0-3')	⊙ 0			
5			⊙ 0			
	75	(7.5-10')	⊙ 3			
10			⊙ 3		10.0	
	90		⊙ 0		SAND, brown; medium dense, wet at 13' BSG	
15			⊙ 0		▽ 15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB19

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/30/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with some sand), black; very dense, moist	
	50	(0-3')	0			
			0			
5					5.0	
					FILL (Sand, with some gravel and slag), black/brown; medium dense, moist	
		(5-7.5')	0			
					7.0	
	75				SAND, brown; medium dense, moist	
			0			
10						
			0			
	60				13.0 ▽	
					SAND, brown/gray, medium dense, wet	
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB20

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/30/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with some sand), black/gray; very dense, moist	
	75	(0-3')	⊙ 0			
		(3-5')	⊙ 0			
5				5.0	Refusal at 5' BSG	

Bottom of borehole at 5.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB21(a)

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/30/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 12.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES Drilled to 15' 8/30/24; re-drilled to 30' 12/6/24 as SB21a **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, with slag, gravel, silty clay), dense, moist	
	50	(0-3')	0			
5			0			
			0		6.0	
	50	(7.5-10)	0		FILL (Slag and gravel, some sand), black/gray; very dense, moist	
10					10.0	
			3		FILL (Slag, with some sand), very dense, wet -- viscous petroleum residue coating soil	
	50	(12.5-15')	3		▽	
15					15.0	
	75	(15-17.5	0		SAND, gray, dense, wet	
20			0			
	50		0			
25			0			
	75		0			
30			0		30.0	

Bottom of borehole at 30.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB21b

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), black/brown; very dense, moist	
			3			
5	75		5			
			4			
10	50	(7.5-10)	5		10.0 ▽ FILL (Slag and gravel, some sand), black/brown; very dense, wet -- petroleum odor, staining	
		(10-12.5)	9			
15	50		7		14.0 SAND, black; medium dense, wet	
		(15-17.5)	0		16.0 SAND, gray/black; medium dense, wet	
20	75		0		20.0	

Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB21c

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), black/brown; very dense, moist	
			0			
5	50		0			
			0			
	75	(7.5-10)	0			
10					10.0 ▽ FILL (Slag and gravel, some sand), black/brown; very dense, wet -- petroleum odor, staining	
			5			
	75	(12.5-15)	6			
15					15.0 SAND, black; medium dense, wet	
		(15-17.5)	0		17.0 SAND, gray/brown; medium dense, wet	
	75					
			0			
20					20.0	

Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB21d

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), black/brown; very dense, moist	
			0			
	50		0			
5						
			0			
	75	(7.5-10)	0			
10					10.0 ▽	
					FILL (Slag and gravel, some sand), black/brown; very dense, wet -- petroleum odors, staining	
		(10-12.5)	8			
	75					
			6			
15					15.0	
					SAND, black; medium dense, wet	
		(15-17.5)	0			
					17.0	
	75				SAND, gray/brown; medium dense, wet	
			0			
20					20.0	

Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB21e

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand and silty clay, some slag and gravel), brown/gray; dense, moist	
			0			
	50					
			7			
5						
			0			
	50					
		(7.5-10)	0			
10					10.0 ▽	
			5		FILL (Sand and silty clay, some slag and gravel), black/brown; dense, wet -- viscous petroleum residue coating soil	
	50					
		(12.5-15)	7			
15					15.0	
		(15-17.5)	0		SAND, gray/black; dense, wet	
	75					
			0			
20					20.0	

Bottom of borehole at 20.0 feet.

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BORING NUMBER SB21f

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/11/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 5.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	75			0		FILL (Slag and gravel, some sand), black/gray; very dense, moist	
				2			
5						5.0 ▽	
	75			0		FILL (Slag and gravel, some sand), brown/gray, very dense, wet	
				0			
10						11.0	
	75		(10-15)	36		FILL (Slag and gravel, some sand), brown/black; very dense, wet -- black staining, petroleum odor	
				35		14.0	
15						SAND, black; medium dense, wet	
	75		(15-17.5)	0			
				0			
20						20.0	

Bottom of borehole at 20.0 feet.

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BORING NUMBER SB21g

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/11/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), black/gray; very dense, moist	
	75		0			
			0			
5					5.0	
					FILL (Slag and gravel, some sand and crushed bricks), brown; very dense, moist	
	75		0			
			0			
10					10.0 ▽	
					FILL (Slag and gravel, some sand), brown/black; very dense, wet	
	75	(10-15)	0			
			0		13.0	
					SAND, black; medium dense, wet	
15						
	50	(15-17.5)	0			
			0			
20					20.0	

Bottom of borehole at 20.0 feet.

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BORING NUMBER SB21h

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/11/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, with slag and gravel), brown/gray; dense, moist	
	75		0			
			0		3.0 FILL (Slag and gravel, some sand, trace cobbles), brown/gray, very dense, moist	
5						
	75		0			
			0			
10						
	60	(10-15)	0		11.0 ▽ FILL (Slag and gravel, some sand, trace cobbles), gray/black; very dense, wet	
			0		14.0 SAND, black; medium dense, wet	
15						
	60	(15-17.5)	0			
			0			
20					20.0	

Bottom of borehole at 20.0 feet.

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BORING NUMBER SB21i

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/11/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						FILL (Slag and gravel, some sand), black/brown; very dense, moist	
				0			
	75			0			
5							
				0			
	60			0			
10							
				3		11.0 ▽ FILL (Slag and gravel), gray/brown; very dense, wet -- minor black staining	
	75		(10-15)	3			
15						14.0 SAND, black; medium dense, wet	
			(15-17.5)	0			
	75			0			
20						20.0	

Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB21j

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/25/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/black; very dense, moist	
			0			
	50		0			
5						
			0			
	50		0			
10					10.0 ▽	
		(10-12.5)	6		FILL (Slag and gravel, some sand), gray/black; very dense, wet -- black staining, petroleum odors	
					12.0	
	75				SAND, brown; medium dense, wet -- black staining, petroleum odor	
		(12.5-15)	164			
15					15.0	
			17		SAND, brown/gray ; medium dense, wet	
	75					
		(17.5-20)	8			
20					20.0	

Bottom of borehole at 20.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

TEST PIT NUMBER SB21k

PIONEER Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand and gravel, with slag), black; dense, moist	
			0		2.0 FILL (Slag, sand and gravel), brown; dense, moist	
					4.0 FILL (Slag and gravel), gray; dense, moist	
5					5.0 FILL (Slag, sand and gravel, trace cobbles), brown; dense, moist	
			0			
10					11.0 ▽ FILL (Sand and gravel, with slag and trace cobbles, gray/brown; very dense, wet	
		(10-15)	0			
15					15.0	

Bottom of borehole at 15.0 feet.

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TEST PIT NUMBER SB21I

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 12.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel and sand with bricks and concrete debris), brown/gray; very dense, moist	
			0		3.0 FILL (Slag, gravel and cobbles, some sand), brown/gray; very dense, moist	
5						
			0			
10					12.0 ▽ SAND, black; medium dense, wet	
		(10-15)	0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

TEST PIT NUMBER SB21m

PIONEER Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand with concrete and piping, possible concrete slab); very dense, moist	
			0			
5						
					6.0 FILL (Sand, some slag and gravel), brown; medium dense, moist	
			0			
10						
		(10-15)	0		13.0 ▽ SAND, gray; medium dense, wet	
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

TEST PIT NUMBER SB21n

PIONEER Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand, some bricks and concrete), black/brown; very dense, moist	
			0			
5						
			0		8.0	
					SAND, brown; dense, wet at 10' BSG -- petroleum and hydrogen sulfide odors, soil coated with viscous petroleum residue	
10					▽	
		(10-15)	0		11.0	
					SILT, brown/green; very dense, wet -- petroleum and hydrogen sulfide odors, soil coated with viscous petroleum residue	
					13.0	
15					SAND, black; dense, moist -- petroleum and hydrogen sulfide odors, soil coated with viscous petroleum residue	
					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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TEST PIT NUMBER SB21o

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/20/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, silt, sand and gravel, with cobbles, reinforced concrete, pipes, wood), black; very dense, wet at 13' BSG	
			0			
5						
			0			
10						
		(10-15)	0		▽	
15					15.0	

Bottom of borehole at 15.0 feet.

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TEST PIT NUMBER SB21p

PIONEER Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/26/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.**

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand with gravel and slag, some cobbles), dense, moist -- concrete footing exposed along north side of excavation	
			0			
					4.0	
5					SAND, brown; medium dense, moist	
			0			
10						
		(10-15)	0		13.0 ▽	
					SAND, brown/gray; medium dense, wet	
15						
			0		17.0	

Bottom of borehole at 17.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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TEST PIT NUMBER SB21q

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/26/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.**

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

▽ **AT TIME OF DRILLING** 12.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, with gravel, some slag), black/brown; dense, moist -- large concrete structure encountered along east side of excavation	
			0			
5					5.0 FILL (Slag and gravel, with bricks and concrete), brown/gray; very dense, moist	
					7.0 SAND, brown; medium dense, moist	
			0			
10					11.0 SAND with some gravel, gray; medium dense, wet at 12' BSG ▽	
		(10-15)	0			
15					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
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TEST PIT NUMBER SB21r

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/7/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand with bricks and concrete fragments), brown/black; very dense, moist	
			0			
5						
			0			
10					10.0 ▽ FILL (Slag and concerete), gray/brown; very dense, wet -- petroleum odor and staining, sheen	
		(10-15)	14			
15					15.0	

Bottom of borehole at 15.0 feet.

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TEST PIT NUMBER SB21s

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/8/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 12.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, with gravel and slag, some brick and concrete fragments), black/brown; dense, moist	
			0			
5						
			0			
10						
		(10-15)	0		12.0 ▽ SAND, gray/black; medium dense, wet	
15					15.0	

Bottom of borehole at 15.0 feet.

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TEST PIT NUMBER SB21t

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/8/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 9.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with sand, some concrete fragements, metal pipes), black; dense, moist	
5			0			
10		(7.5-10)	2		9.0 ▽ FILL (Sand, with some slag and gravel), black; very dense, wet -- petroleum odor, staining and sheen 10.0 Bottom of borehole at 10.0 feet.	

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TEST PIT NUMBER SB21u

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/8/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 9.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, with some slag and gravel, concrete and pipes), black; dense, moist	
5			⊙ 0			
10		(7.5-10)	⊙ 0		9.0 ▽ FILL (Sand with some slag and gravel), black; very dense, wet -- petroleum odor, staining 10.0	

Bottom of borehole at 10.0 feet.

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BORING NUMBER SB22

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/30/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 8.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel), very dense, moist	
	75	(0-3')	3			
5			3			
	75		0			
10			0		8.0 ▽ SAND, brown; dense, wet	
	75	(10-12.5')	20		12.0 SAND, gray, dense, wet	
15			2		15.0	

Bottom of borehole at 15.0 feet.

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BORING NUMBER SB23

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 8/30/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), black/gray; very dense, moist	
	50	(0-3')	0			
			0			
5						
	50	(5-7.5')	0			
			0			
10					10.0 ▽ SAND, brown; dense, wet	
	50		0			
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

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BORING NUMBER SB24/MW-313

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/3/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed in soil boring

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						◄Stick-up cover
	50	(0-3')	0		FILL (Slag and gravel, some sand, concrete and brick fragments), black/gray; very dense, moist	
			0			◄Riser: 7'
5						
	60	(7.5-10')	0			
10					10.0	
	75		0		SAND, brown/gray; dense, wet ▽	◄Screen: 10' of 0.01" Slot, 1" I.D. Sch 40 PVC
15			0		15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
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BORING NUMBER SB25

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/3/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	50		(0-3')	0		FILL (Slag and gravel, some sand and brick fragments), black/gray; very dense, moist -- temporary refusal at 7.5' BSG	
5			(3-5')	0			
	50			0			
10				0			
	50			0		11.0 ▽ SAND, brown/gray; dense, wet	
15				0			
						20.0	

Bottom of borehole at 15.0 feet.

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PIONEER
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BORING NUMBER SB26/MW-302

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/3/24 **DATE MW INSTALLED**

GROUND ELEVATION 13.7 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger on 10/14/24

AFTER DRILLING 9.45 ft / Elev 4.25 ft (11.95' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
				100 200 300 400		Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
0						FILL (Slag and gravel, some sand and brick fragments), brown/black; very dense, moist -- temporary refusal at 7.5' BSG	Cement Seal
	60		(0-3')	3			Medium Chip Bentonite Fill
				3			Riser: 10.2' of 2" I.D. Sch 40 PVC
5							
	60		(7.5-10')	17			Bentonite Seal
				19			#5 Quartz Sand
10						10.0 3.7	
	75			0		SAND, brown; medium dense, wet	
						13.0 0.7	Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
				0		SAND, gray; medium dense, wet	
15							
	75			0			
						18.0 -4.3	

Bottom of borehole at 18.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB27

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

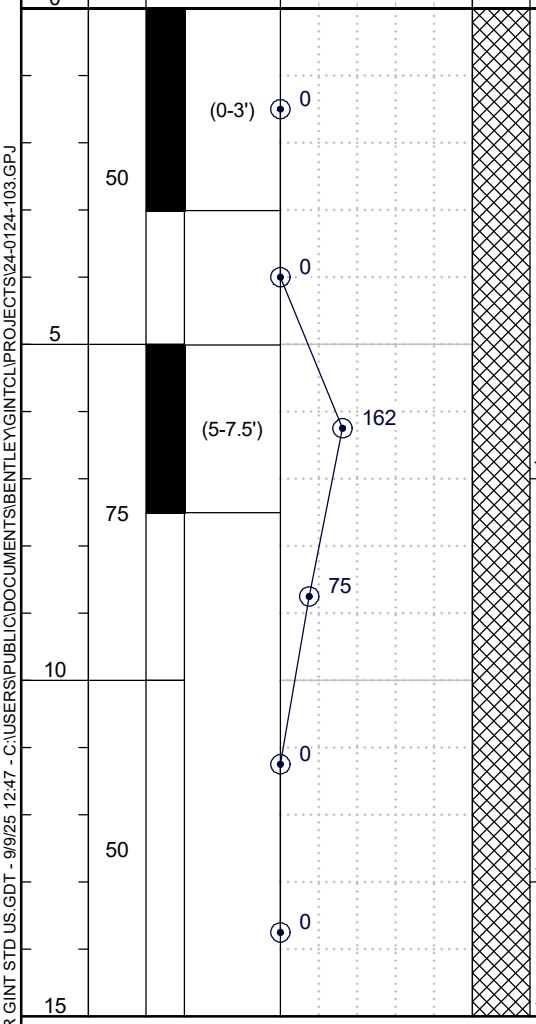
DATE DRILLED 9/3/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____



GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
	Stratification lines represent approximate boundaries; the transition may be gradual.	
	FILL (Slag and gravel, some sand), gray; very dense, moist -- temporary refusal at 5' BSG	
	7.0 FILL (Sand, some slag and gravel), black/brown; dense, wet	
	▽	
	13.0 FILL (Slag and gravel, some sand), very dense, wet	
	15.0 Bottom of borehole at 15.0 feet.	

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PIONEER
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BORING NUMBER SB28

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/3/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), brown/gray; very dense, moist	
	60	(0-3')	20			
			19			
5						
			1			
	75					
			0			
10					10.0 ▽ FILL (Slag and gravel, some sand), brown/gray; very dense, wet	
		(10-12.5')	32			
	50				12.0 FILL (Sand, some slag and gravel), brown/gray; medium dense, wet	
			2			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB29

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/3/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and brick fragments), brown/black; very dense, moist	
	75	(0-3')	⊙ 0			
5			⊙ 0			
	75	(7.5-10')	⊙ 0			
10			⊙ 0		10.0 ▽ FILL (Slag and gravel, some sand), black/brown; very dense, wet	
	75		⊙ 0			
15			⊙ 0		15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
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BORING NUMBER SB30

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/3/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some slag and gravel), brown/gray; dense, moist	
	60	(0-3')	⊙ 0			
5			⊙ 0			
	90		⊙ 0			
10			⊙ 0			
			⊙ 0		11.0 FILL (Sand, gravel, slag), blue; dense, moist	
	50	(12.5-15')	⊙ 0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB31

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/brown; very dense, moist	
	60	(0-3')	0			
			0			
5						
			0			
	60	(7.5-10')	0			
10						
			0		11.0 ▽ FILL (Slag, some sandl), gray/brown; very dense, wet	
	60					
			0		14.0 SAND, gray/black; medium dense, wet	
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB32

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 12.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						
	60	(0-3')	0		FILL (Slag and gravel, some sand and brick fragments), brown/black; very dense, moist	
			0			
5					5.0	
	75	(5-7.5')	0		FILL (Sand, some slag and gravel), black/brown; dense, wet at 12' BSG	
			0			
10						
	75		0		▽	
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB33

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 14.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and brick fragments), black/brown; very dense, moist	
	50	(0-3')	3			
			2			
5						
	30	(5-7.5')	17			
			3			
10						
	25		0			
			0			
					14.0 ▽	
15					FILL (Slag, some sand), brown/gray; very dense, wet	
					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB34

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 14.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and brick fragments), black/brown; very dense, moist	
	75	(0-3')	2			
			2			
5						
	60	(5-7.5')	19			
			6			
10						
	50		2			
			0			
					14.0 ▽ FILL (Slag, some sand), brown/black; very dense, wet	
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB35

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), very dense, moist	
	50	(0-3')	⊙ 0			
			⊙ 0			
5						
	50		⊙ 0			
		(7.5-10')	⊙ 0			
10					10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB36/MW-304

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED**

GROUND ELEVATION 13.1 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger on 10/15/24

AFTER DRILLING 10.35 ft / Elev 2.75 ft (11.35' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
	50	(0-3')	0		FILL (Slag and gravel, some sand), very dense, moist	Cement Seal
			0			Medium Chip Bentonite Fill
5						Riser: 5.2' of 2" I.D. Sch 40 PVC
	50	(5-7.5')	0			Bentonite Seal
			0			#5 Quartz Sand
10						
	50		0			Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
			0		12.0 / 1.1 FILL (Sand, with slag and gravel), very dense, wet	
					14.0 / -0.9 Bottom of borehole at 14.0 feet.	

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB37

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Sand, with slag and gravel), black/gray; dense, moist	
	50	(0-3')	8			
			3			
5						
	50		3			
			0			
10						
	50		3			
		(12.5-15')	113			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB38

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. David **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Silty clay and sand, some gravel), black/brown; dense, moist	
	50	(0-3')	0			
5			0			
	50		0			
10			0			
	25		0		12.0 SAND, brown; dense, moist	
15		(12.5-15')	28		15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB39

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Sand, trace slag), brown/red; dense, moist	
	75	(0-3')	0			
			0			
5						
			0			
	50	(7.5-10')	2			
10						
			0			
	10					
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB40

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Sand, some slag and gravel), black/brown; dense, moist	
	50	(0-3')	0			
			0			
5						
	50	(5-7.5')	0			
			0			
10						
	10		0		13.0 Refusal at 13' BSG due to concrete	
			0		Bottom of borehole at 13.0 feet.	

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB41

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.2 TOPSOIL FILL (Sand, some slag and gravel), black/gray; dense, moist -- likely concrete at 15' BSG	
	25	(0-3')	0			
5			0			
	25	(5-7.5')	0			
10			0			
	25		0			
15			0		15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB42/MW-312

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED**

GROUND ELEVATION 16.9 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. David **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger on 12/2/25

AFTER DRILLING 14.09 ft / Elev 2.81 ft (16.09' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				100 200 300 400		Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
						0.3 TOPSOIL 16.7	Cement Seal
						FILL (Sand, some slag and gravel), black/brown; dense, moist	
	50		(0-3')	0			Medium Chip Bentonite Fill
				0			Riser: 10' of 2" I.D. Sch 40 PVC
5							
	50			0			Bentonite Seal
				0			#5 Quartz Sand
			(7.5-10')	0			
10						10.0 6.9	
						SAND, brown/black; dense, moist	
	50			0			
				0			Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
15						15.0 1.9	
						SAND, brown/gray; dense, wet	
						18.0 -1.1	

Bottom of borehole at 18.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB43

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/4/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. David **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.5 CONCRETE	
		(0-3')	0		FILL (Sand, trace slag and gravel), black/gray; dense, moist	
	50		0			
5			0			
	25		3			
10		(10-12.5')	8			
	10		0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB44

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/5/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Slag and gravel, with sand), black/gray; dense, moist	
	50	(0-3')	0			
5			0			
	50	(5-7.5')	0			
10			0		10.0 SAND, brown; dense, moist	
	50		0			
15			0		15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB45

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/5/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Sand, trace slag and gravel), black/brown; dense, moist	
	50	(0-3')	0			
			0			
5					5.0	
					FILL (Slag and gravel, some sand), gray/black; dense, moist	
	25	(5-7.5')	19			
			15			
10					10.0	
					SAND, gray; dense, wet	
	25		2			
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB46

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/5/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
			(0-3')	0		CONCRETE	
						2.0	
	50					FILL (Slag and gravel), black/gray; dense, moist	
						2.5	
						CONCRETE	
						3.0	
			(3-5')	2		FILL (Sand, with slag and gravel), black/gray; dense, moist	
5							
				0			
	10						
				0			
10						10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB47

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/5/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. David **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Slag, gravel, sand), brown/gray; dense, moist	
	25	(0-3')	0			
5			0			
	25	(7.5-10')	0			
10			0		10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB48

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/5/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. David **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Slag and gravel, with sand), brown/gray; dense, moist	
	75	(0-3')	0			
			0			
5						
	50	(5-7.5')	0			
					8.0 Refusal at 8' BSG	

Bottom of borehole at 8.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB49

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/5/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. David **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					CONCRETE	
		(0-3')	7		2.0	
	50				FILL (Sand, with slag and gravel), brown/red; dense, moist	
			0			
5						
			0			
	50					
			0			
10						
		(10-12.5')	0			
	50				13.0	
					Suspected concrete	
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB50

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/5/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Sand with slag and gravel), black/brown; very dense, moist	
	50	(0-3')	0			
5			0			
	25	(7.5-10')	0			
10			0			
	50		0			
15					15.0 Bottom of borehole at 15.0 feet.	

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB51/MW-303

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/5/24 **DATE MW INSTALLED**

GROUND ELEVATION 16.1 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY S. Splittgerber **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger on 10/15/25

AFTER DRILLING 13.32 ft / Elev 2.78 ft (14.32' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				100 200 300 400		Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
	60		(0-3')	0		FILL (Sand, with slag and gravel), black/brown; very dense, moist	Cement Seal
				0			Medium Chip Bentonite Fill
5							Riser: 10' of 2" I.D. Sch 40 PVC
	60		(5-7.5')	0		5.0 11.1 FILL (Sand, with slag and gravel), gray/brown; very dense, moist	Bentonite Seal
				0			#5 Quartz Sand
10							
	60			0		12.0 4.1 FILL (Sand, with slag and gravel), black/brown; very dense, wet	
				0			Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
15							
						19.0 -2.9	

Bottom of borehole at 19.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB52

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/5/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY S. Splittgerber **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), brown/gray; very dense, moist	
	60	(0-3')	0			
			0			
5					5.0	
					FILL (Slag, some sand), black; very dense, moist	
	60		0			
		(7.5-10')	0			
10					10.0 ▽	
					FILL (Sand, with slag and gravel), black/brown; very dense, moist	
	60		0			
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB53

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/5/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY S. Splittgerber **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES Drilled to 15' 9/5/24; re-drilled to 25' 2/24/25 **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), brown/gray; very dense, moist	
	75	(0-3')	0			
5			0		5.0	
					FILL (Slag and gravel, some sand), brown/black; very dense, moist	
	60		0			
10			0		10.0	
					SAND, brown; dense, moist	
	75	(10-12.5')	0			
15			0		15.0 ▽	
					FILL (Slag and gravel, some sand), black; very dense, wet -- minor petroleum odor	
	50	(15-17.5')	2			
20			1		20.0	

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PIONEER
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BORING NUMBER SB53

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
20					FILL (Slag and gravel, some sand), gray; very dense, wet	
	30	(20-22.5')	⊙ 0			
			⊙ 0			
25					25.0	

Bottom of borehole at 25.0 feet.

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PIONEER
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BORING NUMBER SB54

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/5/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY S. Splittgerber **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some slag and gravel), black/brown; very dense, moist	
	60	(0-3')	0			
			0			
5						
	60		0			
			0			
10						
	60	(10-12.5')	0			
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB55

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/5/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY S. Splittgerber **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES Drilled to 15' BSG 9/5/24; re-drilled to 20' 2/21/25 **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some slag and gravel), black; dense, moist	
	60	(0-3')	0			
			0			
5						
	60	(5-7.5')	0			
			0			
10						
	75		0			
			0			
15					15.0 ▽ SAND, black; medium dense, wet -- petroleum odor	
		(15-17.5')	3			
					17.5 SAND, gray; medium dense, wet	
		(17.5-20')	0			
20					20.0	

Bottom of borehole at 20.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB56

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					CONCRETE	
					0.7 FILL (Slag and gravel, with sand), dense, moist	
	50	(0-3')	3			
			2			
5						
	10	(5-7.5')	2			
			0			
10					10.0 ▽ SAND, brown; dense, moist	
	50		0			
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB57

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some slag and gravel), dense, moist	
	50	(0-3')	0			
5			0			
	50	(7.5-10')	0			
10			2			
	50		0			
15			0		15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB58

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some slag and gravel), brown/black; dense, moist	
	50	(0-3')	0			
			0			
5						
	25		0			
			0			
10					10.0	
					FILL (Sand, trace slag), gray/black; dense, moist	
	25	(10-12.5')	0			
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB59

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Sand, some slag and gravel), brown/black; dense, moist	
	50	(0-3')	0			
5			0			
	25	(5-7.5')	0			
10			0		10.0 ▽ FILL (Sand, some slag and gravel), brown/black; dense, wet	
	10		0			
15			0		15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB60

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 TOPSOIL FILL (Slag and gravel, with sand), black/gray; dense, moist	
	50	(0-3')	0			
5			0			
	50	(7.5-10')	0			
10					10.0 FILL (Sand, some slag and gravel), black/gray; dense, moist	
	50		0		13.0 Refusal at 13' BSG	

Bottom of borehole at 13.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB61(a)/MW-318

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/6/24 **DATE MW INSTALLED**

GROUND ELEVATION 13.7 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Drilled to 19' BSG 9/6/24; well installed via hollow stem auger 2/6/25; boring re-drilled to 40' BSG 2/21/25

AFTER DRILLING 12.42 ft / Elev 1.28 ft (14.62' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0			100 200 300 400		Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
	50	(0-3')	0		FILL (Slag and gravel, some sand), gray; very dense, moist	Cement Seal
			0		3.0 / 10.7 FILL (Sand, with slag and gravel), black/brown; dense, moist	Medium Chip Bentonite Fill
5						Riser: 15.4' of 2" I.D. Sch 40 PVC
			0			Bentonite Seal
	50	(7.5-10')	0			#5 Quartz Sand
10						
			9		12.0 / 1.7 FILL (Sand, with slag and gravel), black; dense, wet -- soil coated with viscous petroleum residue	
	50	(12.5-15')	11			
15						
			46			Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
	50	(17.5-19')	60		19.0 / -5.3 No Recovery -- blind drill to 35 ft wth auger plug due to blowback	
20						
25						

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 14:04 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

(Continued Next Page)

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB61(a)/MW-318

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
25					No Recovery -- blind drill to 35 ft wth auger plug due to blowback *(continued)*	
30						
35					35.0 -21.3	
	75	(35-37.5')	2		SILTY CLAY, with sand, gray/brown; stiff, wet -- petroluem odor 37.5 -23.8	
		(37.5-40')	0		SILTY CLAY, gray; stiff, moist	
40					40.0 -26.3	

Bottom of borehole at 40.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB61b

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/13/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and silty clay), black/brown; very dense, moist	
			0			
	50		0			
5						
			0			
	50	(7.5-10)	0			
10					10.0	
			4		FILL (Sand, some slag and gravel), Brown/black; very dense, moist	
	50	(12.5-15)	14		13.0 ▽ FILL (Slag and gravel, some sand, black/gray; dense, wet -- viscous petroleum residue coating soil, odor	
15						
			12		17.0	
	75	(17.5-19)	1		FILL (Sand, trace slag), black/gray; medium dense, wet -- viscous petroleum residue coating soil, odor	
					19.0 Refusal at 19' BSG	

Bottom of borehole at 19.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB61c

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/13/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), black/gray; dense, moist	
			0			
	40					
5			0			
			0			
	50					
		(7.5-10)	0			
10						
			9		11.0 ▽ FILL (Slag and gravel, some sand), black/gray; dense, wet -- viscous petroleum residue coating soil, odor	
	60					
		(12.5-15)	13			
15					15.0	
	75	(15-17)	18		FILL (Slag, trace silty clay, gravel, slag), black/brown, wet -- viscous petroleum residue coating soil, odor	
					17.0 Recovery at 17' BSG	

Bottom of borehole at 17.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB61d

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/13/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 14.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), brown/black; dense, moist	
5	50		0 0			
10	50		0 0			
15	50	(10-12.5)	1 3		14.0 ▽ FILL (Slag and gravel, some sand), brown/black; dense, wet -- black staining, petroleum odor	
20	40	(17.5-20)	6 6		17.0 FILL (Slag and gravel, some sand), gray; brown; dense, wet	
25	90		4 1		24.0 SAND, gray; medium dense, wet	
30	60	(25-27.5)	1 1		30.0	

Bottom of borehole at 30.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB61e

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/13/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), brown/black; dense, moist	
	50		0			
5			0			
	25		0			
10		(7.5-10)	0			
		(10-12.5)	22		11.0 ▽ FILL (Sand, some slag and gravel), black; medium dense, wet -- black staining, petroleum odor	
	75		21			
15			8			
	90		7			
20			7			
	90	(22.5-25)	1		22.0 SAND, gray; medium dense, wet	
25			1			
	75		1			
30					30.0	

Bottom of borehole at 30.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB61f

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/17/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/black; very dense, moist	
5	75		0 0			
10	75		0 0		8.0 FILL (Slag and gravel, some sand), gray/white; dense, moist -- hydrogen sulfide odor	
15	100		0 0		12.0 FILL (Sand, some slag and gravel), gray/blue; dense, moist -- hydrogen sulfide odor	
20	50	(15-17.5)	8 8		15.0 ▽ FILL (Slag and gravel, some sand and crushed bricks), black; dense, wet -- black staining; petroleum odor 20.0	
25	50	(22.5-25)	6 0		SAND with silt, black; dense, moist 25.0	
30					No Recovery 30.0	

Bottom of borehole at 30.0 feet.

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PIONEER
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BORING NUMBER SB61g

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/17/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	75			0		FILL (Slag and gravel, some sand), black/gray; very dense, moist	
5				0			
	75			0			
10				0		10.0	
	50			0		FILL (Sand, some slag and gravel), brown/gray; dense, moist	
15			(12.5-15)	1		13.0 ▽ FILL (Slag and gravel, some sand), black; very dense, wet -- black staining, petroleum odors	
	50			1			
20				1		20.0	
	50		(20-22.5)	0		SAND with silt (appears partially cemented), black/green; dense, moist	
						22.5	

Bottom of borehole at 22.5 feet.

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PIONEER
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BORING NUMBER SB61h

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/18/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						
5	60		0 0		FILL (Slag and gravel, some sand), black/gray; very dense, moist	
10	75		0 0			
15	75	(12.5-15)	0 4		13.0 ▽ FILL (Slag and gravel, some sand), black; very dense, wet -- black staining; petroleum odor	
	85	(17.5-19)	3 9		17.0 SAND with silt (appears partially cemented), black/green; dense, moist -- petroleum odor 19.0 Refusal at 19' BSG	

Bottom of borehole at 19.0 feet.

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BORING NUMBER SB61i

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/18/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), black/gray; very dense, moist	
5	60		0 0			
10	75		0 0			
15	75	(12.5-15)	0 0		12.0 FILL (Slag and gravel), very dense, moist 15.0 Refusal at 15' BSG	

Bottom of borehole at 15.0 feet.

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PIONEER
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BORING NUMBER SB61j

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/19/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	75			0		FILL (Slag and gravel, some sand and crushed bricks), brown/gray; very dense, moist	
5				0			
	50			0			
10				0			
	50			0			
15				0		15.0 ▽	
	30	■	(15-17.5)	13		FILL (Slag and gravel, some sand), black; dense, wet -- petroleum odor	
20				9			
	30	■	(20-22.5)	2			
25				1		24.0	
	75	■	(25-27.5)	0		SAND, black; medium dense, wet	
30				0		27.0	
						SAND, gray; medium dense, wet	
						30.0	

Bottom of borehole at 30.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB61k

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						
	75		1		FILL (Slag and gravel, some sand), gray/black; very dense, moist	
					3.0	
			1		FILL (Sand, some slag and gravel), brown/gray; medium dense, moist	
5					5.0	
	0				No Recovery	
10					10.0	
			1		FILL (Sand, some slag and gravel), brown/gray; medium dense, moist	
	25				13.0 ▽	
			1		FILL (Slag and gravel, some sand), black; very dense, wet -- black staining, petroleum odor	
15						
		(15-17.5)	7			
	75				18.0	
			6		SAND, black; dense, wet -- black staining; petroleum odor	
20						
		(20-22.5)	2			
	60				23.0	
			1		SAND, gray; medium dense, wet	
25						
		(25-27.5)	0			
	75					
			0			
30					30.0	

Bottom of borehole at 30.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB61I

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						FILL (Slag and gravel, some sand), black/brown; very dense, moist	
5	50			0 0			
10	50			0 0			
15	50			0 0		15.0 ▽	
20	30	■	(15-17.5)	2 2		FILL (Slag and gravel, some sand), black/brown; very dense, wet	
25	60	■	(20-22.5)	0 0		22.0 SAND, black; medium dense, wet 25.0	
30	75	■	(25-27.5)	0 0		SAND, gray; medium dense, wet 30.0	

Bottom of borehole at 30.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB61m

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 14.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	50			0		FILL (Slag and gravel, some sand), black/brown; very dense, moist	
5				0			
	30			0			
10				0		10.0	
	75			0		FILL (Sand, some slag and gravel), brown/black; dense, moist -- petroleum odor, black staining	
15			(14-15)	0		14.0 ▽ FILL (Slag and gravel, some sand), black; dense, wet -- petroleum odor, black staining	
	75		(15-18)	2		18.0 Refusal at 18' BSG	

Bottom of borehole at 18.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB61n

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
5	75			0 0		FILL (Slag and gravel, some sand), gray/brown; very dense, moist	
10	75			0 0		10.0	
15	50			0 0		SAND, brown; medium dense, moist 15.0 ▽	
20	50		(15-17.5) (17.5-20)	0 0		SAND, gray; medium dense, wet 20.0	
25	75		(20-22.5)	0 0		SAND, gray/black; medium dense, wet	
30	75			0 0		30.0	

Bottom of borehole at 30.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB61o

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/21/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
5	50			0 0		FILL (Gravel and slag, with sand and possible cobbles and boulders), brown/gray; very dense, moist	
10	50			0 0			
15	50			0 0		15.0 ▽	
20	50		(15-17.5')	0 0		SAND, gray/black; medium dense, wet -- hydrogen sulfide odor 20.0	

Bottom of borehole at 20.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB61p

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand), black/gray; dense, moist	
	50		17			
5			5			
	50		2			
10			0			
	25		0			
15			0		15.0 ▽	
	50	(17.5-20)	2		SAND, with some silt, brown; medium dense, wet -- petroleum odor, black staining	
20			5		20.0	

Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB61q

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/19/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some slag and gravel), black/gray; dense, moist	
	75		0			
5			0			
	50		0			
10			0			
	25		0			
15			0		15.0 ▽	
	100	(15-17.5)	0		SAND, some silt, brown; medium stiff, wet	
20			0		20.0	

Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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TEST PIT NUMBER SB61r

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/24/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.**

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

▽ **AT TIME OF DRILLING** 16.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), brown/gray; very dense, moist	
			0			
					3.0	
					FILL (Slag and gravel, trace cobbles), black/gray; dense, moist	
5						
					7.0	
			0		FILL (Sand, some slag and gravel, trace cobbles), brown; dense, moist	
10					10.0	
					FILL (Slag cobbles, with sand and gravel), black/brown; very dense, wet at 16' BSG	
			0			
15					▽	
		(15-17.5)	1		17.5	

Bottom of borehole at 17.5 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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TEST PIT NUMBER SB61s

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/24/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), black/brown; very dense, moist	
			0		3.0 FILL (Slag and gravel, some brick and concrete fragments), black/brown; very dense, moist	
5						
			0			
10					10.0 FILL (Demo debris including bricks, concrete, pipes); very dense, moist	
			0		13.0 FILL (Slag and sand), black; very dense, wet at 15' BSG -- petroleum odor, staining	
15					▽	
		(15-17.5)	6		17.5	

Bottom of borehole at 17.5 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
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TEST PIT NUMBER SB61t

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/24/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, sand), gray/black; very dense, moist	
			0			
					3.0 FILL (Slag and gravel, with bricks, concrete and wood), brown/gray; very dense, moist	
5						
			0			
10						
			0			
15					15.0 ▽ FILL (Slag and gravel, sand), black; very dense, wet -- petroleum odor, staining	
		(15-17.5)	47		17.5	

Bottom of borehole at 17.5 feet.

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TEST PIT NUMBER SB61u

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/31/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, sand), gray/black; very dense, moist	
			0			
5					5.0 FILL (Slag and gravel, with bricks, concrete and wood), brown/gray; very dense, moist	
			0			
10						
			0			
15					15.0 ▽ FILL (Slag cobbles, gravel, sand), black; very dense, wet	
		(15-17.5)	0		17.5	

Bottom of borehole at 17.5 feet.

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TEST PIT NUMBER SB61v

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, sand, some bricks), black; very dense, moist	
			0			
5					5.0 FILL (Slag and gravel, some sand), gray; very dense, moist	
			0			
					8.0 FILL (Slag and gravel, some bricks), black/brown; very dense, wet at 15' BSG	
10						
			0			
15					▽	
		(15-17.5)	0		17.5	

Bottom of borehole at 17.5 feet.

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TEST PIT NUMBER SB61w

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand, concrete and wood); brown/black; very dense, moist (wet at 15' BSG)	
			0			
5						
			0			
10						
			0			
15					▽	
		(15-17.5)	0			
					17.5	

Bottom of borehole at 17.5 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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TEST PIT NUMBER SB61x

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), brown; very dense, moist	
			0		3.0	
					FILL (Slag and gravel, some sand and trace cobbles), black/brown; very dense, moist	
5						
			0			
10					10.0	
					FILL (Slag cobbles and concrete, some gravel and sand), brown/black; very dense, moist	
			0			
15					15.0 ▽	
		(15-17.5)	0		FILL (Sand, some slag and gravel), black; very dense, moist -- minor petroleum odor, staining	
					17.5	

Bottom of borehole at 17.5 feet.

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PIONEER
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TEST PIT NUMBER SB61y

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand with some concrete and brick fragments), brown; very dense, moist	
			0			
5						
			0			
10					10.0 FILL (Sand with some slag), brown; dense, moist (wet at 15' BSG)	
			0		▽	
15		(15-17.5)	0		17.5	

Bottom of borehole at 17.5 feet.

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PIONEER
Engineering & Environmental Services, LLC

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TEST PIT NUMBER SB61z

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/7/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and concrete fragments), brown/gray; very dense, moist	
					2.0 FILL (Slag and concrete fragments); very dense, moist	
			⊙ 0			
5						
			⊙ 0			
10						
			⊙ 0			
15		(15-17.5)	⊙ 17		15.0 ▽ FILL (Slag, gravel, sand), gray/black; dense, wet -- petroleum odor, staining	
					17.5	

Bottom of borehole at 17.5 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB62/MW-305

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** 7.8 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES Well installed via 4.25" hollow-stem auger on 10/16/25 **AFTER DRILLING** 7.33 ft / Elev 0.47 ft (11.33' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				100 200 300 400		Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
	60		(0-3')	0		FILL (Slag and gravel, some sand), gray/brown, very dense, moist	Cement Seal; Medium Chip Bentonite Fill; Riser: 13' of 2" I.D. Sch 40 PVC
						3.0 / 4.8	Bentonite Seal
5				0		FILL (Slag and gravel, some sand), gray/brown, very dense, wet	#5 Quartz Sand
	50			0			
			(7.5-10')	0		9.0 / -1.2	Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
10						SAND, gray; medium dense, moist	
	90			0			
15				0		15.0 / -7.2	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB63

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/black; very dense, moist	
	60	(0-3')	0			
5			0			
	60	(5-7.5')	0			
10			0		10.0 ▽ SAND, gray; medium dense, wet	
	75		0			
15			0		15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB64

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/6/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0	50	(0-3')	8		FILL (Slag and gravel, some sand), black/gray; very dense, moist -- temporary refusal at 5' BSG	
5	50	(7.5-10')	7 7 8		Refusal at 10' BSG	
10				10.0	Bottom of borehole at 10.0 feet.	

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB65/MW-306

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** 18.7 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES Well installed via 4.25" hollow-stem auger on 10/16/25 ▼ **AFTER DRILLING** 16.65 ft / Elev 2.05 ft (19.15' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						◄Stick-up cover
	60	(0-3')	0		FILL (Slag and gravel, some sand), gray/black; very dense, moist	◄Cement Seal ◄Medium Chip Bentonite Fill ◄Riser: 10.2' of 2" I.D. Sch 40 PVC
5			0			
	50	(7.5-10')	0			◄Bentonite Seal ◄#5 Quartz Sand
10			0			
	25		0			◄Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
15					15.0 / 3.7 FILL (Slag and gravel, some sand), gray/black; very dense, wet ▼	
					18.0 / 0.7	

Bottom of borehole at 18.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB66

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and brick fragments), gray/black; very dense, moist	
	50	(0-3')	⊙ 0			
5			⊙ 0			
	50	(5-7.5')	⊙ 0			
10			⊙ 0			
	25		⊙ 0			
15			⊙ 0		15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB67

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/6/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 14.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	50		(0-3')	0		FILL (Slag and gravel, some sand and brick fragments), gray/black; very dense, moist (wet at 14' BSG)	
5			(3-5')	0			
	50			0			
10				0			
	50			0			
15				0		▽ 15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB68

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/9/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						
	60	(0-3')	0		FILL (Slag and gravel, some sand), gray/black; very dense, moist -- temporary refusal at 4' BSG	
			0		4.0 CONCRETE	
5					5.0	
	75		0		FILL (Slag and gravel, some sand), gray/black; very dense, moist	
		(7.5-10')	0			
10					10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB69

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/9/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/black; very dense, moist	
	75	(0-3')	0			
		(3-5')	0			
5				5.0	Refusal at 5' BSG	

Bottom of borehole at 5.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB70(a)

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/9/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Re-drilled on 12/10/24 as SB71a

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/black; very dense, moist	
	50	(0-3')	2			
			2			
5					5.0	
					FILL (Sand, some slag and gravel), brown/gray; dense, moist	
			0			
	75	(7.5-10)	0			
10						
			71		11.0 ▽	
					SAND, black/gray; medium dense, wet -- black staining, petroleum odor	
	75	(12.5-15')	62			
15					15.0	
					SAND, gray; medium dense, wet	
			11			
	60					
		(17.5-20')	3			
20					20.0	

Bottom of borehole at 20.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB70b

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/9/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

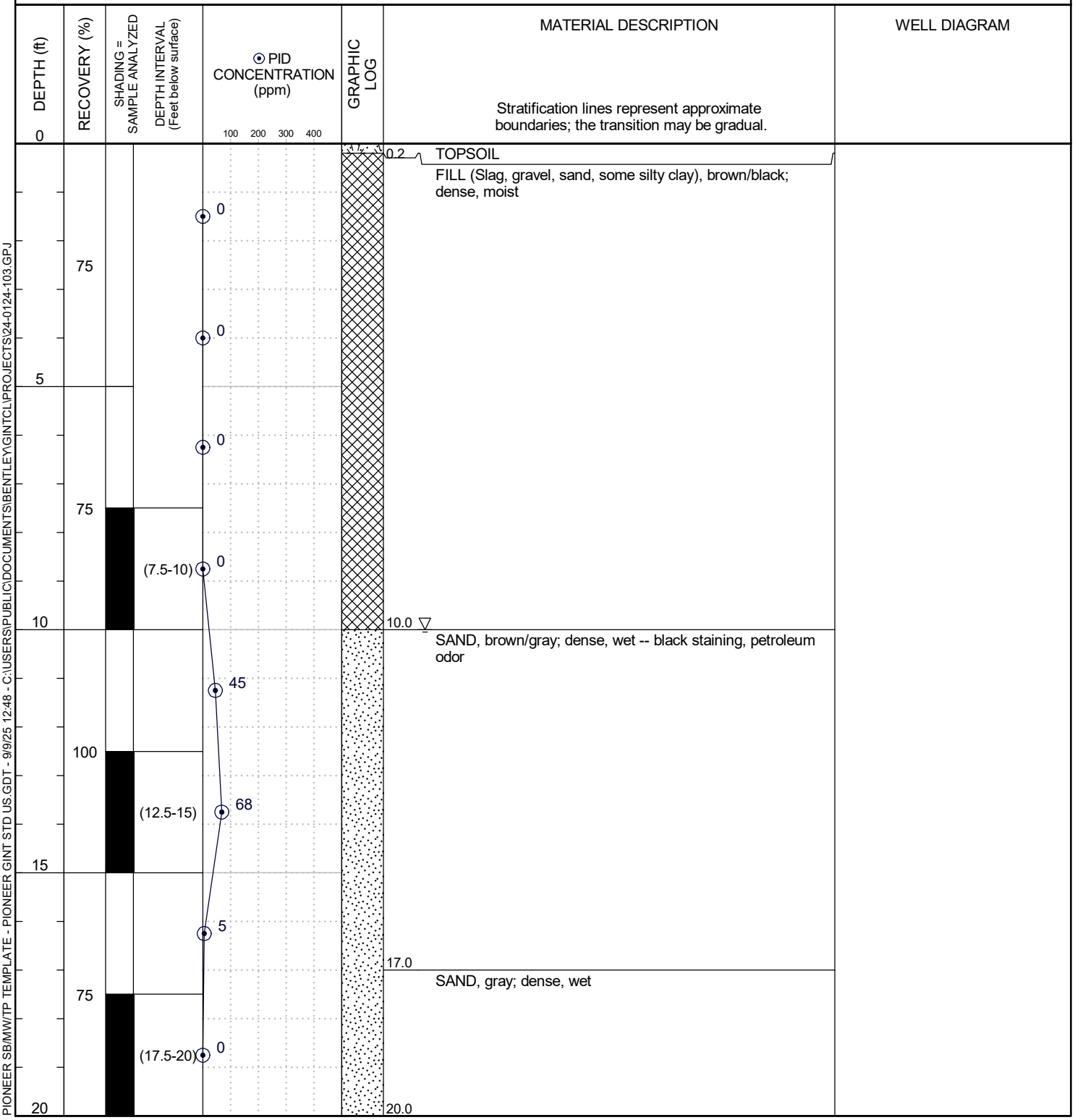
▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING



Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB70c

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/9/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.2 TOPSOIL FILL (Sand and silty clay, some slag and gravel), brown/black; dense, moist	
			0			
5	50		0			
			0			
10	50	(7.5-10)	0		10.0 ▽ SAND, brown/gray; dense, wet -- black staining; petroleum odor	
			36		12.0 SAND, gray; dense, wet	
15	50	(12.5-15)	85			
			5			
20	50	(17.5-20)	0		20.0	

Bottom of borehole at 20.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:48 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB70d

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/9/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.2 TOPSOIL FILL (Sand and silty clay, some slag and gravel), brown/black; dense, moist	
	50		0			
5			0			
			0			
	50	(7.5-10)	0		10.0 ▽	
10					SAND, brown/gray; dense, wet -- black staining; petroleum odor	
	75	(10-12.5)	154			
			93			
15					15.0	
					SAND, gray; dense, wet	
			10			
	50	(17.5-20)	0			
20					20.0	

Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB70e

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/10/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 12.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						
	75		0		FILL (Slag and gravel, some sand), black/brown; very dense, moist	
			0			
5					5.0	
	75		0		FILL (Slag and gravel, some sand and cinders), black; dense, moist	
		(7.5-10)	1		9.0	
10					SAND, brown; medium dense, moist	
	75	(10-12.5)	68		12.0 ▽	
					SAND, black/gray; medium dense, wet -- black staining, petroleum odor	
			67			
15					15.0	
	60	(15-17.5)	1		SAND, gray; medium dense, wet	
			1			
20					20.0	

Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB70f

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/12/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 12.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand), black; dense, moist	
			0			
	50		0			
5						
			0			
	50		0			
10					FILL (Sand, some slag and gravel), brown; medium dense, moist	
					10.0	
			7		12.0 ▽	
	60	(10-15)			SAND, black; medium dense, wet -- black staining; petroleum odor	
			4		14.0	
15					SAND, gray; medium dense, wet -- black staining; petroleum odor	
		(15-17.5)	1			
	90					
			0			
20					20.0	

Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB70g

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/12/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				100 200 300 400		Stratification lines represent approximate boundaries; the transition may be gradual.	
				0		FILL (Slag, gravel, sand), black; dense, moist	
	60			0			
5							
				0			
	50					7.0 FILL (Sand, trace slag and gravel), brown; medium dense, moist	
				0			
10						11.0 ▽	
				77		SAND, black; dense, wet -- black staining; petroleum odor	
	75		(10-15)			13.0	
				80		SAND, gray; medium dense, wet -- black staining; petroleum odor	
15							
			(15-17.5)	96			
	50						
			(17.5-20)	9			
20						20.0	

Bottom of borehole at 20.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

TEST PIT NUMBER SB70h

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/21/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand and gravel with concrete, clay and metal pipes), black; very dense, moist	
			0			
5						
			0			
					8.0 FILL (Slag and sand), brown/black; very dense, moist	
10						
		(10-15)	0		12.0 SAND, brown/gray; medium dense, wet ▽	
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

TEST PIT NUMBER SB70i

PIONEER Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/25/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 12.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand and gravel, with bricks, concrete, metal), brown/gray; very dense, moist -- concrete footing and suspected vault along side of excavation	
			0			
5						
			0			
					8.0	
					CONCRETE PAD	
10					10.0	
					FILL (Slag and gravel), gray; very dense, moist	
					12.0 ▽	
		(10-15)	158		SAND, black/gray; medium dense, wet -- petroleum odor, staining	
15					15.0	

Bottom of borehole at 15.0 feet.

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TEST PIT NUMBER SB70j

PIONEER Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/26/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand), black; dense, moist	
			0			
					4.0 FILL (Sand, some slag and gravel), brown, dense, moist	
5						
			0			
10						
		(10-15)	0		13.0 ▽ SAND, brown; dense, wet	
15						
					16.0 Bottom of borehole at 16.0 feet.	

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

TEST PIT NUMBER SB70k

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/26/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand, some bricks), brown/black; very dense, moist	
			0			
5						
			0			
10					10.0 ▽ SAND, black/gray; dense, wet -- petroleum odor, staining	
		(10-15)	25			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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TEST PIT NUMBER SB70I

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/27/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 17.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, some sand, bricks and concrete fragments), gray/brown; very dense, moist	
			0			
5						
			0			
10						
			0			
15					15.0	
		(15-17.5)	0		SAND, brown/gray; medium dense, wet at 17' BSG -- petroleum odor, staining ▽	
					19.0	
					Bottom of borehole at 19.0 feet.	

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

TEST PIT NUMBER SB70m

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/27/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 16.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand, with concrete, bricks, metal), brown/gray; very dense, moist -- concrete footing from 8-11' BSG along east side of excavation	
			0			
5						
			0			
10						
					11.0 CONCRETE PAD 12.0	
			0		FILL (Slag and gravel, some sand, cobbles, bricks), brown/gray; dense, moist	
15					15.0	
		(15-17.5)	33		SAND, brown/gray; dense, wet at 16' BSG -- petroleum odor, staining ▽	
					18.0	

Bottom of borehole at 18.0 feet.

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Engineering & Environmental Services, LLC

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TEST PIT NUMBER SB70n

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/27/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand with bricks, concrete, metal), brown/gray; very dense, moist	
5			0			
10			0			
					13.0 ▽	
		(12.5-15)			SAND, brown/gray; dense, wet -- petorleum odor, staining and sheen	
15					15.0	
		(15-17.5)	0		SAND, gray; dense, wet	
					17.5	

Bottom of borehole at 17.5 feet.

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TEST PIT NUMBER SB70o

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/27/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand, with bricks and concrete fragments), brown/gray; very dense, moist	
			0			
5						
			0			
10						
		(12.5-15)	18		13.0 ▽ SAND, brown/gray; medium dense, wet -- petroleum odor, staining	
15					16.0	

Bottom of borehole at 16.0 feet.

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TEST PIT NUMBER SB70p

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/28/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 16.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and brick fragments), gray/brown; very dense, moist	
			0			
5					5.0 FILL (Slag cobbles, sand and gravel), gray/brown; very dense, moist	
			0			
10						
			0			
					14.0 FILL -- very dense slag requiring concrete breaker	
15					15.0 SAND, black/gray; dense, wet at 16' BSG	
		(15-17.5)	0		▽	
					17.5 Bottom of borehole at 17.5 feet.	

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TEST PIT NUMBER SB70q

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/28/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand with bricks, concrete, metal, wood), brown/black; very dense, moist	
			0			
5						
			0			
10						
			0			
15					15.0 ▽	
		(15-17.5)	32		SAND, black/brown; dense, wet -- petroleum odors, staining	
					17.5	

Bottom of borehole at 17.5 feet.

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TEST PIT NUMBER SB70r

PIONEER Engineering & Environmental Services, LLC

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CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/31/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/brown; very dense, moist	
			0			
					4.0 FILL (Compacted slag, silt), brown/gray; very dense, moist	
5						
			0			
					8.0 FILL (Slag and concrete, some gravel and sand), brown/gray; very dense, moist -- railroad track at 8' BSG	
10						
			0		11.0 SAND, brown; dense, moist	
15					15.0 ▽	
		(15-17.5)	0		SAND, gray; dense, wet	
					17.5	

Bottom of borehole at 17.5 feet.

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TEST PIT NUMBER SB70s

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/31/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.**

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand, concrete, bricks, pipes), brown/gray; very dense, moist	
			0			
5						
			0			
					8.0 SAND, brown; medium dense, moist	
10						
			0			
15					15.0 ▽ SAND, gray/brown; medium dense, wet -- petroleum odor, sheen	
		(15-17.5)	14		17.5	

Bottom of borehole at 17.5 feet.

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TEST PIT NUMBER SB70t

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/31/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 12.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand, with bricks, concrete, wire), black; very dense, moist -- concrete footings and slab on sides of excavation	
			0			
5					5.0 SAND, brown; dense, wet at 12' BSG	
			0			
10						
		(10-15)	0		▽	
15					15.0	

Bottom of borehole at 15.0 feet.

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TEST PIT NUMBER SB70u

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand, concrete, bricks, metal), black/brown; very dense, moist -- massive concrete footing on east side of excavation (5-11' BSG)	
			0			
5						
			0			
10					11.0	
					SAND, brown; dense, wet at 15' BSG	
			0			
15					▽	
		(15-17.5)	0		17.5	
					Bottom of borehole at 17.5 feet.	

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TEST PIT NUMBER SB70v

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand and slag, with gravel, concrete, bricks), black/brown; very dense, moist	
			0			
5						
			0			
10						
			0			
					13.0 SAND, brown; dense, moist	
15					15.0 ▽ SAND, gray; dense, wet -- petroleum odor	
		(15-17.5)	22		17.5	

Bottom of borehole at 17.5 feet.

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TEST PIT NUMBER SB70w

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray; very dense, moist	
					2.0	
			0		FILL (Sand and slag, with concrete and bricks), brown/gray; very dense, moist	
5						
			0			
					9.0	
					FILL (Slag, sand, gravel, with limestone blocks), brown; very dense, moist	
10						
			0			
					13.0	
					CONCRETE PAD	
15					15.0 ▽	
		(15-17.5)	4		SAND, brown/gray; dense, wet	
					17.5	

Bottom of borehole at 17.5 feet.

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TEST PIT NUMBER SB70x

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.**

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand, with concrete, bricks and pipes), brown/black; very dense, moist	
			0			
5						
			0			
					8.0 FILL (Slag and gravel, some sand), gray/brown; dense, moist	
10						
					11.0 FILL (Slag and gravel, some sand, concrete, bricks), brown/gray; very dense, moist	
			0			
					14.0 SAND, gray/brown; dense, wet at 15' BSG -- petroleum odors, staining	
15					▽	
		(15-17.5)	0			
					17.5	

Bottom of borehole at 17.5 feet.

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TEST PIT NUMBER SB70y

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.**

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand and gravel), brown; very dense, moist	
			0			
					3.0 FILL (Gravel and sand, some slag and concrete), brown; very dense, moist	
5						
			0			
10					10.0 FILL (Slag cobbles, with sand and gravel), brown; very dense, moist	
			0			
15					15.0 ▽	
		(15-17.5)	0		SAND, brown; dense, wet -- minor petroleum odor, staining	
					17.5	

Bottom of borehole at 17.5 feet.

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TEST PIT NUMBER SB70z

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand and gravel, with reinforced concrete, bricks), black; very dense, wet at 11' BSG	
			0			
5						
			0			
10					▽	
		(10-15)	0			
15					15.0	

Bottom of borehole at 15.0 feet.

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TEST PIT NUMBER SB70aa

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/7/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 12.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand and gravel, with bricks, concrete, metal), black/brown; very dense, wet at 12' BSG	
			0			
5						
			0			
10					▽	
		(10-15)	0			
15					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB71

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/9/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), brown/gray; very dense, moist	
	50	(0-3')	0			
			0			
5				5.0	Refusal at 5' BSG	

Bottom of borehole at 5.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB72

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 7.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some slag and gravel), black/brown; dense, moist	
	75	(0-3')	⊙ 0			
5			⊙ 0			
	75		⊙ 0		7.0 ▽	
		(7.5-10')	⊙ 0		SAND, with silt, brown/gray; dense, wet	
10						
	75		⊙ 0			
			⊙ 0		14.0	
15					SAND, gray; dense, moist	
					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB73

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.2 TOPSOIL FILL (Sand, some slag and gravel), black; dense, moist	
	50	(0-3')	0			
					3.0 SAND, gray/brown; dense, moist	
5			0			
	50	(5-7.5')	0			
			0			
10					10.0 ▽ SAND, brown/gray; dense, wet	
	50		0			
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB74

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						0.2 ASPHALT FILL (Sand, some slag and gravel), black; dense, moist	
	50		(0-3')	3			
5			(3-5')	2		6.0	
	50			0		SAND, brown; dense, mosit	
				0			
10						10.0 ▽	
	60			0		SAND, gray/brown; dense, wet	
				0			
15						15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB75/MW-307

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED**

GROUND ELEVATION 21 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger on 10/17/24

AFTER DRILLING 7.15 ft / Elev 13.85 ft (11.65' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
	75		(0-3')	0		FILL (Slag and gravel, some sand), gray/brown; very dense, moist	Cement Seal
				0			Medium Chip Bentonite Fill
5							Riser: 10.25' of 2" I.D. Sch 40 PVC
	50		(5-7.5')	0			Bentonite Seal
				0			#5 Quartz Sand
10						10.0	11.0
	25			0		FILL (Slag and gravel, some sand), black/gray; dense, wet	Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
				0			
15						16.0	5.0

Bottom of borehole at 16.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB76

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/black; very dense, moist	
	50	(0-3')	0			
			0			
5						
			0			
	50	(7.5-10')	0			
10					8.0 SAND, brown; dense, moist	
			0			
	25				13.0 ▽ SAND, blue; dense, wet	
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB77

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/brown; very dense, moist	
	50	(0-3')	⊙ 0			
5			⊙ 0			
	50	(5-7.5')	⊙ 0			
10			⊙ 0		10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB78/MW-309

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED**

GROUND ELEVATION 20.9 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger on 12/4/24

AFTER DRILLING 19.90 ft / Elev 1.00 ft (22.20' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				100 200 300 400		Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
	50	■	(0-3')	0		FILL (Sand, some cinders, slag and gravel), black/brown; dense, moist	Cement Seal
5				0			Medium Chip Bentonite Fill
	50			0			Riser: 15.3' of 2" I.D. Sch 40 PVC
10				0		6.0 / 14.9 FILL (Sand, some slag, gravel, brick fragments), brown/gray; dense, moist	Bentonite Seal
	50	■	(10-12.5')	0			#5 Quartz Sand
15				0		13.0 / 7.9 FILL (Slag and gravel, some sand), very dense, moist; 15.0 / 5.9 No Recovery -- blind drill to 28 ft wth auger plug due to blowback	
20						▼	Screen: 15' of 0.01 Slot, 2" I.D. Sch 40 PVC
25						28.0 / -7.1	

Bottom of borehole at 28.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB79

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray; very dense, moist -- temporary refusal at 5' BSG	
	50	(0-3')	⊙ 0 ⊙ 0			
5						
	50	(5-7.5')	⊙ 0 ⊙ 0			
10					10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB80

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	75		(0-3')	0		FILL (Slag and gravel, some sand), gray; very dense, moist -- temporary refusal at 5' BSG	
5			(3-5')	0			
	50			0			
				0			
10						10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB81

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and brick fragments), black/brown; very dense, moist -- temporary refusal at 8' BSG	
	50	(0-3')	10			
			6			
5						
			0			
	50	(7.5-10')	0			
10					10.0 ▽ SAND, gray/brown; medium dense, wet	
			0			
	75					
			0			
					14.0 Refusal at 14' BSG	

Bottom of borehole at 14.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB82

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and brick fragments), black/brown; very dense, moist	
	60	(0-3')	0			
5			0			
					6.0	
	60	(5-7.5')	0		SAND, brown/gray; medium dense, moist	
10			0		10.0 ▽	
					SAND, brown/gray; medium dense, wet -- temporary refusal at 10' BSG	
	75		0		12.0	
15			0		SAND, with silty clay, gray; dense, wet	
					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB83

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	75		(0-3')	0		FILL (Slag and gravel, some sand), brown/gray; very dense, moist -- temporary refusal at 5' BSG	
5			(3-5')	0			
	50			0			
				0			
10					10.0	Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB84

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0	50	(0-3')	0		FILL (Slag and gravel, some sand and brick fragments), gray/black; very dense, moist -- temporary refusal at 5' BSG	
			0			
5	50	(5-7.5')	0			
			0			
10			0			
					11.0 Refusal at 11' BSG	

Bottom of borehole at 11.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB85

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and brick fragments), brown/black; very dense, moist	
	75	(0-3')	0			
			0			
5						
	50		0			
			0			
10						
	75	(10-12.5')	0			
					13.0 Refusal at 13' BSG	

Bottom of borehole at 13.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB86

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/10/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and brick fragments), very dense, moist	
	60	(0-3')	0			
			0			
5						
	50		0			
		(7.5-10')	0			
10				10.0	Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB87

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/12/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/blue; very dense, moist	
	50	(0-3')	0			
5		(3-5')	0			
	50		0			
10			0		10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB88

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/12/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	75	■	(0-3')	0		FILL (Slag and gravel, some sand and brick fragments), brown/gray; very dense, moist	
				0			
5							
	75			0			
		■	(7.5-10')	0			
10							
	50			0			
				0			
						13.0 Refusal at 13' BSG	

Bottom of borehole at 13.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB89

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/12/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	75		(0-3')	0		FILL (Slag and gravel, some sand), gray/black; very dense, moist	
5			(3-5')	0			
	50			0			
				0			
10						10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB90/MW-310

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/12/24 **DATE MW INSTALLED**

GROUND ELEVATION 20.8 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger on 12/4/24

AFTER DRILLING 17.90 ft / Elev 2.90 ft (20.80' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0			100 200 300 400		Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
	75	(0-3')	0		FILL (Slag and gravel, some sand), very dense, moist	Cement Seal
5			0			Medium Chip Bentonite Fill
	50		0			Riser: 15.25' of 2" I.D. Sch 40 PVC
10		(7.5-10')	0		10.0 10.8	Bentonite Seal
					No Recovery -- blind drill to 28 ft wth auger plug due to blowback	#5 Quartz Sand
15						
20						Screen: 15' of 0.01 Slot, 2" I.D. Sch 40 PVC
25					28.0 -7.2	

Bottom of borehole at 28.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB91

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/12/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/black; very dense, moist	
	60	(0-3')	0			
			0			
5						
	50		0			
			0		8.0 FILL (Sand, some slag and gravel), brown; very dense, moist	
10					10.0 ▽ FILL (Sand, some slag and gravel), black; dense, wet	
	50		0			
		(12.5-15')	0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB92

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/12/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), very dense, moist	
	75	(0-3')	0			
		(3-5')	0			
5				5.0	Refusal at 5' BSG	

Bottom of borehole at 5.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB93

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/16/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/black; very dense, moist	
	75	(0-3')	4			
			3			
5						
	75	(5-7.5')	4			
			2			
10						
	50		0			
					12.0 Refusal at 12' BSG	

Bottom of borehole at 12.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB94

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/16/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some slag and gravel), brown/gray; dense, moist	
	75	(0-3')	0			
			0			
5						
	75		0			
			0			
10						
			0			
	50					
		(12.5-15')	0			
15					13.0 FILL (Slag and gravel, some sand and cinders), very dense, moist 15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB95

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/16/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0	50	(0-3')	3		FILL (Slag and gravel, some sand and brick fragments), gray/black; very dense, mosit	
			5			
5	75	(5-7')	14			
				7.0	Refusal at 7.5' BSG	

Bottom of borehole at 7.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB96

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/16/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and brick fragments), gray/black; very dense, mosit	
	60	(0-3')	2			
			0			
5						
	60		0			
		(7.5-10')	0			
10					10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB97

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/16/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and brick fragments), gray/black; very dense, mosit	
	60	(0-3')	0			
			0			
5						
	50	(5-7')	0			
					Refusal at 7' BSG	
7.0						

Bottom of borehole at 7.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB98/MW-311

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/17/24 **DATE MW INSTALLED**

GROUND ELEVATION 16.6 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger on 12/2/24

AFTER DRILLING 13.65 ft / Elev 2.95 ft 15.85' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0			100 200 300 400		Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
	60	(0-3')	0		FILL (Slag and gravel, with sand), gray/brown; very dense, moist	Cement Seal
5			0			Medium Chip Bentonite Fill
	50		0			Riser: 15.2' of 2" I.D. Sch 40 PVC
10		(7.5-10')	0			Bentonite Seal
	50		0		13.0 / 3.6	#5 Quartz Sand
15					No Recovery -- blind drill to 38 ft wth auger plug due to blowback	
20						Screen: 15' of 0.01 Slot, 2" I.D. Sch 40 PVC
25					28.0 / -11.4	

Bottom of borehole at 28.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB99

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/17/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/black; very dense, mosit	
	75	(0-3')	0			
			0			
5						
			0			
	75					
			0			
10					10.0 ▽ FILL (Sand, some slag and gravel), brown/gray; dense, wet	
	60	(10-12.5')	0			
					12.5 Refusal at 12.5' BSG	

Bottom of borehole at 12.5 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:49 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB100

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/17/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with sand and brick fragments), gray/brown; very dense, moist	
	60	(0-3')	0			
		(3-5')	0			
5						
	75		0		Refusl at 6' BSG	
				6.0		

Bottom of borehole at 6.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB101

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/17/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						CONCRETE	
						1.0	
			(0-3')	0		FILL (Slag and gravel, some sand), gray/brown, very dense, moist	
	50						
				0		4.0	
5						FILL (Sand, some slag and gravel), brown/gray, medium dense, moist	
				0			
	60						
				0			
10							
				0			
	60						
			(12.5-15')	0			
15						15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB102

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/17/24 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					CONCRETE	
					1.0 FILL (Sand, with some slag and gravel), gray/brown; dense, moist	
	75	(0-3')	0			
			0			
5						
			0			
	50	(7.5-10')	0			
10						
	75		0			
					12.0 Refusal at 12' BSG	

Bottom of borehole at 12.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB103

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/18/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						
	75	(0-3')	0		FILL (Sand, some slag and gravel), brown; dense, moist	
			0			
5					5.0	
	50	(5-7.5')	0		FILL (Slag and gravel, some sand), very dense, moist -- temporary refusal at 7.5' BSG	
			0			
10					11.0 ▽	
	75		0		SAND, brown; medium dense, wet	
					13.0	
			0		SAND, gray; medium dense, wet	
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB104

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/18/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	50		(0-3')	0		FILL (Slag and gravel, some sand), black/gray; very dense, moist	
3.0						Refusal at 3' BSG	

Bottom of borehole at 3.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB105

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/18/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						FILL (Slag and gravel, some sand), brown/gray; dense, moist	
	60		(0-3')	0			
5				0			
	50			0			
10				0			
	50		(10-12.5')	0			
15				0		15.0	
						Bottom of borehole at 15.0 feet.	

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB106

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/18/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	50		(0-3')	7		FILL (Slag and gravel, some sand), gray/black; very dense, moist	
3.0						Refusal at 3' BSG	

Bottom of borehole at 3.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB107

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/18/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/black; very dense, moist	
	50	(0-3')	15			
			0			
5						
			0			
	50	(7.5-10')	0			
10						
	50		0		11.0 Refusal at 11' BSG	

Bottom of borehole at 11.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB108

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/19/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, some sand and gravel), black/gray; very dense, moist	
	50	(0-3')	0			
5			0	5.0	Refusal at 5' BSG	

Bottom of borehole at 5.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB109

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/19/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 4.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), black/brown; very dense, moist	
	60	(0-3')	⊙ 0			
			⊙ 0		4.0 ▽ FILL (Slag, some sand and gravel), black/brown; very dense, wet	
5						
	50	(5-7.5')	⊙ 2		7.5 Refusal at 7.5' BSG	

Bottom of borehole at 7.5 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB110/MW-308

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/19/24 **DATE MW INSTALLED**

GROUND ELEVATION 10.1 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger on 12/4/24

AFTER DRILLING 9.03 ft / Elev 1.07 ft (11.53' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
	50	(0-3')	0		FILL (Slag and gravel, some sand), black/brown; very dense, moist	Cement Seal
			0			Medium Chip Bentonite Fill
5	50	(5-7.5')	0			Riser: 10.25' of 2" I.D. Sch 40 PVC
			0			Bentonite Seal
10			0			#5 Quartz Sand
	70		0		12.0 -1.9 SAND, brown/gray; dense, wet	Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
15			0			
	80		0		18.0 -7.9	

Bottom of borehole at 18.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB111

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/19/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	50		(0-3')	0		FILL (Slag and gravel, some sand), black/brown; very dense, moist	
5			(3-5')	0			
	50			0			
10				0			
						10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB112

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/19/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Silty clay, some silt and sand); dense, moist	
	75	(0-3')	0			
			0			
					4.0 Refusal at 4' BSG	

Bottom of borehole at 4.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

BORING NUMBER SB113

PIONEER Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/20/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.5 ASPHALT	
					1.0 FILL (Slag and gravel), gray; very dense, moist	
	60	(0-3')	3		FILL (Slag and gravel, some sand), brown/gray; very dense, moist	
					3.0	
			0		FILL (Sand, some slag and gravel), brown; dense, moist	
5						
			0			
	60				7.0	
			0		FILL (Slag and gravel, some sand), gray/blue; very dense, moist	
10					10.0 ▽	
		(10-12.5')	0		SAND, black/brown; medium dense, wet -- petrolum odor, sheen	
					12.0	
	75				SAND, brown/gray; medium dense, wet	
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB114

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/20/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 9.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.7 ASPHALT	
	60	(0-3')	0		FILL (Slag and gravel, some sand), gray/brown; very dense, moist	
5			0			
	75	(7.5-10')	0		9.0 ▽ SAND, brown/gray; medium dense, wet	
10			0			
	30		0			
15					15.0 Bottom of borehole at 15.0 feet.	

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB115/MW-315

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/20/24 **DATE MW INSTALLED**

GROUND ELEVATION 9.6 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger 2/7/25

AFTER DRILLING 8.69 ft / Elev 0.91 ft (8.49' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.7 ASPHALT 8.9	Flush Mount Cover Cement Seal
	75	(0-3')	0		FILL (Slag and gravel, some sand), gray/brown; very dense, moist	Medium Chip Bentonite Fill Riser: 4.8' of 2" I.D. Sch 40 PVC
5			0			Bentonite Seal
	50	(5-7.5')	0			#5 Quartz Sand
			0		9.0 ▼ 0.6	
10					SAND, brown/gray; medium dense, wet	Screen: 10' of 0.01" Slot, 2" I.D. Sch 40 PVC
	50		0			
			0			
15					15.0 -5.4	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

BORING NUMBER SB116

PIONEER Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/20/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						0.7 ASPHALT	
			(0-3')	0		FILL (Slag and gravel, some sand), gray/brown; very dense, moist	
	75			0			
5							
				0			
	25			0			
10						10.0 ▽	
				0		FILL (Slag and gravel, some sand), gray/brown; very dense, wet 11.0	
	60					WOOD	
			(12.5-15')	0		14.0	
15						FILL (Slag and gravel, some sand), gray/black; very dense, moist 15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB117

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 9/20/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.5 ASPHALT	
		(0-3')	0		FILL (Slag and gravel, some sand), gray/brown, very dense, moist	
	75		0			
5						
		(5-7.5')	0			
	50		0			
10					10.0 ▽	
			0		FILL (Sand, gravel, slag), gray/brown; dense, wet	
	25		0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

BORING NUMBER SB118

PIONEER Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/10/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 12.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and wood), brown/gray; very dense, moist	
	50		0			
5			0			
	75		0			
10			0		10.0	
	90	(10-12.5)	0		FILL (Slag and gravel), black; dense, wet -- black staining, petroleum odor	
					12.0 ▽	
		(12.5-15)	0		SAND, gray/brown; dense, wet	
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB118a

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/11/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/black; very dense, moist	
	60		0			
5			0			
	75		0			
10			0			
	50	(10-15)	0		11.0 ▽ FILL (Sand, some slag and gravel), brown;gray; dense, wet	
15			0		15.0 SAND, gray/black; medium dense, wet	
	50	(15-17.5)	0			
20			0		20.0	

Bottom of borehole at 20.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB118b

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/11/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray/black; very dense, moist	
			0			
5	75		0			
			0			
10	75		0			
			2		11.0 ▽ FILL (Sand, some slag and gravel), brown;gray; dense, wet	
	50	(10-15)	2			
15					15.0 SAND, gray/black; medium dense, wet	
		(15-17.5)	0			
	50					
20			0		20.0	

Bottom of borehole at 20.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB118c

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/12/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 11.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), brown/black; very dense, moist	
			0			
	60		0			
5						
			2			
	50		2			
10						
			23		11.0 ▽ FILL (Slag and gravel, some sand), black/brwn; dense, wet -- petroleum odor, black staining	
	75	(10-15)			13.0	
			20		SAND, black/gray; medium dense, wet -- petroleum odor, black staining	
15					15.0	
					SAND, black; medium dense, wet	
		(15-17.5)	0			
	90					
			0			
20					20.0	

Bottom of borehole at 20.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB118d

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/12/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 7.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), black/brown; very dense, moist	
			3			
	90					
			2			
5						
			7			
					7.0 ▽	
	60				FILL (Slag and gravel, some sand), black/brwn; dense, wet -- petroleum odor, black staining	
		(7.5-10)	16			
10						
			15		11.0	
	75	(10-15)			SAND, black/brown; medium dense, wet -- petroleum odor, black staining	
			14			
15					15.0	
					SAND, black; medium dense, wet	
		(15-17.5)	0			
	75					
			5			
20					20.0	

Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB118e

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/25/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
				0		FILL (Slag and gravel, some sand), black/brown; very dense, moist	
5	50			0		4.0 FILL (Slag and gravel), gray; very dense, moist	
				0			
10	50			0		10.0 ▽ FILL (Sand, trace slag and gravel), brown/black; dense, wet -- petroleum and hydrogen sulfide odors, black staining	
			(10-12.5)	8			
15	75		(12.5-15)	1		13.0 FILL (Sand, trace slag and gravel), black; dense, wet 15.0	
	0					No Recovery	
20						20.0	

Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB118f

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/25/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with sand), black/gray; very dense, moist	
			0			
	75		0			
5					5.0	
					FILL (Slag and gravel, some sand), gray/black; very dense, moist	
			0			
	75		0			
10					10.0 ▽	
					SAND, black/gray; medium dense, wet -- petroleum odor, black staining	
		(10-12.5)	14			
	90				13.0	
			8		SAND, gray/black; medium dense, wet	
15						
		(15-17.5)	0			
	50					
			0			
20					20.0	

Bottom of borehole at 20.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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TEST PIT NUMBER SB118g

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/21/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand, gravel, with some concrete and bricks), black/brown; very dense; moist	
			0			
5						
			0			
					8.0 FILL (Sand, some slag), brown; medium dense, moist	
10						
		(10-15)	0		13.0 ▽ FILL (Slag and gravel, some sand), gray/brown; very dense, wet	
15					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
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TEST PIT NUMBER SB118h

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/21/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket ▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag with sand, gravel, concrete fragments), brown/black; very dense, moist	
			0			
5						
			0			
					8.0 SAND, brown/black; medium dense, wet at 13' BSG	
10						
		(10-15)	0		▽	
15					15.0	

Bottom of borehole at 15.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB119

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 12/13/24 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand), dense, moist	
			0			
	50		0			
5						
			0			
	50					
			0			
10					10.0 ▽	
			0		FILL (Slag and gravel, some sand), dense, wet	
	50					
			2		13.0	
15					FILL (Slag and gravel, some sand), black; dense, wet -- black staining, petroleum odor	
		(15-17.5)	10			
	75					
			8			
20						
			5		21.0	
	75				SAND, black; medium dense, wet -- black staining, petroleum odor	
		(22.5-25)	4			
25					25.0	

Bottom of borehole at 25.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB120

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/3/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	75	■	(0-3)	0		FILL (Silty clay, some sand and gravel), black/gray; dense, moist	
3.0							
	0					CONCRETE	
4.5						Refusal at 4.5' BSG	

Bottom of borehole at 4.5 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB121

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/3/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	50		(0-3)	0		FILL (Sand, some gravel), black/gray; dense, moist	
						Refusal at 3' BSG	
					3.0	Bottom of borehole at 3.0 feet.	

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB122

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/3/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 15.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some slag and gravel), black/gray; dense, moist	
	75	(0-3)	0			
			0			
5					5.0	
	30		0		FILL (Slag and gravel, some sand), brown/gray; very dense, moist	
			0			
10						
	25		0			
			0			
15					15.0 ▽	
	75	(15-17.5)	0		SAND, gray/brown; medium dense, wet	
			0			
20					20.0	

Bottom of borehole at 20.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB123

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/3/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 14.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), brown/gray; very dense, moist	
	75	(0-3)	0			
			0			
5						
	75	(5-7.5)	0		6.0 FILL (Sand, some crushed bricks), brown/black; very dense, moist	
			0			
10						
	75		0		11.0 FILL (Sand, some slag and gravel), black/brown; medium dense, moist	
			0		14.0 ▽	
15					SAND, gray/brown; medium dense, wet 15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB124

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/3/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
	75		(0-3)	0		FILL (Slag and gravel, some sand), brown/gray; very dense, moist	
3.0						Refusal at 3' BSG	

Bottom of borehole at 3.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB125

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/4/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 13.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 ASPHALT FILL (Sand and gravel, some slag), brown/gray; dense, moist	
	75	(0-3)	3			
			2		4.0 FILL (Slag and gravel, some sand), black; dense, moist	
5			0			
	25	(7.5-10)	0			
10			0			
	50		0		13.0 ▽ FILL (Slag and gravel, some sand), brown/gray; very dense, wet	
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB126

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/4/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					0.3 ASPHALT	
	50	(0-3)	0		FILL (Sand, some slag and gravel), black/brown; very dense, moist 3.0	
			0		FILL (Sand, trace gravel), brown; very dense, moist 5.0	
5	25	(5-7.5)	0		FILL (Gravel and slag, some sand), brown/black; very dense, moist 8.0 Refusal at 8' BSG	

Bottom of borehole at 8.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB127/MW-316

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/4/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** 14.5 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES Well installed via 4.25" hollow-stem auger on 2/5/25 **AFTER DRILLING** 11.96 ft / Elev 2.54 ft (13.66' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				100 200 300 400		Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
						FILL (Gravel and slag, some sand), black/brown; very dense, moist	Cement Seal
						1.0 / 13.5	
						CONCRETE	
			(0-3)	14		2.0 / 12.5	Medium Chip Bentonite Fill
	50					FILL (Gravel and sand), black/brown; dense, moist	
				10			Riser: 10.35' of 2" I.D. Sch 40 PVC
5							
			(5-7.5)	0			Bentonite Seal
	75						#5 Quartz Sand
				0			
10						10.0 / 4.5	
				0		FILL (Slag and gravel, some sand), black; very dense, moist	
	75						
				0			Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
15						15.0 / -0.5	
				0		SAND, some silt, black; medium dense, wet	
	50					17.0 / -2.5	
				0		SAND, gray; medium dense, wet	
						19.0 / -4.5	

Bottom of borehole at 19.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB128

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/10/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and crushed bricks), black/gray; very dense, moist	
	75	(0-3)	0			
			0			
5						
	60		0			
		(7.5-10)	0			
10					10.0 Refusal at 10' BSG	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB129

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/10/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand and crushed bricks), black; very dense, moist	
	75	(0-3)	0			
5			0			
	50	(5-7.5)	5			
10			2			
	25		0			
15			0		15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB130

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/10/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some slag and gravel), black/brown; dense, moist	
	75		0			
			0			
5						
	75	(7-9)	0			
			0		9.0	

Bottom of borehole at 9.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB131

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/10/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						
	60		0 0		FILL (Sand, some gravel, slag and crushed bricks), black/brown; dense, moist	
5					5.0 Bottom of borehole at 5.0 feet.	

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB132

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/10/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						
	50		⊙ 0		FILL (Sand, some gravel and slag), black/brown; dense, moist	
			⊙ 0			
5					5.0	

Bottom of borehole at 5.0 feet.

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BORING NUMBER SB133

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/10/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						
	50		0 0		FILL (Sand and gravel, some slag), black/brown; dense, moist	
5					5.0	

Bottom of borehole at 5.0 feet.

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Engineering & Environmental Services, LLC

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BORING NUMBER SB134

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/13/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), black/gray; dense, moist	
	50		0			
5			0			
	75		0			
10		(7.5-10)	0		10.0	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB135

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/13/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
			(0-3)	0		FILL (Sand and gravel, some slag), black; dense, moist	
						3.0	

Bottom of borehole at 3.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB136

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/13/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 7.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some gravel and slag), black/brown; medium dense, moist	
			0			
	50		0			
5						
		(5-7.5)	0		7.0 ▽	
	60				FILL (Sand, some gravel and slag), black/brown; medium dense, wet	
					8.0	
			0		SAND, brown; medium dense, wet -- blowback at 10 ft	
10						
					11.0	
			0		SAND, gray; medium dense, wet	
	90					
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB137

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/13/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 6.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some gravel and slag), black; dense, moist	
	50		⊙ 0			
5			⊙ 0		4.0 SAND, brown/black; medium dense, moist	
		(5-7.5)	⊙ 0		6.0 ▽ SAND, brown; medium dense, wet	
	75		⊙ 0			
10					10.0	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB138

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/14/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 6.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Gravel, some sand), black/gray; dense, moist	
			0			
	60					
			0		3.0	
5					SAND, brown; medium dense, moist	
		(5-7.5)	0		6.0 ▽	
	75				SAND, brown; medium dense, wet	
			0			
10					10.0	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB139

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/14/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

▽ **AT TIME OF DRILLING** 7.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Gravel, some sand and slag), black/gray; dense, moist	
			0			
	50		0			
5					5.0	
					SAND, brown; medium dense, moist -- petroleum odor	
		(5-7.5)	4			
					7.0 ▽	
	50				SAND, brown/gray; medium dense, wet	
		(7.5-10)	1			
10					10.0	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB140

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/14/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 8.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						
	60		0		FILL (Gravel, some sand, slag and brick fragments), black/brown; very dense, moist	
5			0			
	60	(5-7.5)	0			
					8.0 ▽	
			0		SAND, brown/gray; medium dense, wet	
10					10.0	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

BORING NUMBER SB141

PIONEER Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/14/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 7.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Gravel, some sand and slag), black/brown; very dense, moist	
			3			
	60		3			
5						
		(5-7.5)	3		7.0 ▽	
	75				SAND, black/brown; medium dense, wet -- petroleum odor, black staining	
		(7.5-10)	0		8.0 SAND, gray/brown; medium dense, wet -- petroleum odor	
10					10.0	
			0		SAND, gray/brown; medium dense, wet	
	75		0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB141a

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/20/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 7.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand, some gravel), black/brown; dense, moist	
	25		0			
			0			
5						
	50		3			
		(7.5-10)	100		7.0 ▽ SAND, gray/brown; dense, wet -- petroleum odor	
10					10.0 SAND, gray; medium dense, wet	
	75	(10-12.5)	0			
			0			
15					15.0	

Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB141b

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/20/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

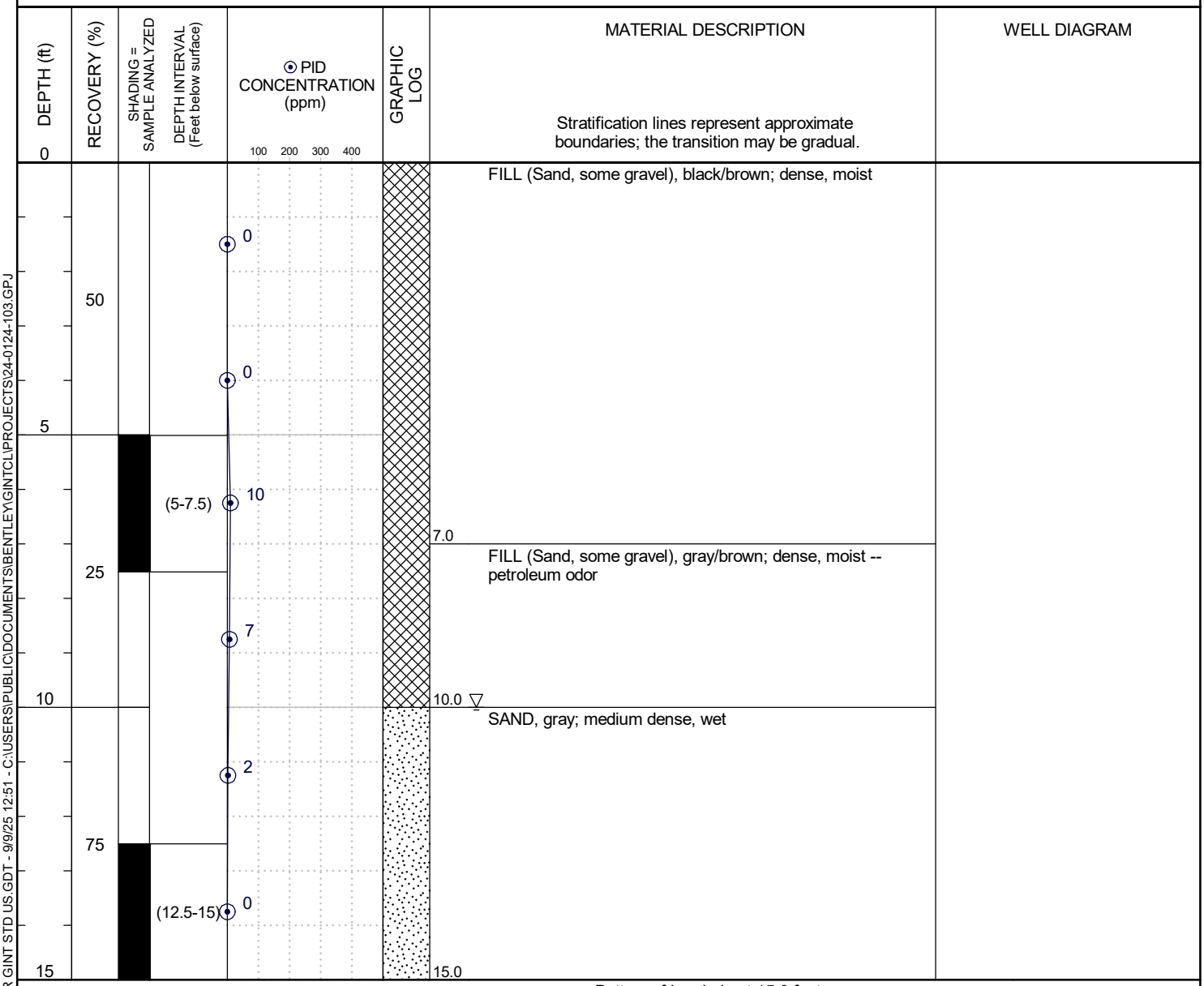
▽ **AT TIME OF DRILLING** 10.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING



Bottom of borehole at 15.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:51 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB141c

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/20/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe 3126 **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 7.00 ft

LOGGED BY J. David **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				100 200 300 400		Stratification lines represent approximate boundaries; the transition may be gradual.	
				0		FILL (Sand, some gravel), black/brown; dense, moist	
	50			0			
5							
			(5-7.5)	34			
	50					7.0 ▽ SAND, gray/brown; dense, wet	
			(7.5-10)	0			
10						10.0	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

BORING NUMBER SB142

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/14/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 7.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Gravel, some sand, slag, brick fragments), black/brown; very dense, moist	
			0			
	60		0			
5						
		(5-7.5)	14			
	75				7.0 ▽ SAND, brown/gray; medium dense, wet -- petroleum odor	
		(7.5-10)	0			
10					10.0	

Bottom of borehole at 10.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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BORING NUMBER SB143/MW-317

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/19/25 **DATE MW INSTALLED**

GROUND ELEVATION 14.7 ft CCD **BOREHOLE DIAM.** 2.25" / 4.25" Dia

DRILLING RIG GeoProbe7822 DT

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Dual Tube

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES Well installed via 4.25" hollow-stem auger on 2/5/25

AFTER DRILLING 12.94 ft / Elev 1.76 ft 13.94' below TOC on 5/21/25)

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Stratification lines represent approximate boundaries; the transition may be gradual.	Stick-up cover
	75		(0-3)	0		FILL (Silty clay, with gravel, sand, slag), black/brown; stiff, moist	Cement Seal
				0		3.0 / 11.7 FILL (Sand, some slag and gravel), brown/gray; dense, moist	Medium Chip Bentonite Fill; Riser: 10' of 2" I.D. Sch 40 PVC
5				0			
	50			0			Bentonite Seal
				0			#5 Quartz Sand
10						11.0 / 3.7	
	50			0		FILL (Gravel and slag, some sand), black/brown; medium dense, wet	
15				0		15.0 / -0.3	Screen: 10' of 0.01 Slot, 2" I.D. Sch 40 PVC
	100		(15-17.5)	0		SAND, black/gray; medium dense, wet	
20				0		20.0 / -5.3	

Bottom of borehole at 20.0 feet.

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Engineering & Environmental Services, LLC

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BORING NUMBER SB144

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 2/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** 2.25" Diameter

DRILLING RIG GeoProbe7822 DT **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Dual Tube ▽ **AT TIME OF DRILLING** 12.00 ft

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Gravel, slag, sand, some crushed brick), brown/gray; very dense, moist	
	25	(0-3)	0			
			0			
5					5.0	
					FILL (Gravel and slag, some sand), black/gray; very dense, moist	
	50		0			
			0			
10						
			0			
	50				12.0 ▽	
		(12.5-15)	0		FILL (Sand, some gravel, slag, crushed brick), brown; dense, wet	
15						
			0			
	25					
			0		19.0	
20					SAND, brown; medium dense, wet	
			0			
	75					
			0			
25					25.0	

Bottom of borehole at 25.0 feet.

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TEST PIT NUMBER SB145

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/8/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED	DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0							
			(0-3)	0		FILL (Gravel, slag, sand, crushed brick and concrete), brown/gray; very dense, moist	
						3.0	

Bottom of borehole at 3.0 feet.

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TEST PIT REFUSAL 1

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/19/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.**

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand and gravel), black/gray; dense, moist	
5						
6.0					Refusal at 6' BSG due to massive concrete footings	

Bottom of borehole at 6.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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TEST PIT REFUSAL 2

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						
					FILL (Slag, sand and gravel), black/gray; very dense, moist	
2.0					Refusal at 2' BSG due to massive concrete blocks	

Bottom of borehole at 2.0 feet.

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PIONEER
Engineering & Environmental Services, LLC

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TEST PIT REFUSAL 3

CLIENT _____

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/19/25 **DATE MW INSTALLED** _____

GROUND ELEVATION _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

AT TIME OF DRILLING _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING _____

NOTES _____

AFTER DRILLING _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), black; dense, moist	
2.0					FILL (Slag, bricks, concrete; very dense, moist	
4.0					Refusal at 4' BSG due to concrete footings	

Bottom of borehole at 4.0 feet.

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TEST PIT REFUSAL 4

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0						
					FILL (Slag, silt, sand, gravel), black; very dense, moist	
					Refusal at 1' BSG due to buried railroad tracks	
				1.0		

Bottom of borehole at 1.0 feet.

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TEST PIT REFUSAL 5

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/20/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand and gravel with concrete and wood), brown/gray; very dense, moist	
5						
10					10.0 Refusal at 10' BSG due to concrete on hot poured slag	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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Engineering & Environmental Services, LLC

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TEST PIT REFUSAL 6

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/20/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand and gravel with concrete and wood), brown/gray; very dense, moist	
5						
10					10.0 Refusal at 10' BSG due to concrete on hot poured slag	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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TEST PIT REFUSAL 7

CLIENT _____

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/20/25 **DATE MW INSTALLED** _____

GROUND ELEVATION _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

AT TIME OF DRILLING _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING _____

NOTES _____

AFTER DRILLING _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand and gravel with concrete and wood), brown/gray; very dense, moist	
5						
10					10.0 Refusal at 10' BSG due to concrete on hot poured slag	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

TEST PIT REFUSAL 8

PIONEER Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/26/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand with concrete and bricks), brown/gray; dense, moist	
5						
10					10.0 Refusal at 10' BSG due to very dense slag	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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Engineering & Environmental Services, LLC

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TEST PIT REFUSAL 9

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/19/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand with concrete and bricks), brown/gray; dense, moist	
5						
10					10.0 Refusal at 10' BSG due to very dense slag	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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Engineering & Environmental Services, LLC

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TEST PIT REFUSAL 10

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/21/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand with slag, gravel, bricks and metal); dense, moist	
5						
8.0					Refusal at 8' BSG due to concrete foundation	

Bottom of borehole at 8.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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TEST PIT REFUSAL 11

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/21/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.**

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand with slag, gravel, bricks and metal); dense, moist	
5						
8.0					Refusal at 8' BSG due to concrete foundation Bottom of borehole at 7.0 feet.	

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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TEST PIT REFUSAL 12

CLIENT _____

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/21/25 **DATE MW INSTALLED** _____

GROUND ELEVATION _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

AT TIME OF DRILLING _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING _____

NOTES _____

AFTER DRILLING _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand and gravel, with bricks and concrete); very dense, moist	
5						
7.0					Refusal at 7' BSG due to concrete foundation	

Bottom of borehole at 7.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

TEST PIT REFUSAL 13

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/21/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand and gravel, with bricks and concrete); very dense, moist	
5						
7.0					Refusal at 7' BSG due to concrete foundation	

Bottom of borehole at 7.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

TEST PIT REFUSAL 14

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/21/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand and gravel, with bricks and concrete); very dense, moist	
5						
7.0					Refusal at 7' BSG due to concrete foundation	

Bottom of borehole at 7.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

TEST PIT REFUSAL 15

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/21/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Sand and gravel, with bricks and concrete); very dense, moist	
5						
7.0					Refusal at 7' BSG due to concrete foundation Bottom of borehole at 6.0 feet.	

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

TEST PIT REFUSAL 16

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/21/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with sand and concrete cobbles), brown/gray; very dense, moist	
5						
10					10.0 Refusal at 10' BSG due to very dense slag	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

TEST PIT REFUSAL 17

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/27/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.**

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with sand), gray/brown; very dense, moist	
5						
7.0					Refusal at 7' BSG due to very dense slag	

Bottom of borehole at 7.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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Engineering & Environmental Services, LLC

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TEST PIT REFUSAL 18

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/27/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, gravel, sand with bricks and concrete cobbles); very dense, moist	
5					5.0 FILL (Bricks)	
					9.0 Refusal at 9' BSG due to railroad tracks	

Bottom of borehole at 9.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

TEST PIT REFUSAL 19

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/21/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.**

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand, gravel), brown; very dense, moist	
					3.0 FILL (Slag, sand and gravel, with concrete cobbles and boulders), brown; very dense, moist	
5						
10					10.0 FILL (Sand and gravel), brown; very dense, moist	
					13.0 Refusal at 13' BSG due to concrete footings and very dense slag	

Bottom of borehole at 13.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

TEST PIT REFUSAL 20

CLIENT _____

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/2/25 **DATE MW INSTALLED** _____

GROUND ELEVATION _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

AT TIME OF DRILLING _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING _____

NOTES _____

AFTER DRILLING _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with sand, bricks, concrete cobbles and boulders), gray/brown; very dense, moist	
5					5.0 FILL (Limestone blocks - cobbles and boulders)	
					8.0 Refusal at 8' BSG due to concrete foundation	

Bottom of borehole at 8.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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TEST PIT REFUSAL 21

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 3/21/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.**

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, with sand, bricks, metal, concrete boulders, steel beams), black/gray; very dense, moist	
5						
8.0					Refusal at 8' BSg due to very dense slag	

Bottom of borehole at 8.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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TEST PIT REFUSAL 22

CLIENT _____

PIONEER PROJECT NUMBER 24-0124-103

DATE DRILLED 3/21/25 **DATE MW INSTALLED** _____

DRILLING RIG Backhoe

SAMPLING METHOD Backhoe Bucket

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

NOTES _____

PROJECT NAME Quantum Shores Chicago

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

GROUND ELEVATION _____ **BOREHOLE DIAM.** _____

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

AT TIME OF DRILLING _____

AT END OF DRILLING _____

AFTER DRILLING _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED / DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag and gravel, some sand), gray; very dense, moist	
5				5.0	Refusal at 5' BSg due to very dense slag	

Bottom of borehole at 5.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

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TEST PIT REFUSAL 23

CLIENT

PROJECT NAME Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103

PROJECT LOCATION 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED**

GROUND ELEVATION **BOREHOLE DIAM.**

DRILLING RIG Backhoe

GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):

SAMPLING METHOD Backhoe Bucket

AT TIME OF DRILLING

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock

AT END OF DRILLING

NOTES

AFTER DRILLING

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand and gravel), brown; very dense, moist	
					3.0 FILL (Slag, sand and gravel, with concrete cobbles), brown; very dense, moist	
5						
10					10.0 Refusal at 10' BSg due to very dense slag	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

Pioneer Engineering & Environmental Svcs

TEST PIT REFUSAL 24

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Slag, sand and gravel), brown; very dense, moist	
					4.0 FILL (Slag, sand and gravel, with concrete cobbles and boulders), brown/gray; very dense, moist	
5						
10					10.0 Refusal at 10' BSG due to very dense slag	

Bottom of borehole at 10.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

PIONEER
Engineering & Environmental Services, LLC

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TEST PIT REFUSAL 25

CLIENT _____ **PROJECT NAME** Quantum Shores Chicago

PIONEER PROJECT NUMBER 24-0124-103 **PROJECT LOCATION** 8080 South Lake Shore Drive, Chicago, IL

DATE DRILLED 4/1/25 **DATE MW INSTALLED** _____ **GROUND ELEVATION** _____ **BOREHOLE DIAM.** _____

DRILLING RIG Backhoe **GROUND WATER DEPTH (BELOW GROUND SURFACE ELEVATION):**

SAMPLING METHOD Backhoe Bucket **AT TIME OF DRILLING** _____

LOGGED BY J. Mizwicki **CHECKED BY** J. Hartsock **AT END OF DRILLING** _____

NOTES _____ **AFTER DRILLING** _____

DEPTH (ft)	RECOVERY (%)	SHADING = SAMPLE ANALYZED; DEPTH INTERVAL (Feet below surface)	⊙ PID CONCENTRATION (ppm) 100 200 300 400	GRAPHIC LOG	MATERIAL DESCRIPTION Stratification lines represent approximate boundaries; the transition may be gradual.	WELL DIAGRAM
0					FILL (Gravel, with silt and sand), brown; dense, moist	
4.0					Refusal at 4' BSG due to very dense slag	

Bottom of borehole at 4.0 feet.

PIONEER SB/MW/TP TEMPLATE - PIONEER GINT STD US.GDT - 9/9/25 12:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\24-0124-103.GPJ

Soil boring SB6 facing north

Soil boring SB5 facing south

Soil boring SB1 facing northwest

Soil boring SB10 facing northwest

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**PHOTOGRAPHIC LOG**
	24-0124-103	August 2024

MW-102 & MW-102D facing northeast

Soil boring SB44 facing southwest

Soil boring SB73 facing north

Soil boring SB72 facing south

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**PHOTOGRAPHIC LOG**
	24-0124-103	September 2024

Installed monitoring well MW-315 facing northwest

Soil boring SB21f facing southwest

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**PHOTOGRAPHIC LOG**
	24-0124-103	February 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**TEST PIT 21h**
	24-0124-103	March 19, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**TEST PIT 21k**
	24-0124-103	March 26, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**TEST PIT 21m**
	24-0124-103	March 19, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 21n**
	24-0124-103	March 19, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**TEST PIT 21o**
	24-0124-103	March 20, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 21p**
	24-0124-103	March 26, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 21q**
	24-0124-103	March 26, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 61r**
	24-0124-103	March 24, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 61s**
	24-0124-103	March 24, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 61t**
	24-0124-103	March 24, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 61x**
	24-0124-103	April 3, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**TEST PIT 61y**
	24-0124-103	April 3, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 70i**
	24-0124-103	March 25, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 70j**
	24-0124-103	March 26, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 70l**
	24-0124-103	March 27, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 70m**
	24-0124-103	March 27, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 70n**
	24-0124-103	March 27, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**TEST PIT 70o**
	24-0124-103	March 27, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**TEST PIT 70p**
	24-0124-103	March 28, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**TEST PIT 70q**
	24-0124-103	March 28, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**TEST PIT 70y**
	24-0124-103	April 3, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**TEST PIT 70z**
	24-0124-103	March 27, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**TEST PIT 118g**
	24-0124-103	March 21, 2025

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr. Chicago, Illinois**	**TEST PIT 118h**
	24-0124-103	March 21, 2025

SUBSURFACE SOIL SAMPLING PROTOCOL

Subsurface samples are collected by employing various soil boring techniques based on site-specific conditions. Soil borings may be advanced using any of the following methodologies: 1) a Bosch™ manual hydraulic/ percussive Macro-Core® barrel sampler; 2) a truck-mounted GeoProbe 5410 hydraulic/percussive direct push sampling unit utilizing dual-tube sampling techniques; 3) a track-mounted GeoProbe 7822DT hydraulic/percussive direct push sampling unit utilizing dual-tube sampling techniques; 4) a track-mounted GeoProbe 6620DT hydraulic/percussive direct push sampling unit utilizing dual-tube sampling techniques; 5) a limited access GeoProbe hand-cart with a Macro-Core® barrel sampler or dual-tube sampler; and/or 6) stainless steel hand augers. The specific methodologies employed are described in the report and listed on the soil boring log for each soil boring location (i.e., Bosch, GeoProbe 5410, GeoProbe 7822DT, GeoProbe 6620DT, GeoProbe Hand-Cart, or HA, respectively).

The soil sampling activities are conducted in accordance with American Society of Testing and Materials (ASTM) standards (ASTM:D 1586 or 6282). Soil samples are collected with a stainless steel hand auger, a dual-tube sampler, and/or a Macro-Core® sampler at 2, 3, 4 or 5-foot intervals depending on the specific method used. In the dual-tube barrel sampling technique, a stainless steel barrel having a length of 3, 4 or 5 feet is used as an outer casing, and a the inner string consists of a center rod fitted with a dedicated disposable DT22 liner. In the Macro-Core® barrel sampling technique, a stainless steel barrel with a length of 2 or 3 feet is fitted with a dedicated disposable PVC liner and is driven into the soil to collect a representative and undisturbed sample.

The soil borings are sampled across continuous intervals from ground surface to the desired sampling depth, unless otherwise noted. The desired sampling depth is predicated on the specific conditions to be assessed, but may be restricted due to site-specific conditions. The drilling is directed by a Pioneer Engineering & Environmental Services, LLC (Pioneer) Field Project Geologist/Engineer, who field screens auger cuttings and soil samples, prepares samples for laboratory analysis, logs geologic materials encountered during drilling, observes the drilling activities, and supervises sample collection.

After retrieval, soil samples obtained from each interval are immediately field screened for the presence of organic vapors along the exposed surface of the soil sample under ambient conditions. The samples are screened for volatile organic compounds (VOCs) and/or semivolatile organic compounds (SVOCs) using a MiniRAE™ 2000 handheld air monitor / photoionization detector (PID). This device is sensitive to a variety of petroleum/hazardous substances, including those typically targeted in subsurface investigations, and provide qualitative indications of the relative concentrations of organic contaminants trapped in the sample matrix.

After the sampling sleeve is opened and screened, and where elevated ambient screening results or other field indications of contamination are observed, an undisturbed portion of the sample from the portion of the interval displaying the highest indications of contamination is immediately selected for possible analysis. Where no elevated screening results are registered, the sample selected for analysis is chosen based on the nature of the REC being assessed, and the judgment of the Field Project Manager. The sample is immediately packed into laboratory provided glassware, or preserved in accordance with US EPA's SW-846 Method 5035, if submitted for VOC analysis. In accordance with Method 5035, a measured portion of the sample collected in the field (subsample - small diameter core) is transferred directly from the sampling device(s) to pre-labeled, pre-weighed, air-tight, laboratory-provided glassware with appropriate preservative (either empty vials with stir bars or deionized water-for samples with estimated VOC concentrations less than 0.200 ppm; or methanol-for samples with estimated VOC concentrations greater than 0.200 ppm) immediately after sample collection.

After initial screening and sample preparation, the remaining soil from the sample interval is logged according to its predominant geological characteristics, in accordance with the Unified Soil Classification System (USCS). The sample is further examined for the presence of odors and/or visual evidence of contamination (hydrocarbon or other), and a headspace reading is obtained from a portion of the sample that is allowed to equilibrate to the ambient atmospheric temperature in a dedicated Zip-lock™ bag for approximately 15 minutes, depending upon various factors, using a PID to obtain a maximum field reading. The soil classifications and the results of the headspace screening are described in the report and listed on the soil boring logs.

SUBSURFACE SOIL SAMPLING PROTOCOL (cont.)

Any soil samples chosen for possible analysis are packed in appropriate containers, properly labeled, designated for possible analysis, and placed in a cooler on ice for storage immediately after sample packing/preservation has been completed to preserve the integrity of the sample during field activities. Sample coolers are retained in the possession of Pioneer personnel at all times, and upon completion of the field activities, samples are delivered to the laboratory on the same day as sample collection, or delivered to Pioneer's office. Samples delivered to Pioneer's office are transferred directly from the coolers into a refrigerator dedicated to storing soil and groundwater samples. The samples are then contained within the refrigerator until they are relinquished to a NELAC-certified, independent laboratory under standard chain-of-custody procedures. Note that empty, stir bar vials or vials with deionized water are placed in the freezer section of the refrigerator if they will not be picked up by the laboratory within 48 hours of sample collection.

Samples are selected based on the scope of work, field observations (i.e. visual/odor observations, elevated PID readings, etc.), other site-specific conditions, and the judgment of the Pioneer Field Project Geologist/Engineer, and are submitted for possible analysis of the appropriate compounds targeted in the investigation.

Drill cuttings and liquids generated are left at the borehole. All boreholes are decommissioned in accordance with applicable Illinois Department of Public Health guidelines. When required, these spoils are contained in 55-gallon Type 17H drums.

Any deviations to or modifications of this standard protocol will be described on a site by site basis.

For a list of acronyms used on Pioneer's boring logs, please refer to the information on the following page.

SUBSURFACE SOIL SAMPLING PROTOCOL (cont.)

List of Acronyms
BSG = below surface grade
BTEX = benzene, toluene, ethylbenzene and total xylenes
HA = hand augers
MTBE = methyl tertiary-butyl ether
PCBs = polychlorinated biphenyls
Pest = pesticides
PID = photoionization detector
PNAs = polynuclear aromatic hydrocarbons
PP = priority pollutants
PPM = parts per million
RCRA = Resource Conservation and Recovery Act
SG = soil gas
SPLP = Synthetic Precipitation Leaching Procedure
SVOCs = semi-volatile organic compounds
TAL = target analyte list
TCL = target compound list
TCLP = toxicity characteristic leaching procedure
TOC = total organic carbon (usage related to soil tests)
TOC = top of casing (usage related to well construction and/or groundwater levels)
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
VOCs = volatile organic compounds
USCS = Unified Soil Classification System

GROUNDWATER MONITORING WELL INSTALLATION & SAMPLING PROTOCOL

Groundwater monitoring wells are typically installed using hollow stem auger borings. When spatial constraints dictate, wells may be installed using manual hand-augering techniques, or other acceptable practices. Soil sampling conducted during well installation is performed according to Pioneer Engineering & Environmental Services, LLC (Pioneer's) Subsurface Soil Sampling Protocol. The activities are directed by a Pioneer Field Project Geologist/Engineer, who logs geologic materials encountered, field screens auger cuttings and soil samples, and supervises the drilling activities and well installations. All drilling equipment and tools are steam-cleaned prior to mobilization onto the site, between boreholes, and upon completion of the drilling program. In accordance with Pioneer's Site Safety Plan, a PID or FID is used to monitor ambient air concentrations during sampling activities, and personal protective equipment is utilized by site personnel as necessary.

Wells are constructed of 2-inch or 1-inch I.D. schedule 40 flush-joint PVC riser and screen. The well materials are steam-cleaned prior to installation. When the depth of the well allows, the annular space surrounding the screen is backfilled with silica sand filter pack to a height not less than 1 foot above the top of the well screen, and a minimum of 1 foot of bentonite is placed above the filter pack to provide a low permeability seal. The remaining annulus is sealed with a cement/bentonite grout to the ground surface. Well screens are positioned to monitor selected areas of the water column based on site specific contaminant conditions. The position of the screened interval relative to the water table is determined based on the presence of water/moisture in the soil samples retrieved during sampling, and the water levels observed during/after the drilling activities. When possible, the top of the screen is positioned at least 1 foot above the estimated water level to account for fluctuations in the water table. All wells are completed with flush-mounted protective casings and locking well caps or "stickup" locking protective casings (depending upon site traffic) and secured with concrete at the surface. The majority of the wells are installed near suspected source areas to evaluate contaminant conditions and determine the direction of groundwater flow.

After installation, each well is developed using a new disposable Teflon© or high-density polyethylene (HDPE) bailer, or a stainless steel submersible pump. Approximately 5 to 10 well volumes of water are purged from each well, until the well water is visually clear of suspended sediments or until further yield cannot be achieved. If a stainless steel pump is used during well development, it is decontaminated between wells using a tri-sodium phosphate (TSP) wash and triple water rinse. An elevation survey is also conducted to obtain well casing elevations for calculating groundwater elevations. An arbitrary site datum of 100.00 feet is used as a benchmark to initiate the survey, and well casing elevations are measured to the nearest 0.01 feet relative to the established benchmark using standard surveying techniques.

Water levels are allowed to recharge to static conditions prior to the collection of groundwater samples or elevation data, to ensure the collection of accurate and representative data. Water level measurements are recorded to the nearest 0.01 feet using a Sonic Interface Probe, and are compared with the respective casing elevations to calculate water level elevations and apparent groundwater flow directions. Measurable thicknesses of free product are also recorded during well gauging activities when present. Sample collection is accomplished following well development using a new disposable Teflon© or HDPE bailer for each well. If wells have been previously developed/sampled and are being re-sampled, they are purged of 3 to 5 well volumes of water from each well, or until further yield cannot be achieved, using techniques similar to those for well development. The groundwater samples are carefully decanted into appropriately-sized and properly-preserved laboratory provided sample containers, and labeled to identify the sample number/ location, date, and sampling personnel. The samples are subsequently packed in a cooler on ice, and shipped overnight to an independent laboratory under standard chain of custody procedures for possible analysis of the appropriate COCs.

Quality Assurance/Quality Control (QA/QC) procedures for field sampling techniques are performed on a site-by-site basis per scope of work considerations and contract obligations. Any deviations to or modifications of this standard protocol will be described on a site-by-site basis.

LOW FLOW GROUNDWATER SAMPLING PROTOCOL

Due to site specific conditions (i.e., geology, hydrogeology, and contaminants of concern), Pioneer Engineering & Environmental Services, LLC (Pioneer) may perform low-flow groundwater sampling at specific wells at the subject property.

Typical groundwater sampling involves the use of either disposable bailers or high speed pumps. These sampling methods frequently provide acceptable groundwater samples for analysis; however, at some sampling locations these methods provide groundwater samples with high turbidity. This turbidity is caused by the presence of suspended particles in the water sample. Groundwater samples exhibiting turbidity provide suspect analytical results as it will be unclear if analytically detected compounds are dissolved (i.e., the true groundwater concentration of the targeted compound) or suspended (i.e., the groundwater concentration due to the turbidity). Low-flow groundwater sampling is a widely accepted sampling method employed as a method of limiting the turbidity of groundwater samples.

For all low-flow sampling events, Pioneer utilizes an In-Situ, Inc. low-flow groundwater sampling system and ASTM Method D6771. The In-Situ, Inc. system utilizes a variable speed low flow water pump, a MP Troll 9000 multi-parameter probe, and a precision flow cell that incorporates the multi-parameter probe. After determining the distance to groundwater using a sonic interface probe, Pioneer inserts the low-flow pump to a level slightly above the midpoint of the water column (for confined aquifers) or near the top of the water column (for unconfined aquifers). Pioneer purges 3 to 5 well volumes using a flow rate of 0.1 to 0.5 liters/min. The water level is continuously monitored with the sonic interface probe and the flow rate is modified in order to minimize drawdown at the well.

After the appropriate volume of water is purged from the well, groundwater samples are collected. Using the same low-flow pump, the groundwater discharge line is connected to the inlet valve of the flow cell and the properly calibrated multi-parameter probe was inserted into the cell. Pioneer utilizes Flow-Sense software, which continuously monitors data from the probe (i.e., dissolved oxygen, turbidity, specific conductance, dissolved oxygen, red-ox potential, and temperature), in order to determine when groundwater in the well has stabilized. When the Flow-Sense software indicates that statistically valid stabilization characteristics are achieved, the groundwater samples are carefully decanted into appropriately-sized and properly-preserved laboratory provided sample containers, and labeled to identify the sample number/location, date, and sampling personnel. The samples are packed in a cooler on ice, and subsequently retrieved (on the same day or as soon as practicable) by the contract laboratory under standard chain of custody procedures for possible analysis of the appropriate contaminants of concern.

Quality Assurance/Quality Control (QA/QC) procedures for field sampling techniques are performed on a site-by-site basis per scope of work considerations and contract obligations. Any deviations to or modifications of this standard protocol will be described on a site-by-site basis.

SOIL GAS SAMPLING PROTOCOL

Active soil gas sampling is performed in general accordance with 35 IAC 742.227 and standard industry practices using the GeoProbe® and Post-Run Tubing (PRT) system. Prior to sampling, Pioneer visits the USGS website to verify that the site has not received more than 0.5-inch of rain within the last 48 hours. If the site has received more than 0.5-inch of rain within the 48 hours of the anticipated sample collection time, the sampling schedule is adjusted as necessary to ensure a sufficient amount of time has passed prior to soil gas sample collection.

The PRT system consists of probe rods fitted with a PRT Adapter with O-ring, a PRT expendable point holder with O-ring, and an expendable drive point. A jackhammer is used to drive the probe rods equipped with expendable drive points to the desired sampling depth (greater than 3 feet below surface grade, and above the water table, per IEPA guidelines). The rods are retracted approximately 4 to 6 inches and a thin rod is used to disengage the expendable drive point and allow exposure to the soil. An adequate length of 0.25-inch (inside diameter) Teflon® tubing is connected to the PRT Adapter and fed down through the probe rod. The Teflon® tubing is rotated until the PRT Adapter is threaded into the expendable point holder and the O-ring is firmly seated.

To create an air-tight environment around the soil gas probe, VOC-free modeling clay is used to seal around the top of the probe rod. Once sealed, field technicians wait 30 minutes to allow the subsurface conditions to equilibrate prior to sampling. A shroud system is set-up over the sealed hole and a helium gas canister line and 60-cc syringe tubing are connected to the respective ports on the shroud system. Lastly, a 1- or 6-L summa canister is connected to the T-manifold on the sampling train with the in-line pressure regulator/ vacuum gauge.

After the soil gas probe has been sealed, the shroud is covered with plastic sheeting to create a “closed” environment. A vacuum check is performed on the sampling train by using an in-line pressure regulator/ vacuum gauge to apply a vacuum to the system with a 60-cc syringe and monitoring the gauge to ensure the vacuum remains steady for approximately 30 seconds. Once the vacuum test passes, a Radiodetection MGD 2002 Multi-Gas Leak Locator is connected to the tubing port where the syringe was previously connected. The shroud is then filled with helium tracer gas (as approved by the IEPA). If no helium is detected in the sampling train, the leak test passed. If in the case helium is detected, all connections are checked and another helium leak test is completed. Once the system passes the helium leak test, the Radiodetection MGD 2002 Multi-Gas Leak Locator is disconnected and the 60-cc syringe is reconnected to the system. A minimum of three air volumes is purged from the sampling system and the sample vacuum is monitored during purging to ensure high vacuum pressures are avoided in order to maintain equilibrium in the soil. Prior to sample collection, the initial canister pressure is recorded. To begin sampling, the valve on the T-manifold is opened and the soil gas sample is collected through the sampling train directly into a laboratory-provided 1- or 6-L summa canister set at a flow rate of 200 ml/min. The final canister pressure is recorded at the completion of sampling activities. Once all sampling activities are complete and rods are removed, the borehole is backfilled with bentonite to surface grade.

Any deviations to or modifications of this standard protocol will be described on a site by site basis.

Appendix D Hydrogeologic and Low-Flow Data, Potable Well Survey Documentation

LOW-FLOW SAMPLING DATA (1 OF 2)
8080 Lake Shore Drive / Chicago, Illinois

Well ID	Date	Time	Total Gallons Purged	Temperature (C)	Conductivity (µS/cm)	pH	Redox (mv)	D.O. (mg/l)	Turbidity (NTU)	Observations
MW-101	3/17/25	1:17 PM		12.8	882	11.24	-225.0	2.29	1.90	NV/VO
		1:20 PM		12.7	870	11.20	-235.0	2.34	1.85	NV/VO
		1:23 PM		12.7	867	11.18	-239.0	2.32	1.90	NV/VO
		1:26 PM		12.7	864	11.24	-242.0	2.40	1.98	NV/VO
		1:29 PM		12.6	865	11.21	-243.0	2.35	1.84	NV/VO
		1:32 PM		12.6	862	11.20	-243.0	2.34	1.82	NV/VO
		1:35 PM	5	12.6	860	11.23	-244.0	2.30	1.86	NV/VO
MW-106	3/18/25	1:15 PM		13.3	1064	7.30	-91.4	0.43	--	NV/NO
		1:21 PM		13.3	1031	7.26	-68.6	0.34	--	NV/VO
		1:27 PM		13.5	1037	7.35	-88.2	0.40	--	NV/VO
		1:30 PM		13.4	1042	7.25	-99.6	0.51	--	NV/VO
		1:33 PM		13.4	1046	7.30	-108.10	0.42	7.88	NV/VO
		1:37 PM		13.4	1048	7.33	-111.14	0.50	8.09	NV/VO
		1:40 PM	4	13.4	1045	7.37	-114.50	0.48	8.11	NV/VO
MW-202	3/18/25	10:41 AM		13.9	366	8.10	193.0	9.54	--	NV/NO
		10:45 AM		14.6	345	8.47	269.0	3.93	1.97	NV/VO
		10:52 AM		14.7	326	8.72	308.0	4.58	1.98	NV/VO
		10:55 AM		14.7	324	8.75	324.0	4.68	1.99	NV/VO
		10:58 AM	6	14.7	322	8.78	322.0	4.62	1.98	NV/VO
	6/26/25	11:40 AM		18.2	470.7	7.46	-264.7	-0.01	-0.95	Sheen/Odor
		11:43 AM		18.3	476.2	7.44	-267.2	-0.01	-0.85	Sheen/Odor
		11:46 AM	--	18.3	487.7	7.40	-274.0	-0.02	-0.91	Sheen/Odor
MW-302	6/26/25	10:03 AM		15.9	647	8.69	-20.5	1.80	9.93	NV/NO
		10:06 AM		16.0	644	8.68	-22.6	1.61	10.38	NV/VO
		10:09 AM	6	16.0	645	8.68	-26.6	1.57	11.02	NV/VO
MW-307	2/14/25	10:49 AM		7.4	0.513	11.53	36.1	1.52	2.71	NO/NV
		10:52 AM		7.4	0.493	11.52	35.6	1.53	2.74	NV/VO
		10:55 AM		7.5	0.506	11.55	34.8	1.42	2.76	NV/VO
		10:59 AM	2.5	7.4	0.488	11.55	34.0	1.45	2.78	NV/VO

Notes: -- indicates value is not available
NO/NV indicates no odors or visual signs of impact were observed

LOW-FLOW SAMPLING DATA (2 OF 2)
8080 Lake Shore Drive / Chicago, Illinois

Well ID	Date	Time	Total Gallons Purged	Temperature (C)	Conductivity (µS/cm)	pH	Redox (mv)	D.O. (mg/l)	Turbidity (NTU)	Observations
MW-309	2/14/25	12:02 PM		12.6	0.779	11.40	-0.4	2.34	9.36	Cloudy/NO
		12:55 PM		12.6	0.777	11.41	-2.4	0.57	7.61	Cloudy/NO
		12:58 PM		12.6	0.780	11.40	-0.1	0.66	7.43	Cloudy/NO
		1:01 PM	4.25	12.7	0.777	11.40	-1.2	0.59	7.59	Cloudy/NO
MW-315	3/17/25	10:32 AM		9.2	649	10.02	-178.7	11.36	1.75	NO/NV
		10:39 AM		9.2	646	10.01	-184.3	10.52	1.75	NO/NV
		10:42 AM		9.1	637	10.00	-189.7	9.57	1.75	NO/NV
		10:45 AM		9.1	626	10.00	-192.3	9.15	1.75	NO/NV
		10:54 AM		9.2	622	10.00	-194.3	4.00	1.63	NO/NV
		10:57 AM		9.2	621	10.02	-195.2	3.61	1.72	NO/NV
		11:00 AM		9.2	621	10.03	-196.2	3.57	1.66	NO/NV
		11:03 AM		9.2	620	10.02	-196.7	3.48	1.80	NO/NV
		11:18 AM	3	9.2	621	10.00	197.5	3.56	1.74	NO/NV
MW-316	3/17/25	7:45 AM		12.8	740	9.50	-190.0	1.40	--	NO/NV
		7:48 AM		12.7	742	9.50	-198.0	1.41	--	NO/NV
		7:51 AM		12.7	742	9.50	-200.0	1.44	1.77	NO/NV
		7:54 AM		12.8	744	9.49	-203.0	1.45	1.78	NO/NV
		7:57 AM	5	12.7	744	9.50	-204.0	1.47	1.79	NO/NV
MW-318	6/26/25	12:51 PM		18.8	704	7.21	-102.5	0.58	55.77	Sediment/Odor
		12:54 PM		18.7	702	7.21	-102.8	0.53	56.66	Sediment/Odor
		12:57 PM	- -	18.7	699	7.20	-106.4	0.49	57.37	Sediment/Odor

Notes: -- indicates value is not available
NO/NV indicates no odors or visual signs of impact were observed

MONITORING WELL GAUGING DATA
February 12-17, 2025
8080 South Lake Shore Drive / Chicago, Illinois

Well ID	Well Elevation TOC (CCD)	Ground Elevation (CCD)	Well Depth (ft TOC)	Stickup Height (ft)	Well Depth (ft BSG)	Depth to Water (ft TOC)	Depth to Water (ft BSG)	Water Table Elevation (CCD)
MW-101	--	--	25.00	2.0	23.00	18.45	--	--
MW-102	15.6	13.1	20.35	2.5	17.85	16.50	14.00	-0.90
MW-102D	15.8	13.3	25.35	2.5	22.85	16.50	14.00	-0.70
MW-104	--	--	--	--	--	--	--	--
MW-104D	--	--	42.40	1.9	40.50	21.30	19.4	--
MW-106	--	--	22.04	1.7	20.34	15.03	--	--
MW-202	18.4	16.4	20.30	2.0	18.30	16.52	14.52	1.88
MW-204	13.7	11.2	17.60	2.5	15.10	11.73	9.23	1.97
EW-3	--	--	15.35	3.5	11.85	12.75	9.25	--
NMW-4	--	--	17.25	4.5	12.75	14.67	10.17	--
MW-301	17.1	14.6	17.50	2.5	15.00	14.78	12.28	2.32
MW-302	16.2	13.7	20.20	2.5	17.70	12.73	10.23	3.47
MW-303	17.1	16.1	20.00	1.0	19.00	12.15	11.15	4.95
MW-304	14.1	13.1	15.20	1.0	14.20	12.75	11.75	1.35
MW-305	11.8	7.8	19.50	4.0	15.50	12.42	8.42	-0.62
MW-306	21.2	18.7	20.20	2.5	17.70	17.35	14.85	3.85
MW-307	25.5	21.0	20.25	4.5	15.75	11.36	6.86	14.14
MW-308	12.6	10.1	20.25	2.5	17.75	12.40	9.90	0.20
MW-309	23.2	20.9	30.30	2.3	28.00	23.32	21.02	-0.12
MW-310	23.7	20.8	30.25	2.9	27.35	22.55	19.65	1.15
MW-311	18.8	16.6	30.20	2.2	28.00	16.75	14.55	2.05
MW-312	18.9	16.9	20.00	2.0	18.00	17.35	15.35	1.55
MW-313	--	--	--	--	--	--	--	--
MW-314	15.0	13.7	20.30	1.3	19.00	15.00	13.70	0.00
MW-315	9.4	9.6	14.80	0.2	14.60	10.00	10.20	-0.60
MW-316	16.2	14.5	20.35	1.7	18.65	13.46	11.76	2.74
MW-317	15.7	14.7	20.35	1.0	19.35	14.19	13.19	1.51
MW-318	15.9	13.7	25.40	2.2	23.20	16.72	14.52	-0.82
North Slip	9.0	--	--	--	--	9.65	--	-0.65
South Slip	8.2	--	--	--	--	8.86	--	-0.66

MONITORING WELL GAUGING DATA
May 21, 2025
8080 South Lake Shore Drive / Chicago, Illinois

Well ID	Well Elevation TOC (CCD)	Ground Elevation (CCD)	Well Depth (ft TOC)	Stickup Height (ft)	Well Depth (ft BSG)	Depth to Water (ft TOC)	Depth to Water (ft BSG)	Water Table Elevation (CCD)
MW-101	--	--	25.03	2.0	23.08	17.65	--	--
MW-102	15.6	13.1	20.35	2.5	17.85	15.20	12.70	0.40
MW-102D	15.8	13.3	25.35	2.5	22.85	15.22	12.72	0.58
MW-104	--	--	26.30	2.0	24.30	19.90	17.90	--
MW-104D	--	--	42.40	1.9	40.50	20.05	18.15	--
MW-106	--	--	22.04	1.7	20.34	14.55	--	--
MW-202	18.4	16.4	20.30	2.0	18.30	16.05	14.05	2.35
MW-204	13.7	11.2	17.60	2.5	15.10	11.10	8.60	2.60
EW-3	--	--	15.35	3.5	--	12.35	8.85	--
NMW-4	--	--	17.25	4.5	--	--	--	--
MW-301	17.1	14.6	17.50	2.5	15.00	14.40	11.90	2.70
MW-302	16.2	13.7	20.20	2.5	17.70	11.95	9.45	4.25
MW-303	17.1	16.1	20.00	1.0	19.00	14.32	13.32	2.78
MW-304	14.1	13.1	15.20	1.0	14.20	11.35	10.35	2.75
MW-305	11.8	7.8	19.50	4.0	15.50	11.33	7.33	0.47
MW-306	21.2	18.7	20.20	2.5	17.70	19.15	16.65	2.05
MW-307	25.5	21.0	20.25	4.5	15.75	11.65	7.15	13.85
MW-308	12.6	10.1	20.25	2.5	17.75	11.53	9.03	1.07
MW-309	23.2	20.9	30.30	2.3	28.00	22.20	19.90	1.00
MW-310	23.7	20.8	30.25	2.9	27.35	20.80	17.90	2.90
MW-311	18.8	16.6	30.20	2.2	28.00	15.85	13.65	2.95
MW-312	18.9	16.9	20.00	2.0	18.00	16.09	14.09	2.81
MW-313	--	--	--	--	--	10.1	--	--
MW-314	15.0	13.7	20.30	1.3	19.00	14.02	12.72	0.98
MW-315	9.4	9.6	14.80	0.2	14.60	8.49	8.69	0.91
MW-316	16.2	14.5	20.35	1.7	18.65	13.66	11.96	2.54
MW-317	15.7	14.7	20.35	1.0	19.35	13.94	12.94	1.76
MW-318	15.9	13.7	25.40	2.2	23.20	14.62	12.42	1.28
North Slip	9.0	--	--	--	--	8.30	--	0.70
South Slip	8.2	--	--	--	--	7.55	--	0.65

MONITORING WELL GAUGING DATA
June 19, 2025
8080 South Lake Shore Drive / Chicago, Illinois

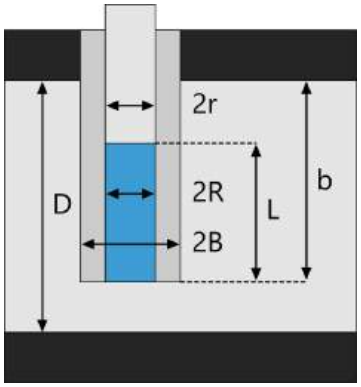
Well ID	Well Elevation TOC (CCD)	Ground Elevation (CCD)	Well Depth (ft TOC)	Stickup Height (ft)	Well Depth (ft BSG)	Depth to Water (ft TOC)	Depth to Water (ft BSG)	Water Table Elevation (CCD)
MW-101	--	--	25.03	2.0	23.08	--	--	--
MW-102	15.6	13.1	20.35	2.5	17.85	--	--	--
MW-102D	15.8	13.3	25.35	2.5	22.85	--	--	--
MW-104	--	--	26.30	2.0	24.30	--	--	--
MW-104D	--	--	42.40	1.9	40.50	--	--	--
MW-106	--	--	22.04	1.7	20.34	--	--	--
MW-202	18.4	16.4	20.30	2.0	18.30	--	--	--
MW-204	13.7	11.2	17.60	2.5	15.10	--	--	--
EW-3	--	--	15.35	3.5	--	--	--	--
NMW-4	--	--	17.25	4.5	--	--	--	--
MW-301	17.1	14.6	17.50	2.5	15.00	--	--	--
MW-302	16.2	13.7	20.20	2.5	17.70	--	--	--
MW-303	17.1	16.1	20.00	1.0	19.00	--	--	--
MW-304	14.1	13.1	15.20	1.0	14.20	--	--	--
MW-305	11.8	7.8	19.50	4.0	15.50	--	--	--
MW-306	21.2	18.7	20.20	2.5	17.70	--	--	--
MW-307	25.5	21.0	20.25	4.5	15.75	--	--	--
MW-308	12.6	10.1	20.25	2.5	17.75	11.65	9.15	0.95
MW-309	23.2	20.9	30.30	2.3	28.00	--	--	--
MW-310	23.7	20.8	30.25	2.9	27.35	21.18	18.28	2.52
MW-311	18.8	16.6	30.20	2.2	28.00	16.18	13.98	2.62
MW-312	18.9	16.9	20.00	2.0	18.00	--	--	--
MW-313	--	--	--	--	--	--	--	--
MW-314	15.0	13.7	20.30	1.3	19.00	14.30	13.00	0.70
MW-315	9.4	9.6	14.80	0.2	14.60	--	--	--
MW-316	16.2	14.5	20.35	1.7	18.65	--	--	--
MW-317	15.7	14.7	20.35	1.0	19.35	--	--	--
MW-318	15.9	13.7	25.40	2.2	23.20	--	--	--
North Slip	9.0	--	--	--	--	--	--	--
South Slip	8.2	--	--	--	--	--	--	--

MONITORING WELL GAUGING DATA
July 17, 2025
8080 South Lake Shore Drive / Chicago, Illinois

Well ID	Well Elevation TOC (CCD)	Ground Elevation (CCD)	Well Depth (ft TOC)	Stickup Height (ft)	Well Depth (ft BSG)	Depth to Water (ft TOC)	Depth to Water (ft BSG)	Water Table Elevation (CCD)
MW-101	--	--	25.03	2.0	23.08	18.15	--	--
MW-102	15.6	13.1	20.35	2.5	17.85	15.46	12.96	0.14
MW-102D	15.8	13.3	25.35	2.5	22.85	15.45	12.95	0.35
MW-104	--	--	26.30	2.0	24.30	20.13	--	--
MW-104D	--	--	42.40	1.9	40.50	20.40	--	--
MW-106	--	--	22.04	1.7	20.34	14.89	--	--
MW-202	18.4	16.4	20.30	2.0	18.30	16.21	14.21	2.19
MW-204	13.7	11.2	17.60	2.5	15.10	11.74	9.24	1.96
EW-3	--	--	15.35	3.5	--	12.25	--	--
NMW-4	--	--	17.25	4.5	--	10.44	--	--
MW-301	17.1	14.6	17.50	2.5	15.00	14.89	12.39	2.21
MW-302	16.2	13.7	20.20	2.5	17.70	12.66	10.16	3.54
MW-303	17.1	16.1	20.00	1.0	19.00	14.81	13.81	2.29
MW-304	14.1	13.1	15.20	1.0	14.20	11.76	10.76	2.34
MW-305	11.8	7.8	19.50	4.0	15.50	11.40	7.40	0.40
MW-306	21.2	18.7	20.20	2.5	17.70	19.91	17.41	1.29
MW-307	25.5	21.0	20.25	4.5	15.75	11.73	7.23	13.77
MW-308	12.6	10.1	20.25	2.5	17.75	11.64	9.14	0.96
MW-309	23.2	20.9	30.30	2.3	28.00	22.34	20.04	0.86
MW-310	23.7	20.8	30.25	2.9	27.35	21.32	18.42	2.38
MW-311	18.8	16.6	30.20	2.2	28.00	16.55	14.35	2.25
MW-312	18.9	16.9	20.00	2.0	18.00	17.15	15.15	1.75
MW-313	--	--	--	--	--	11.03	--	--
MW-314	15.0	13.7	20.30	1.3	19.00	14.55	13.25	0.45
MW-315	9.4	9.6	14.80	0.2	14.60	8.55	8.75	0.85
MW-316	16.2	14.5	20.35	1.7	18.65	13.58	11.88	2.62
MW-317	15.7	14.7	20.35	1.0	19.35	14.05	13.05	1.65
MW-318	15.9	13.7	25.40	2.2	23.20	14.14	11.94	1.76
North Slip	9.0	--	--	--	--	8.01	--	0.99
South Slip	8.2	--	--	--	--	--	--	--

	Wells
	Project: 8080 Lake Shore Drive
	Number: 24-0124-103
	Client: Related Midwest

Location: Chicago, IL



	Name	X [cm]	Y [cm]	Elevation (amsl) [cm]	Benchmark [cm]	Penetration	L [m]	B [m]
1	MW-301					Partially	0.83	0.0635

Project: 8080 Lake Shore Drive

Number: 24-0124-103

Client: Related Midwest

Location: Chicago, IL	Slug Test: Slug Test 1	Test Well: MW-301
Test Conducted by: J. David	Test Date: 6/24/2025	
Water level at t=0 [m]: 0.72	Static Water Level [m]: 1.37	Water level change at t=0 [m]: -0.64

	Time [s]	Water Level [m]	WL Change [m]
1	0	0.724	-0.641
2	0.251	0.731	-0.634
3	0.501	0.739	-0.626
4	0.751	0.746	-0.619
5	1.001	0.753	-0.612
6	1.251	0.76	-0.605
7	1.501	0.767	-0.598
8	1.751	0.774	-0.591
9	2.001	0.781	-0.584
10	2.251	0.788	-0.577
11	2.501	0.794	-0.571
12	2.751	0.801	-0.564
13	3.001	0.808	-0.557
14	3.251	0.814	-0.551
15	3.501	0.82	-0.545
16	3.751	0.827	-0.538
17	4.001	0.833	-0.532
18	4.251	0.839	-0.526
19	4.501	0.845	-0.52
20	4.751	0.851	-0.514
21	5.001	0.857	-0.508
22	5.251	0.862	-0.503
23	5.501	0.868	-0.497
24	5.751	0.874	-0.491
25	6.001	0.88	-0.485
26	6.36	0.888	-0.477
27	6.721	0.896	-0.469
28	7.141	0.904	-0.461
29	7.56	0.914	-0.451
30	7.98	0.923	-0.442
31	8.461	0.932	-0.433
32	9	0.943	-0.422
33	9.48	0.952	-0.413
34	10.08	0.964	-0.401
35	10.681	0.975	-0.39
36	11.28	0.986	-0.379
37	11.94	0.998	-0.367
38	12.66	1.01	-0.355
39	13.443	1.023	-0.342
40	14.22	1.036	-0.329
41	15.06	1.049	-0.316
42	15.96	1.061	-0.304
43	16.92	1.076	-0.289
44	17.88	1.089	-0.276
45	18.96	1.103	-0.262
46	20.1	1.118	-0.247
47	21.3	1.132	-0.233
48	22.56	1.146	-0.219
49	23.88	1.16	-0.205
50	25.32	1.174	-0.191
51	26.82	1.188	-0.177
52	28.38	1.202	-0.163

Project: 8080 Lake Shore Drive

Number: 24-0124-103

Client: Related Midwest

	Time [s]	Water Level [m]	WL Change [m]
53	30.06	1.215	-0.15
54	31.86	1.228	-0.137
55	33.72	1.241	-0.124
56	35.76	1.254	-0.111
57	37.86	1.266	-0.099
58	40.396	1.278	-0.087
59	42.48	1.286	-0.079
60	45	1.296	-0.069
61	47.64	1.305	-0.06
62	50.46	1.313	-0.052
63	53.46	1.32	-0.045
64	56.64	1.326	-0.039
65	60	1.331	-0.034
66	63.6	1.334	-0.031
67	67.2	1.336	-0.029
68	71.4	1.339	-0.026
69	75.629	1.34	-0.025
70	79.8	1.342	-0.023
71	84.6	1.344	-0.021
72	90	1.346	-0.019
73	94.8	1.348	-0.017
74	100.8	1.35	-0.015
75	106.8	1.351	-0.014
76	112.8	1.353	-0.012
77	119.4	1.354	-0.011
78	126.6	1.355	-0.01
79	134.4	1.356	-0.009
80	142.2	1.357	-0.008
81	150.6	1.358	-0.007
82	159.6	1.358	-0.007
83	169.2	1.359	-0.006
84	178.8	1.36	-0.005
85	189.6	1.36	-0.005
86	201	1.36	-0.005
87	213	1.361	-0.004
88	225.643	1.362	-0.003
89	238.8	1.362	-0.003
90	253.2	1.363	-0.002
91	268.2	1.363	-0.002
92	283.8	1.363	-0.002
93	300.787	1.364	-0.001
94	318.657	1.363	-0.002
95	337.2	1.363	-0.002
96	357.6	1.364	-0.001
97	378.6	1.364	-0.001
98	400.912	1.365	0.00
99	424.8	1.364	-0.001
100	450	1.364	-0.001
101	476.4	1.364	-0.001
102	504.6	1.364	-0.001
103	534.6	1.364	-0.001
104	566.4	1.365	0.00
105	600	1.364	-0.001
106	636.304	1.364	-0.001
107	672	1.365	0.00
108	714	1.365	0.00
109	756	1.365	0.00

Project: 8080 Lake Shore Drive

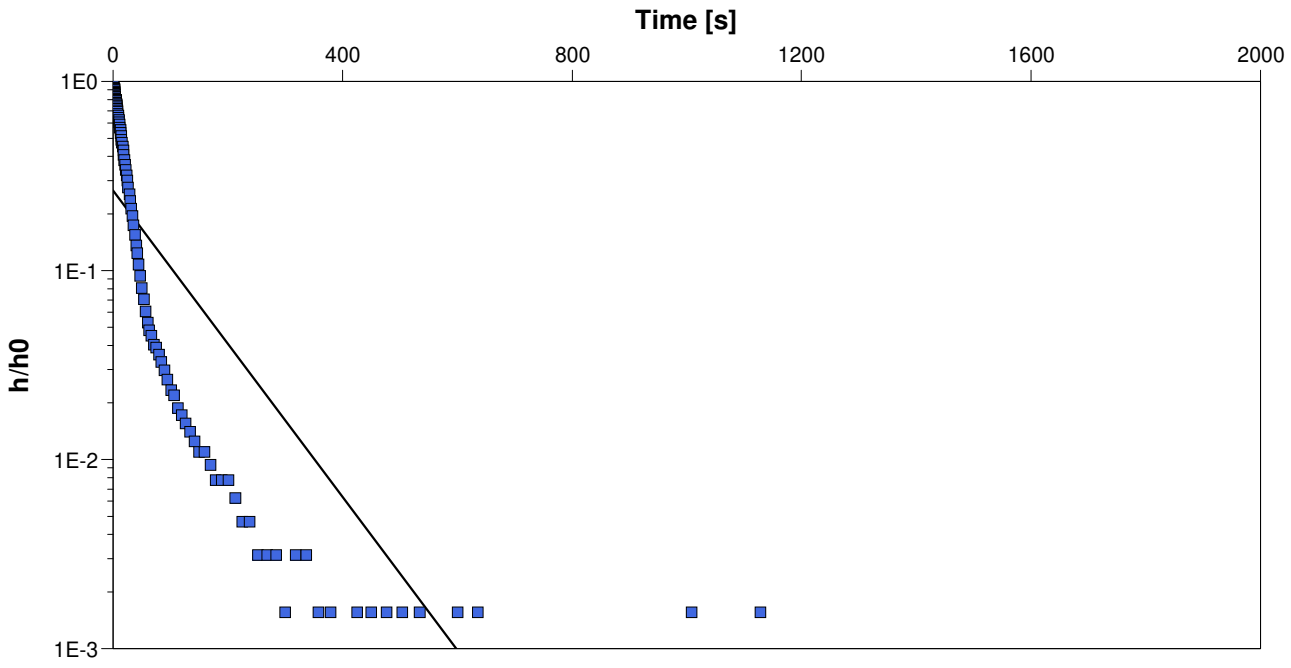
Number: 24-0124-103

Client: Related Midwest

	Time [s]	Water Level [m]	WL Change [m]
110	798	1.365	0.00
111	846	1.365	0.00
112	900	1.365	0.00
113	948	1.365	0.00
114	1008	1.364	-0.001
115	1068	1.365	0.00
116	1128	1.364	-0.001
117	1188	1.365	0.00
118	1248	1.365	0.00

	Slug Test Analysis Report
	Project: 8080 Lake Shore Drive
	Number: 24-0124-103
	Client: Related Midwest

Location: Chicago, IL	Slug Test: Slug Test 1	Test Well: MW-301
Test Conducted by: J. David		Test Date: 6/24/2025
Analysis Performed by: JH	Slug Test Analysis	Analysis Date: 6/24/2025
Aquifer Thickness: 15.00 m		



Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity [cm/s]	
MW-301	8.16×10^{-4}	

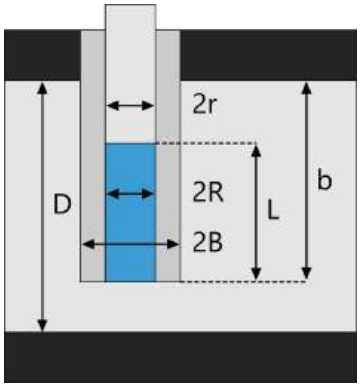
Wells

Project: 8080 Lake Shore Drive

Number: 24-0124-103

Client: Related Midwest

Location: Chicago, IL



	Name	X [cm]	Y [cm]	Elevation (amsl) [cm]	Benchmark [cm]	Penetration	L [m]	B [m]
1	MW-302					Partially	2.28	0.0645

Slug Test - Water Level Data

Project: 8080 Lake Shore Drive

Number: 24-0124-103

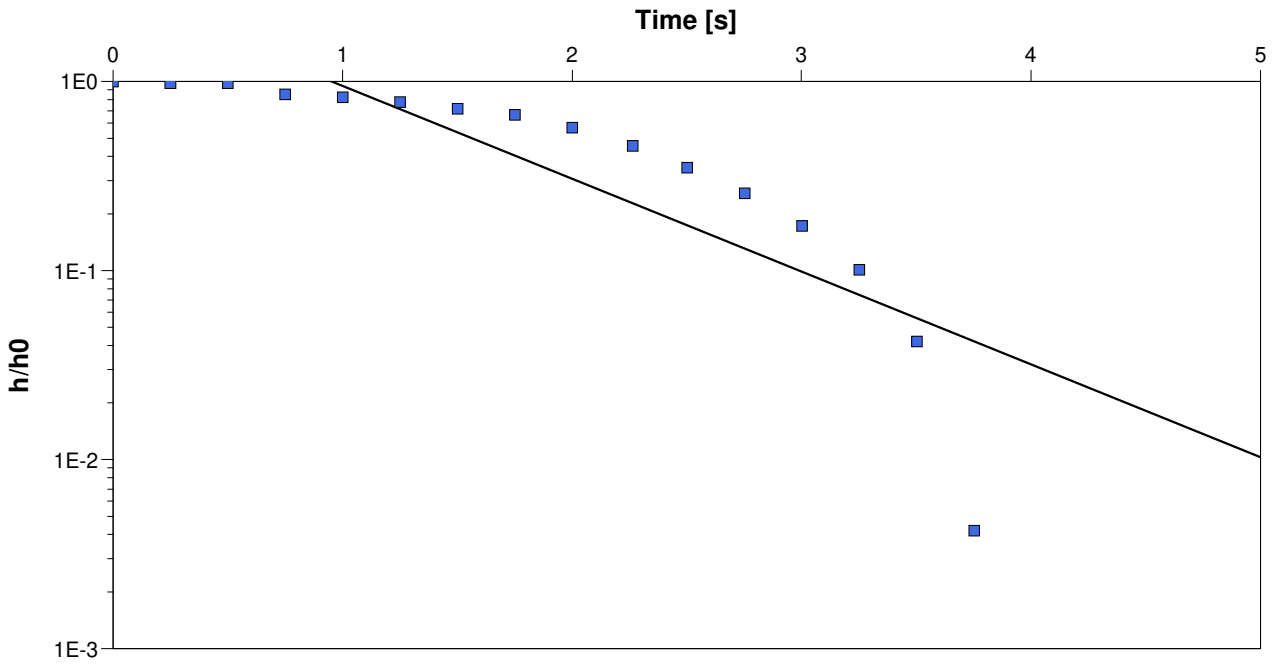
Client: Related Midwest

Location: Chicago, IL	Slug Test: Slug Test 2	Test Well: MW-302
Test Conducted by: J. David	Test Date: 2/19/2025	
Water level at t=0 [m]: 1.68	Static Water Level [m]: 1.92	Water level change at t=0 [m]: -0.24

	Time [s]	Water Level [m]	WL Change [m]
1	0	1.682	-0.238
2	0.251	1.687	-0.233
3	0.501	1.687	-0.233
4	0.751	1.717	-0.203
5	1.001	1.723	-0.197
6	1.251	1.735	-0.185
7	1.501	1.749	-0.171
8	1.751	1.761	-0.159
9	2.001	1.784	-0.136
10	2.264	1.811	-0.109
11	2.501	1.837	-0.083
12	2.751	1.859	-0.061
13	3.001	1.879	-0.041
14	3.251	1.896	-0.024
15	3.501	1.91	-0.01
16	3.751	1.919	-0.001
17	4.001	1.92	0.00

	Slug Test Analysis Report
	Project: 8080 Lake Shore Drive
	Number: 24-0124-103
	Client: Related Midwest

Location: Chicago, IL	Slug Test: Slug Test 2	Test Well: MW-302
Test Conducted by: J. David		Test Date: 2/19/2025
Analysis Performed by: J. Hartsock	Slug Test 2	Analysis Date: 6/24/2025
Aquifer Thickness: 15.00 m		

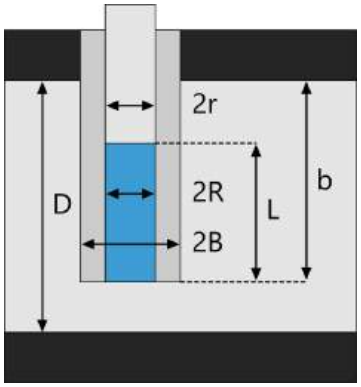


Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity [cm/s]	
MW-302	4.65×10^{-2}	

	Wells
	Project: 8080 Lake Shore Drive
	Number: 24-0124-103
	Client: Related Midwest

Location: Chicago, IL



	Name	X [cm]	Y [cm]	Elevation (amsl) [cm]	Benchmark [cm]	Penetration	L [m]	B [m]
1	MW-314					Partially	1.62	0.0635

Slug Test - Water Level Data

Project: 8080 Lake Shore Drive

Number: 24-0124-103

Client: Related Midwest

Location: Chicago, IL	Slug Test: Slug Test 3	Test Well: MW-314
Test Conducted by: J. David	Test Date: 2/19/2025	
Water level at t=0 [m]: 0.92	Static Water Level [m]: 1.13	Water level change at t=0 [m]: -0.21

	Time [s]	Water Level [m]	WL Change [m]
1	0	0.919	-0.213
2	0.251	0.938	-0.194
3	0.501	0.962	-0.17
4	0.751	0.981	-0.151
5	1.001	0.998	-0.134
6	1.251	1.016	-0.116
7	1.501	1.033	-0.099
8	1.751	1.046	-0.086
9	2.001	1.059	-0.073
10	2.251	1.071	-0.061
11	2.501	1.077	-0.055
12	2.751	1.085	-0.047
13	3.001	1.089	-0.043
14	3.251	1.094	-0.038
15	3.501	1.095	-0.037
16	3.751	1.097	-0.035
17	4.001	1.098	-0.034
18	4.251	1.10	-0.032
19	4.501	1.10	-0.032
20	4.751	1.10	-0.032
21	5.003	1.101	-0.031
22	5.251	1.102	-0.03
23	5.501	1.102	-0.03
24	5.761	1.104	-0.028
25	6.001	1.104	-0.028
26	6.36	1.105	-0.027
27	6.72	1.106	-0.026
28	7.14	1.107	-0.025
29	7.56	1.108	-0.024
30	7.98	1.108	-0.024
31	8.46	1.11	-0.022
32	9	1.11	-0.022
33	9.48	1.112	-0.02
34	10.08	1.112	-0.02
35	10.68	1.113	-0.019
36	11.28	1.114	-0.018
37	11.94	1.114	-0.018
38	12.66	1.115	-0.017
39	13.44	1.116	-0.016
40	14.22	1.117	-0.015
41	15.06	1.117	-0.015
42	15.96	1.117	-0.015
43	16.92	1.117	-0.015
44	17.88	1.117	-0.015
45	18.96	1.117	-0.015
46	20.1	1.117	-0.015
47	21.3	1.117	-0.015
48	22.56	1.117	-0.015
49	23.88	1.117	-0.015
50	25.32	1.117	-0.015
51	26.82	1.118	-0.014
52	28.38	1.118	-0.014

Project: 8080 Lake Shore Drive

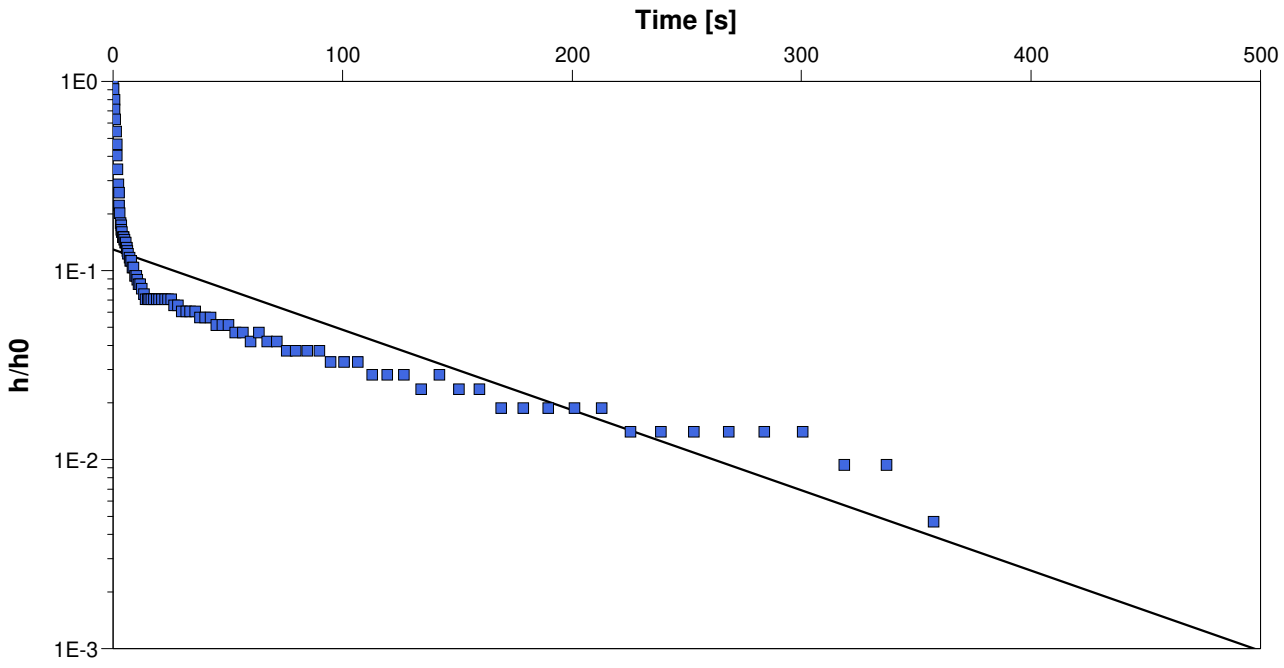
Number: 24-0124-103

Client: Related Midwest

	Time [s]	Water Level [m]	WL Change [m]
53	30.06	1.119	-0.013
54	31.86	1.119	-0.013
55	33.72	1.119	-0.013
56	35.761	1.119	-0.013
57	37.86	1.12	-0.012
58	40.08	1.12	-0.012
59	42.48	1.12	-0.012
60	45	1.121	-0.011
61	47.64	1.121	-0.011
62	50.46	1.121	-0.011
63	53.46	1.122	-0.01
64	56.64	1.122	-0.01
65	60	1.123	-0.009
66	63.6	1.122	-0.01
67	67.2	1.123	-0.009
68	71.4	1.123	-0.009
69	75.6	1.124	-0.008
70	79.8	1.124	-0.008
71	84.6	1.124	-0.008
72	90	1.124	-0.008
73	94.8	1.125	-0.007
74	100.8	1.125	-0.007
75	106.8	1.125	-0.007
76	112.8	1.126	-0.006
77	119.4	1.126	-0.006
78	126.6	1.126	-0.006
79	134.4	1.127	-0.005
80	142.2	1.126	-0.006
81	150.6	1.127	-0.005
82	159.6	1.127	-0.005
83	169.2	1.128	-0.004
84	178.8	1.128	-0.004
85	189.6	1.128	-0.004
86	201	1.128	-0.004
87	213	1.128	-0.004
88	225.6	1.129	-0.003
89	238.8	1.129	-0.003
90	253.2	1.129	-0.003
91	268.2	1.129	-0.003
92	283.8	1.129	-0.003
93	300.6	1.129	-0.003
94	318.6	1.13	-0.002
95	337.2	1.13	-0.002
96	357.6	1.131	-0.001

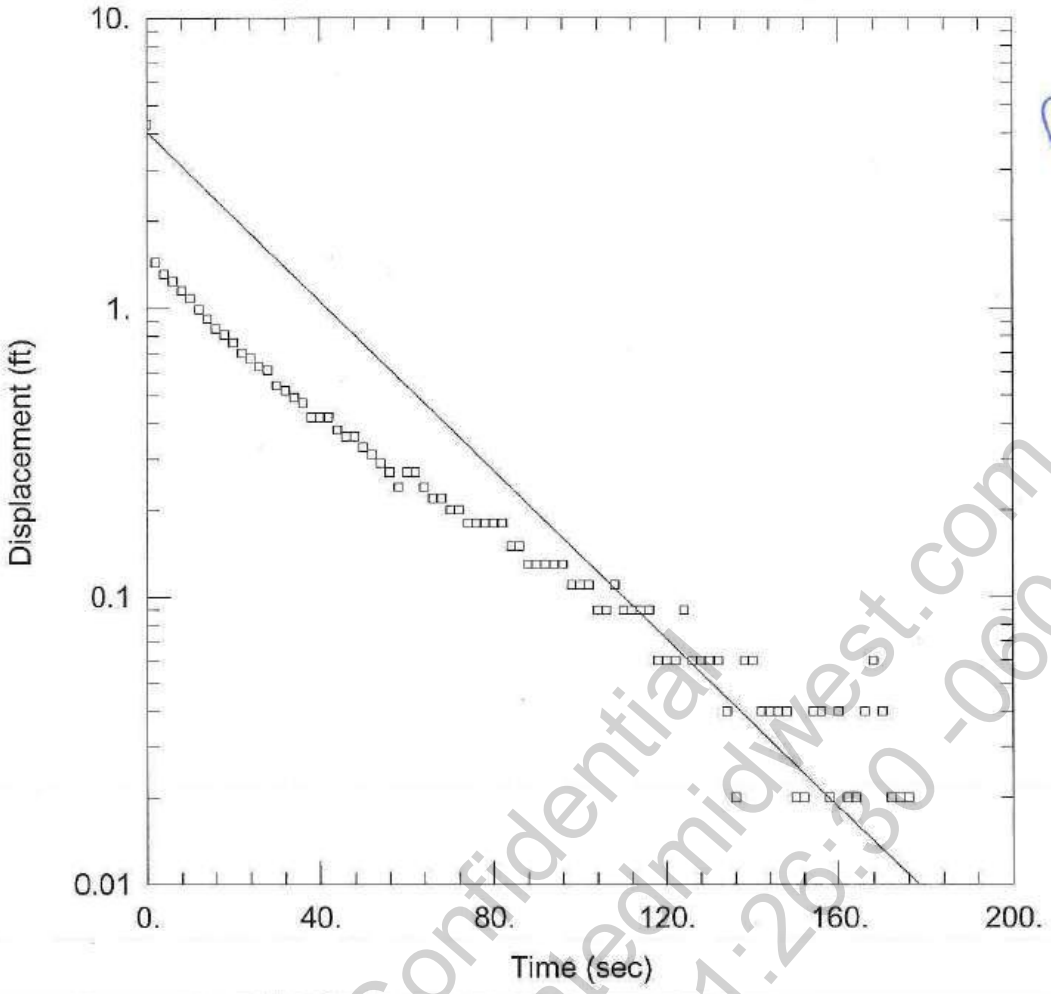
	Slug Test Analysis Report
	Project: 8080 Lake Shore Drive
	Number: 24-0124-103
	Client: Related Midwest

Location: Chicago, IL	Slug Test: Slug Test 3	Test Well: MW-314
Test Conducted by: J. David		Test Date: 2/19/2025
Analysis Performed by: J. Hartsock	Slug Test 3	Analysis Date: 6/24/2025
Aquifer Thickness: 15.00 m		



Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity [cm/s]	
MW-314	5.40×10^{-4}	



Response test

Confidential
mellch@relatedmidwest.com
2024-03-04 11:26:30 -0600

CRA-MW-102 TEST-1

Data Set: N:\TRANSFER\37024aqt\102ST-1.aqt
Date: 01/13/05 Time: 13:24:30

PROJECT INFORMATION

Company: CRA
Client: Southworks Development L.L.C.
Project: 37024
Location: Chicago, Illinois
Test Well: CRA-MW-102
Test Date: 12/16/04

AQUIFER DATA

Saturated Thickness: 13. ft
Anisotropy Ratio (Kz/Kr): 1.

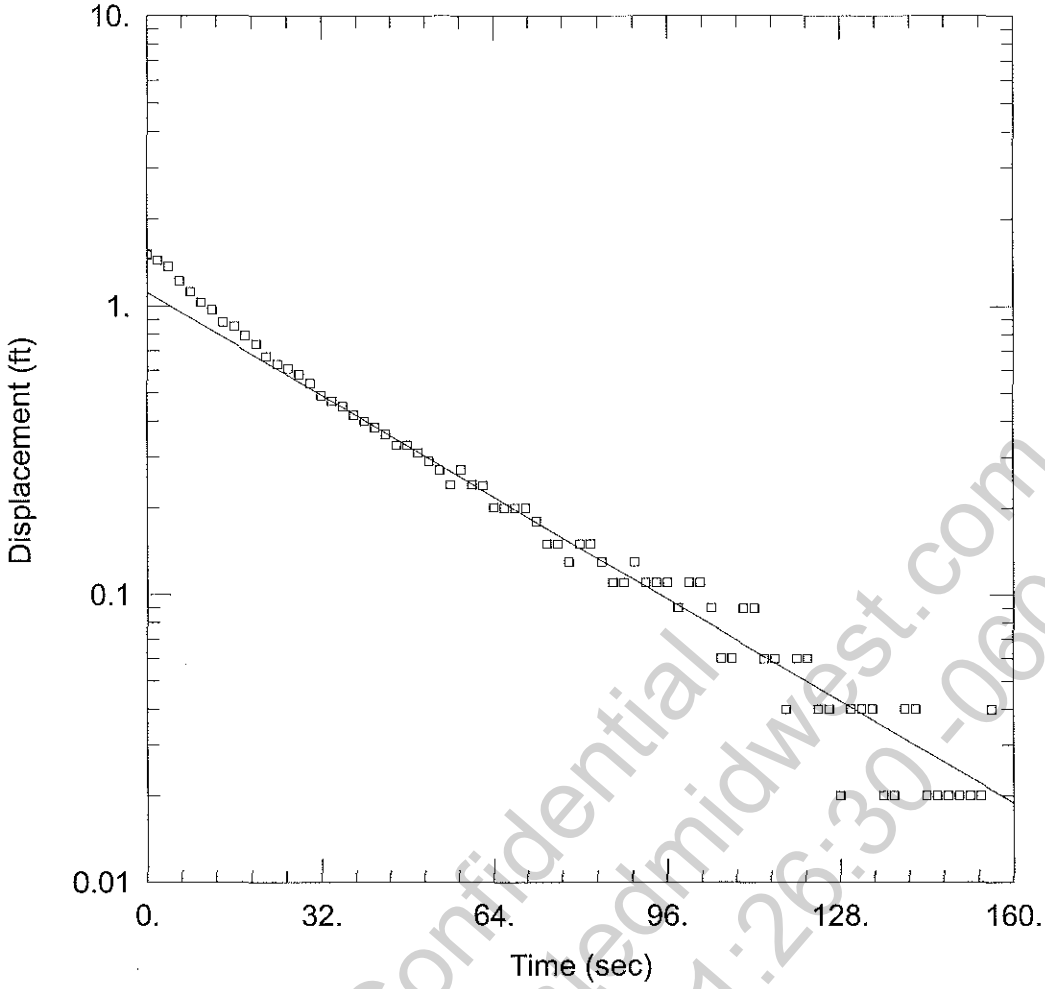
WELL DATA (CRA-MW-102)

Initial Displacement: 4.3 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 13. ft
Screen Length: 10. ft
Wellbore Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.006806 cm/sec
y0 = 4.059 ft



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mellch@relatedmidwest.com
2024-03-04 11:26:30 -0600

CRA-MW-102 TEST-2

Data Set: N:\TRANSFER\37024aqt\102ST-2.aqt
Date: 01/13/05 Time: 13:24:39

PROJECT INFORMATION

Company: CRA
Client: Southworks Development L.L.C.
Project: 37024
Location: Chicago, Illinois
Test Well: CRA-MW-102
Test Date: 12/16/04

AQUIFER DATA

Saturated Thickness: 13. ft
Anisotropy Ratio (Kz/Kr): 1.

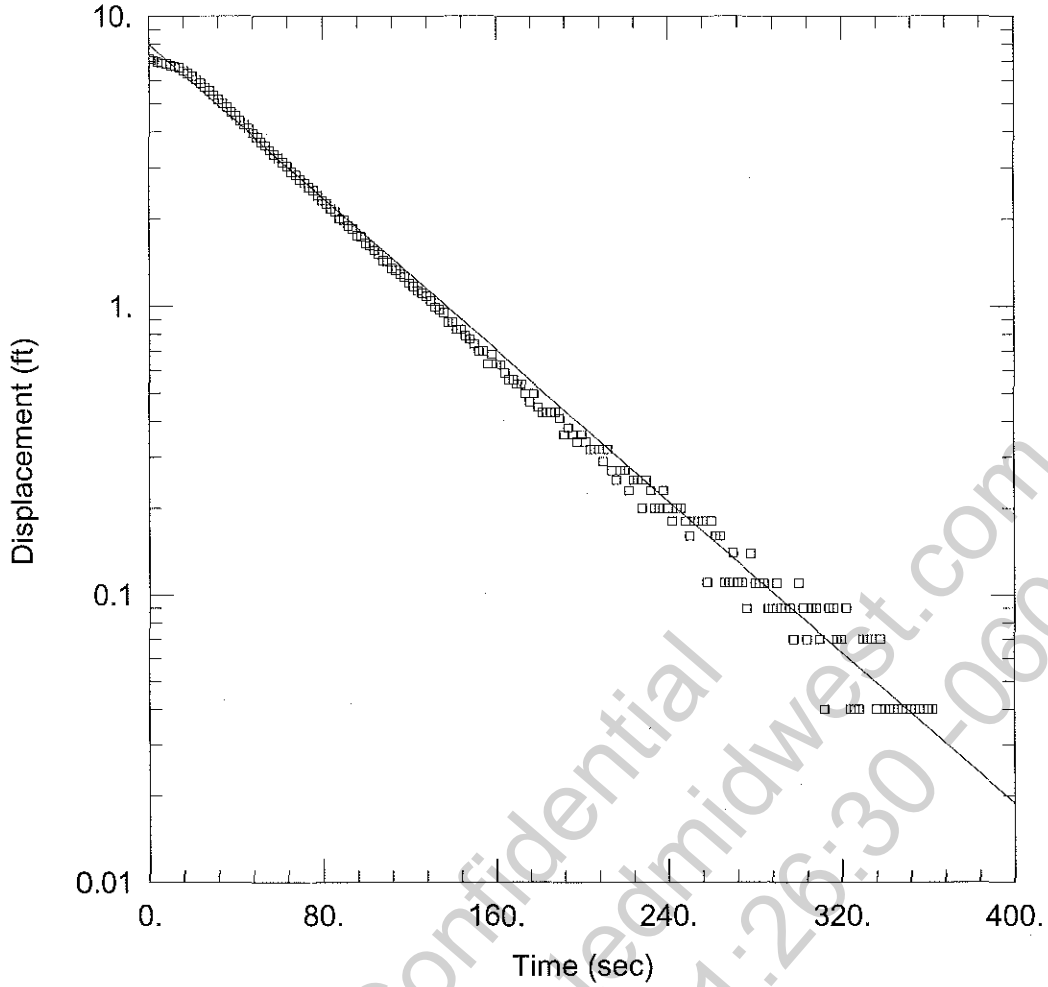
WELL DATA (CRA-MW-102)

Initial Displacement: 1.5 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 13. ft
Screen Length: 10. ft
Wellbore Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.00515 cm/sec
y0 = 1.116 ft



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2024-03-04 11:26:30 -0600

CRA-MW-102D TEST-1

Data Set: N:\TRANSFER\37024aqt\102DT-1.AQT
Date: 01/13/05 Time: 13:23:58

PROJECT INFORMATION

Company: CRA
Client: Southworks Development L.L.C.
Project: 37024
Location: Chicago, Illinois
Test Well: CRA-MW-102D
Test Date: 12/16/04

AQUIFER DATA

Saturated Thickness: 13. ft
Anisotropy Ratio (Kz/Kr): 1.

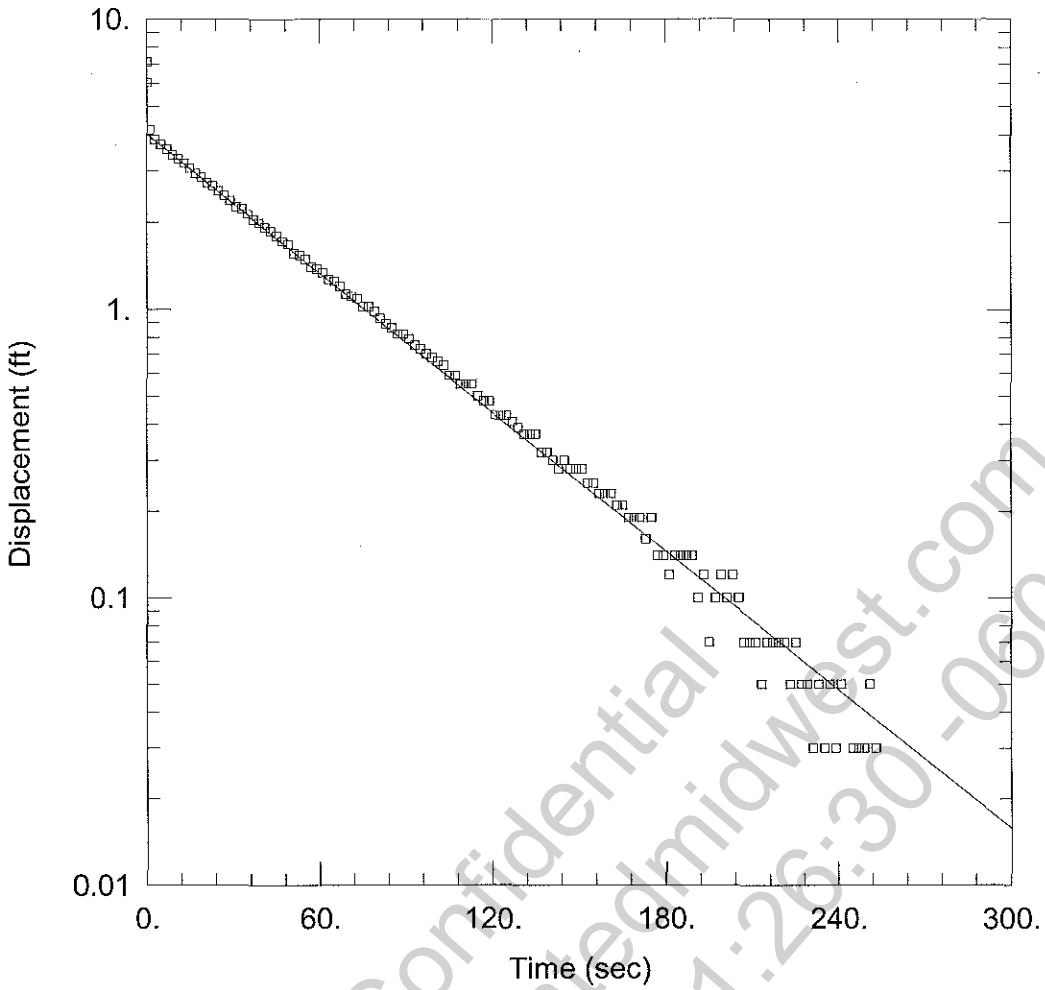
WELL DATA (CRA-MW-102D)

Initial Displacement: 7.13 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 13. ft
Screen Length: 10. ft
Wellbore Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.003056 cm/sec
y0 = 7.977 ft



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2024-03-04 11:26:30 -0600

CRA-MW-102D TEST-2

Data Set: N:\TRANSFER\37024aqt\102DT-2.aqt
Date: 01/13/05 Time: 13:24:11

PROJECT INFORMATION

Company: CRA
Client: Southworks Development L.L.C.
Project: 37024
Location: Chicago, Illinois
Test Well: CRA-MW-102D
Test Date: 12/16/04

AQUIFER DATA

Saturated Thickness: 13. ft
Anisotropy Ratio (Kz/Kr): 1.

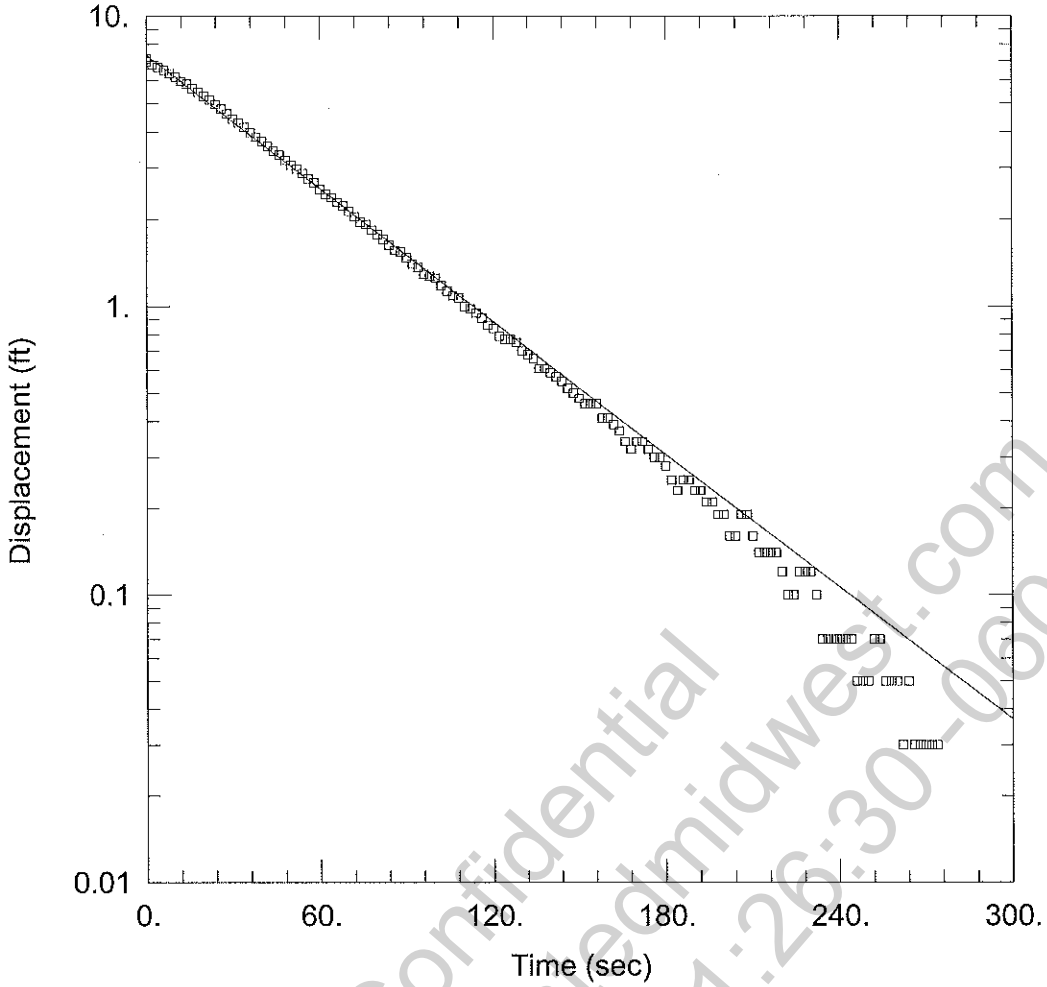
WELL DATA (CRA-MW-102D)

Initial Displacement: 7.13 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 13. ft
Screen Length: 10. ft
Wellbore Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.003732 cm/sec
y0 = 4.026 ft



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mellch@relatedmidwest.com
2024-03-04 11:26:30-0600

CRA-MW-102D TEST-3

Data Set: N:\TRANSFER\37024aqt\102DT-3.aqt
Date: 01/13/05 Time: 13:24:21

PROJECT INFORMATION

Company: CRA
Client: Southworks Development L.L.C.
Project: 37024
Location: Chicago, Illinois
Test Well: CRA-MW-102D
Test Date: 12/16/04

AQUIFER DATA

Saturated Thickness: 13. ft
Anisotropy Ratio (Kz/Kr): 1.

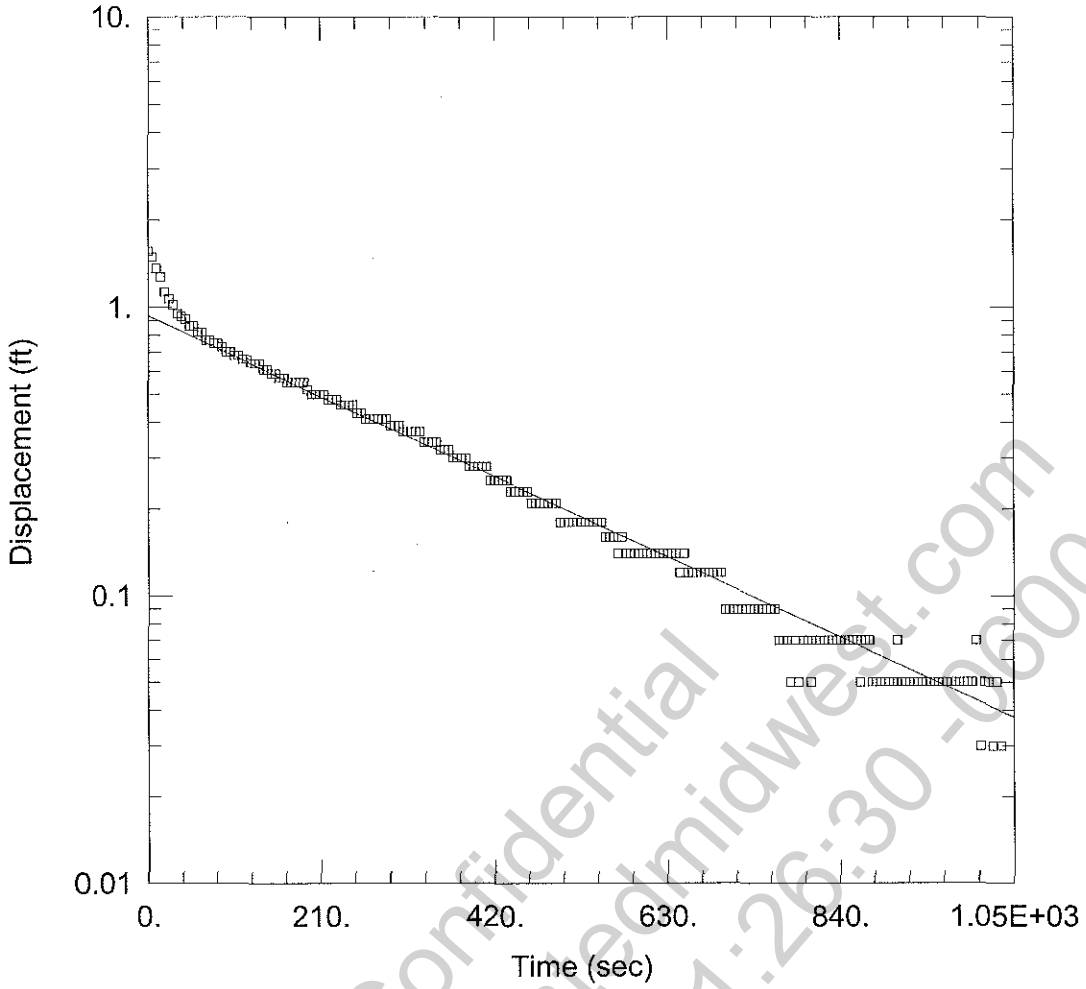
WELL DATA (CRA-MW-102D)

Initial Displacement: 7.13 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 13. ft
Screen Length: 10. ft
Wellbore Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.003564 cm/sec
y0 = 7.341 ft



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mellch@elatedmidwest.com
2024-05-04 11:26:30 -0600

CRA-MW-104,TEST-1

Data Set: N:\TRANSFER\37024aqt\104ST-1.aqt
Date: 01/13/05 Time: 13:25:21

PROJECT INFORMATION

Company: CRA
Client: Southworks Development L.L.C.
Project: 37024
Location: Chicago, Illinois
Test Well: CRA-MW-104D
Test Date: 12/16/04

AQUIFER DATA

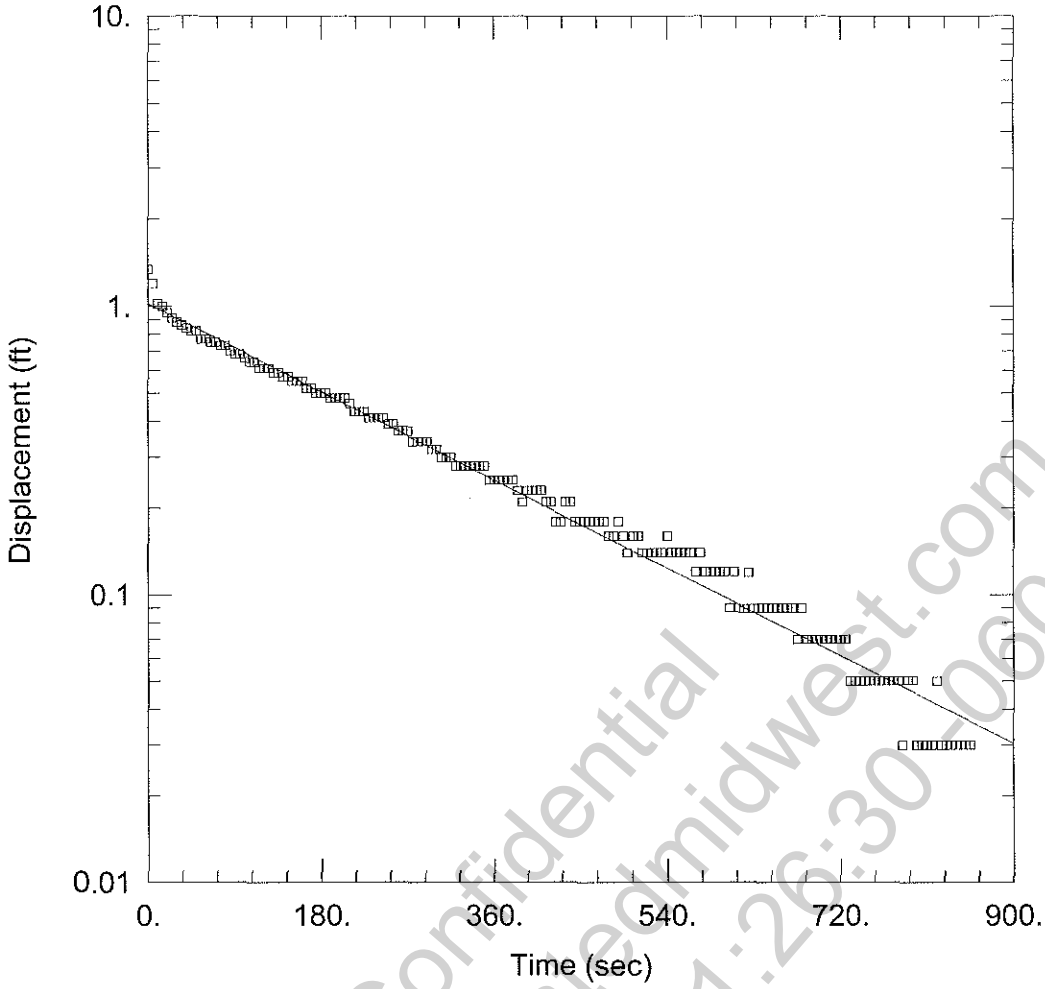
Saturated Thickness: 21. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (CRA-MW-104)

Initial Displacement: 1.56 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 21. ft
Screen Length: 10. ft
Wellbore Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0005326 cm/sec
y0 = 0.9323 ft



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mellch@relatedmidwest.com
2024-03-04 11:26:30 -0600

CRA-MW-104,TEST-2

Data Set: N:\TRANSFER\37024aqt\104ST-2.aqt
Date: 01/13/05 Time: 13:25:30

PROJECT INFORMATION

Company: CRA
Client: Southworks Development L.L.C.
Project: 37024
Location: Chicago, Illinois
Test Well: CRA-MW-104D
Test Date: 12/16/04

AQUIFER DATA

Saturated Thickness: 21. ft
Anisotropy Ratio (Kz/Kr): 1.

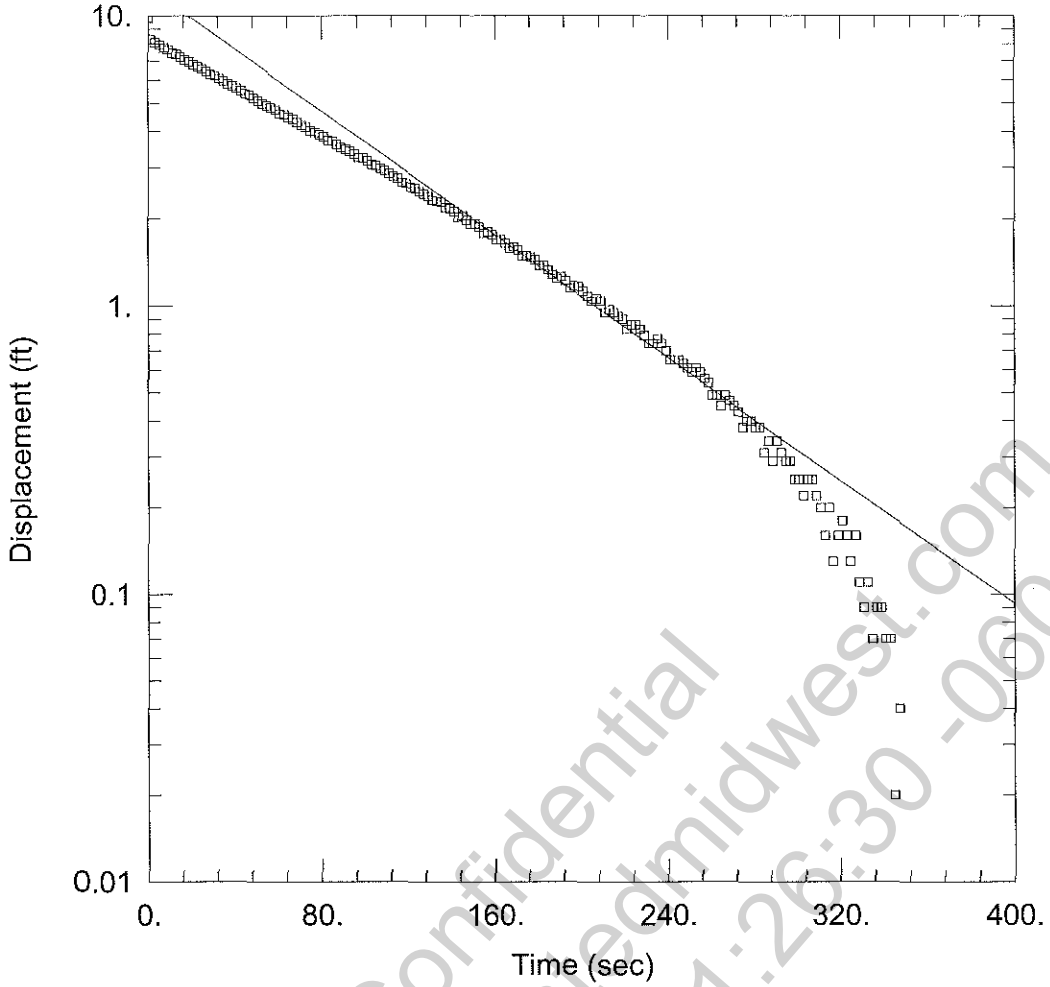
WELL DATA (CRA-MW-104)

Initial Displacement: 1.34 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 21. ft
Screen Length: 10. ft
Wellbore Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0006813 cm/sec
y0 = 1.02 ft



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2024-03-04 11:26:30 -0600

CRA-MW-104D TEST-1

Data Set: N:\TRANSFER\37024aqt\104DT-1.aqt
Date: 01/13/05 Time: 13:24:48

PROJECT INFORMATION

Company: CRA
Client: Southworks Development L.L.C.
Project: 37024
Location: Chicago, Illinois
Test Well: CRA-MW-104D
Test Date: 12/16/04

AQUIFER DATA

Saturated Thickness: 21. ft
Anisotropy Ratio (Kz/Kr): 1.

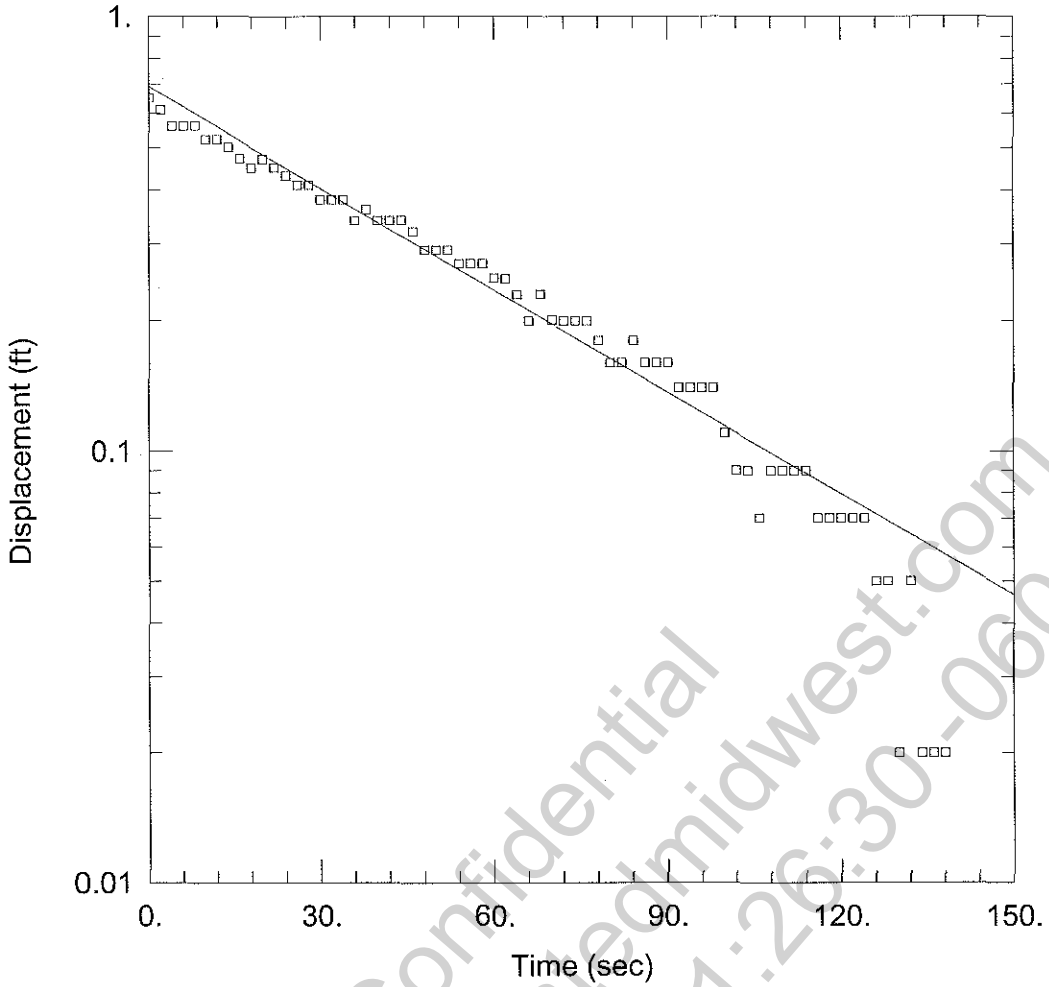
WELL DATA (CRA-MW-104D)

Initial Displacement: 9.8 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 21. ft
Screen Length: 10. ft
Wellbore Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.002137 cm/sec
y0 = 12.51 ft



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mellch@relatedmidwest.com
2024-03-04 11:26:30 -0600

CRA-MW-104D TEST-2

Data Set: N:\TRANSFER\37024aqt\104DT-2.aqt
Date: 01/13/05 Time: 13:24:58

PROJECT INFORMATION

Company: CRA
Client: Southworks Development L.L.C.
Project: 37024
Location: Chicago, Illinois
Test Well: CRA-MW-104D
Test Date: 12/16/04

AQUIFER DATA

Saturated Thickness: 21. ft
Anisotropy Ratio (Kz/Kr): 1.

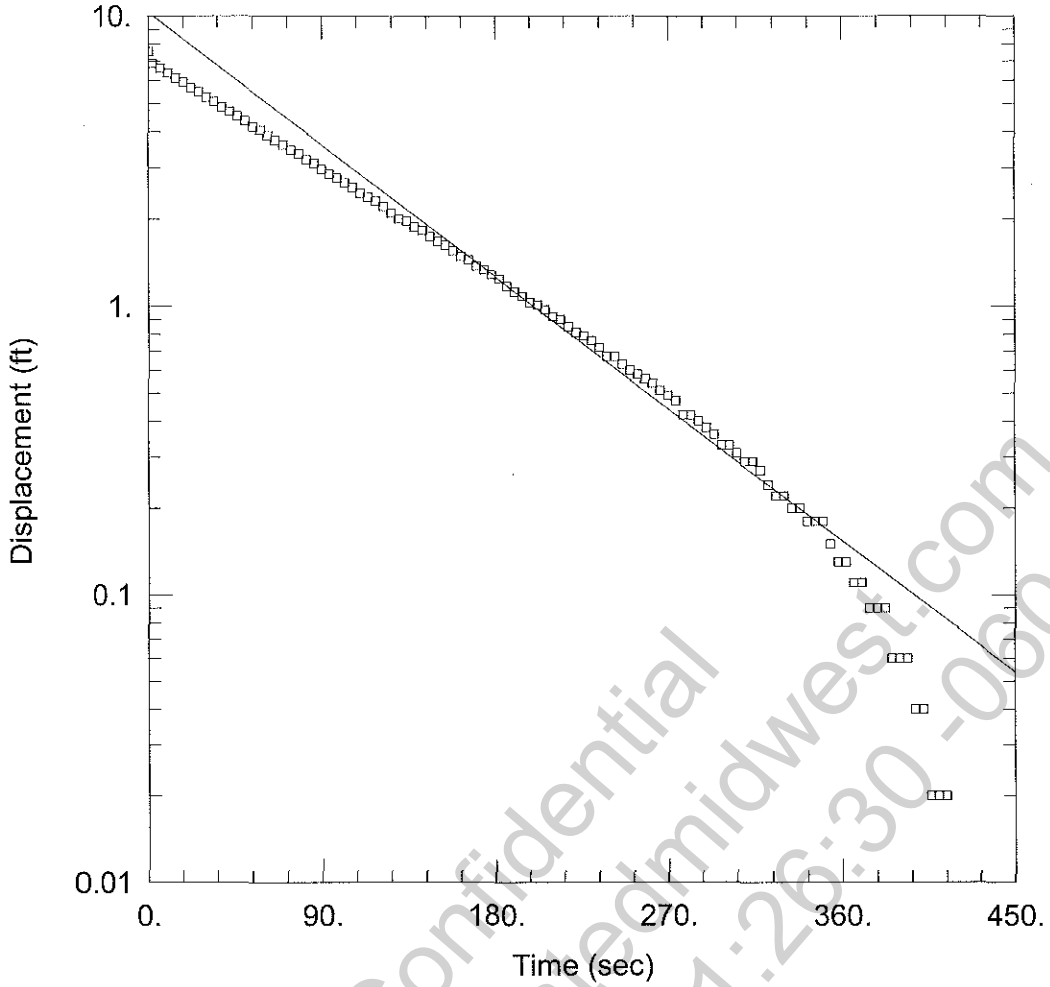
WELL DATA (CRA-MW-104D)

Initial Displacement: 0.65 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 21. ft
Screen Length: 10. ft
Wellbore Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.003139 cm/sec
y0 = 0.6904 ft



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2024-03-04 11:26:30 -0600

CRA-MW-104D TEST-3

Data Set: N:\TRANSFER\37024aqt\104DT-3.aqt
Date: 01/13/05 Time: 13:25:10

PROJECT INFORMATION

Company: CRA
Client: Southworks Development L.L.C.
Project: 37024
Location: Chicago, Illinois
Test Well: CRA-MW-104D
Test Date: 12/16/04

AQUIFER DATA

Saturated Thickness: 21. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (CRA-MW-104D)

Initial Displacement: 7.53 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 21. ft
Screen Length: 10. ft
Wellbore Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.002035 cm/sec
y0 = 10.27 ft

Waste Technology, Inc.
03/24/97
sw-slug.wk1

Table A
Slug Test Data
Conducted on 06/21/95
South Works

WELL NO.	WELL DEPTH (ft.)	DEPTH TO WATER (ft.)	WATER INTERVAL (ft.)	INSTAN-TANEOUS DEPTH (ft.)	SLUG DEPTH (ft.)	DISPLACE-MENT Yo (ft.)	HYDRAULIC CONDUCTIVITY K (ft./min.)	HYDRAULIC CONDUCTIVITY K (cm./sec.)	HYDRAULIC CONDUCTIVITY K (ft./day)
MW-3	20.42	14.53	5.89	19.0	18.0	1.411	0.0070680	0.003591	10.18
MW-3 Dup.	20.42	14.53	5.89	19.0	18.0	1.065	0.0060510	0.003074	8.71
MW-6	24.99	19.86	5.13	25.0	24.0		*	*	*
MW-7	25.43	20.77	4.66	25.0	24.0	1.072	0.0025620	0.001301	3.69
MW-7D	45.67	21.88	23.77	35.0	29.0	1.099	0.0006229	0.000316	0.90
MW-8	20.71	13.86	6.85	20.0	19.0	0.3454	0.0265900	0.013508	38.29
MW-9	22.15	16.47	5.68	21.5	20.5		*	*	*
MW-9D	68.50	22.38	45.12	35.0	20.0	0.309	0.0000441	0.000022	0.06
MW-10	23.48	15.44	8.04	22.5	21.5	1.616	0.0024000	0.001219	3.46
						Average	0.0064769	0.003290	9.33

* - Recovery too fast to determine hydraulic conductivity.

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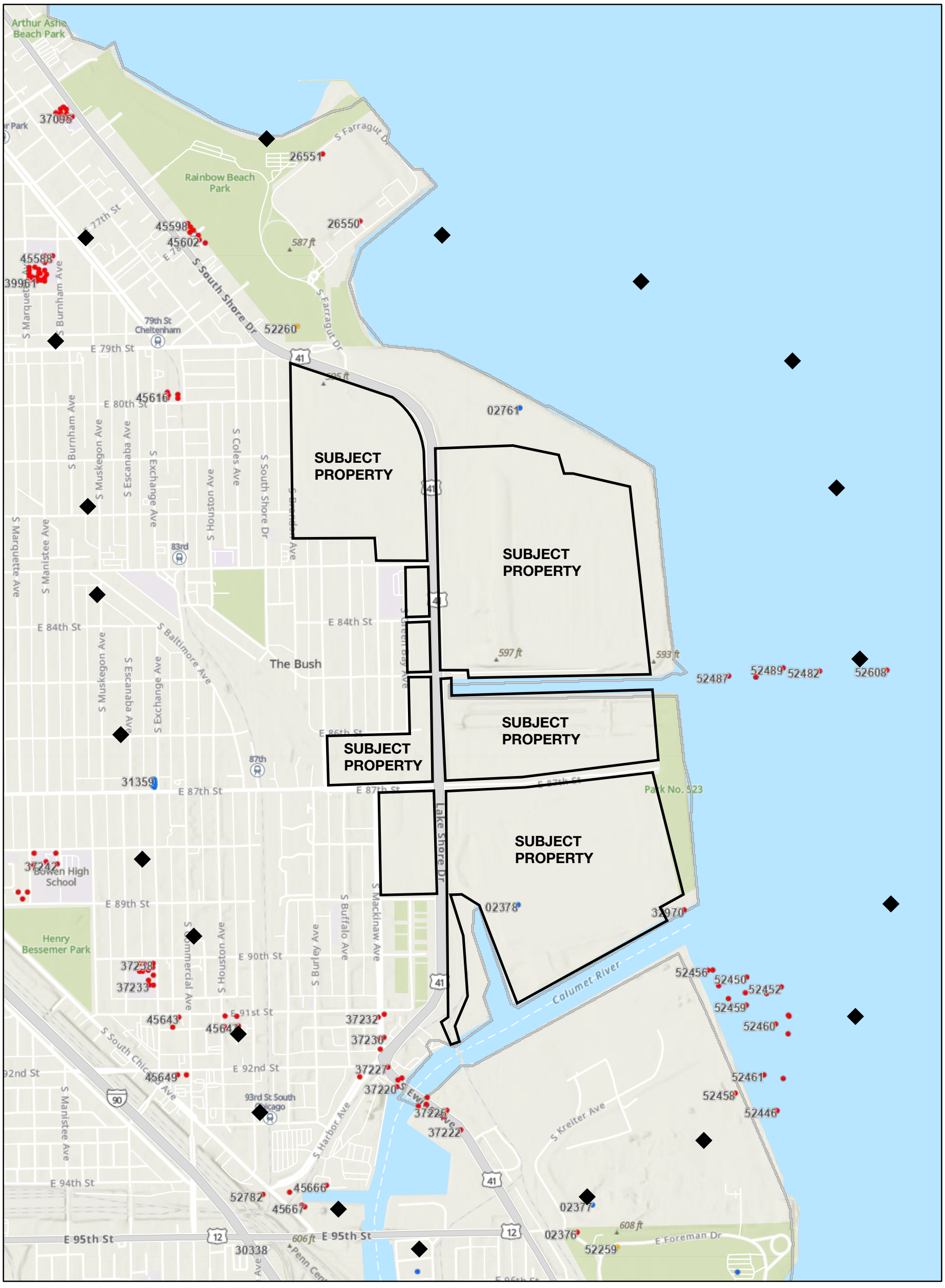
2024-03-04 11:26:30-0600

SWAP Well Survey Map

8080 South Lake Shore Drive / Chicago, IL



4/9/2025, 11:59:20 AM

Labels - Short API

Water and Related Wells

- Water
- Engineering
- Stratigraphic
- Observation
- Counties

◆ Represents point approximately 2,500 feet from nearest property boundary

1:18,056

0 0.13 0.25 0.5 mi

0 0.23 0.45 0.9 km

Esri, NASA, NGA, USGS, FEMA
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
Illinois State Geological Survey
DPWS, BOL, IEPA

Web AppBuilder for ArcGIS

Well Survey Results
8080 South Lake Shore Drive / Chicago, IL

API Number	Status	Owner	Well Name	Driller	Date Drilled	Total Depth	Notes
120310237800	WATER	Illinois Steel Co.	2	--	1/1/1930	1680	Wells associated with former U.S. Steel South Works facility and no longer present
120310276100	WATER	Illinois Steel Co	3	--	1/1/1930	1660	
120313134700	MONIT	Clark OIl & Refining	MW-1	Rock & Soil Drilling Corp.	3/25/1991	13	--
120313134800	MONIT	Clark Oil & Refining	MW-2	Rock & Soil Drilling Corp.	3/25/1991	13	--
120313134900	MONIT	Clark Oil & Refining	MW-3	Rock & Soil Drilling Corp.	3/25/1991	13	--
120313135000	MONIT	Clark Oil & Refining	MW-4	Rock & Soil Drilling Corp.	3/25/1991	13	--
120313135100	MONIT	Clark Oil & Refining	MW-5	Rock & Soil Drilling Corp.	3/25/1991	13	--
120313135200	MONIT	Clark Oil & Refining	MW-6	Rock & Soil Drilling Corp.	3/25/1991	13	--
120313135300	MONIT	Clark Oil & Refining	MW-7	Rock & Soil Drilling Corp.	3/25/1991	13	--
120313135500	MONIT	Clark Oil & Refining	MW-9	Rock & Soil Drilling Corp.	7/15/1992	15	--
120313135600	MONIT	Clark Oil & Refining	MW-10	Rock & Soil Drilling Corp.	7/15/1992	15	--
120313135700	MONIT	Clark Oil & Refining	MW-11	Rock & Soil Drilling Corp.	7/15/1993	15	--
120313135800	MONIT	Clark Oil & Refining	MW-13	Rock & Soil Drilling Corp.	7/15/1992	15	--
120313135900	MONIT	Clark Oil & Refining	MW-14	Rock & Soil Drilling Corp.	7/15/1992	15	--
120312655000	ENG	South Water Plant	WRB-7	Chicago Pub. Works Dept.	12/1/1971	38	--
120312656000	ENG	S. Ewing Ave. over Calumet River	EB-1	IL Department of Transportation	9/1/1973	99	--
120313297000	ENG	Calumet Harbor	CH-541	Corp of Engr	3/31/1977	108	--
120313615600	ENG	MSD Chicago-Calumet Sys	C-14	KeiferAssociates	--	486	--
120313722000	ENG	S. Ewing Ave. over Calumet River	EB-3	--	9/1/1973	112	--
120313722100	ENG	S. Ewing Ave. over Calumet River	EB-4	--	9/1/1973	111	--
120313722200	ENG	S. Ewing Ave. Viaduct & Approaches	EA-4	--	1/1/1974	58	--
120313722300	ENG	S. Ewing Ave. Viaduct & Approaches	EA-5	--	10/31/1973	107	--
120313722500	ENG	S. Ewing Ave. Viaduct & Approaches	EA-8	--	10/31/1973	102	--
120313722600	ENG	S. Ewing Ave. Viaduct & Approaches	EA-6	--	12/1/1973	58	--
120313722700	ENG	S. Ewing Ave. Viaduct & Approaches	EA-9	--	1/1/1974	58	--
120313722800	ENG	S. Ewing Ave. Viaduct & Approaches	EA-10	--	2/1/1974	58	--
120313722900	ENG	S. Ewing Ave. Viaduct & Approaches	EA-11	--	1/1/1974	108	--
120313723000	ENG	S. Ewing Ave. Viaduct & Approaches	EA-12	--	1/1/1974	107	--

API Number	Status	Owner	Well Name	Driller	Date Drilled	Total Depth	Notes
120313723100	ENG	S. Ewing Ave. Viaduct & Approaches	EA-13	--	1/1/1974	58	--
120313723200	ENG	S. Ewing Ave. Viaduct & Approaches	EA-14	--	1/1/1974	58	--
120314559600	ENG	3012 E. 78th St. Chicago	1	Smith & Knapp	3/1/1928	31	--
120314559700	ENG	3012 E. 78th St. Chicago	2	Smith & Knapp	3/1/1928	32	--
120314559800	ENG	3012 E. 78th St. Chicago	3	Smith & Knapp	3/1/1928	33	--
120314559900	ENG	3012 E. 78th St. Chicago	4	Smith & Knapp	3/1/1928	30	--
120314560000	ENG	3019 E. 78th St. Chicago	1	Smith & Knapp	9/1/1928	20	--
120314560100	ENG	3019 E. 78th St. Chicago	2	Smith & Knapp	9/1/1928	19	--
120314560200	ENG	3019 E. 78th St. Chicago	3	Smith & Knapp	9/1/1928	26	--
120314561200	ENG	Commonwealth Edison Company	1	Smith & Knapp	8/1/1925	13	--
120314561300	ENG	Commonwealth Edison Company	2	Smith & Knapp	8/1/1925	9	--
120314561400	ENG	Commonwealth Edison Company	3	Smith & Knapp	8/1/1925	10	--
120314561500	ENG	Commonwealth Edison Company	4	Smith & Knapp	8/1/1925	10	--
120314561600	ENG	Commonwealth Edison Company	5	Smith & Knapp	8/1/1925	10	--
120314564600	ENG	New YMCA Building	165-3	Smith & Knapp	3/1/1925	35	--
120314564700	ENG	New YMCA Building	165-4	Smith & Knapp	3/1/1925	35	--
120314566600	ENG	Rock Island Elevators	2	--	7/1/1931	35	--
120315226000	ENG	Rainbow Beach	COOK-23-07	Illinois State Geological Survey	6/1/2023	9	--
120315244400	ENG	Calumet Harbor Confined Disposal	CAL-17-03	Strata Earth Services, LLC	2/23/2017	30	--
120315244700	ENG	Calumet River & Harbor Sediment	B-1	Camp Dresser & McKee	3/13/2006	19	--
120315244800	ENG	Calumet River & Harbor Sediment	B-2	Camp Dresser & McKee	3/14/2006	19	--
120315244900	ENG	Calumet River & Harbor Sediment	B-3	Camp Dresser & McKee	3/14/2006	24	--
120315245000	ENG	Calumet River & Harbor Sediment	B-4	Camp Dresser & McKee	3/13/2006	29	--
120315245100	ENG	Calumet River & Harbor Sediment	B-5	Camp Dresser & McKee	3/14/2006	19	--
120315245200	ENG	Calumet River & Harbor Sediment	B-6	Camp Dresser & McKee	3/14/2006	32	--
120315245300	ENG	Calumet River & Harbor Sediment	B-7	Camp Dresser & McKee	3/14/2006	19	--
120315245400	ENG	Calumet River & Harbor Sediment	B-8	Camp Dresser & McKee	3/13/2006	17	--
120315245500	ENG	Calumet River & Harbor Sediment	B-9	Camp Dresser & McKee	3/13/2006	22	--
120315245600	ENG	Calumet River & Harbor Sediment	G-1	Camp Dresser & McKee	3/12/2006	19	--
120315245700	ENG	Calumet River & Harbor Sediment	G-2	Camp Dresser & McKee	3/13/2006	16	--

API Number	Status	Owner	Well Name	Driller	Date Drilled	Total Depth	Notes
120315245800	ENG	Calumet River & Harbor Sediment	G-3	Camp Dresser & McKee	3/12/2006	29	--
120315245900	ENG	Calumet River & Harbor Sediment	P-1	Camp Dresser & McKee	3/13/2006	6	--
120315246000	ENG	Calumet River & Harbor Sediment	P-2	Camp Dresser & McKee	3/14/2006	6	--
120315246100	ENG	Calumet River & Harbor Sediment	P-3	Camp Dresser & McKee	3/13/2006	7	--
120315248100	ENG	CFD Air/Sea Rescue Facility	B-1	Scheede-Hampton Associates, Ir	10/2/2001	50	--
120315248300	ENG	CFD Air/Sea Rescue Facility	B-3	Scheede-Hampton Associates, Ir	10/3/2001	50	--
120315248700	ENG	Calumet Harbor Breakwater	CHB-1-87	SEECO Consultants Inc.	9/18/1987	44	--
120315248900	ENG	Calumet Harbor Breakwater	CHB-3-87	SEECO Consultants Inc.	9/21/1987	43	--

State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

1701 First Avenue, Maywood, IL 60153

January 10, 1995

Ms. Margaret A. Zak
Environmental Project Engineer
U.S. Steel Environmental Affairs
600 Grant Street
Pittsburgh, PA 15219-2749

RECEIVED
JAN 13 1995
IEPA-DLPC

Refer to: 0316515061/COOK
Chicago/U.S. Steel Southworks
Superfund/Technical Reports

Dear Margaret:

The Illinois Environmental Protection Agency (Agency) has reviewed the request submitted by Waste Technology, Inc. (WTI) on behalf of U.S. Steel (USX) to change the classification of groundwater beneath the site from Class I to Class II. The request is dated November 10, 1994 and was received by the Agency on November 14, 1994. Documentation reviewed in support of the request included boring logs, sieve test analysis and a table of fill thickness encountered beneath the site in which groundwater appears to reside.

Originally, groundwater was classified as Class I due to the presence of sand layers greater than five feet in thickness. Further study of these layers has been attempted with sieve test.

In the request, USX states. "...Section 620.210(a)(2) states, in part, that in a Class I: Potable Resource Groundwater, aquifer soils '...that contain 12 percent or less of fines (i.e. fines which pass through a No. 200 sieve...', partially defines a Class I aquifer." Groundwater that is located 10 feet or more below the land surface and within unconsolidated sand, gravel or sand and gravel which is five feet or more and 12 percent or less of fines partially defines a Class I aquifer. Three of the five samples taken for sieve analysis were from intervals described in the field as clay and all five of the samples were described on the graphs as clays, not sand, gravel or sand and gravel. Therefore, the sieve analyses performed are irrelevant in regards to groundwater classification.

Groundwater located in fill material is <u>not</u> a Class I groundwater since it does not meet 620.210(a)(1) through (3) and is not a geologic material (therefore, it cannot meet 620.210(a)(4)). Groundwater which is located in fill material, defined as clean earthen materials, slag, ash, clean demolition debris, or other similar materials, is a Class II groundwater. Pursuant to 620.420(a)(4), groundwater within the upper 10 feet of parent material under such fill is also Class II. Standards for inorganic chemical constituents listed in 620.420(a)(2), barium or Ph do not apply.

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The Agency recommends that the groundwater located within the fill material and within the upper 10 feet of parent material under such fill material be classified as a Class II groundwater. Such a classification does not extend to groundwater located below the aforementioned.

Evidence that the layer of unconsolidated sand, gravel or sand and gravel, which is five feet or more in thickness, has greater than 12 percent fines would be reason to request the Agency to revaluate the classification of the deeper groundwater.

Please inform the Agency at least fourteen days in advance of any additional field activities to allow Agency personnel to be on-site or to split samples. If you have any questions, please feel free to contact me at my direct line 708/338-7891.

Sincerely,

Vickie Moy

Vickie Moy, Project Manager
States Site Unit
Remedial Project Management Section
Bureau of Land

bcc: Bureau File
Region File
Bob Ohara
Tom Hornshaw
Stan Black
Heather Young

Appendix E Fate and Transport Modeling Spreadsheets

Spreadsheet 1
RBCA Equations to Determine the Predicted Extent of Contaminant Migration in Groundwater
8080 South Lake Shore Drive / Chicago, IL

Source Area:	**MW-202**			
Contaminant of Concern:	Benzene		Naphthalene	
Field Measured or Site-Specific Parameters:	**Class I**	**Class II**	**Class I**	**Class II**
Data source:	Table No. 11		Table No. 11	
Conc. at the Source -- $C_{(source)}$ - mg/L:	0.0555 ppm		0.861 ppm	
Dist. along centerline of gw plume in feet:	**128.00**	**49.00**	**48.00**	**37.00**
direction of gw flow (X) - cm:	**3,901**	**1,494**	**1,463**	**1,128**
Source width perpendicular to gw flow direction in horiz. plane (Sw) - cm:	440 feet 13,411 cm		440 feet 13,411 cm	
Hydraulic Conductivity (K) - cm/day:	5.40E-03 cm/s 4.67E+02 cm/day		5.40E-03 cm/s 4.67E+02 cm/day	
Hydraulic Gradient (i) - cm/cm:	0.0019		0.0019	
Chemical-Specific Parameters:				
First Order Degradation Constant (λ) - day-1: Chemical Specific (35 IAC 742, App. C, Table E)	9.00E-04		2.70E-03	
Default Parameters:				
Source width perpendicular to gw flow direction in vertical plane (Sd) - cm:	200		200	
η (Total Soil Porosity) - Lpore/Lsoil 0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay = 0.36, or Calculated	0.43		0.43	
RBCA Calculations:	**Class I**	**Class II**	**Class I**	**Class II**
Longitudinal Dispersivity (α_x) - cm **R-16** α_x=0.10*X :	390.14	149.35	146.30	112.78
Transverse Dispersivity (α_y) - cm **R-17** $\alpha_y=\alpha_x/3$:	130.05	49.78	48.77	37.59
Vertical Dispersivity (α_z) - cm **R-18** $\alpha_z=\alpha_x/20$:	19.51	7.47	7.32	5.64
Error Functions: $B_1 = S_w/(4*SQRT(\alpha_y*X))$	4.71	12.30	12.55	16.28
From App. C, Table G enter corresp. error function value -- erf(B_1):	1.000000	1.000000	1.000000	1.000000
$B_2 = S_d/(2*SQRT(\alpha_z*X))$	0.36	0.95	0.97	1.25
From App. C, Table G enter corresp. error function value -- erf(B_2):	0.391791	0.819468	0.828380	0.923842
Specific Discharge (U) - cm/day **R-19** $U=K*i/\Theta_T$:	2.062		2.062	
Intermediate Solutions for R-26:	**Class I**	**Class II**	**Class I**	**Class II**
$a = X/2*\alpha_x =$	5	5	5	5
$b = SQRT(1+(4*\lambda*\alpha_x/U) =$	1.297	1.123	1.329	1.261
$c = (1-b)*a =$	-1.483	-0.614	-1.645	-1.306
$d = EXP(c) =$	0.227	0.541	0.193	0.271
$C_{(x)} = d*erf(B2)*erf(B1)*C_{(source)} =$	0.00493385	0.0246061	0.13760769	0.2154039
	Class I	**Class II**	**Class I**	**Class II**
R-26 Concentration at distance(X) from the source -- $C_{(x)}$ - mg/L:	**0.0049**	**0.0246**	**0.1376**	**0.2154**
	Class I	**Class II**	**Class I**	**Class II**
Tier 1 GROs Class I / Class II Groundwater (mg/L):	0.005	0.025	0.140	0.220

Spreadsheet 2
RBCA Equations to Determine Predicted Concentrations in Groundwater at Nearest Surface Water Body
8080 South Lake Shore Drive / Chicago, IL

Source Area:	**MW-202**	
Contaminant of Concern:	Benzene	Naphthalene
Field Measured or Site-Specific Parameters:		
Data source:	Table No. 11	Table No. 11
Conc. at the Source -- $C_{(source)}$ - mg/L:	0.05550 ppm	0.86100 ppm
Dist. from source point to nearest surface water body along centerline of gw plume in direction of gw flow (X) - cm:	**150 feet** **4,572 cm**	**150 feet** **4,572 cm**
Source width perpendicular to gw flow direction in horiz. plane (Sw) - cm:	440 feet 13,411 cm	440 feet 13,411 cm
Hydraulic Conductivity (K) - cm/day:	5.40E-03 cm/s 4.67E+02 cm/day	5.40E-03 cm/s 4.67E+02 cm/day
Hydraulic Gradient (i) - cm/cm:	0.0019	0.0019
Chemical-Specific Parameters:		
First Order Degradation Constant (λ) - day-1: Chemical Specific (35 IAC 742, App. C, Table E)	9.00E-04	2.70E-03
Default Parameters:		
Source width perpendicular to gw flow direction in vertical plane (Sd) - cm:	200	200
η (Total Soil Porosity) - Lpore/Lsoil 0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay = 0.36, or Calculated	0.43	0.43
RBCA Calculations:		
Longitudinal Dispersivity (α_x) - cm **R-16** α_x=0.10*X :	457.20	457.20
Transverse Dispersivity (α_y) - cm **R-17** $\alpha_y=\alpha_x/3$:	152.40	152.40
Vertical Dispersivity (α_z) - cm **R-18** $\alpha_z=\alpha_x/20$:	22.86	22.86
Error Functions: $B_1 = S_w/(4*SQRT(\alpha_y*X))$	4.02	4.02
From App. C, Table G enter corresp. error function value -- erf(B_1):	1.000000	1.000000
$B_2 = S_d/(2*SQRT(\alpha_z*X))$	0.31	0.31
From App. C, Table G enter corresp. error function value -- erf(B_2):	0.338212	0.338212
Specific Discharge (U) - cm/day **R-19** $U=K*i/\Theta_T$:	2.062	2.062
Intermediate Solutions for R-26:		
$a = X/2*\alpha_x =$	5	5
$b = SQRT(1+(4*\lambda*\alpha_x/U)) =$	1.341	1.843
$c = (1-b)*a =$	-1.705	-4.213
$d = EXP(c) =$	0.182	0.015
$C_{(x)} = d*erf(B2)*erf(B1)*C_{(source)} =$	0.00341130	0.00431031
R-26 Concentration at distance(X) from the source -- $C_{(x)}$ - mg/L:	**0.003 ppm**	**0.004 ppm**
Water Quality Standards (35 IAC 302) or IEPA's Derived Water Quality Criteria- Chronic Aquatic Toxicity or Human Health (mg/L):	0.310 ppm	0.068 ppm

Spreadsheet 3
SSL Equations to Determine Predicted Contaminant Migration from Soil to Groundwater
8080 S. Lake Shore Drive, Chicago, IL

Source Area (Soil Boring ID):	SB2	SB17	SB18	SB19	SB20	SB21	SB21	SB27	SB28	SB30	SB34	SB51	SB53	SB54	SB54	SB56	SB61	SB61	SB67
Soil Sample Interval:	3-5	0-3	0-3	0-3	3-5	0-3	12.5-15	5-7.5	0-3	12.5-15	5-7.5	0-3	0-3	0-3	10-12.5	5-7.5	0-3	17.5-19	3-5
Contaminant of Concern:	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone	2-Hexanone
Field Measured or Site-Specific Parameters:	1																		
C_{soil} (Detected Soil Concentration) - mg/kg Site Specific	0.27	0.18	0.17	0.19	0.22	0.18	0.18	0.22	0.17	0.39	0.19	0.31	0.23	0.23	0.23	0.21	0.17	0.37	0.27
foc (Organic Carbon Content) - g/g Surface Soil = 0.006, Subsurface Soil = 0.002, or Site Specific	0.002	0.006	0.006	0.006	0.002	0.006	0.002	0.002	0.006	0.002	0.002	0.006	0.006	0.006	0.002	0.002	0.006	0.002	0.002
cm/s:	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03
K (Hydraulic Conductivity) - m/yr Site Specific	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94
i (Hydraulic Gradient) - m/m Site Specific	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
ft:	670	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	770	3,490	3,490	1,220
L (Source Length Parallel to Groundwater Flow) - m Site Specific	204.22	1063.75	1063.75	1063.75	1063.75	1063.75	1063.75	1063.75	1063.75	1063.75	1063.75	1063.75	1063.75	1063.75	1063.75	234.70	1063.75	1063.75	371.86
Chemical-Specific Parameters:																			
H' (Henry's Law Constant) - unitless Chemical Specific (TACO Appendix C, Table E)	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03	3.80E-03
Koc (Organic Carbon Partition Coef) - cm3/g or L/kg Chemical Specific (TACO Appendix C, Table E or Table I)	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01
Default Parameters:																			
Θw (Water Filled Porosity) - Lwater/Lsoil Calculated (SSL Equation S20) or Surface Soil (top 1 meter) = 0.15, Subsurface Soil (below 1 meter) = 0.30, Gravel = 0.20, Sand = 0.18, Silt = 0.16, or Clay = 0.17	0.30	0.15	0.15	0.15	0.30	0.15	0.30	0.30	0.15	0.30	0.30	0.15	0.15	0.15	0.30	0.30	0.15	0.30	0.30
Θa (Air Filled Porosity) - Lpore/Lsoil Calculated (SSL Equation S21) or Surface Soil (top 1 meter) = 0.28, Subsurface Soil (below 1 meter) = 0.13, Gravel = 0.05, Sand = 0.14, Silt = 0.24, or Clay = 0.19	0.13	0.28	0.28	0.28	0.13	0.28	0.13	0.13	0.28	0.13	0.13	0.28	0.28	0.28	0.13	0.13	0.28	0.13	0.13
ρb (Dry Soil Bulk Density) - kg/L or g/cm3 1.5 or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7 or Site Specific	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
d (Mixing Zone Depth) - m Calculated (Equation S25) or 2 m (TACO Appx C, Table B)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
I (Infiltration Rate) - m/yr 0.3 (TACO Appendix C, Table B)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
SSL Equations																			
DF (Dilution Factor) - unitless **S22** DF = 20 (default) or 1 + [(K*i*d)/(I*L)]	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Soil-Water Partition Coefficient (Kd) - cm^3/g **S19** $K_d=K_{oc}*f_{oc}$	3.00E-02	9.00E-02	9.00E-02	9.00E-02	3.00E-02	9.00E-02	3.00E-02	3.00E-02	9.00E-02	3.00E-02	3.00E-02	9.00E-02	9.00E-02	9.00E-02	3.00E-02	3.00E-02	9.00E-02	3.00E-02	3.00E-02
S17 $C_{soil}=C_w*(K_d+(\Theta_w+\Theta_a*H')/\rho_b)$ - solved for C_w (C_w = Target Soil Leachate Concentration)	1.172	0.944	0.891	0.996	0.955	0.944	0.781	0.955	0.891	1.693	0.825	1.626	1.206	1.206	0.999	0.912	0.891	1.606	1.172
Predicted Groundwater Concentration Associated with Maximum Detected Soil Concentration - mg/L **S18** C_w = DF*GW_{obj} - solved for GW_{obj}	**0.059**	**0.047**	**0.045**	**0.050**	**0.048**	**0.047**	**0.039**	**0.048**	**0.045**	**0.085**	**0.041**	**0.081**	**0.060**	**0.060**	**0.050**	**0.046**	**0.045**	**0.080**	**0.059**
Tier 1 GRO (mg/L): Class II Groundwater	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035

Spreadsheet 3
SSL Equations to Determine Predicted Contaminant Migration from Soil to Groundwater
8080 S. Lake Shore Drive, Chicago, IL

Source Area (Soil Boring ID):	SB2	SB30	SB51	SB61	B-2	SS-010 (0-0.5)	SS-012 (0-0.5)	B-2W20	SS-010E20	SS-010S20	SS-010W20	SS-113	SB41	SB48	SB64	SB115	SB115	SB124
Soil Sample Interval:	3-5	12.5-15	0-3	17.5-19	7-9	0-3	0-3	7-9	0-3	0-3	0-3	0-3	0-3	5-7.5	0-3	0-3	5-7.5	0-3
Contaminant of Concern:	Methylene Chloride	Methylene Chloride	Methylene Chloride	Methylene Chloride	BaA	BaA	BaA	BaA	BaA	BaA	BaA	BaA	BaA	BaA	BaA	BaA	BaA	BaA
Field Measured or Site-Specific Parameters:	2																	
C_{soil} (Detected Soil Concentration) - mg/kg Site Specific	0.35	0.28	0.23	0.27	16	13	13	56	27	38	31	87	60	19	12	28	39	31.1
foc (Organic Carbon Content) - g/g Surface Soil = 0.006, Subsurface Soil = 0.002, or Site Specific	0.002	0.002	0.006	0.002	0.002	0.006	0.006	0.002	0.006	0.006	0.006	0.006	0.006	0.002	0.006	0.006	0.002	0.006
cm/s:	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03
K (Hydraulic Conductivity) - m/yr Site Specific	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94
i (Hydraulic Gradient) - m/m Site Specific	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
ft:	670	1,555	1,555	1,555	940	1,100	1,035	940	1,100	1,100	1,100	660	1,375	1,375	1,320	910	910	660
L (Source Length Parallel to Groundwater Flow) - m Site Specific	204.22	473.96	473.96	473.96	286.51	335.28	315.47	286.51	335.28	335.28	335.28	201.17	419.10	419.10	402.34	277.37	277.37	201.17
Chemical-Specific Parameters:																		
H' (Henry's Law Constant) - unitless Chemical Specific (TACO Appendix C, Table E)	9.02E-02	9.02E-02	9.02E-02	9.02E-02	1.39E-04	1.39E-04	1.39E-04	1.39E-04	1.39E-04	1.39E-04	1.39E-04	1.39E-04	1.39E-04	1.39E-04	1.39E-04	1.39E-04	1.39E-04	1.39E-04
Koc (Organic Carbon Partition Coef) - cm3/g or L/kg Chemical Specific (TACO Appendix C, Table E or Table I)	1.30E+01	1.30E+01	1.30E+01	1.30E+01	4.00E+05	4.00E+05	4.00E+05	4.00E+05	4.00E+05	4.00E+05	4.00E+05	4.00E+05	4.00E+05	4.00E+05	4.00E+05	4.00E+05	4.00E+05	4.00E+05
Default Parameters:																		
Θw (Water Filled Porosity) - Lwater/Lsoil Calculated (SSL Equation S20) or Surface Soil (top 1 meter) = 0.15, Subsurface Soil (below 1 meter) = 0.30, Gravel = 0.20, Sand = 0.18, Silt = 0.16, or Clay = 0.17	0.30	0.30	0.15	0.30	0.30	0.15	0.15	0.30	0.15	0.15	0.15	0.15	0.15	0.30	0.15	0.15	0.30	0.15
Θa (Air Filled Porosity) - Lpore/Lsoil Calculated (SSL Equation S21) or Surface Soil (top 1 meter) = 0.28, Subsurface Soil (below 1 meter) = 0.13, Gravel = 0.05, Sand = 0.14, Silt = 0.24, or Clay = 0.19	0.13	0.13	0.28	0.13	0.13	0.28	0.28	0.13	0.28	0.28	0.28	0.28	0.28	0.13	0.28	0.28	0.13	0.28
pb (Dry Soil Bulk Density) - kg/L or g/cm3 1.5 or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7 or Site Specific	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
d (Mixing Zone Depth) - m Calculated (Equation S25) or 2 m (TACO Appx C, Table B)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
I (Infiltration Rate) - m/yr 0.3 (TACO Appendix C, Table B)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
SSL Equations																		
DF (Dilution Factor) - unitless **S22** DF = 20 (default) or 1 + [(K*i*d)/(I*L)]	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Soil-Water Partition Coefficient (Kd) - cm^3/g **S19** $K_d=K_{oc}*f_{oc}$	2.60E-02	2.60E-02	7.80E-02	2.60E-02	8.00E+02	2.40E+03	2.40E+03	8.00E+02	2.40E+03	2.40E+03	2.40E+03	2.40E+03	2.40E+03	8.00E+02	2.40E+03	2.40E+03	8.00E+02	2.40E+03
S17 $C_{soil}=C_w*(K_d+(\Theta_w+\Theta_a*H')/\rho_b)$ - solved for C_w (C_w = Target Soil Leachate Concentration)	1.497	1.198	1.180	1.155	0.020	0.005	0.005	0.070	0.011	0.016	0.013	0.036	0.025	0.024	0.005	0.012	0.049	0.013
Predicted Groundwater Concentration Associated with Maximum Detected Soil Concentration - mg/L **S18** $C_w = DF*GW_{obj}$ - solved for GW_{obj}	**0.075**	**0.060**	**0.059**	**0.058**	**0.00100**	Predicted value < applicable Tier 1 GRO **0.00027**	Predicted value < applicable Tier 1 GRO **0.00027**	**0.00350**	Predicted value < applicable Tier 1 GRO **0.00056**	**0.00079**	Predicted value < applicable Tier 1 GRO **0.000646**	**0.00181**	**0.00125**	**0.00119**	Predicted value < applicable Tier 1 GRO **0.00025**	Predicted value < applicable Tier 1 GRO **0.00058**	**0.00244**	Predicted value < applicable Tier 1 GRO **0.000648**
Tier 1 GRO (mg/L): Class II Groundwater	0.05	0.05	0.05	0.05	0.00065	0.00065	0.00065	0.00065	0.00065	0.00065	0.00065	0.00065	0.00065	0.00065	0.00065	0.00065	0.00065	0.00065

Spreadsheet 3
SSL Equations to Determine Predicted Contaminant Migration from Soil to Groundwater
8080 S. Lake Shore Drive, Chicago, IL

Source Area (Soil Boring ID):	SS-113	B-2W20	SS-010E20	SS-010S20	SS-010W20	SS-113	SB41	SB115	SB115	SB124	SB41	SB48	SB87	SB115	SS-113	SB41	SB55
Soil Sample Interval:	0-3	7-9	0-3	0-3	0-3	0-3	0-3	0-3	5-7.5	0-3	0-3	5-7.5	0-3	5-7.5	0-3	0-3	0-3
Contaminant of Concern:	BaP	BbF	BbF	BbF	BbF	BbF	BbF	BbF	BbF	BbF	Carbazole	Carbazole	Carbazole	Carbazole	DahA	DahA	Dieldrin
Field Measured or Site-Specific Parameters:	3																
C_{soil} (Detected Soil Concentration) - mg/kg Site Specific	110	74	44	64	50	130	77	27	34	33.2	12	4.8	3.8	11	90	10	0.51
foc (Organic Carbon Content) - g/g Surface Soil = 0.006, Subsurface Soil = 0.002, or Site Specific	0.006	0.002	0.006	0.006	0.006	0.006	0.006	0.006	0.002	0.006	0.006	0.002	0.006	0.002	0.006	0.006	0.006
cm/s:	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03
K (Hydraulic Conductivity) - m/yr Site Specific	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94	1702.94
i (Hydraulic Gradient) - m/m Site Specific	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
ft:	660	940	1,100	1,100	1,100	660	1,375	910	910	660	1,375	1,375	775	910	660	1,375	990
L (Source Length Parallel to Groundwater Flow) - m Site Specific	201.17	286.51	335.28	335.28	335.28	201.17	419.10	277.37	277.37	201.17	419.10	419.10	236.22	277.37	201.17	419.10	301.75
Chemical-Specific Parameters:																	
H' (Henry's Law Constant) - unitless Chemical Specific (TACO Appendix C, Table E)	4.50E-05	4.55E-03	4.55E-03	4.55E-03	4.55E-03	4.55E-03	4.55E-03	4.55E-03	4.55E-03	4.55E-03	3.60E-06	3.60E-06	3.60E-06	3.60E-06	6.10E-07	6.10E-07	6.20E-04
Koc (Organic Carbon Partition Coef) - cm3/g or L/kg Chemical Specific (TACO Appendix C, Table E or Table I)	7.90E+05	1.05E+06	1.05E+06	1.05E+06	1.05E+06	1.05E+06	1.05E+06	1.05E+06	1.05E+06	1.05E+06	4.00E+03	4.00E+03	4.00E+03	4.00E+03	2.50E+06	2.50E+06	2.50E+04
Default Parameters:																	
Θw (Water Filled Porosity) - Lwater/Lsoil Calculated (SSL Equation S20) or Surface Soil (top 1 meter) = 0.15, Subsurface Soil (below 1 meter) = 0.30, Gravel = 0.20, Sand = 0.18, Silt = 0.16, or Clay = 0.17	0.15	0.30	0.15	0.15	0.15	0.15	0.15	0.15	0.30	0.15	0.15	0.30	0.15	0.30	0.15	0.15	0.15
Θa (Air Filled Porosity) - Lpore/Lsoil Calculated (SSL Equation S21) or Surface Soil (top 1 meter) = 0.28, Subsurface Soil (below 1 meter) = 0.13, Gravel = 0.05, Sand = 0.14, Silt = 0.24, or Clay = 0.19	0.28	0.13	0.28	0.28	0.28	0.28	0.28	0.28	0.13	0.28	0.28	0.13	0.28	0.13	0.28	0.28	0.28
ρb (Dry Soil Bulk Density) - kg/L or g/cm3 1.5 or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7 or Site Specific	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
d (Mixing Zone Depth) - m Calculated (Equation S25) or 2 m (TACO Appx C, Table B)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
I (Infiltration Rate) - m/yr 0.3 (TACO Appendix C, Table B)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
SSL Equations																	
DF (Dilution Factor) - unitless **S22** DF = 20 (default) or 1 + [(K*i*d)/(I*L)]	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Soil-Water Partition Coefficient (Kd) - cm^3/g **S19** $K_d=K_{oc}*f_{oc}$	4.74E+03	2.10E+03	6.30E+03	6.30E+03	6.30E+03	6.30E+03	6.30E+03	6.30E+03	2.10E+03	6.30E+03	2.40E+01	8.00E+00	2.40E+01	8.00E+00	1.50E+04	1.50E+04	1.50E+02
S17 $C_{soil}=C_w*(K_d+(\Theta_w+\Theta_a*H')/\rho_b)$ - solved for C_w (C_w = Target Soil Leachate Concentration)	0.023	0.035	0.007	0.010	0.008	0.021	0.012	0.004	0.016	0.005	0.498	0.585	0.158	1.341	0.006	0.001	0.003
Predicted Groundwater Concentration Associated with Maximum Detected Soil Concentration - mg/L **S18** $C_w = DF*GW_{obj}$ - solved for GW_{obj}	Predicted value < applicable Tier 1 GRO **0.0012**	**0.0018**	Predicted value < applicable Tier 1 GRO **0.0003**	Predicted value < applicable Tier 1 GRO **0.0005**	Predicted value < applicable Tier 1 GRO **0.0004**	**0.0010**	Predicted value < applicable Tier 1 GRO **0.0006**	Predicted value < applicable Tier 1 GRO **0.0002**	Predicted value < applicable Tier 1 GRO **0.0008**	Predicted value < applicable Tier 1 GRO **0.0003**	**0.025**	**0.029**	Predicted value < applicable Tier 1 GRO **0.008**	**0.067**	Predicted value < applicable Tier 1 GRO **0.00030**	Predicted value < applicable Tier 1 GRO **0.0000**	Predicted value < applicable Tier 1 GRO **0.0002**
Tier 1 GRO (mg/L): Class II Groundwater	0.002	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.02	0.02	0.02	0.02	0.0015	0.0015	0.045

Spreadsheet 4
RBCA Equations to Determine the Predicted Extent of Contaminant Migration in Groundwater
8080 S. Lake Shore Drive, Chicago, IL

Source Area (Soil Boring ID):	SB2	SB17	SB18	SB19	SB20	SB21	SB21	SB27	SB28	SB30	SB34	SB51	SB53	SB54	SB54	SB56	SB61	SB61	SB67
Soil Sample Interval:	**3-5**	**0-3**	**0-3**	**0-3**	**3-5**	**0-3**	**12.5-15**	**5-7.5**	**0-3**	**12.5-15**	**5-7.5**	**0-3**	**0-3**	**0-3**	**10-12.5**	**5-7.5**	**0-3**	**17.5-19**	**3-5**
Contaminant of Concern:	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**
Field Measured or Site-Specific Parameters:	1																		
Data source:	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3
Conc. at the Source -- $C_{(source)}$ - mg/L:	0.059	0.047	0.045	0.050	0.048	0.047	0.039	0.048	0.045	0.085	0.041	0.081	0.060	0.060	0.050	0.046	0.045	0.080	0.059
Dist. along centerline of gw plume (ft)	**79.00**	**59.00**	**53.00**	**63.00**	**60.00**	**59.00**	**41.00**	**60.00**	**53.00**	**121.00**	**46.00**	**116.00**	**82.00**	**82.00**	**64.00**	**55.00**	**53.00**	**114.00**	**79.00**
in direction of gw flow (X) - cm:	**2,408**	**1,798**	**1,615**	**1,920**	**1,829**	**1,798**	**1,250**	**1,829**	**1,615**	**3,688**	**1,402**	**3,536**	**2,499**	**2,499**	**1,951**	**1,676**	**1,615**	**3,475**	**2,408**
Source width perpendicular to gw flow direction in	670	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490	770	3,490	3,490	1,220
horiz. plane (Sw) - cm:	20,422	106,375	106,375	106,375	106,375	106,375	106,375	106,375	106,375	106,375	106,375	106,375	106,375	106,375	106,375	23,470	106,375	106,375	37,186
cm/s:	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03
Hydraulic Conductivity (K) - cm/day:	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02
Hydraulic Gradient (i) - cm/cm:	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
Chemical-Specific Parameters:																			
First Order Degradation Constant (λ) - day-1:																			
Chemical Specific (35 IAC 742, App. C, Table E)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Default Parameters:																			
Source width perpendicular to gw flow direction in vertical plane (Sd) - cm:	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
η (Total Soil Porosity) - Lpore/Lsoil																			
0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay = 0.36, or Calculated	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
RBCA Calculations:																			
Longitudinal Dispersivity (α_x) - cm																			
R-16 α_x=0.10*X :	240.79	179.83	161.54	192.02	182.88	179.83	124.97	182.88	161.54	368.81	140.21	353.57	249.94	249.94	195.07	167.64	161.54	347.47	240.79
Transverse Dispersivity (α_y) - cm																			
R-17 α_y=α_x/3 :	80.26	59.94	53.85	64.01	60.96	59.94	41.66	60.96	53.85	122.94	46.74	117.86	83.31	83.31	65.02	55.88	53.85	115.82	80.26
Vertical Dispersivity (α_z) - cm																			
R-18 α_z=α_x/20 :	12.04	8.99	8.08	9.60	9.14	8.99	6.25	9.14	8.08	18.44	7.01	17.68	12.50	12.50	9.75	8.38	8.08	17.37	12.04
Error Functions:																			
B_1 = S_w/(4*SQRT(α_y*X))	11.61	81.00	90.17	75.86	79.65	81.00	116.56	79.65	90.17	39.49	103.89	41.20	58.28	58.28	74.67	19.17	90.17	41.92	21.15
From App. C, Table G enter corresp. error function value -- erf(B_1):	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
B_2 = S_d/(2*SQRT(α_z*X))	0.59	0.79	0.88	0.74	0.77	0.79	1.13	0.77	0.88	0.38	1.01	0.40	0.57	0.57	0.72	0.84	0.88	0.41	0.59
From App. C, Table G enter corresp. error function value -- erf(B_2):	0.593796	0.733926	0.784304	0.702374	0.725876	0.733926	0.890493	0.725876	0.784304	0.412380	0.846262	0.428377	0.576408	0.576408	0.694761	0.767144	0.784304	0.435105	0.593796
Specific Discharge (U) - cm/day																			
R-19 U=K*i/Θ_T :	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062
Intermediate Solutions for R-26:																			
a = X/2*α_x =	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
b = SQRT (1+(4*λ*α_x/U) =	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
c = (1-b)*a =	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
d = EXP(c) =	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
$C_{(x)}$ = d*erf(B2)*erf(B1)*$C_{(source)}$ =	0.0348034	0.0346356	0.0349568	0.0349881	0.0346662	0.0346356	0.0347955	0.0346662	0.0349568	0.0349126	0.0349043	0.0348165	0.0347581	0.0347581	0.0346884	0.0349717	0.0349568	0.0349475	0.0348034
R-26 Concentration at distance(X) from the source -- $C_{(x)}$ - mg/L:	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**
Tier 1 GRO Class II Groundwater (mg/L):	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035

Spreadsheet 4
RBCA Equations to Determine the Predicted Extent of Contaminant Migration in Groundwater
8080 S. Lake Shore Drive, Chicago, IL

Source Area (Soil Boring ID):	SB2	SB30	SB51	SB61	B-2	B-2W20	SS-010S20	SS-113	SB41	SB48	SB115
Soil Sample Interval:	3-5	12.5-15	0-3	17.5-19	7-9	7-9	0-3	0-3	0-3	5-7.5	5-7.5
Contaminant of Concern:	Methylene Chloride	Methylene Chloride	Methylene Chloride	Methylene Chloride	BaA	BaA	BaA	BaA	BaA	BaA	BaA
Field Measured or Site-Specific Parameters:	2										
Data source:	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3
Conc. at the Source -- $C_{(source)}$ - mg/L:	0.075	0.060	0.059	0.058	0.00100	0.00350	0.00079	0.00181	0.00125	0.00119	0.00244
Dist. along centerline of gw plume (ft)	**3.00**	**2.00**	**1.00**	**1.00**	**42.00**	**118.00**	**26.00**	**76.00**	**55.00**	**52.00**	**94.00**
in direction of gw flow (X) - cm:	**91**	**61**	**30**	**30**	**1,280**	**3,597**	**792**	**2,316**	**1,676**	**1,585**	**2,865**
Source width perpendicular to gw flow direction in	670	1,555	1,555	1,555	940	940	1,100	660	1,375	1,375	910
horiz. plane (Sw) - cm:	20,422	47,396	47,396	47,396	28,651	28,651	33,528	20,117	41,910	41,910	27,737
cm/s:	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03
Hydraulic Conductivity (K) - cm/day:	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02
Hydraulic Gradient (i) - cm/cm:	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
Chemical-Specific Parameters:											
First Order Degradation Constant (λ) - day-1: Chemical Specific (35 IAC 742, App. C, Table E)	1.20E-02	1.20E-02	1.20E-02	1.20E-02	5.10E-04	5.10E-04	5.10E-04	5.10E-04	5.10E-04	5.10E-04	5.10E-04
Default Parameters:											
Source width perpendicular to gw flow direction in vertical plane (Sd) - cm:	200	200	200	200	200	200	200	200	200	200	200
η (Total Soil Porosity) - Lpore/Lsoil 0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay = 0.36, or Calculated	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
RBCA Calculations:											
Longitudinal Dispersivity (α_x) - cm **R-16** α_x=0.10*X :	9.14	6.10	3.05	3.05	128.02	359.66	79.25	231.65	167.64	158.50	286.51
Transverse Dispersivity (α_y) - cm **R-17** $\alpha_y=\alpha_x/3$:	3.05	2.03	1.02	1.02	42.67	119.89	26.42	77.22	55.88	52.83	95.50
Vertical Dispersivity (α_z) - cm **R-18** $\alpha_z=\alpha_x/20$:	0.46	0.30	0.15	0.15	6.40	17.98	3.96	11.58	8.38	7.92	14.33
Error Functions: $B_1 = S_w/(4*SQRT(\alpha_y*X))$	305.81	1064.64	2129.27	2129.27	30.65	10.91	57.93	11.89	34.23	36.21	13.26
From App. C, Table G enter corresp. error function value -- erf(B_1):	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
$B_2 = S_d/(2*SQRT(\alpha_z*X))$	15.47	23.20	46.40	46.40	1.10	0.39	1.78	0.61	0.84	0.89	0.49
From App. C, Table G enter corresp. error function value -- erf(B_2):	1.000000	1.000000	1.000000	1.000000	0.881784	0.421840	0.988388	0.612071	0.767144	0.793002	0.514855
Specific Discharge (U) - cm/day **R-19** $U=K*i/\Theta_T$:	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062
Intermediate Solutions for R-26:											
$a = X/2*\alpha_x =$	5	5	5	5	5	5	5	5	5	5	5
$b = SQRT(1+(4*\lambda*\alpha_x/U)) =$	1.101	1.069	1.035	1.035	1.061	1.164	1.038	1.109	1.080	1.076	1.133
$c = (1-b)*a =$	-0.507	-0.343	-0.174	-0.174	-0.307	-0.822	-0.192	-0.544	-0.399	-0.378	-0.665
$d = EXP(c) =$	0.603	0.710	0.840	0.840	0.735	0.439	0.825	0.581	0.671	0.685	0.514
$C_{(x)} = d*erf(B2)*erf(B1)*C_{(source)} =$	0.0450971	0.0424871	0.0495785	0.0484981	0.0006484	0.0006487	0.0006455	0.0006442	0.0006435	0.0006452	0.0006455
R-26 Concentration at distance(X) from the source -- $C_{(x)}$ - mg/L:	**0.045**	**0.042**	**0.050**	**0.048**	**0.00065**	**0.00065**	**0.00065**	**0.00064**	**0.00064**	**0.00065**	**0.00065**
Tier 1 GRO Class II Groundwater (mg/L):	0.05	0.05	0.05	0.05	0.00065	0.00065	0.00065	0.00065	0.00065	0.00065	0.00065

Spreadsheet 4
RBCA Equations to Determine the Predicted Extent of Contaminant Migration in Groundwater
8080 S. Lake Shore Drive, Chicago, IL

Source Area (Soil Boring ID):	B-2W20	SS-113	SB41	SB48	SB115	SB13	SB76	SB78	SB84	SB90	SB92	SB94	SB98	SB108
Soil Sample Interval:	**7-9**	**0-3**	**0-3**	**5-7.5**	**5-7.5**	**0-3**	**0-3**	**10-12.5**	**5-7.5**	**0-3**	**3-5**	**0-3**	**7.5-10**	**0-3**
Contaminant of Concern:	**BbF**	**BbF**	**Carbazole**	**Carbazole**	**Carbazole**	**Vanadium**	**Vanadium**	**Vanadium**	**Vanadium**	**Vanadium**	**Vanadium**	**Vanadium**	**Vanadium**	**Vanadium**
Field Measured or Site-Specific Parameters:	3													
Data source:	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Table No. 5	Table No. 5	Table No. 5	Table No. 5	Table No. 5	Table No. 5	Table No. 5	Table No. 5	Table No. 5
Conc. at the Source -- $C_{(source)}$ - mg/L:	0.0018	0.0010	0.025	0.029	0.067	0.12	0.12	0.13	0.14	0.16	0.14	0.12	0.17	0.11
Dist. along centerline of gw plume (ft)	**54.00**	**17.00**	**51.00**	**66.00**	**172.00**	**48.00**	**48.00**	**55.00**	**62.00**	**74.00**	**62.00**	**48.00**	**80.00**	**39.00**
in direction of gw flow (X) - cm:	**1,646**	**518**	**1,554**	**2,012**	**5,243**	**1,463**	**1,463**	**1,676**	**1,890**	**2,256**	**1,890**	**1,463**	**2,438**	**1,189**
Source width perpendicular to gw flow direction in	940	660	1,375	1,375	910	850	850	2,805	2,805	2,805	2,805	2,805	2,805	775
horiz. plane (Sw) - cm:	28,651	20,117	41,910	41,910	27,737	25,908	25,908	85,496	85,496	85,496	85,496	85,496	85,496	23,622
cm/s:	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03	5.40E-03
Hydraulic Conductivity (K) - cm/day:	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02	4.67E+02
Hydraulic Gradient (i) - cm/cm:	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
Chemical-Specific Parameters:														
First Order Degradation Constant (λ) - day-1:														
Chemical Specific (35 IAC 742, App. C, Table E)	5.70E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Default Parameters:														
Source width perpendicular to gw flow direction in														
vertical plane (Sd) - cm:	200	200	200	200	200	200	200	200	200	200	200	200	200	200
η (Total Soil Porosity) - Lpore/Lsoil														
0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay =														
0.36, or Calculated	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
RBCA Calculations:														
Longitudinal Dispersivity (α_x) - cm														
R-16 α_x=0.10*X :	164.59	51.82	155.45	201.17	524.26	146.30	146.30	167.64	188.98	225.55	188.98	146.30	243.84	118.87
Transverse Dispersivity (α_y) - cm														
R-17 $\alpha_y=\alpha_x/3$:	54.86	17.27	51.82	67.06	174.75	48.77	48.77	55.88	62.99	75.18	62.99	48.77	81.28	39.62
Vertical Dispersivity (α_z) - cm														
R-18 $\alpha_z=\alpha_x/20$:	8.23	2.59	7.77	10.06	26.21	7.32	7.32	8.38	9.45	11.28	9.45	7.32	12.19	5.94
Error Functions:														
$B_1 = S_w/(4*SQRT(\alpha_y*X))$	23.84	53.16	36.92	28.53	7.24	24.25	24.25	69.83	61.95	51.90	61.95	80.02	48.01	27.21
From App. C, Table G enter corresp. error function														
value -- erf(B_1):	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
$B_2 = S_d/(2*SQRT(\alpha_z*X))$	0.86	2.73	0.91	0.70	0.27	0.97	0.97	0.84	0.75	0.63	0.75	0.97	0.58	1.19
From App. C, Table G enter corresp. error function														
value -- erf(B_2):	0.775682	0.999887	0.801768	0.679872	0.297163	0.828380	0.828380	0.767144	0.710098	0.624767	0.710098	0.828380	0.587904	0.907525
Specific Discharge (U) - cm/day														
R-19 $U=K*i/\Theta_T$:	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062
Intermediate Solutions for R-26:														
$a = X/2*\alpha_x$ =	5	5	5	5	5	5	5	5	5	5	5	5	5	5
$b = SQRT(1+(4*\lambda*\alpha_x/U))$ =	1.087	1.028	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
c = (1-b)*a =	-0.436	-0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
d = EXP(c) =	0.647	0.868	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
$C_{(x)} = d*erf(B2)*erf(B1)*C_{(source)}$ =	0.0008836	0.0008957	0.0199610	0.0198987	0.0199316	0.0994056	0.0994056	0.0997287	0.0994137	0.0999627	0.0994137	0.0994056	0.0999437	0.0998277
R-26 Concentration at distance(X) from the source --														
$C_{(x)}$ - mg/L:	**0.0009**	**0.0009**	**0.02**	**0.02**	**0.02**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Tier 1 GRO Class II Groundwater (mg/L):	0.0009	0.0009	0.02	0.02	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Spreadsheet 5

RBCA Equations to Determine Predicted Concentrations in Groundwater at Nearest Surface Water Body

8080 S. Lake Shore Drive, Chicago, IL

Source Area (Soil Boring ID):	SB2	SB17	SB18	SB19	SB20	SB21	SB21	SB27	SB28	SB30	SB34	SB51	SB53	SB54	SB54	SB56	SB61	SB61	SB67
Soil Sample Interval:	**3-5**	**0-3**	**0-3**	**0-3**	**3-5**	**0-3**	**12.5-15**	**5-7.5**	**0-3**	**12.5-15**	**5-7.5**	**0-3**	**0-3**	**0-3**	**10-12.5**	**5-7.5**	**0-3**	**17.5-19**	**3-5**
Contaminant of Concern:	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**	**2-Hexanone**
Field Measured or Site-Specific Parameters:	1																		
Data source:	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3
Conc. at the Source -- $C_{(source)}$ - mg/L:	0.059	0.047	0.045	0.050	0.048	0.047	0.039	0.048	0.045	0.085	0.041	0.081	0.060	0.060	0.050	0.046	0.045	0.080	0.059
Dist. (ft) from source point to nearest surface water body along centerline of gw plume in direction of gw flow (X) - cm:	**330** **10,058**	**80** **2,438**	**80** **2,438**	**80** **2,438**	**80** **2,438**	**80** **2,438**	**80** **2,438**	**80** **2,438**	**80** **2,438**	**80** **2,438**	**80** **2,438**	**80** **2,438**	**80** **2,438**	**80** **2,438**	**80** **2,438**	**1,700** **51,816**	**80** **2,438**	**80** **2,438**	**475** **14,478**
Source width perpendicular to gw flow direction (ft) in horiz. plane (Sw) - cm:	670 20,422	3,490 106,375	3,490 106,375	3,490 106,375	3,490 106,375	3,490 106,375	3,490 106,375	3,490 106,375	3,490 106,375	3,490 106,375	3,490 106,375	3,490 106,375	3,490 106,375	3,490 106,375	3,490 106,375	770 23,470	3,490 106,375	3,490 106,375	1,220 37,186
Hydraulic Conductivity (K) - cm/day:	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02
Hydraulic Gradient (i) - cm/cm:	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
Chemical-Specific Parameters:																			
First Order Degradation Constant (λ) - day-1: Chemical Specific (35 IAC 742, App. C, Table E)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Default Parameters:																			
Source width perpendicular to gw flow direction in vertical plane (Sd) - cm:	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
η (Total Soil Porosity) - Lpore/Lsoil 0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay = 0.36, or Calculated	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
RBCA Calculations:																			
Longitudinal Dispersivity (α_x) - cm **R-16** α_x=0.10*X :	1005.84	243.84	243.84	243.84	243.84	243.84	243.84	243.84	243.84	243.84	243.84	243.84	243.84	243.84	243.84	5181.60	243.84	243.84	1447.80
Transverse Dispersivity (α_y) - cm **R-17** $\alpha_y=\alpha_x/3$:	335.28	81.28	81.28	81.28	81.28	81.28	81.28	81.28	81.28	81.28	81.28	81.28	81.28	81.28	81.28	1727.20	81.28	81.28	482.60
Vertical Dispersivity (α_z) - cm **R-18** $\alpha_z=\alpha_x/20$:	50.29	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	12.19	259.08	12.19	12.19	72.39
Error Functions: $B_1 = S_w/(4*SQRT(\alpha_y*X))$	2.78	59.74	59.74	59.74	59.74	59.74	59.74	59.74	59.74	59.74	59.74	59.74	59.74	59.74	59.74	0.62	59.74	59.74	3.52
From App. C, Table G enter corresp. error function value -- erf(B_1):	0.999916	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	0.619577	1.000000	1.000000	1.000000
$B_2 = S_d/(2*SQRT(\alpha_z*X))$	0.14	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.03	0.58	0.58	0.10
From App. C, Table G enter corresp. error function value -- erf(B_2):	0.157611	0.587904	0.587904	0.587904	0.587904	0.587904	0.587904	0.587904	0.587904	0.587904	0.587904	0.587904	0.587904	0.587904	0.587904	0.030789	0.587904	0.587904	0.109871
Specific Discharge (U) - cm/day **R-19** $U=K*i/\Theta_T$:	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062
Intermediate Solutions for R-26:																			
a = X/2*α_x =	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
b = SQRT (1+(4*λ*α_x/U) =	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
c = (1-b)*a =	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
d = EXP(c) =	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
$C_{(x)}$ = d*erf(B2)*erf(B1)*$C_{(source)}$ =	0.0092371	0.0277445	0.0262031	0.0292859	0.0280769	0.0277445	0.0229720	0.0280769	0.0262031	0.0497728	0.0242483	0.0477822	0.0354513	0.0354513	0.0293532	0.0008696	0.0262031	0.0472203	0.0064397
R-26 Concentration at distance(X) from the source -- $C_{(x)}$ - mg/L:	**0.009**	**0.028**	**0.026**	**0.029**	**0.028**	**0.028**	**0.023**	**0.028**	**0.026**	**0.050**	**0.024**	**0.048**	**0.035**	**0.035**	**0.029**	**0.001**	**0.026**	**0.047**	**0.006**
Water Quality Standards (35 IAC 302) or IEPA's Derived Water Quality Criteria- Chronic Aquatic Toxicity or Human Health (mg/L):	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95

Spreadsheet 5
RBCA Equations to Determine Predicted Concentrations in Groundwater at Nearest Surface Water Body
8080 S. Lake Shore Drive, Chicago, IL

Source Area (Soil Boring ID):	SB2	SB30	SB51	SB61	B-2	B-2W20	SS-010S20	SS-113	SB41	SB48	SB115
Soil Sample Interval:	3-5	12.5-15	0-3	17.5-19	7-9	7-9	0-3	0-3	0-3	5-7.5	5-7.5
Contaminant of Concern:	Methylene Chloride	Methylene Chloride	Methylene Chloride	Methylene Chloride	BaA	BaA	BaA	BaA	BaA	BaA	BaA
Field Measured or Site-Specific Parameters:	2										
Data source:	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3
Conc. at the Source -- $C_{(source)}$ - mg/L:	0.075	0.060	0.059	0.058	0.00100	0.00350	0.00079	0.00181	0.00125	0.00119	0.00244
Dist. (ft) from source point to nearest surface water body along centerline of gw plume in direction of gw flow (X) - cm:	**330 10,058**	**110 3,353**	**110 3,353**	**110 3,353**	**1,100 33,528**	**1,100 33,528**	**275 8,382**	**1,100 33,528**	**1,200 36,576**	**1,200 36,576**	**25 762**
Source width perpendicular to gw flow direction (ft) in horiz. plane (Sw) - cm:	670 20,422	1,555 47,396	1,555 47,396	1,555 47,396	940 28,651	940 28,651	1,100 33,528	660 20,117	1,375 41,910	1,375 41,910	910 27,737
Hydraulic Conductivity (K) - cm/day:	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02
Hydraulic Gradient (i) - cm/cm:	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
Chemical-Specific Parameters:											
First Order Degradation Constant (λ) - day-1: Chemical Specific (35 IAC 742, App. C, Table E)	1.20E-02	1.20E-02	1.20E-02	1.20E-02	5.10E-04	5.10E-04	5.10E-04	5.10E-04	5.10E-04	5.10E-04	5.10E-04
Default Parameters:											
Source width perpendicular to gw flow direction in vertical plane (Sd) - cm:	200	200	200	200	200	200	200	200	200	200	200
η (Total Soil Porosity) - Lpore/Lsoil 0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay = 0.36, or Calculated	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
RBCA Calculations:											
Longitudinal Dispersivity (α_x) - cm **R-16** α_x=0.10*X :	1005.84	335.28	335.28	335.28	3352.80	3352.80	838.20	3352.80	3657.60	3657.60	76.20
Transverse Dispersivity (α_y) - cm **R-17** $\alpha_y=\alpha_x/3$:	335.28	111.76	111.76	111.76	1117.60	1117.60	279.40	1117.60	1219.20	1219.20	25.40
Vertical Dispersivity (α_z) - cm **R-18** $\alpha_z=\alpha_x/20$:	50.29	16.76	16.76	16.76	167.64	167.64	41.91	167.64	182.88	182.88	3.81
Error Functions: $B_1 = S_w/(4*SQRT(\alpha_y*X))$	2.78	19.36	19.36	19.36	1.17	1.17	5.48	0.82	1.57	1.57	49.84
From App. C, Table G enter corresp. error function value -- erf(B_1):	0.999916	1.000000	1.000000	1.000000	0.902039	0.902039	1.000000	0.754722	0.973507	0.973507	1.000000
$B_2 = S_d/(2*SQRT(\alpha_z*X))$	0.14	0.42	0.42	0.42	0.04	0.04	0.17	0.04	0.04	0.04	1.86
From App. C, Table G enter corresp. error function value -- erf(B_2):	0.157611	0.449170	0.449170	0.449170	0.047567	0.047567	0.188589	0.047567	0.043607	0.043607	0.991327
Specific Discharge (U) - cm/day **R-19** $U=K*i/\Theta_T$:	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062
Intermediate Solutions for R-26:											
$a = X/2*\alpha_x$ =	5	5	5	5	5	5	5	5	5	5	5
$b = SQRT(1+(4*\lambda*\alpha_x/U))$ =	4.942	2.968	2.968	2.968	2.078	2.078	1.353	2.078	2.149	2.149	1.037
c = (1-b)*a =	-19.708	-9.838	-9.838	-9.838	-5.390	-5.390	-1.763	-5.390	-5.746	-5.746	-0.185
d = EXP(c) =	0.000	0.000	0.000	0.000	0.005	0.005	0.172	0.005	0.003	0.003	0.831
$C_{(x)} = d*erf(B2)*erf(B1)*C_{(source)}$ =	0.0000000	0.0000014	0.0000014	0.0000014	0.0000002	0.0000007	0.0000256	0.0000003	0.0000002	0.0000002	0.0020076
R-26 Concentration at distance(X) from the source -- $C_{(x)}$ - mg/L:	**0.000**	**0.000**	**0.000**	**0.000**	**0.00000**	**0.00000**	**0.00003**	**0.00000**	**0.00000**	**0.00000**	Predicted value exceeds the objective **0.00201**
Water Quality Standards (35 IAC 302) or IEPA's Derived Water Quality Criteria- Chronic Aquatic Toxicity or Human Health (mg/L):	0.33	0.33	0.33	0.33	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016

Spreadsheet 5
RBCA Equations to Determine Predicted Concentrations in Groundwater at Nearest Surface Water Body
8080 S. Lake Shore Drive, Chicago, IL

Source Area (Soil Boring ID):	SS-113	SS-113	SB41	SB48	SB115	SB13	SB76	SB78	SB84	SB90	SB92	SB94	SB98	SB108
Soil Sample Interval:	**0-3**	**0-3**	**0-3**	**5-7.5**	**5-7.5**	**0-3**	**0-3**	**10-12.5**	**5-7.5**	**0-3**	**3-5**	**0-3**	**7.5-10**	**0-3**
Contaminant of Concern:	**BaP**	**BbF**	**Carbazole**	**Carbazole**	**Carbazole**	**Vanadium**	**Vanadium**	**Vanadium**	**Vanadium**	**Vanadium**	**Vanadium**	**Vanadium**	**Vanadium**	**Vanadium**
Field Measured or Site-Specific Parameters:	3													
Data source:	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Spreadsheet 3	Table No. 5	Table No. 5	Table No. 5	Table No. 5	Table No. 5	Table No. 5	Table No. 5	Table No. 5	Table No. 5
Conc. at the Source -- $C_{(source)}$ - mg/L:	0.0012	0.0010	0.025	0.029	0.067	0.12	0.12	0.13	0.14	0.16	0.14	0.12	0.17	0.11
Dist. (ft) from source point to nearest surface water body along centerline of gw plume in direction of gw flow (X) - cm:	**1,100 33,528**	**1,100 33,528**	**1,200 36,576**	**1,200 36,576**	**25 762**	**550 16,764**	**550 16,764**	**550 16,764**	**550 16,764**	**550 16,764**	**550 16,764**	**550 16,764**	**550 16,764**	**550 16,764**
Source width perpendicular to gw flow direction (ft) in horiz. plane (Sw) - cm:	940 28,651	660 20,117	1,375 41,910	1,375 41,910	910 27,737	850 25,908	850 25,908	2,805 85,496	2,805 85,496	2,805 85,496	2,805 85,496	2,805 85,496	2,805 85,496	775 23,622
Hydraulic Conductivity (K) - cm/day:	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02	5.40E-03 4.67E+02
Hydraulic Gradient (i) - cm/cm:	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
Chemical-Specific Parameters:														
First Order Degradation Constant (λ) - day-1: Chemical Specific (35 IAC 742, App. C, Table E)	6.50E-04	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Default Parameters:														
Source width perpendicular to gw flow direction in vertical plane (Sd) - cm:	200	200	200	200	200	200	200	200	200	200	200	200	200	200
η (Total Soil Porosity) - Lpore/Lsoil 0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay = 0.36, or Calculated	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
RBCA Calculations:														
Longitudinal Dispersivity (α_x) - cm **R-16** α_x=0.10*X :	3352.80	3352.80	3657.60	3657.60	76.20	1676.40	1676.40	1676.40	1676.40	1676.40	1676.40	1676.40	1676.40	1676.40
Transverse Dispersivity (α_y) - cm **R-17** α_y=α_x/3 :	1117.60	1117.60	1219.20	1219.20	25.40	558.80	558.80	558.80	558.80	558.80	558.80	558.80	558.80	558.80
Vertical Dispersivity (α_z) - cm **R-18** α_z=α_x/20 :	167.64	167.64	182.88	182.88	3.81	83.82	83.82	83.82	83.82	83.82	83.82	83.82	83.82	83.82
Error Functions: $B_1 = S_w/(4*SQRT(\alpha_y*X))$	1.17	0.82	1.57	1.57	49.84	2.12	2.12	6.98	6.98	6.98	6.98	6.98	6.98	1.93
From App. C, Table G enter corresp. error function value -- erf(B_1):	0.902039	0.754722	0.973507	0.973507	1.000000	0.997236	0.997236	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	0.993642
$B_2 = S_d/(2*SQRT(\alpha_z*X))$	0.04	0.04	0.04	0.04	1.86	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
From App. C, Table G enter corresp. error function value -- erf(B_2):	0.047567	0.047567	0.043607	0.043607	0.991327	0.094965	0.094965	0.094965	0.094965	0.094965	0.094965	0.094965	0.094965	0.094965
Specific Discharge (U) - cm/day **R-19** $U=K*i/\Theta_T$:	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062	2.062
Intermediate Solutions for R-26:														
$a = X/2*\alpha_x$ =	5	5	5	5	5	5	5	5	5	5	5	5	5	5
$b = SQRT(1+(4*\lambda*\alpha_x/U))$ =	2.287	2.170	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
c = (1-b)*a =	-6.433	-5.849	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
d = EXP(c) =	0.002	0.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
$C_{(x)}$ = d*erf(B2)*erf(B1)*$C_{(source)}$ =	0.0000001	0.0000001	0.0010569	0.0012425	0.0664915	0.0113643	0.0113643	0.0123454	0.0132951	0.0151944	0.0132951	0.0113958	0.0161440	0.0103797
R-26 Concentration at distance(X) from the source -- $C_{(x)}$ - mg/L:	**0.00000**	**0.00000**	**0.0011**	**0.0012**	Predicted value exceeds the objective **0.0665**	**0.011**	**0.011**	**0.012**	**0.013**	**0.015**	**0.013**	**0.011**	**0.016**	**0.010**
Water Quality Standards (35 IAC 302) or IEPA's Derived Water Quality Criteria- Chronic Aquatic Toxicity or Human Health (mg/L):	0.000016	0.00016	0.0074	0.0074	0.0074	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049

Appendix F Technical Documentation for Tier 3 Evaluations

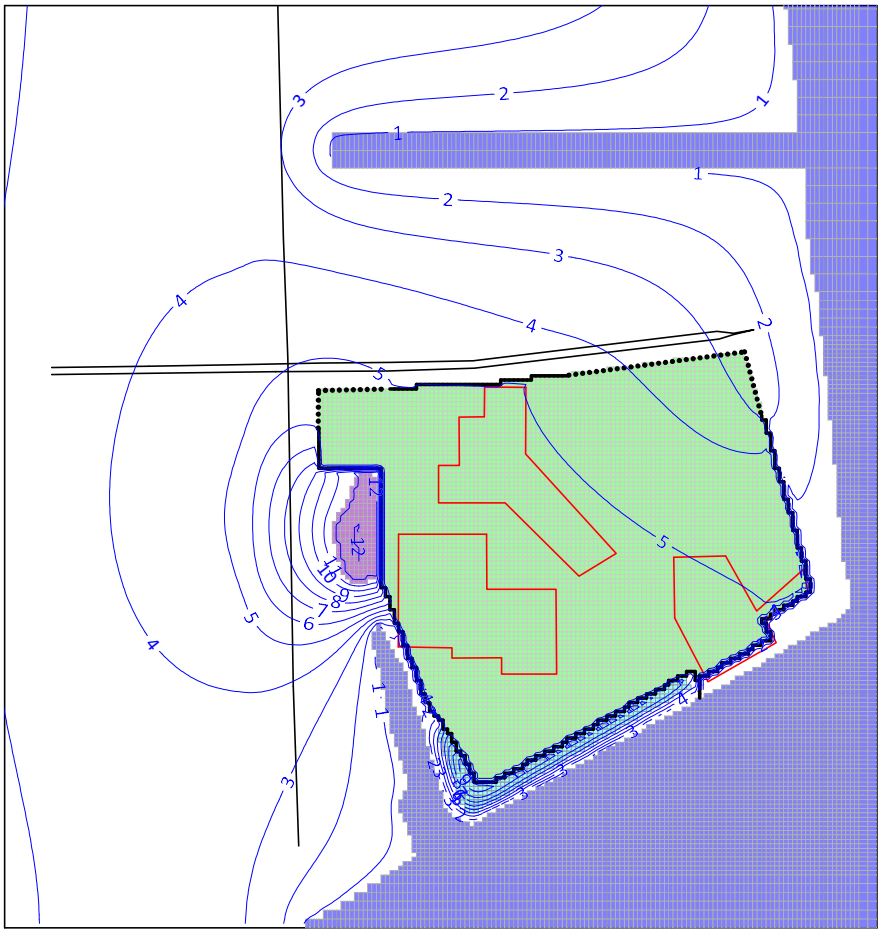
POREWATER SOLUTIONS

Expertise • Experience • Innovation

Modeling the Remedial Design of a Slurry Wall with Reactive Gates

Illinois Quantum & Microelectronics Park, Chicago, Illinois

Prepared by
Porewater Solutions
for
PIONEER Engineering & Environmental Services, LLC



September 10, 2025

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1. INTRODUCTION

Porewater Solutions has conducted a modeling study to support the remedial design of a barrier wall with reactive gates for the Illinois Quantum & Microelectronics Park in Chicago, Illinois. This development project is located at the former U.S. Steel South Works Property (Site) and generally consists of flat infill land. Figure 1 shows the site location.

The purpose of this modeling study was to assess the potential for increased groundwater mounding inside the walled area. Two development phases were considered when evaluating wall performance: a Final Development scenario when infiltration basins have been constructed outside the walled area and the recharge rate inside the wall is substantially reduced; and an Interim Development scenario where recharge occurs normally inside the wall and infiltration basins have not yet been constructed outside the barrier wall. This modeling study is consistent with a focused feasibility study level of effort. Results from the modeling study are used to identify potential data gaps for consideration in a pre-design investigation at the remedial design phase.

This report presents the conceptual site model (Section 2), the approach used for the Pre-Remediation Model construction and calibration (Section 3), and the Wall Model remedial design simulations to evaluate barrier wall performance (Section 4). Conclusions and recommendations based on this study are presented in Section 5, followed by a list of references cited in this report.

2. CONCEPTUAL SITE MODEL

The Site is partially surrounded by surface water on four sides: the North Vessel Slip to the North, Lake Michigan to the east, Calumet River to the south, and the South Vessel Slip to the west. The Site consists of a shallow aquifer typically comprised of silty sand overlain by slag fill, and is underlain by a continuous layer of silty clay across the Site. Groundwater in the shallow aquifer flows towards surface water discharge zones surrounding the site. The average hydraulic conductivity of the shallow aquifer based on prior slug tests conducted at the Site is $3x10^{-3}$ cm/s (i.e., 8.5 ft/day).

Several detailed geotechnical investigations have been conducted at the Site (GSG, 2024 and 2025). Table 1 presents a summary of the top elevations of the silty clay layer at 61 soil borings; the top of this low-permeability layer represents the base of the shallow aquifer at the Site. The average top elevation of the silt/clay layer at these 61 soil borings is -18 ft Chicago City Datum (ft CCD).

The topographic surface at the Site is generally level and ranges from 8 ft CCD at proposed infiltration basin locations, to a high of about 17 ft CCD. Surface water levels around the site are controlled by the level in Lake Michigan. Levels in Lake Michigan have been observed to vary historically between extremes of -1.5 ft and 4.5 ft ft CCD. Typically, the surface water level around the Site ranges from about 0 to 1 ft CCD. Periods of elevated Lake Michigan levels will result in increased groundwater elevations below the Site.

May 2025 Groundwater Elevations

Pioneer (2025) provided groundwater elevations at Site and nearby monitoring wells for the May 2025 water level monitoring event. These groundwater elevations and associated contours are shown on Figure 2.1. The surface water elevation at the time of this monitoring event was measured to be 0.7 ft CCD. The groundwater elevation contours shown on Figure 2.1 indicate that there are two recharge-induced mounds, one south of the North Vessel Slip and another on the north side of the slip. The maximum groundwater elevation observed at monitoring well MW-302 at the Site was 4.3 ft CCD. Groundwater flow at the Site is shown to be radially outwards from the center of the groundwater mound, towards the surface water bodies to the north, east, south, and west.

(Note: MW-307 was excluded from contouring due to an anomalously high elevation of 13.85 feet CCD, which deviates significantly from site trends and was not identified in historical groundwater monitoring data. Located adjacent to the North Vessel Slip, the groundwater elevation at MW-307 likely reflects a localized condition that is not representative of broader site hydrogeology.)

These observed groundwater mounds in the shallow aquifer indicate that stormwater infiltration is exerting a primary control on groundwater elevations at the Site, with limited inflow from off-site areas to the west. This locally recharged water raises the potentiometric surface and drives lateral flow across the Site. The average horizontal hydraulic gradient observed at the Site is approximately 0.0019 ft/ft. Vertical flow in the shallow aquifer is negligible because of the low-permeability silt/clay layer that forms a continuous base for this hydrostratigraphic unit.

Scope of On-Site Remedy

Figure 2.2 shows the three local, discontinuous source areas previously delineated at the Site. Benzene and naphthalene are the two Chemicals of Concern (COCs) which have been found at low concentrations in groundwater exceeding cleanup criteria in these source areas, with exceedances that are only several times higher than the appliable cleanup criteria. Given that releases to these areas ceased several decades

ago, recharge and groundwater flow over time have depleted the residual sources in these areas.

To contain groundwater in the vicinity of these three areas, the site remedy is specified to have a barrier wall with a total length of approximately 8500 feet that encompasses these three source zones, except for a small portion of the western source area that is too close to the South Vessel Slip, and a portion of the eastern source area that is too close to the Calumet River boundary to be included inside the wall (see Figure 2.2). The portion of the Site to be included inside the walled area will be approximately 100 acres in size.

The barrier wall principally consists of a low-permeability slurry wall which will be keyed into the top of the silty clay unit. Permeable reactive gates will be placed on the northwest and northeast portions of the barrier wall alignment to allow water to be released from inside the walled area after treatment in the reactive gates. The use of permeable reactive gates will mitigate the potential for long-term flooding that could occur if the water table inside the walled area rises up to the ground surface.

Petro-Fix will be used for in-situ treatment of the COCs in the reactive gate sections. Petro-Fix includes colloidal activated carbon which will adsorb the COCs, and it also includes reagents which accelerate the biodegradation of these COCs within the reactive gates. The shallow aquifer is already under aerobic conditions naturally, which illustrates the lack of substantial organic contamination remaining in these source areas. Both benzene and naphthalene are known to undergo rapid biodegradation under the naturally-occurring aerobic conditions currently present in groundwater at the Site.

In addition to the barrier wall remedy, the proposed development at the Site will include construction of several infiltration basins. The purpose of these basins is to facilitate the subsurface infiltration of captured storm water once specific phases of the development have been completed. It is expected that approximately 80% of the current precipitation falling at the Site will be diverted to these infiltration basins and through an outfall directly discharging to surface water at the completion of the property development.

Two proposed infiltration basins are shown on Figure 2.2. The first basin is proposed to be constructed outside the west barrier wall alignment, and the second basin is proposed along the southwest corner outside the barrier wall. It is important that these basins be constructed outside the proposed wall so that the infiltrating water does not cause excessive mounding inside the barrier wall.

While there are two reactive gates proposed along the northwest and northeast corners of the barrier wall, there will still be some increased mounding inside the wall area because water has to travel farther than it currently does to reach surface water discharge zones. One of the goals of the model was to assess how much mounding is

expected to occur inside the walled area in the Final Development scenario (when 80% of the current recharge will be diverted to infiltration basins outside the barrier wall). The model was also used to estimate the mounding in the proposed wall area that may be anticipated in an Interim Development scenario, prior to the diversion of most of the precipitation falling at the Site.

3. MODEL CONSTRUCTION AND CALIBRATION

A two-dimensional steady-state groundwater flow model was developed to simulate horizontal flow in the shallow aquifer at the Site. MODFLOW 2005 was used as the groundwater flow simulation code. Groundwater Vistas was used as the graphical pre- and post-processor for running the model and visualizing the distribution of input parameters and model output results. Final report figures were prepared using Golden Surfer, and a custom Fortran program was used to prepare some of the map layers in these report figures.

The Pre-Remediation Model was used to simulate current conditions at the Site. The approach used for model construction is described in Section 3.1, and the results of the model calibration are discussed in Section 3.2.

3.1 Pre-Remediation Model Construction

Model Domain Extent and Discretization

The extent of the model domain is shown on Figure 3.1, where the domain has a north-south extent of 8500 ft and an east-west extent of 5700 ft. The western portion of the model domain is shown with the aerial photograph in Figure 3.1 to be fully developed with engineered storm water controls, so the recharge through infiltration to the aquifer will be lower in this portion of the domain.

The model domain was discretized into small grid cells (25 ft x 25 ft) at the Site, and slightly larger grid cell sizes outside of the Site area (up to 100 ft x 100 ft). The model grid is discretized into 159 columns and 182 rows for a total of 28,938 grid cells. The model grid discretization is shown on Figure 3.2.

Boundary Conditions

Constant-head boundary conditions were used to specify groundwater elevations representing: 1. Surface water with a uniform elevation of 0.7 ft CCD; and 2. A uniform groundwater elevation of 2.0 ft CCD along the western boundary of the model domain to represent easterly groundwater flow into the domain. These constant-head boundary conditions are shown on Figure 3.3.

Properties

Two zones were used to represent hydraulic conductivity: 1. Eastern hydraulic conductivity zone with 8.5 ft/day based on the average of Site slug test results; and 2. Western zone with a calibrated hydraulic conductivity of 42 ft/day. These two hydraulic conductivity zones are shown on Figure 3.4.

The Pre-Remediation Model has two recharge zones: a) developed area with a reduced recharge rate of 2 inches per year (i.e., 0.00045 ft/day); and b) the undeveloped area where the recharge rate was calibrated to be 3 inches per year (i.e., 0.000675 ft/day) to match the observed May 2025 groundwater mound elevation of 4.3 ft CCD at the Site (refer to Section 3.2). The Pre-Remediation Model recharge zones are shown on Figure 3.5.

The shallow aquifer was simulated using the MODFLOW unconfined condition, so that the transmissivity of the aquifer in each grid cell is calculated using the saturated thickness modeled in each cell. The base of the model domain was specified to be at a bottom elevation of -18 ft CCD, which is the average top elevation of the continuous silt/clay unit that underlies the shallow aquifer at the Site.

3.2 Model Calibration

The purpose of the model calibration was to ensure that the simulated recharge rate resulted in a reasonable match between the simulated and observed groundwater mounding contours, with a focus on matching the observed mound elevation of 4.3 ft CCD at the Site (i.e., south of the North Vessel Slip).

The model property that was mainly adjusted during model calibration was the average annual recharge rate in the undeveloped portion of the model domain. Using the average slug test hydraulic conductivity of 8.5 ft/day, the calibrated infiltration rate was 3 inches per year (i.e., 0.000675 ft/day). Comparison of the modeled groundwater elevations shown on Figure 3.6 with the observed groundwater elevation contours on Figure 2.1 indicates that there's a good match between the Pre-Remediation Model and observed groundwater elevation contours. The modeled maximum groundwater elevation at the Site was 4.4 ft CCD, which is close to the observed maximum groundwater elevation of 4.3 ft CCD at monitoring well MW-302.

Note that there was insufficient range in groundwater elevations to justify a statistical analysis of the model calibration (i.e., only 3.6 feet range between the maximum observed elevation at the Site and the surface water level of 0.7 ft CCD). This small range in heads across the Site is difficult to match precisely with a model using uniform hydraulic conductivity and recharge zones across the Site; there may be local

heterogeneities which result in minor changes in groundwater elevations across the Site that we are not able to match with a model at this scale. Regardless, the match between the observed and modeled maximum groundwater elevations, flow directions, and lateral mound extents confirm that the model is sufficiently calibrated for the purpose of evaluating the potential for mounding inside the proposed barrier wall.

4. WALL MODEL SIMULATIONS

The steady-state groundwater flow model boundary conditions and recharge properties were adjusted to simulate the proposed barrier wall. The Final Development scenario includes engineering controls that divert most storm water falling at the Site to several infiltration basins. During the Interim Development scenario, the barrier wall will be in place and storm water diversion controls will not yet have been constructed.

Thus two barrier wall scenarios were modeled: 1. Final Development including representation of two large infiltration basins (as discussed below) and an 80% reduction in the recharge rate; and an Interim Development scenario where storm water controls are not constructed yet, so future infiltration basins are not modeled and the Pre-Remediation Model recharge rate is used in the Wall Model.

The approach used to simulate these two scenarios using the Wall Model are discussed further in Section 4.1. The results of the Wall Model simulations are summarized in Section 4.2.

4.1 Wall Model Construction

Barrier Wall

The footprint of the proposed barrier wall is shown on Figure 4.1 using solid and dotted black lines along the wall alignment. The solid line portion of the barrier wall footprint represents the low-permeability slurry wall. The MODFLOW Horizontal-Flow Barrier package was used to simulate the slurry wall portion of the barrier wall. The thickness of the wall in the model was specified to be 2 ft, and the hydraulic conductivity of the wall in the model was specified to be $1x10^{-7}$ cm/s (i.e., 0.00028 ft/day).

The black dotted lines shown at the northwest and northeast corners of the barrier wall on Figure 4.1 represent the permeable reactive (i.e., Petro-Fix) gates. Petro-Fix includes the injection of colloidal-sized activated carbon particles with an average size of 1 to 2 microns, as part of a liquid solution. These activated carbon particles are small enough that they will not cause clogging of the aquifer, and thus the reactive gates will not involve a reduction in hydraulic conductivity at the permeable gate locations. The

reactive gate portions of the barrier wall were simulated in the model simply by incorporating openings in the barrier wall at the reactive gate locations in the model (i.e., no wall segments were simulated where the reactive gates are shown on Figure 4.1).

A small north-south oriented wing wall was simulated in the model at the south side of the barrier wall, just east of the southwest infiltration basin. The purpose of this wing wall is to mitigate the potential for lateral groundwater flow from the infiltration basin into the portion of the source area that falls outside of the barrier wall (i.e., adjacent to Calumet River).

Infiltration Basins

The Southwest Basin shown on Figure 4.1 has a design average infiltration rate of 23,500 ft^3/day. The surface area of this Southwest Basin in the Wall Model was simulated to be 3.7 acres. Infiltration at this basin was specified in the model to have a recharge rate of 0.144 ft/day, which is equivalent to the design flow rate over the modeled surface area of the infiltration basin.

The maximum design water table elevation in this area outside the barrier wall is approximately 16 ft CCD. A diversion outlet to a surface water outfall will be used if the actual water table rises up to this elevation at the Southwest Basin. It was confirmed with the model that the simulated groundwater elevations in the vicinity of this Southwest Basin are less than the maximum allowable level when using the Southwest Basin design infiltration rate.

The second infiltration basin shown on Figure 4.1 is referred to as the West Basin, and is located outside the western barrier wall alignment. The design infiltration rate for this basin is an annual average rate equivalent to 11,500 ft^3/day and the surface area is approximately 2.8 acres. A test with the Wall Model indicated that at this infiltration rate, the water table outside the wall will rise above the design maximum groundwater elevation of 12 ft CCD. For this reason, a constant-head boundary at this location was used to specify the maximum design groundwater elevation of 12.0 ft CCD for this infiltration basin, instead of specifying a recharge rate. The Wall Model indicates that the maximum average infiltration rate sustainable at the West Basin, based on a maximum allowable groundwater elevation of 12 ft CCD, is approximately 4300 ft^3/day. Excess infiltration water that may occur during storm events will be diverted to the South Slip from the West Basin when groundwater rises to the design threshold of 12 ft CCD.

Recharge Rate in the Walled Area

The green zone inside the walled area on Figure 4.1 represents the recharge zone specified for the walled area. For the Final Development scenario, the walled area recharge zone rate is reduced by 80% from the calibrated Pre-Remediation rate (i.e., reduced to 0.6 inch/year or 0.000135 ft/day). For the Interim Development scenario,

this recharge zone rate is the same as the Pre-Remediation Model (i.e., 3 inch/year or 0.000675 ft/day).

Steady-State versus Transient Conditions

For this focused feasibility study modeling effort, steady-state conditions are appropriate for the groundwater flow model. For this reason, the current model represents average recharge rates, and a steady surface water elevation. As part of the detailed remedial design phase, it is recommended that seasonal precipitation variations be evaluated to consider the effects of transient recharge rates and surface water elevations on barrier wall performance.

4.2 Barrier Wall Simulations

Final Development Scenario

The Final Development scenario involves the use of two infiltration basins which receive diverted storm water (i.e., West Basin and Southwest Basin), and the recharge rate inside the walled area is reduced by 80% compared to pre-remediation conditions. Figure 4.2 shows the simulated groundwater elevations for the Final Development scenario.

The maximum simulated head inside the walled area in this scenario is 5.9 ft CCD, which indicates that future storm water engineering controls will result in only a small increase in groundwater mounding inside the walled area (i.e., less than two feet above May 2025 groundwater levels). This demonstrates that long-term engineering controls will not be required inside the walled area to prevent flooding, because storm water diversion keeps down the groundwater mounding levels inside the walled area.

The simulated groundwater elevations below the West and Southwest Basins are 12 ft CCD and 9 ft CCD, respectively. The design maximum groundwater elevation at the Southwest Basin is approximately 16 ft, and during large storm events this level may be reached due to transient infiltration which is not simulated in the focused feasibility study model. Thus there may be potentially sustained periods during long storm events where a head differential across the slurry wall of about 10 ft may occur.

Interim Development Scenario

The Interim Development scenario uses the same recharge rate in the walled area as was used in the Pre-Remediation Model, and infiltration basins are not simulated in this scenario. Groundwater mounds to a higher elevation in the Interim Development scenario because the recharge rate is specified to be the same as the pre-remediation

rate, and construction of the barrier wall increases the distance groundwater must travel before discharging to surface water.

Figure 4.3 shows the modeled groundwater elevation contours for the Interim Development scenario. As shown on Figure 4.3, the maximum simulated groundwater elevation in the walled area is in the southwest corner where a maximum head of 12.0 ft CCD was simulated based on a steady-state recharge (i.e., infiltration) rate.

Figure 4.3 also indicates that the simulated groundwater elevation adjacent to Calumet River, outside the barrier wall, is about 0.8 ft CCD. This indicates that there is a simulated head difference across the slurry wall of about 11 ft below at the southwest corner.

5. CONCLUSIONS AND RECOMMENDATIONS

The conclusions of this modeling study include:

- The Pre-Remediation Model provides a good match between the modeled and observed May 2025 groundwater elevation contours, the maximum observed groundwater elevation measured during this event at the Site, and the general groundwater flow directions. This confirms that the model calibration is sufficient for the purpose of this focused feasibility study level of effort for evaluating barrier wall performance.
- The barrier wall will not cause excessive groundwater mounding inside the walled area in the Final Development phase when storm water controls divert most precipitation to infiltration basins located outside of the walled area.
- Mounding simulated during the Interim Development scenario was at a maximum groundwater elevation of 12 ft CCD in the southwest corner of the walled area, which indicates that there may be a sustained head difference of about 11 ft across this portion of the barrier wall prior to construction of the Southwest Basin.
- Modeling demonstrates that the barrier wall and reactive gate system will divert groundwater flow through the PetroFix reactive gates for treatment. The presence of oxygen in site groundwater will also result in natural attenuation of chemicals of concern (e.g., benzene and naphthalene) upgradient of the reactive gates, inside the walled area. This combination of natural and enhanced treatment will ensure that COCs are effectively treated within the walled system.

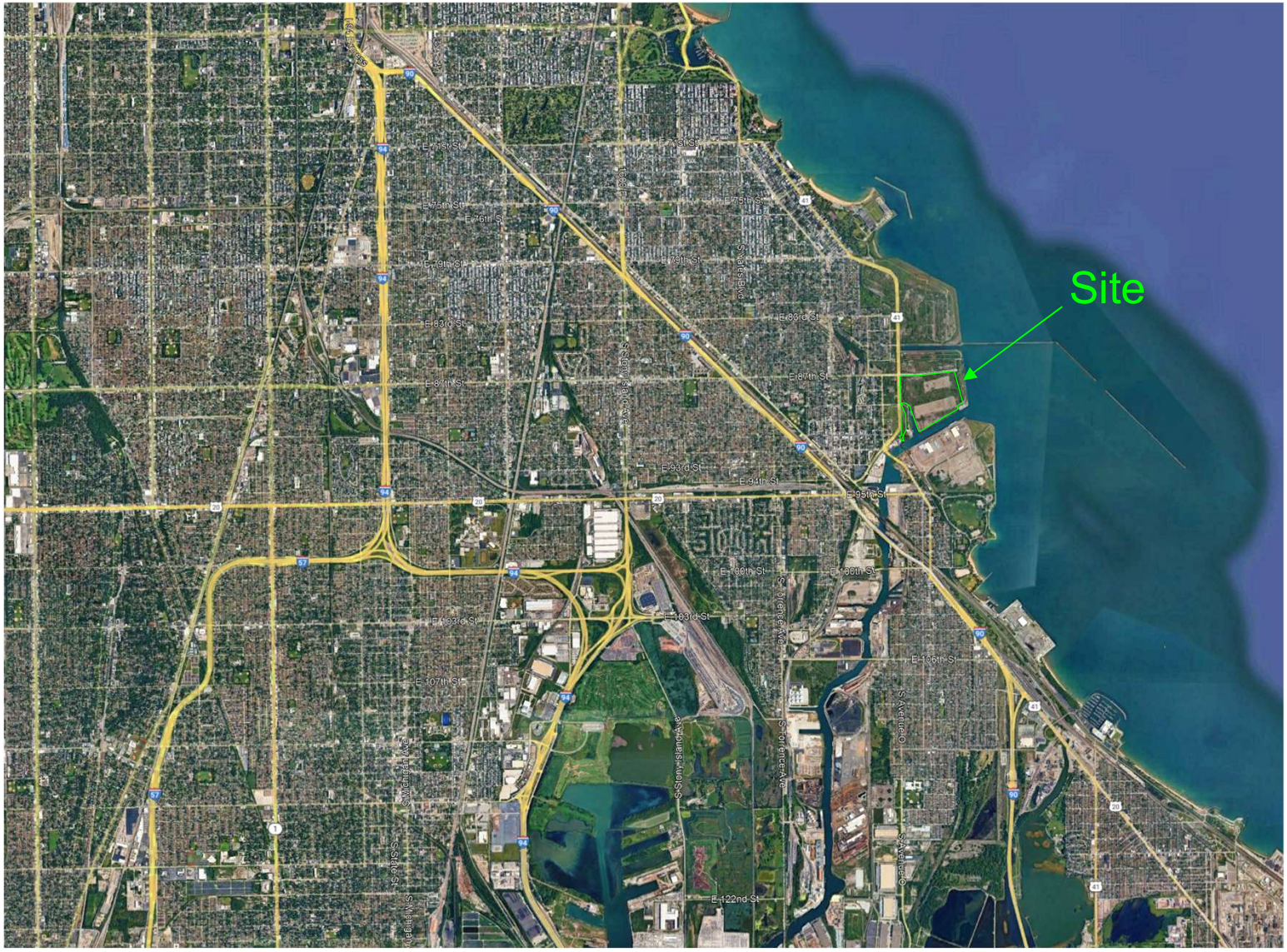
The following are recommendations for a pre-design investigation to be implemented as part of the detailed remedial design phase:

1. Conduct a pumping test to confirm the hydraulic conductivity and specific yield properties in the shallow aquifer.
2. Use the pumping test results to refine the groundwater model properties, and to update the calibration of the pre-remediation recharge rate at the Site.
3. Evaluate seasonal precipitation variations to assess potential effects of fluctuations in recharge rates and surface water levels on barrier wall performance.

REFERENCES

GSG Consultants, Inc. (GSG), 2024, Geotechnical Investigation Report – Proposed Phase I Building, Illinois Quantum & Microelectronics Park, December 18, 2024.

GSG, 2025, Geotechnical Investigation Report – Phase II to Phase IV Improvements, Illinois Quantum & Microelectronics Park, April 22, 2025.



Site Location

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Chicago, Illinois

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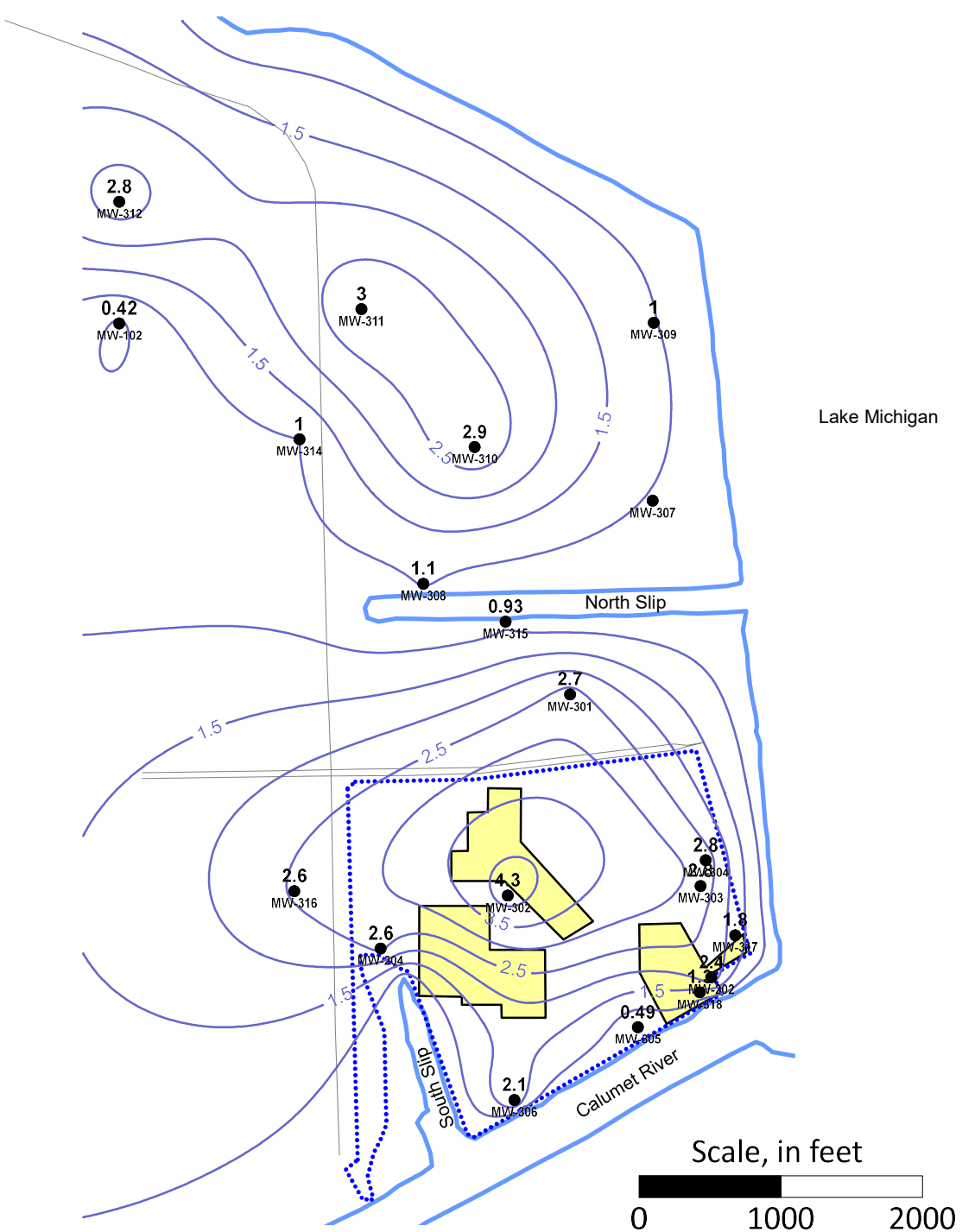
Figure

1.1

Notes:
1. Locations are approximate.



LEGEND

- South Works property boundary
- Source area
- Groundwater elevation contour (ft CCD)
- Groundwater monitoring well

Notes:
1. Locations are approximate.
2. Elevation datum is Chicago City Datum (CCD).

May 2025 Groundwater Elevations

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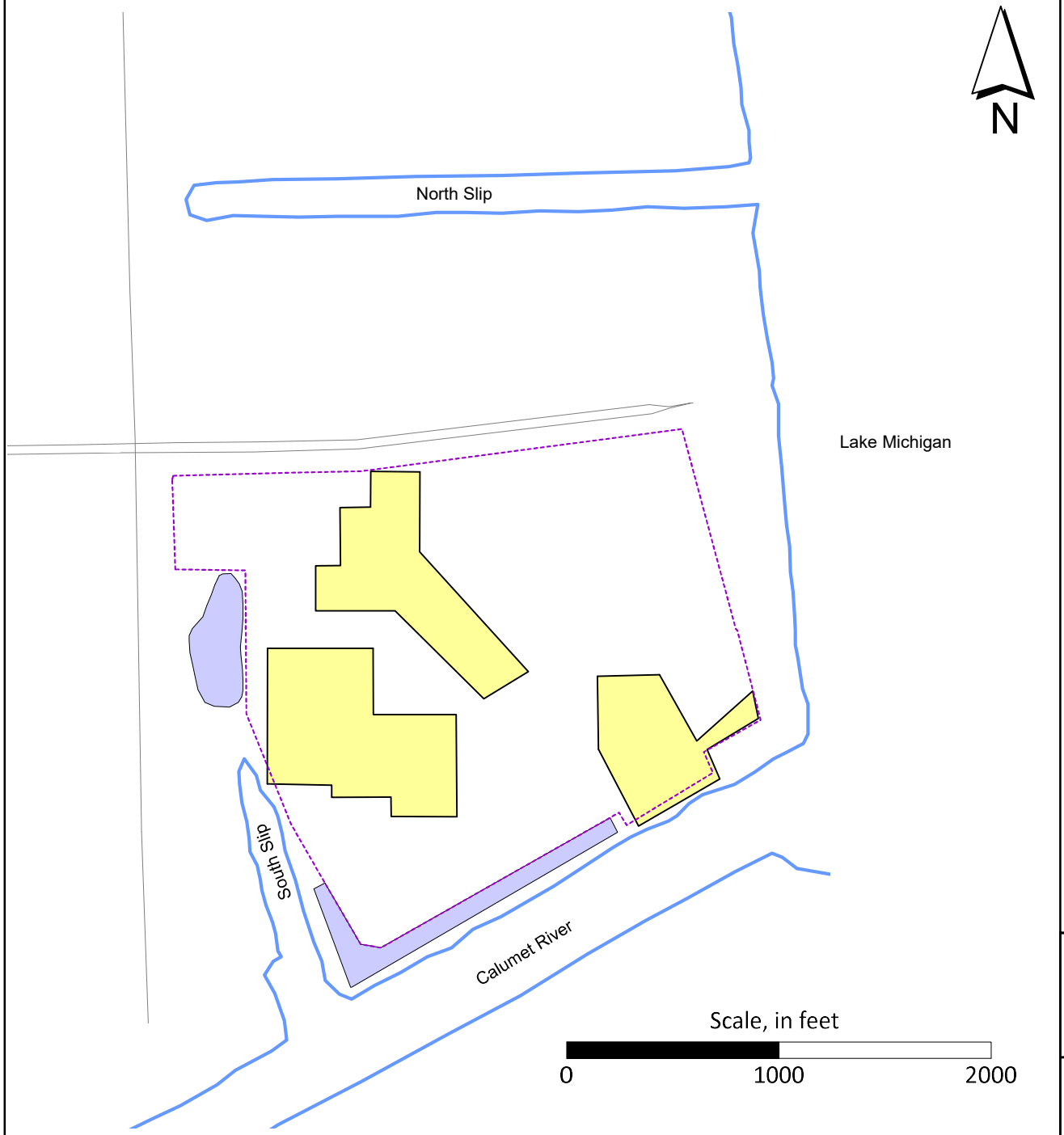
Figure 2.1



LEGEND

- South Works property boundary
- Source area
- Proposed wall alignment
- Proposed infiltration basin

Notes:

1. Locations are approximate.
2. Elevation datum is Chicago City Datum (CCD).
3. Proposed wall consists of a combination of a slurry barrier wall with two reactive PetroFix gates. Modeling was used to identify locations for the reactive gates.

Proposed Barrier Wall Alignment and Infiltration Basins

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Figure 2.2

August 15, 2025

LEGEND

- South Works property boundary
- Developed area with reduced recharge

Notes:
1. Region shown represents the model domain extent.

Model Domain Extent

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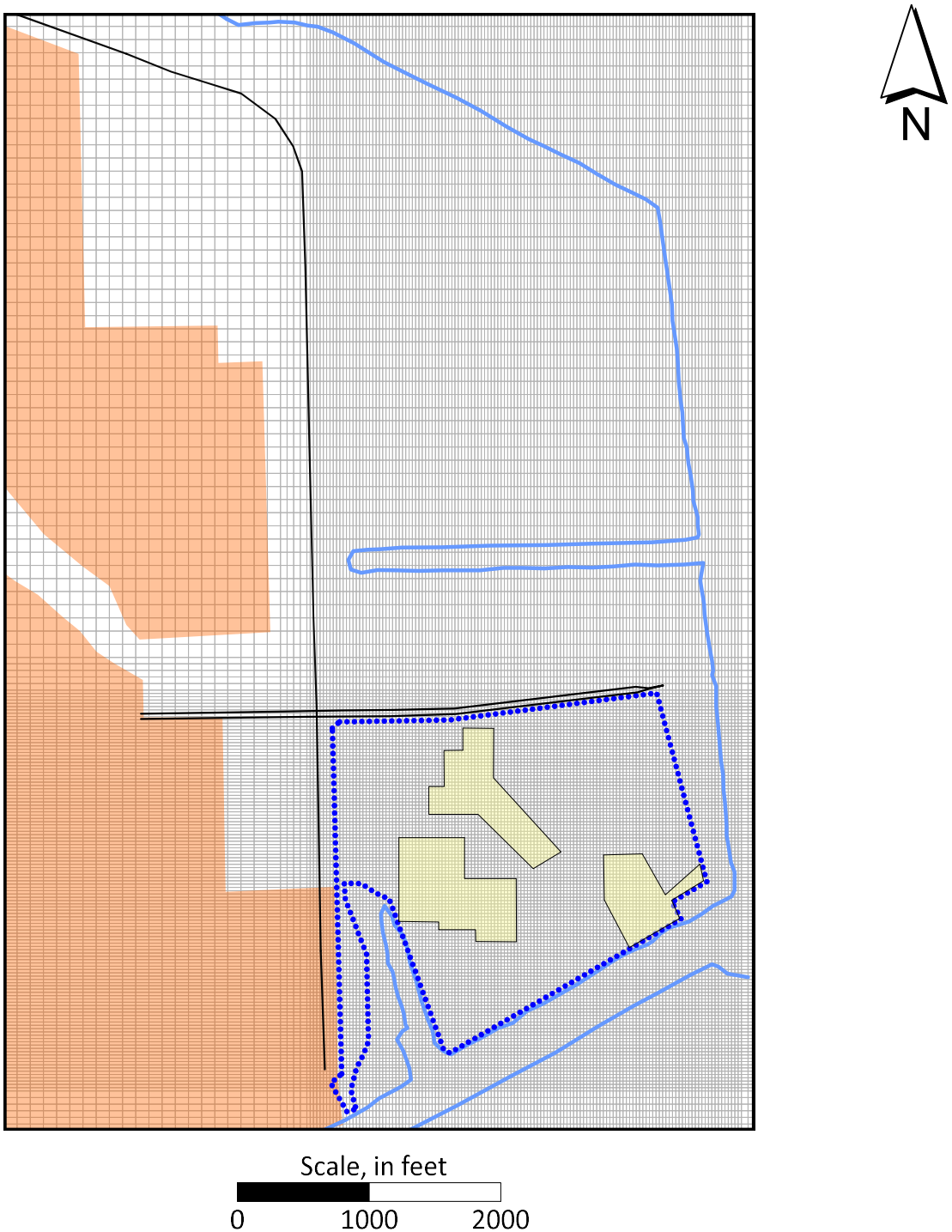
Figure 3.1



LEGEND

South Works property boundary

Source area

Developed area with reduced recharge

Notes:
1. Minimum grid spacing is 25 ft x 25 ft.
2. Maximum grid spacing is 100 ft x 100 ft.

Grid Discretization

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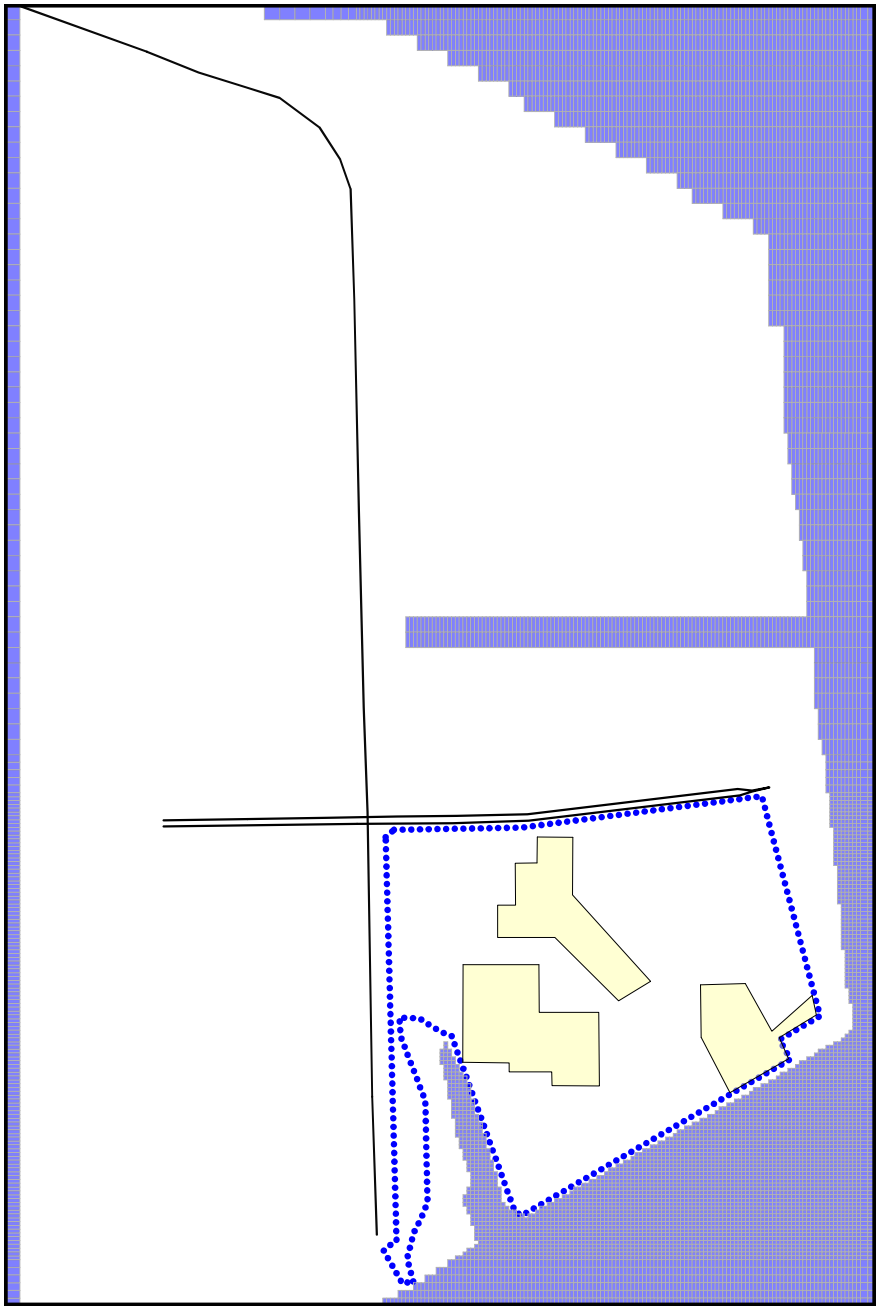
Figure

3.2



Scale, in feet

0 1000 2000

LEGEND

- South Works property boundary
- Source area
- Constant-head Boundary

Notes:
1. Locations are approximate.

Boundary Conditions

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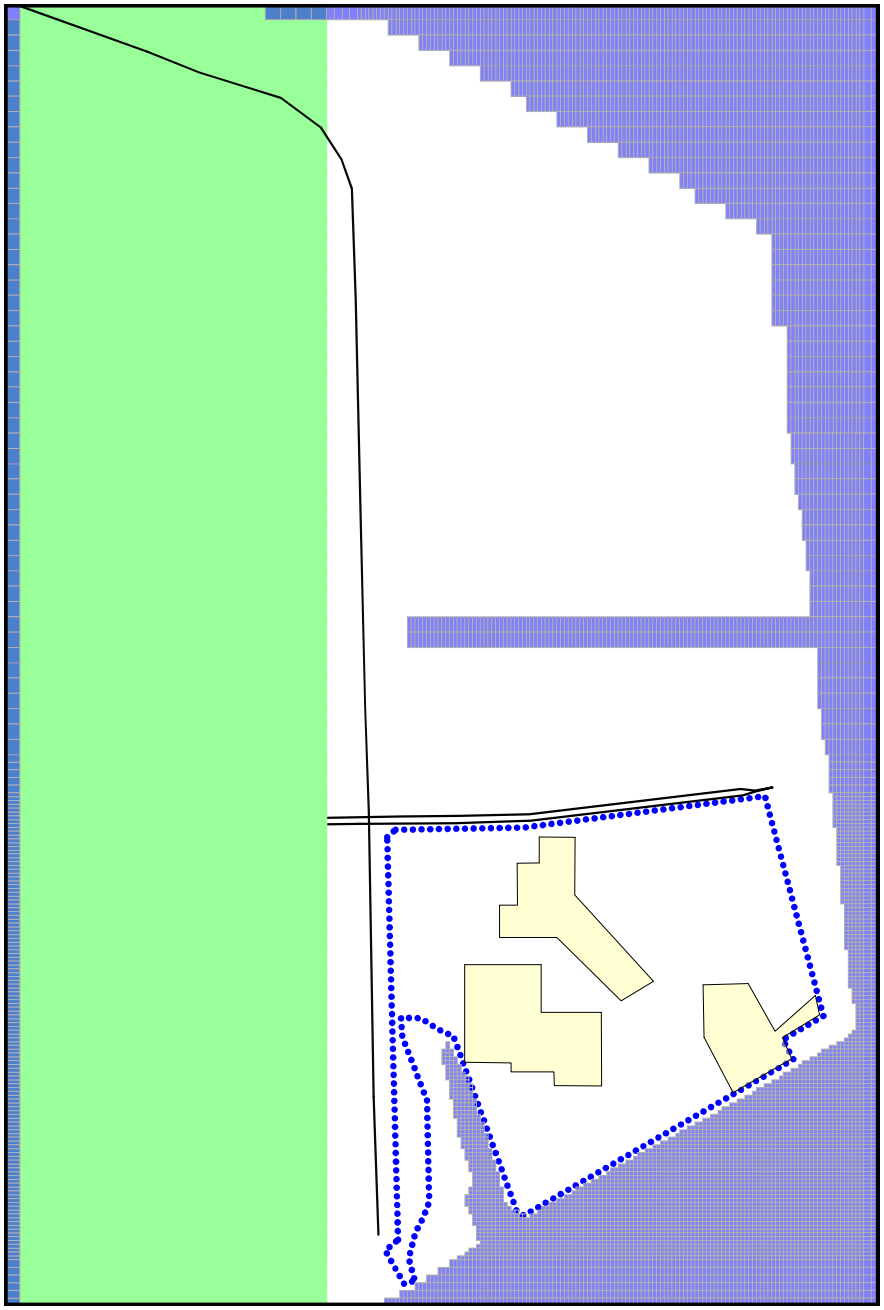
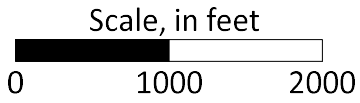
Figure 3.3





LEGEND

- South Works property boundary
- Source area
- Constant-head Boundary

Hydraulic conductivity (K) zones

- K=8.5 ft/day
- K=42 ft/day

Notes:
1. K: hydraulic conductivity
2. K=8.5 ft/day was selected based on average slug test results at the Site.
3. K=42 ft/day was specified during model calibration.

Hydraulic Conductivity Zones

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Chicago, Illinois

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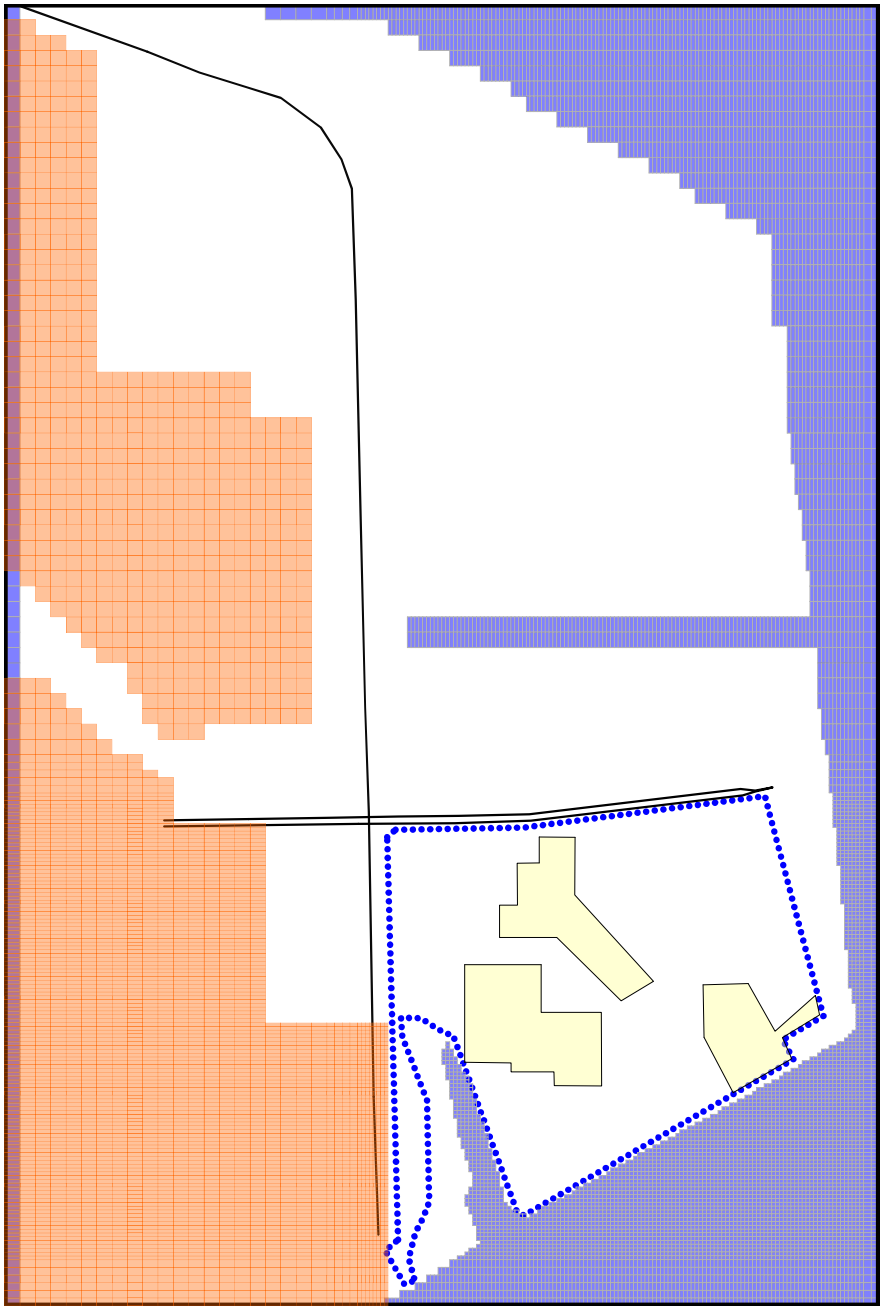
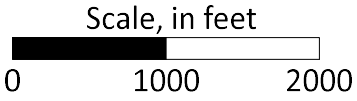
Figure 3.4





LEGEND

South Works property boundary

Source area

Constant-head Boundary

Recharge (I) zones

I=3 inch/year

I=2 inch/year

Notes:
1. Locations are approximate.

Recharge Zones (Pre-Remediation Model)

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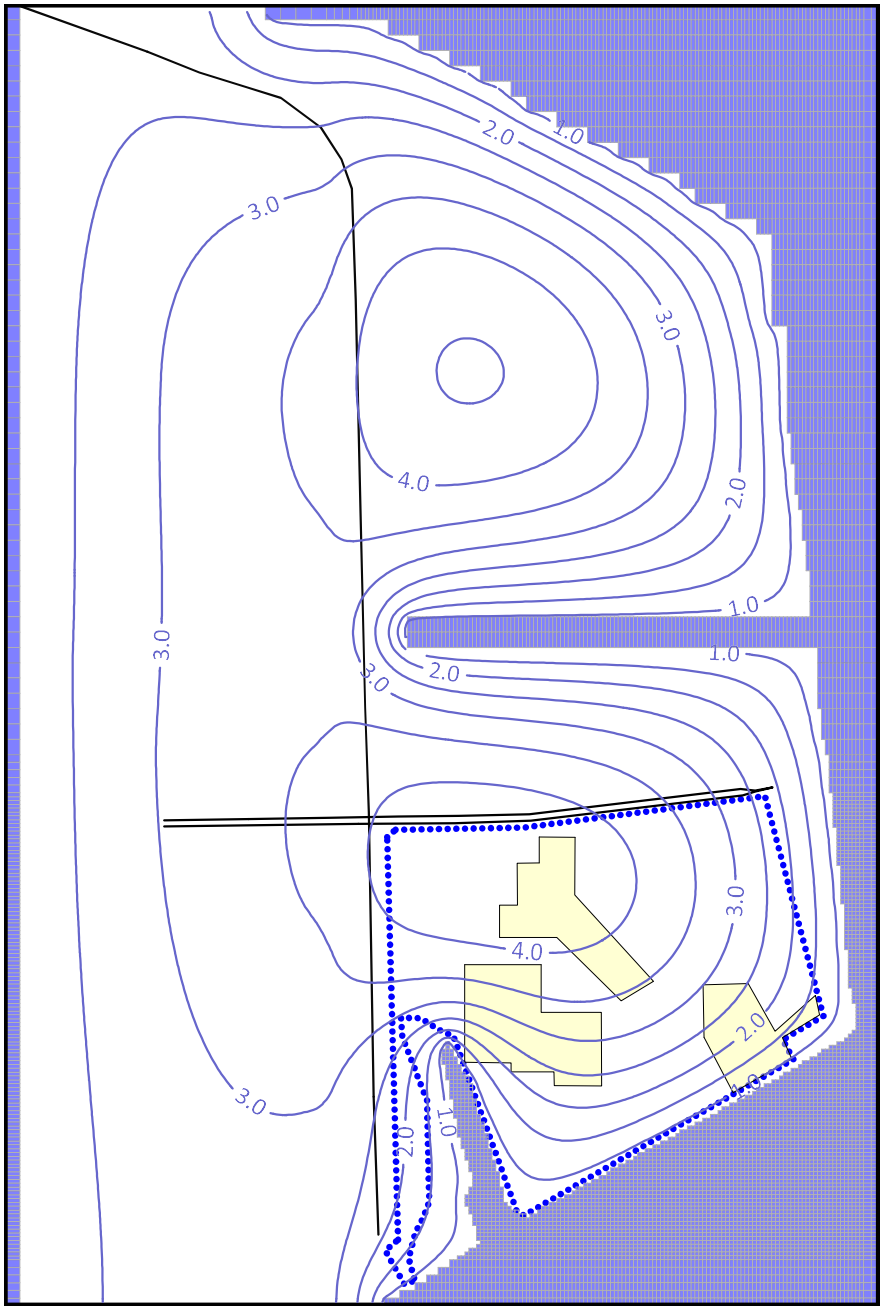
Figure 3.5



N

LEGEND

- South Works property boundary
- Source area
- Constant-head Boundary
- Groundwater elevation contour (ft CCD)

Notes:
1. Elevation datum is Chicago City Datum (CCD).

Modeled Groundwater Elevations
(Pre-Remediation Scenario)
Illinois Quantum & Microelectronics Park
Chicago, Illinois

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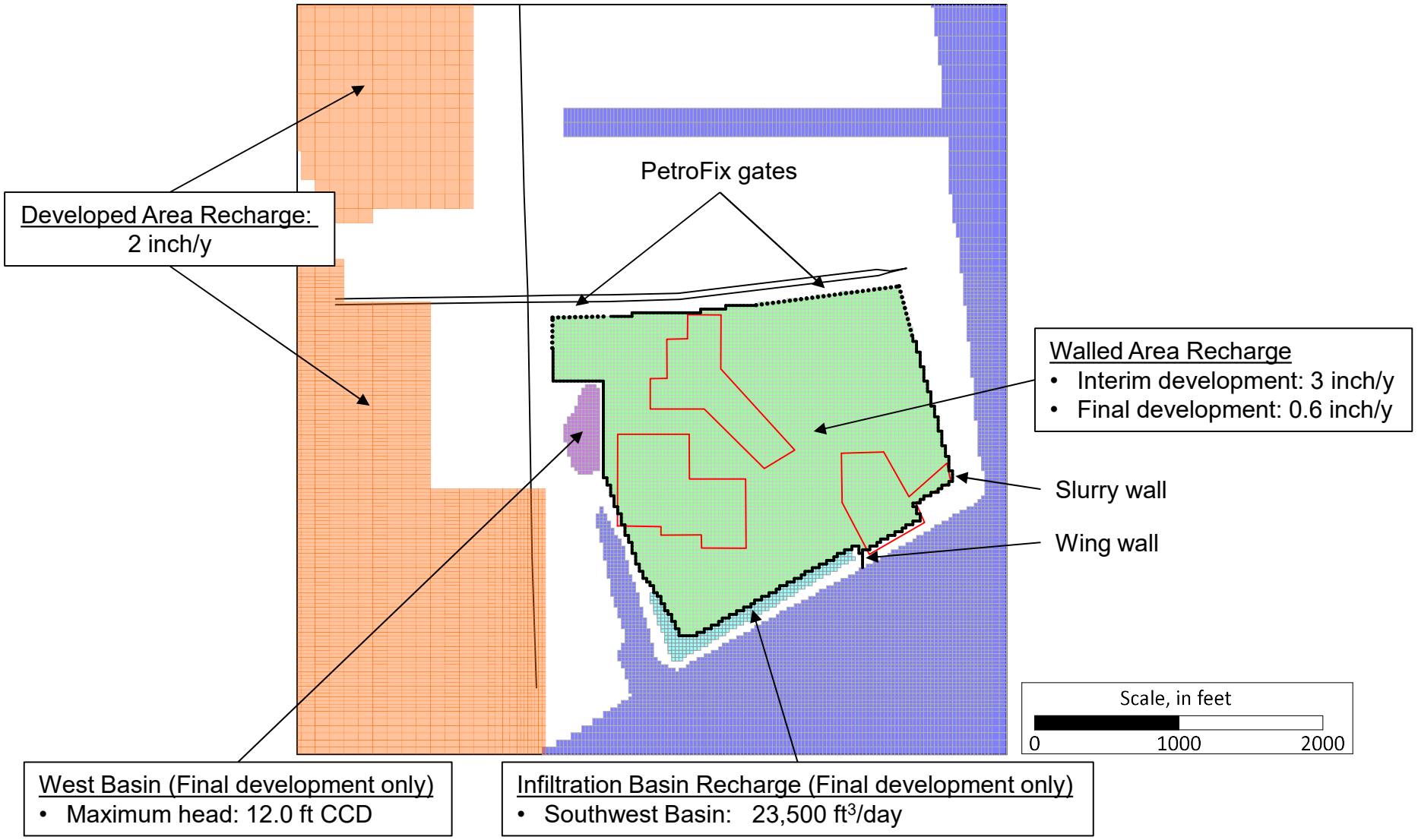
Figure
3.6



LEGEND

- Source area
- Constant-head Boundary

Notes:
1. Locations are approximate.

Wall Model Construction

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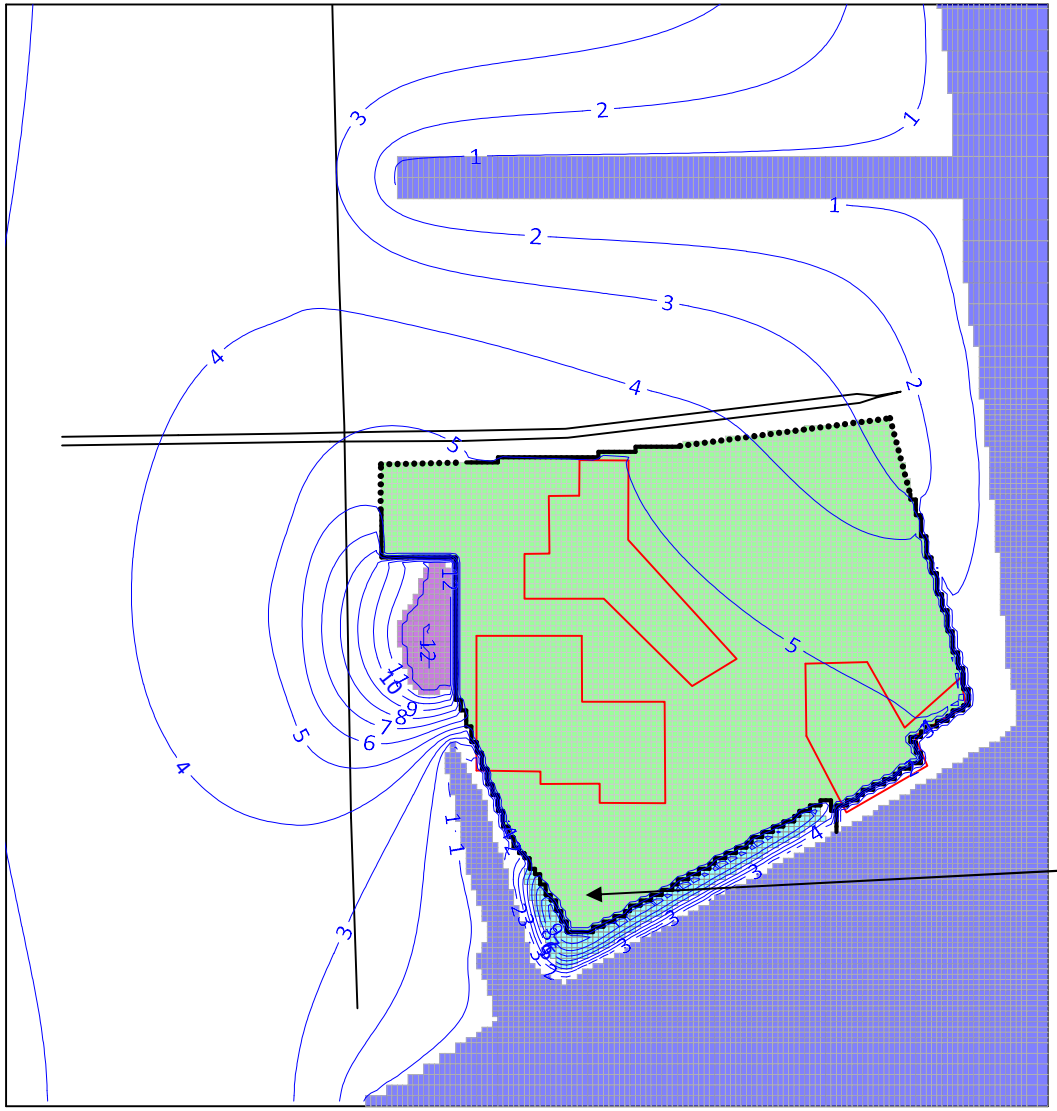
Figure 4.1



LEGEND

- Slurry wall
- Permeable reactive gate
- Simulated groundwater elevation (ft CCD)

Notes:
1. Elevations are in feet Chicago City Datum (CCD).
2. The walled area recharge rate was reduced by 80% compared to the pre-remediation model to account for covered ground surface at the completion of the final development.

Modeled Groundwater Elevations: Final Development

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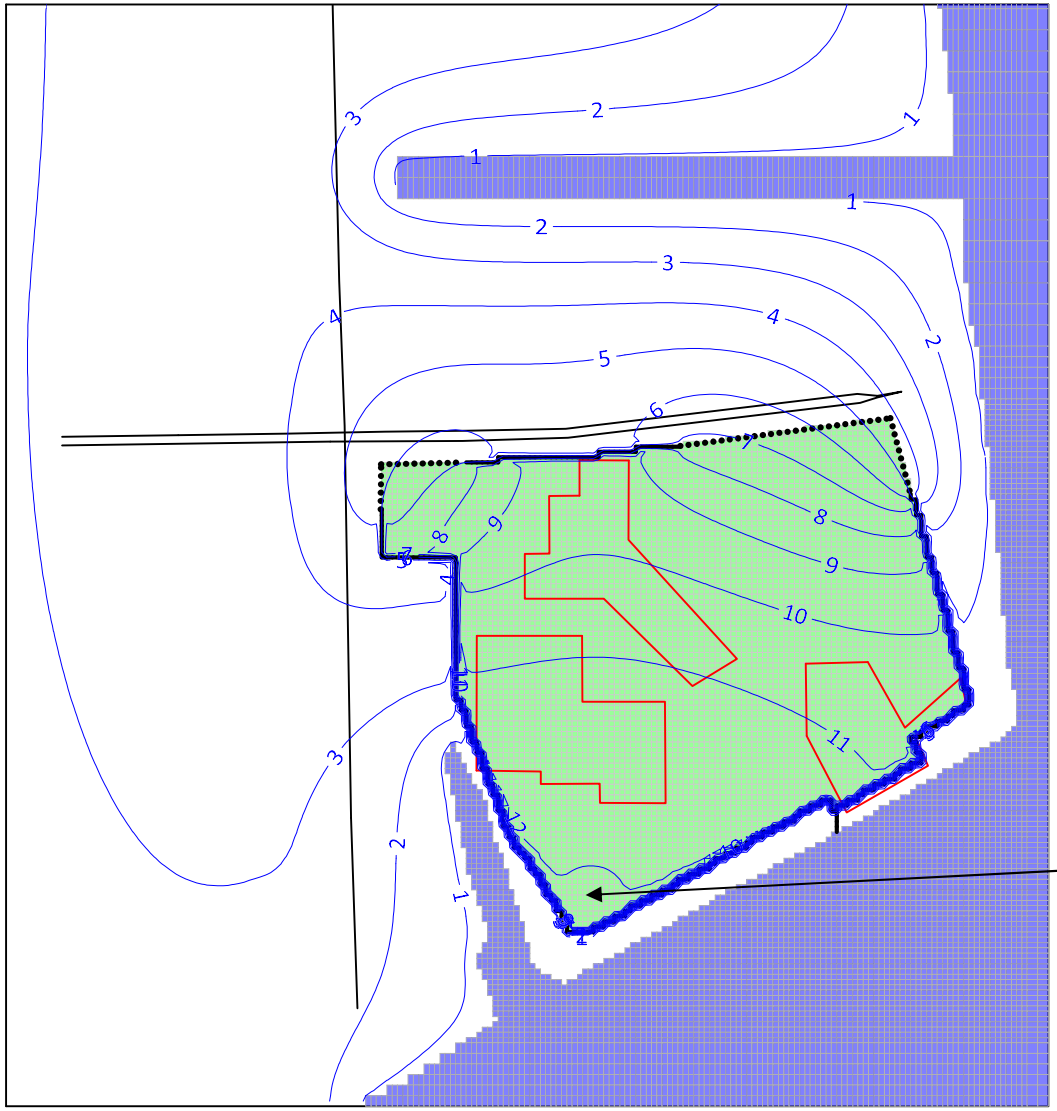
Figure 4.2



LEGEND

- Simulated groundwater elevation (ft CCD)
- Slurry wall
- Permeable reactive gate

Notes:
1. Walled area recharge rate is 100% of the pre-remediation recharge rate (i.e., 3 inch/year).

Modeled Groundwater Elevations: Interim Development

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Figure 4.3

TABLE 2.1
Top of Silt/Clay Unit Elevations
Illinois Quantum & Microelectronics Park, Chicago, Illinois

Location	Ground Surface Elevation (ft CCD)	Depth to Top of Silt/Clay (ft bgs)	Elevation of Top of Silt/Clay (ft CCD)	Depth to Top of Bedrock (ft bgs)	Silt/Clay Thickness Above Bedrock (ft)
A-01	11.89	33.5	-21.61	65	31.5
A-02	15.58	33.5	-17.92	51.5	18
A-04	14.77	33.5	-18.73	56	22.5
A-05	8.53	30	-21.47	73.5	43.5
A-06	12.98	40	-27.02	76.5	36.5
A-07	11.4	23.5	-12.1	68.5	45
A-08	15.97	28.5	-12.53	81	52.5
A-09	16.14	43.5	-27.36	97.5	54
A-10	16.17	34	-17.83	89	55
A-11	13.06	34.5	-21.44	72.5	38
A-12	11.81	28.5	-16.69	72	43.5
A-13	16.14	38.5	-22.36	73	34.5
A-14	17.72	34.5	-16.78	113.5	79
AS-01	13.91	29.5	-15.59	--	--
AS-02	12.19	28.5	-16.31	--	--
AS-03	9.9	24.5	-14.6	--	--
AS-04	12.17	28.5	-16.33	--	--
AS-05	12.62	23.5	-10.88	--	--
AS-06	16.58	28.5	-11.92	--	--
AS-07	13.16	28.5	-15.34	--	--
AS-08	11.77	28.5	-16.73	--	--
AS-09	14.73	>30	n/a	--	--
AS-11	20.59	>30	n/a	--	--
AS-12	11.59	28.5	-16.91	--	--
AS-13	16.18	>30	n/a	--	--
AS-14	13.21	>30	n/a	--	--
AS-15	16.09	>30	n/a	--	--
AS-16	11.66	28.5	-16.84	--	--
AS-17	13.08	>30	n/a	--	--
B-06	12.89	33.5	-20.61	68.5	35
B-07	12.82	28.5	-15.68	59.5	31
B-09	12.47	27.5	-15.03	70	42.5
B-10	12.12	28.5	-16.38	62.5	34
B-101	16	26	-10	80	54
B-102	15	38.5	-23.5	82.5	44
B-103	14.7	38.5	-23.8	83.5	45
B-104	16.5	39	-22.5	81.5	42.5
B-105	16.8	33.5	-16.7	83.5	50

TABLE 2.1
Top of Silt/Clay Unit Elevations
Illinois Quantum & Microelectronics Park, Chicago, Illinois

Location	Ground Surface Elevation (ft CCD)	Depth to Top of Silt/Clay (ft bgs)	Elevation of Top of Silt/Clay (ft CCD)	Depth to Top of Bedrock (ft bgs)	Silt/Clay Thickness Above Bedrock (ft)
B-106	16.2	39.5	-23.3	90	50.5
B-107	15.79	34.5	-18.71	95	60.5
B-108	8.4	23.5	-15.1	93.5	70
B-12	11.58	28.5	-16.92	>68	
B-14	16.16	33.5	-17.34	90.5	57
B-15	17.17	53.5	-36.33	82.5	29
B-16	16.04	33.5	-17.46	>81	
B-18	16.45	43.5	-27.05	92	48.5
B-19	16.95	38.5	-21.55	88.5	50
B-20	16.27	44.5	-28.23	81.5	37
B-21	16.27	38.5	-22.23	83.5	45
B-22	10.06	28.5	-18.44	95.5	67
B-23	14.62	33.5	-18.88	97.5	64
B-24	15.53	33.5	-17.97	93	59.5
B-26	6.24	21	-14.76	79	58
B-27	6.19	26	-19.81	73	47
B-28	4.97	24.5	-19.53	96	71.5
B-29	7.27	28.5	-21.23	92.5	64
B-30	6.09	34	-27.91	102.5	68.5
B-31	5.5	28.5	-23	104.5	76
BS-02	10.3	28.5	-18.2	--	--
S-10	11.78	28.5	-16.72	--	--
S-13	11.79	28.5	-16.71	--	--
S-15	16.18	>30	n/a	--	--
S-20	16.03	>30	n/a	--	--
S-25	16.17	>30	n/a	--	--
S-29	7.2	28.5	-21.3	--	--
S-31	6.06	23.5	-17.44	--	--
S-32	14.48	>30	n/a	--	--
S-35	6.84	21.5	-14.66	--	--
S-36	5.78	26	-20.22	--	--
S-37	5.72	21	-15.28	--	--
S-38	7.35	22	-14.65	--	--

TABLE 2.2
May 2025 Groundwater Elevations
Illinois Quantum & Microelectronics Park, Chicago, Illinois

Easting (ft)	Northing (ft)	Location	Groundwater Elevation (ft CCD)
1199105	1851134	MW-102	0.42
1203287	1846503	MW-202	2.37
1200951	1846706	MW-204	2.62
1202290	1848506	MW-301	2.72
1201850	1847081	MW-302	4.27
1203212	1847149	MW-303	2.80
1203248	1847331	MW-304	2.77
1202769	1846149	MW-305	0.49
1201897	1845633	MW-306	2.07
1202873	1849879	MW-307	13.92
1201253	1849290	MW-308	1.09
1202881	1851139	MW-309	1.02
1201615	1850259	MW-310	2.92
1200816	1851236	MW-311	2.97
1199105	1851996	MW-312	2.83
1200378	1850314	MW-314	1.00
1201834	1849022	MW-315	0.93
1200342	1847113	MW-316	2.56
1203457	1846800	MW-317	1.78
1203207	1846397	MW-318	1.30

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Comparison to Other Barrier Wall Installation Technologies

The One Pass Trencher offers distinct advantages over auger mixing or cutter soil mixing (CSM) when it comes to the unique demands of deep soil mixing.

Auger soil mixing:

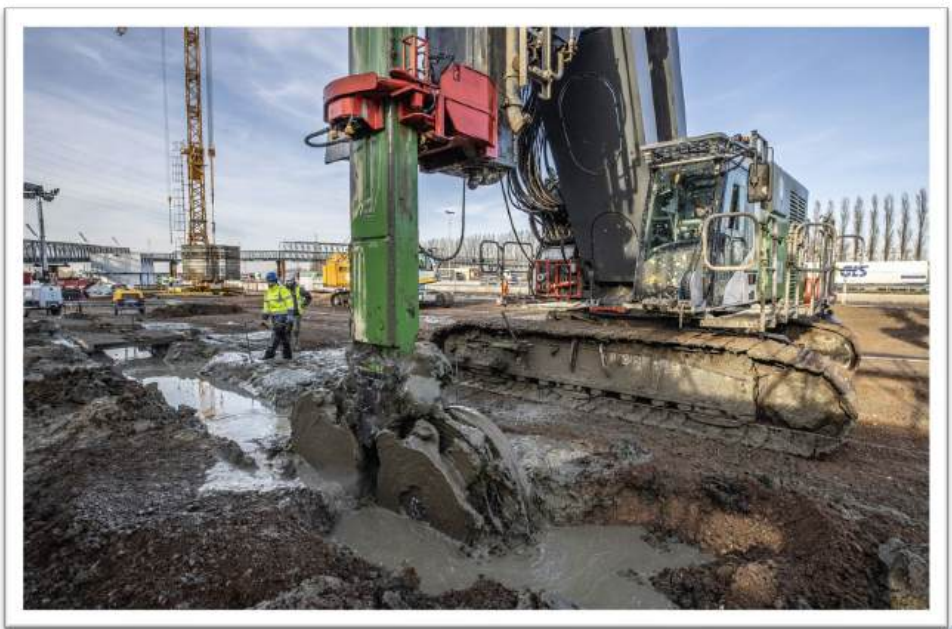
Cobbles:
Tend to jam the augers.

Boulders:
Cannot penetrate, or deflect augers.

Bedrock Key-In:
Frequently impossible.

Work Platform:
Perfect transverse and longitudinal levelness required.

Cutting Torque:
10,000 – 20,000 lb-ft.



Cutter soil mixing:

Cobbles:
Tend to jam the cutters.

Boulders:
Unfavorable. Cannot lift out.

Bedrock Key-In:
Substantial time required.

Work Platform:
Perfect transverse and longitudinal levelness required.

Cutting Torque:
10,000 – 70,000 lb-ft.

One Pass Trencher:

Cobbles:
No problem. Hundreds of carbide rock cutting teeth.

Boulders:
Up to 2 ft in diameter.

Bedrock key-in:
>10 ft thickness

Work Platform:
Transverse levelness required. Longitudinal grades up to 8:1 permitted.

Cutting Torque:
600,000 - 1,500,000 lb-ft

Homogeneity:
Complete homogenization of soil profile from top to bottom.

One Pass Trencher:

Unmatched ability in cobbles, boulders, and bedrock.

One Pass Trencher:

Unmatched on tight sites and longitudinal grades.

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Dry Additives & The Metered Auger Delivery System

One-pass trenching is a great improvement over traditional slurry trenching in terms of safety, speed, homogeneity, work platform space requirements, uniform trench depth, etc. DeWind recognized that the full benefits of one-pass trenching were not being realized using slurry addition of bentonite and Portland cement in one-pass trenches. DeWind developed and patented the metered auger delivery system for dry additives, enabling nearly-unlimited addition of cement and/or bentonite to one-pass trenches for in-situ mixing. DeWind has successfully installed mix-in-place soil-cement-bentonite-(slag) walls containing up to 20% Portland cement by dry weight. With a cutting chain speed of 14 ft/sec, constant control over water entering the trench, and dry addition of components based on the trench volume, a homogeneously mixed and hydrated wall can be installed with superior control over slump and strength.

How Does the Metered Auger delivery System Work?

Each delivery hopper contains an auger which dispenses the dry material. The auger dispenses a set amount of material per revolution. The auger speed is directly synced to the track speed of the trencher. The cutoff wall mix design establishes a required dry weight % of bentonite, Portland cement, and/or slag based on weight of soil to be mixed in-situ. Once established, the amount of bentonite and/or Portland cement required per linear foot of trench installed are calculated based on the trench volume (trench width x trench depth) and unit soil weight.

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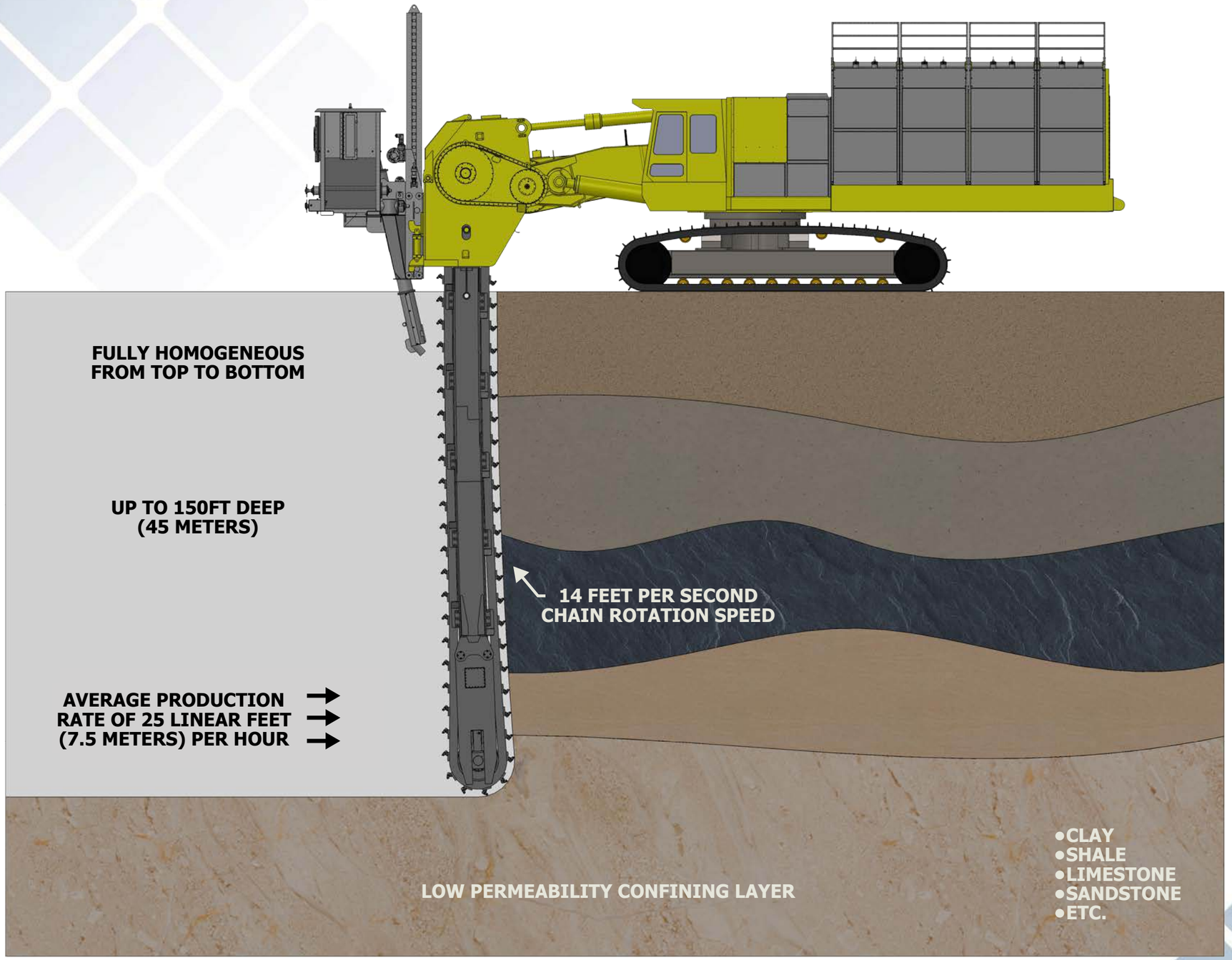
HYDRAULIC BARRIER WALL



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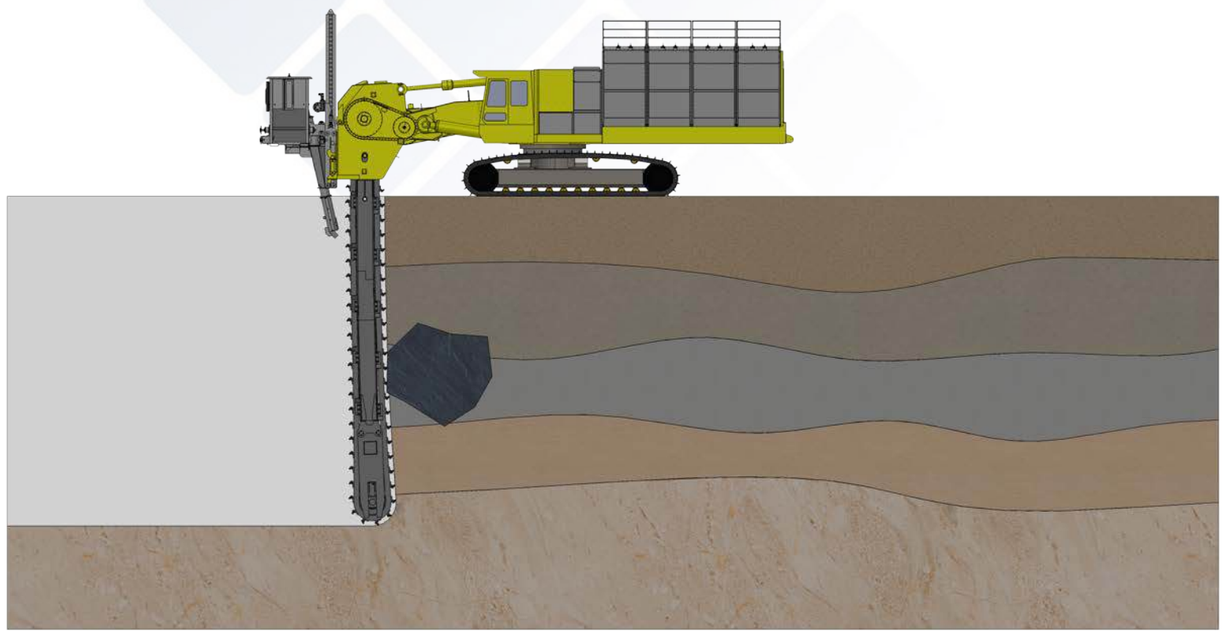
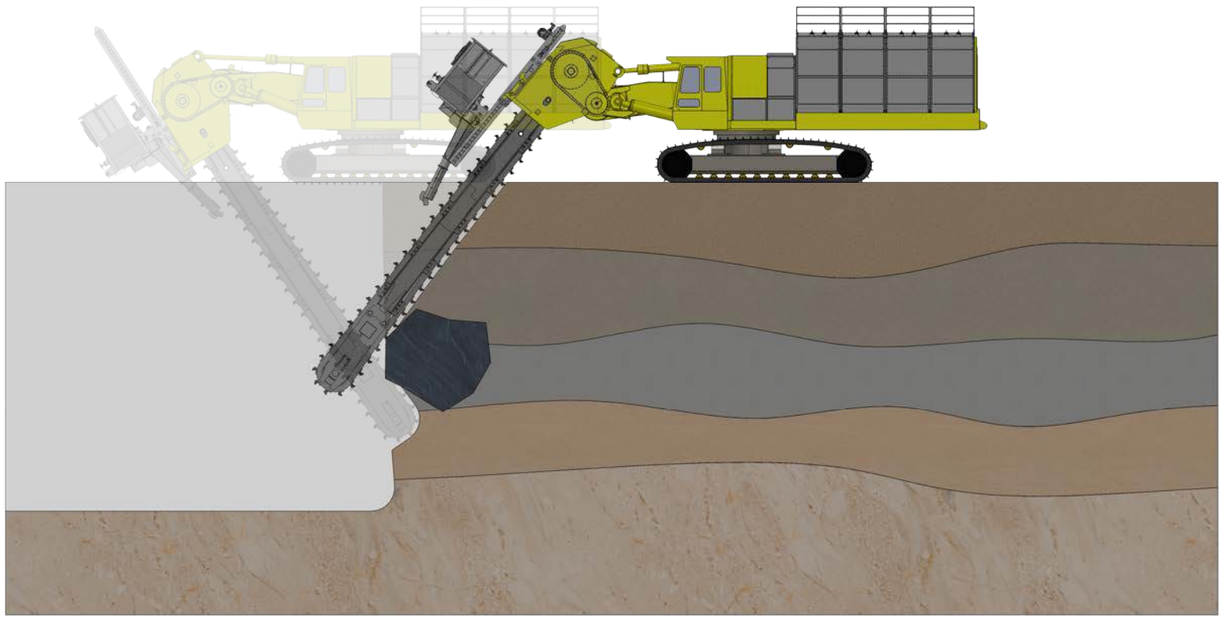
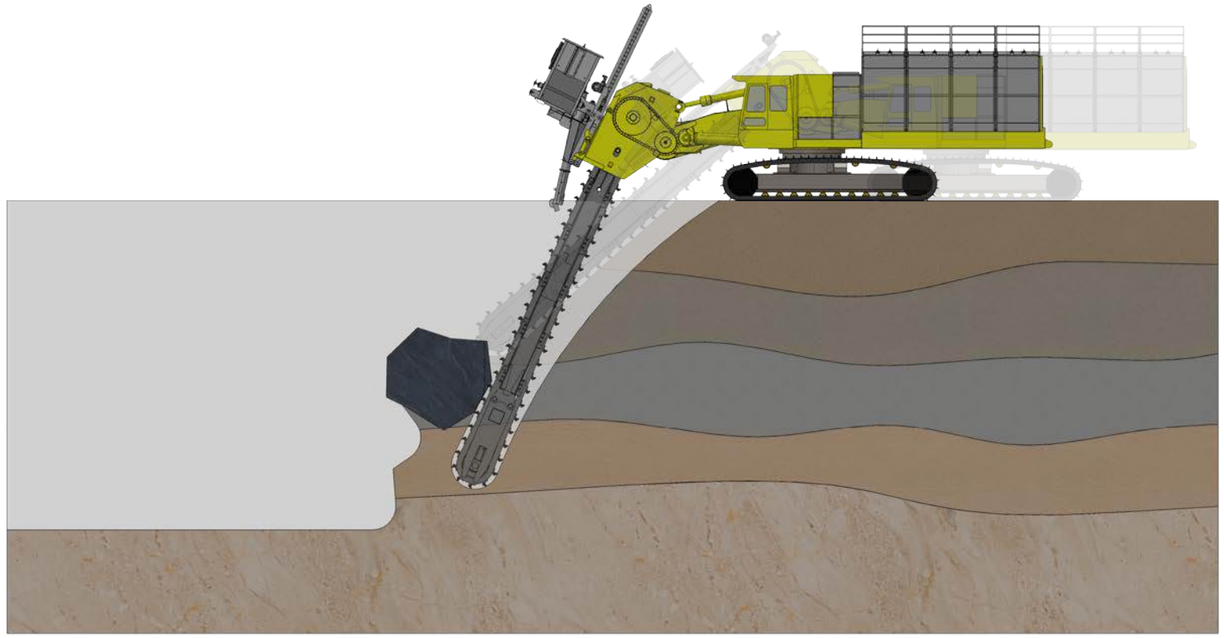
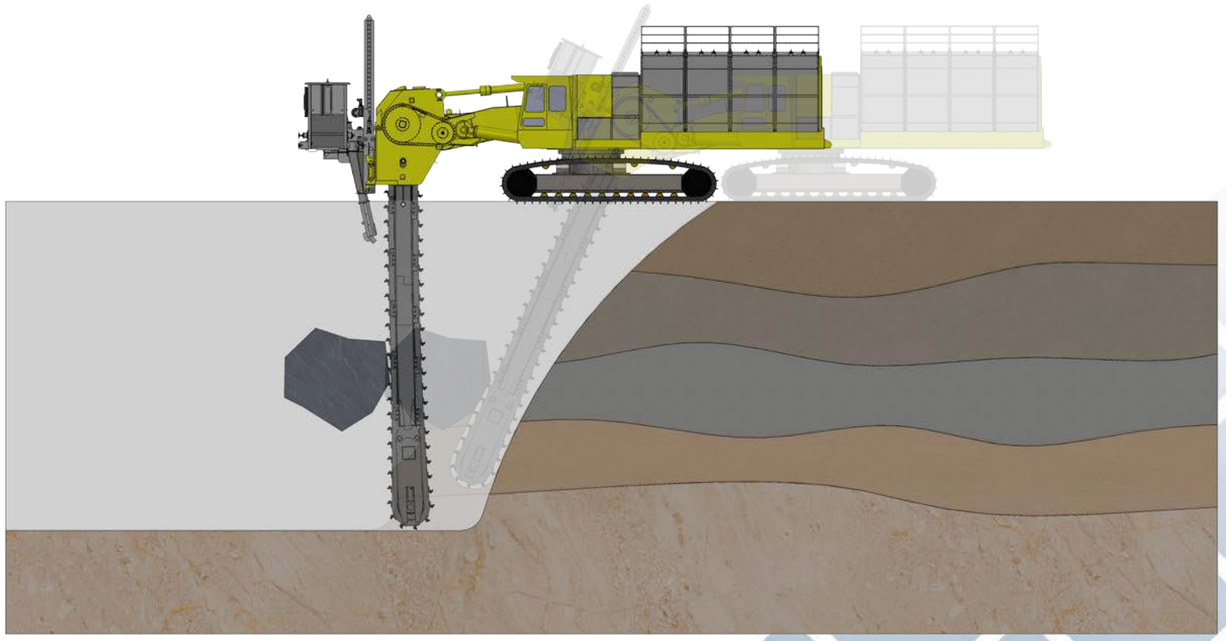
ONE PASS TRENCHING

TRENCHING OVER AN OBSTRUCTION









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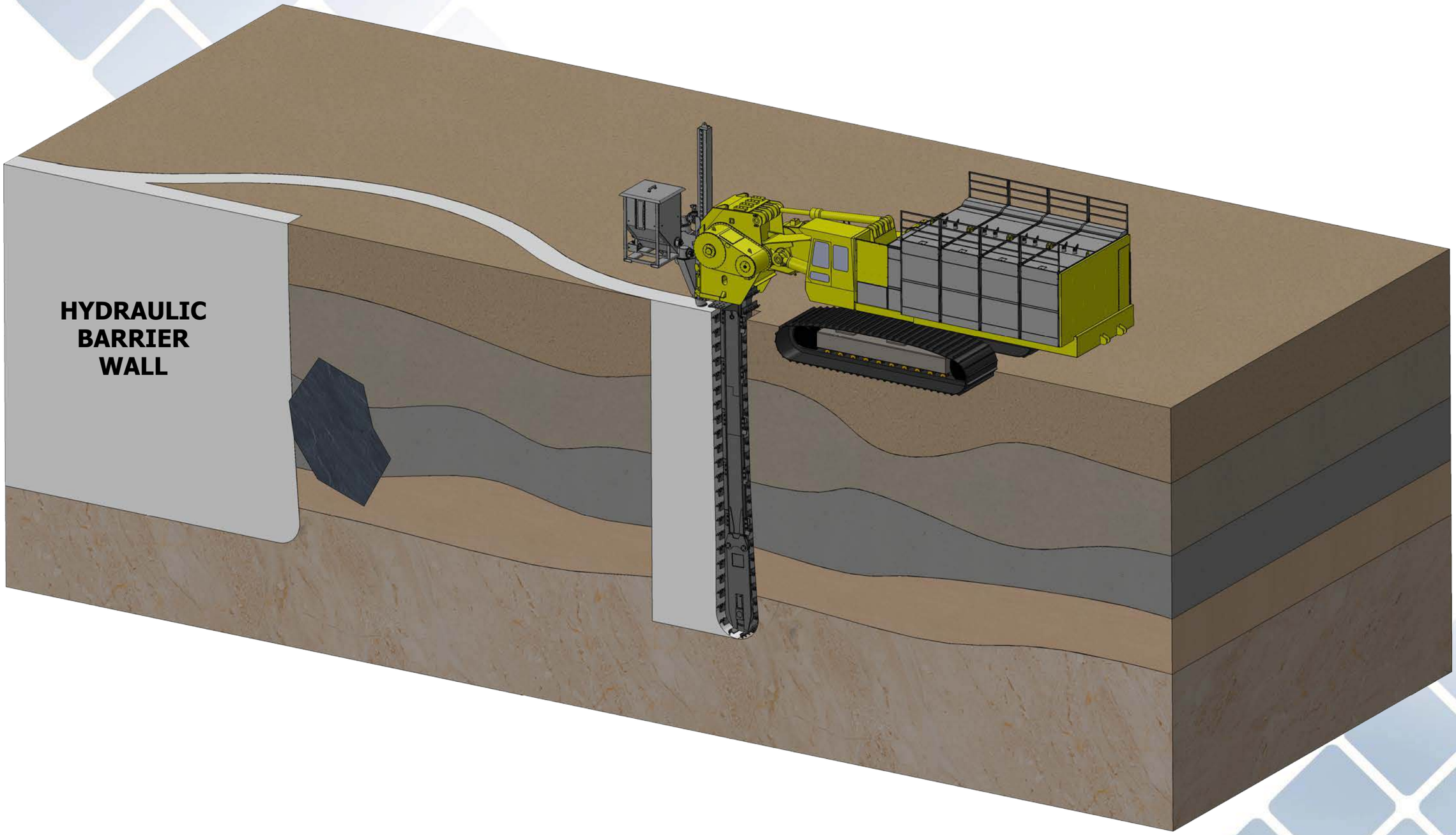
ONE PASS TRENCHING

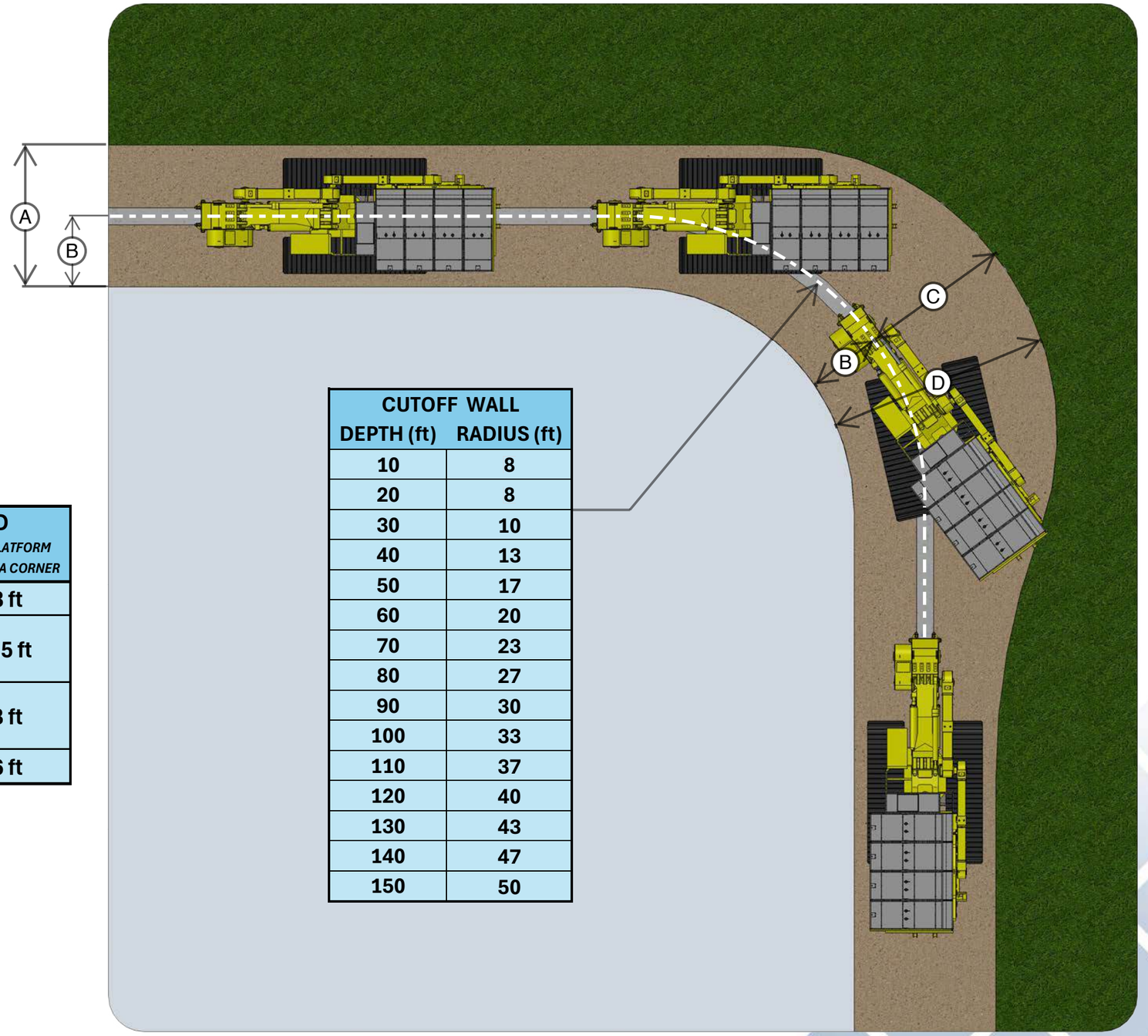
BYPASSING AN OBSTRUCTION



DEWIND
ONE PASS TRENCHING

PLATFORM SPECS AT A CORNER

TRENCHER	A *MINIMUM PLATFORM WIDTH*	B *CENTER OF CUTOFF WALL TO INSIDE EDGE OF PLATFORM*	C *CENTER OF CUTOFF WALL TO OUTSIDE EDGE OF PLATFORM AT A CORNER*	D *TOTAL PLATFORM WIDTH AT A CORNER*
MT-1000	22 ft	11 ft	22 ft	33 ft
MT-1600 & MT-2000	25 ft	12.5 ft	25 ft	37.5 ft
MT-3500 & MT-4500	32 ft	16 ft	32 ft	48 ft
MT-8000	44 ft	22 ft	44 ft	66 ft



CUTOFF WALL DEPTH (ft)	CUTOFF WALL RADIUS (ft)
10	8
20	8
30	10
40	13
50	17
60	20
70	23
80	27
90	30
100	33
110	37
120	40
130	43
140	47
150	50

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May 20, 2022

Hydraulic Barrier Wall
Quality Control Measures

Dry Additive Method

This is an example of Quality Control testing standards, testing equipment, and specified measures, with emphasis on how they apply, for the continuous One Pass Trenching in-situ method of installing a soil-mixed hydraulic barrier wall.

Contractor Staking Alignment

Contractor Staking must provide two rows of stakes offset from the center of trench alignment.

- Row 1; 6'-1" (dependent on trencher size) offset and every 20 ft where trencher tracks can run alongside of stake centering the trencher boom.
- First Row stake should be labeled with station, alignment surface elevation, and bottom of barrier wall elevation.
- Row 2; Offset just off the work platform, every 50 ft, and a safe distance from construction traffic.
- Second Row stake should be labeled with offset distance of the barrier wall alignment.

Laser Depth Control

- A laser receiver is mounted to the trencher and will follow a horizontal plane or a specified grade. A nearby surveyed hub elevation sets the benchmark for the laser. The depth of the boom is referenced from the bench marked elevation to establish a profile elevation. The target elevation can be achieved within +/- 1/10th of a foot to account for operational tolerances

Global Position System (GPS) Depth and Alignment Control*

- A GPS option requires a CAD file of the alignment and bottom of wall elevations. DeWind can upload this file to the trencher. The GPS Data Logger can save real time data for As-built information. A csv file can be exported from the Data Logger and provided. From this csv file, an As-Built alignment and profile can be made by Others. DeWind can provide the data from the GPS logger for others to utilize further.

  **This method must be known prior to bid, or the typical Contractor Staking and Laser Depth will be used.*

Verticality

- Transverse Verticality (perpendicular to the trench alignment)-The work platform must be leveled side-to-side within project specified tolerance to achieve transverse verticality tolerance.
- Longitudinal Verticality (parallel to the trench alignment)-A sensor on the digging box displays to the trencher operator the inclination of the boom. The indicator is at the boom end closest to the operator cab. It is for operator use only as an indicator for boom position and should not be used for data attributed to the continuous trench or confused with transverse verticality.

Continuity

- A DeWind One Pass Trench installation is a continuous trench installation method. There is no overlapping of panels, shafts, or piles.
- Installation can resume on a following shift by remixing the previous shift's installation approximately 1 to 2 feet. The overlap is ensured, and an extended overlap length is not necessary. A longer overlap creates more ambiguity within the wall section. There is no separate mix design for overlap sections and the spoils volume is larger than a normal section and the barrier wall's specified performance will be exceeded.

Homogeneity

- Dry powder additives are used with DeWind's patented auger delivery method.
- The One-Pass Trencher mixes the soil profile continuously from top to bottom with a chain speed up to 14 feet/second.
- Slump may vary slightly with greater depths as higher pressure at the bottom of the trench forces the mixing water to the top. At lesser depths there is little difference between the mixed material at the top or the bottom using DeWind's One-Pass Trencher.
- The One Pass Trenching method uses fewer additives as compared to other installation methods. The quantity, and frequency, of installation sampling can be reduced for post-installation testing those other methods may require.
- There is no chance for voids and no need for soundings. The homogenous mixture and even distribution of additives ensures consistent permeability, and strengths at any depth.

Trench Width Options

- Standard trench widths vary 1.5', 2', 2.5', 3', 4', 6', 12' and custom widths are an option if necessary.

Testing Standards

- American Society for Testing and Materials (ASTM) for materials and Quality Control
- American Petroleum Institute (API) for bentonite material

Additives

- Manufacturer Certificate of Material Compliance furnished when shipped.
- Powder additives may be stored in dry a Bulk Trailer, Silo, or super-sack aggregate bag.
- Water used for soil mixing is assumed to be of good quality for mixing with additives.

DeWind One Pass Trenching Deep Sampling Methods

- Method 1 – Trencher Chain Sampler
  A bailer type sampler is attached to the trencher mixing chain. The chain is reversed into the soil-bentonite mix to a depth below the surface. The trencher chain is put in standard cutting rotation and the sampler is then raised. The reversing action retrieves the bulk sample at the specified depth. The sample is then brought to the surface for inspection or testing. This method requires the trencher to pause cutoff wall installation.

- Method 2 – Excavator Mounted Deep Sampler
  A bailer type sampler is attached to a cable wench that lowers the sampler into the soil-bentonite mix. At the specified depth, the sampler is lifted-up and the bulk sample is retrieved for testing at surface. This method does not require the trencher to pause cutoff wall installation and done with an additional operation using an excavator.

The excavator mounted deep sampler is 16.6' long with a door for sampling 1.6' from bottom of the sampler. A measured length of cable is attached to Deep Sampler when lowered. Cable length plus 15' is where sample is taken when Deep Sampler is raised back towards the surface.

Due to the height of the collection port on the sampling equipment itself, the sampler can be lowered to near the bottom of the Seepage Barrier Wall within about 2 feet, but not at the actual bottom of the trench.

Wet Bulk Sampling

- Due to the homogenous mixing from top to bottom of the One Pass Trencher and it's increased speed with accuracy placing materials.

With every 50 feet in depth, a minimum of 1 station location a day is suggested in addition to the following maximums:

Bulk Sample	*Depth*	*Between Stations*
1 Each	*0' ≤ 50'*	*200'*
2 Each	*0' to 100'*	*100'*
3 Each	*0' to 150'*	*50'*

- If a cement additive is used and wet bulk sampling is needed, the wet bulk sampling must occur within 20 minutes of it's original placement. If subsequent wet bulk sample depths are required, for every depth bulk sample taken it must move along the alignment to ensure collection of the sample has occurred within 20 minutes of it's placement.
- Sampling depths must be provided by the owner's representative or engineer with timely notice to sufficiently prepare for the bulk sample extraction.
- Sampling of wet bulk samples are screened with ½" screen if soil-mixed materials, or aggregates, are present that are greater than ½".

Soil-Mixed Backfill Testing

- *Bulk Density* (ASTM C29/C29) M-particularly of interests for gravity dams to ensure free body diagram of the gravity dam isn't compromised.
- *Slump* (ASTM C143)-slump typically is between 5 to 6 inches for the One Pass Trencher.
- *Temperature (*ASTMC31) – pocket type thermometer can be used when freezing of cementitious materials are a concern. Often ground conditions, do permit installation though ambient air temperatures may be below freezing.
- *Hydraulic Conductivity* (ASTM D5084)
  - 3"x 6" cylinder molds
  - $\leq 1x10^{-5}$ cm/sec (temporary applications like dewatering)
  - $\leq 1x10^{-6}$ cm/sec (most common)
  - $\leq 1x10^{-7}$ cm/sec (strict compliance at a 10 test running average with none greater than $5x10^{-7}$ cm/sec)
  - The picture below is of a large capacity lab for hydraulic conductivity testing. Most labs cannot handle the quantity of sampling needed for most hydraulic barrier wall projects for timely results.

ASTM D 5084 – Method C (falling head, rising tailwater)

- *Unconfined Compressive Strength* (ASTM D2166)
  - 3”x 6” cylinder molds
  - The most useful test frequencies are 14-, and 28-day intervals with the best early indication coming from a 14 day test. Additional, early strength tests may be performed at 3, 7, or 56 days during an early demonstration section to witness the curing process for specific project reference but is not necessary to complete the entire project.
  - If a slag additive is used, a 56-day test may be needed to capture the slow curing process of the slag contribution.

<u>Daily Installation Reports</u>

- Stations and depths
- Additive placement rates
- Material concentration calculations
- Injection and usage rates
- Summary statements of daily activities
- Quality Control tests
- As-Built alignment and elevation data can be obtained from a csv file

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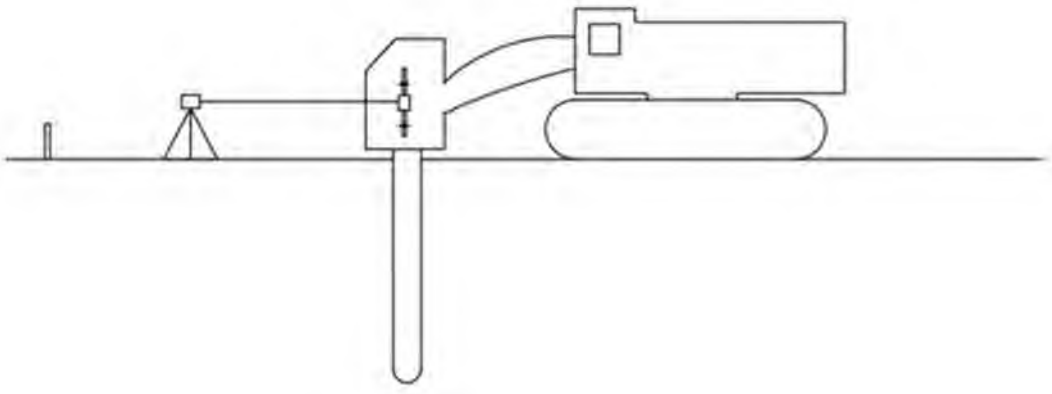
Laser Level Monitoring System

A laser level can be set up to a horizontal or sloped plane (example 5% grade). The laser plane is independent of the surface grade. The trencher boom is guided by the laser plane which is set to a design plane grade. Any changes, or control points, with design grade need to be marked so a new laser plane can be established and followed by the trencher.

1. Find a known elevation for: a) hub stake, b) an object near the work zone, or c) work platform.
2. At a known elevation marker, set up the laser beacon on a tripod. Find the elevation of the laser beam and the elevation of the receiver mounted on the digging box using a grade rod from the known elevation.
3. Identify the target bottom elevation of your trench from design drawings.
4. Measure the total length: For soil mixing, measure from the bottom of the digging box to the end of cutters on the boom. For collection trenches, measure the length of the hopper; if laying pipe, then measure only to where the pipe exits the sweep.
5. Subtract the bottom of trench elevation from the laser beam elevation and record the difference. Subtract the length of boom from the difference to establish where the receiver must be relative to the bottom of the digging box.

Example:
Laser beam mount elevation = 640’
Bottom trench elevation = 605’
Length from bottom of digging box to end of cutters = 30’
640’-605’= 35’ to bottom of trench.
Boom length is 30’, so 35’ – 30’ = **+5’**
This means the *receiver must be 5’ above the bottom of the digging box* for a bottom of trench elevation of 635’ to be maintained.



PetroFIX™
Remediation Fluid

TAKE CONTROL

You Design, You Apply.

PetroFIX™
Remediation Fluid

Key Benefits:

- Fast Results
- Affordable and Reliable
- Excellent Distribution Properties
- Simple Online Design Assistant
- Full Customer Support
- Safe to Use

Easy to Apply:

- Inject Under Low Pressure
- Pour Into Open Excavations
- Add to UST or Pipework Bedding

Target Contaminants:

- Petroleum Hydrocarbons – both Gasoline and Diesel range
- BTEX
- MTBE
- Naphthalene
- PAHs

Overview

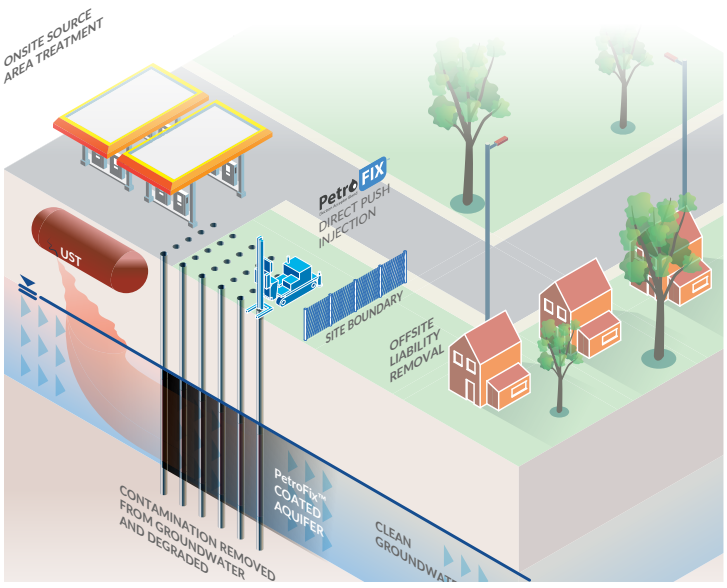
PetroFix: Technology at-a-glance

PetroFix™ is a cost-effective solution for petroleum spills that equips environmental professionals with tools to take control of the remediation process. This technology works hand-in-hand with the PetroFix Design Assistant™, an online tool that enables users to design and apply individually-tailored remediation plans.

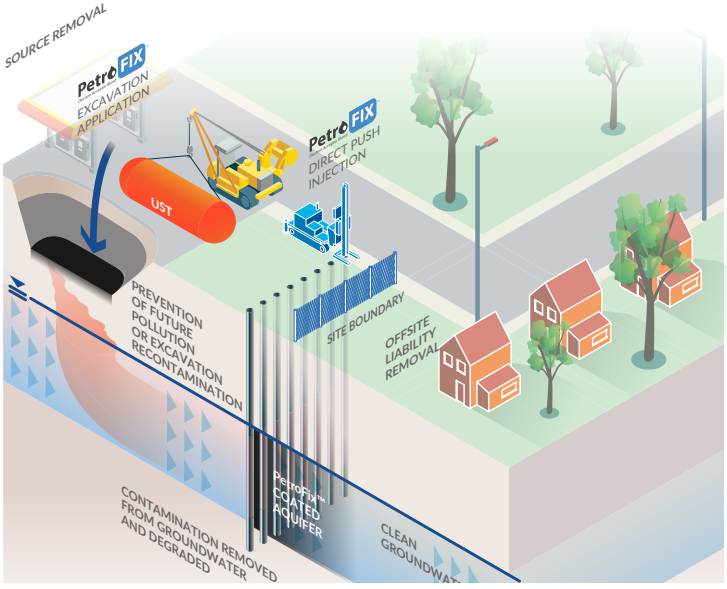
A Dual-Functioning, Activated Carbon Remedial Technology for Treating Petroleum Hydrocarbons

Petrofix has a dual function: it removes hydrocarbons from the dissolved phase by adsorbing them onto activated carbon particles and then stimulates hydrocarbon biodegradation by adding electron acceptors. The environmentally-compatible formulation of micron-scale activated carbon (1-2 microns) is combined with both slow and quick-release inorganic electron acceptors. Practitioners can select between a sulfate and nitrate combination blend (recommended) or sulfate only for the additional electron acceptors required.

Source Treatment Using a Grid Injection Design



Excavation with a Barrier Application Design

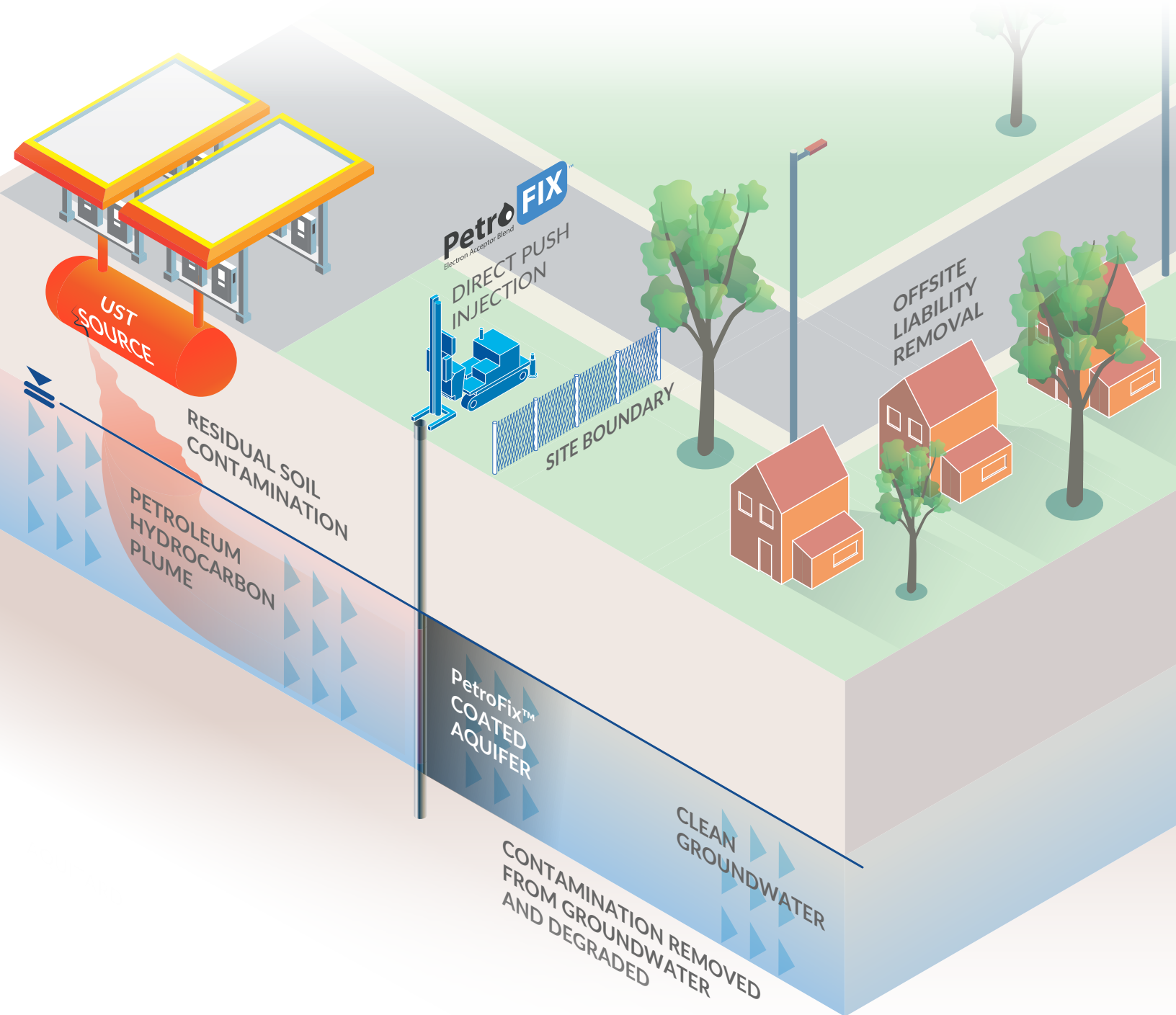


A Wide Range of Applications

- Target hydrocarbon plumes caused by recent spills or old leaks
- Treatment barriers to prevent plume migration and remove off site liability
- Excavation applications to prevent recontamination and mitigate future releases
- Suppress vapor risk from subsurface hydrocarbon contamination
- Protect against future pollution events by coating bedding material around tanks and pipework

Safe to Use

PetroFix is made from natural nonhazardous carbon and nutrients. It requires only dilution before application.



The PetroFix Design Assistant: You Design

Use our Online Software to Generate an Estimate When you Need it

To make applying PetroFix simple and easy to use, REGENESIS created an innovative and effective online tool for developing recommended dosage and designs for your site. The PetroFix Design assistant equips environmental professionals with the tools to design individually-tailored remediation plans. This self-design, self-apply tool guides users toward effective designs that will yield the best results and allows users to easily order PetroFix through REGENESIS' customer service department. Educational resources and best practices are also offered along with an online video tutorial which walks the user step-by-step through the design and ordering process.

1 Create Your Account

Begin by creating an account with details about your site including the surface area and average vertical thickness and whether or not NAPL is present at this time.

2 Recommended Treatment

After providing the soil grain size and the groundwater contaminant levels, the Design Assistant will provide results showing the suggested treatment including the recommended volume, dosing, and product required for treatment.

3 Order PetroFix

Once all areas for the site are submitted, start the order process directly within the Design Assistant.

Simple
Easy to Use

Flexible
Designs Tailored to Your Site

Fast
No Waiting for a Design

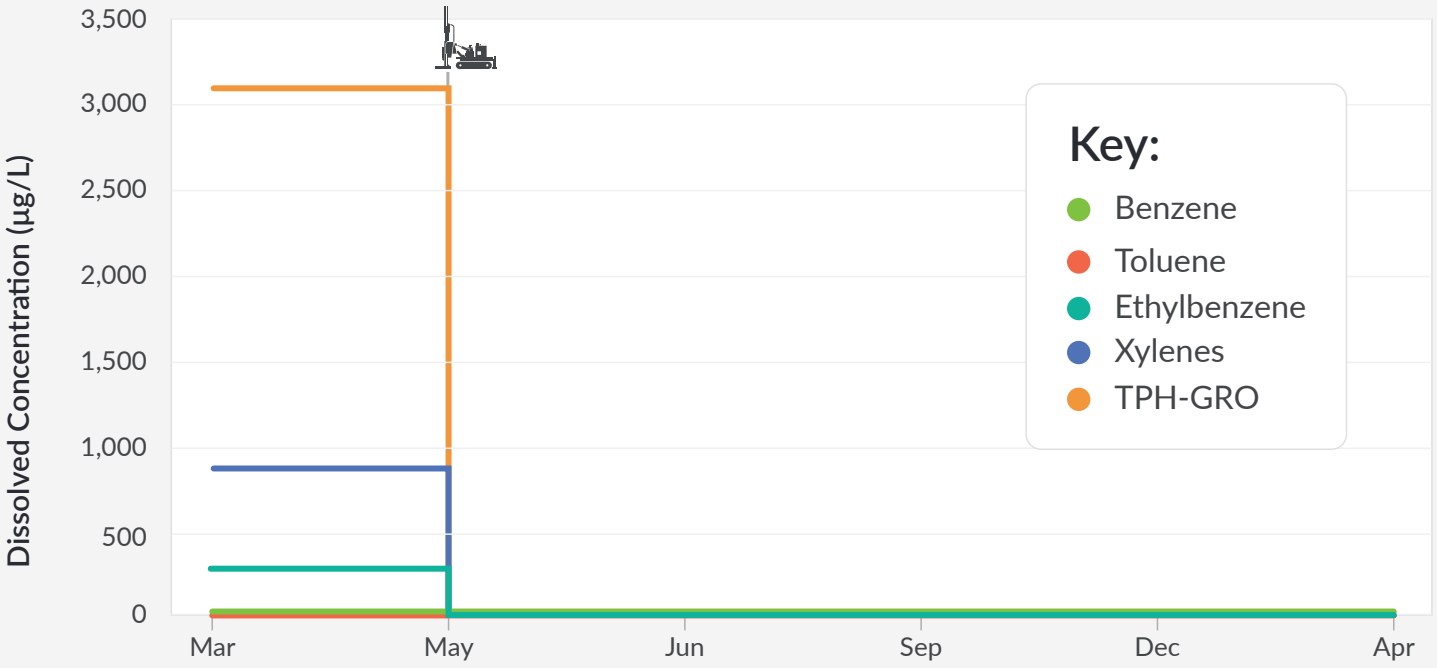
Fast and Effective

Case Study: PetroFix Provides Rapid and Long-Lasting Results

PetroFix is simply mixed with water and applied

A multi-use convenience store located in Panama City Beach, Florida was impacted by contamination from a leaking underground storage tank (UST). A 2007 report determined that 1,000 gallons of fuel were discharged from this tank and subsequently contaminated the soil and water table.

After various remediation strategies failed to adequately reduce groundwater contaminant concentration levels, A new strategy was needed. PetroFix proved to be the ideal solution for this site because it is easy to apply, is highly versatile, and promises rapid, lasting results. Just 60 days after the PetroFix injection, the contaminant concentrations were below detection and have remained so after one year post-injection. PetroFix was able to degrade the petroleum contaminants within a fast-moving, 200-foot plume.



PetroFix was able to degrade petroleum contaminants within a fast-moving 150-yard plume. Within just 60 days post-injection all contaminant concentrations reached non-detect.

Phone: (949) 366-8000

www.PetroFix.com

www.REGENESIS.com

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REGENESIS®

PetroFix™ Specification Sheet

PetroFix Technical Description

PetroFix is a new remedial technology designed to treat petroleum fuel spills in soil and groundwater. A simple-to-use fluid that can be applied under low pressure into the subsurface or simply poured into open excavations, PetroFix offers a cost-effective solution for environmental practitioners and responsible parties to address petroleum hydrocarbon contaminants quickly and effectively.

PetroFix has a dual function; quickly removing hydrocarbons from the dissolved phase, by absorbing them onto the activated carbon particles, while added electron acceptors stimulate hydrocarbon biodegradation in-place. PetroFix does not require high pressure "fracking" for application and can be applied with ease using readily available equipment associated with direct push technology.

The remedial fluid is a highly concentrated water-based suspension consisting of micron-scale activated carbon and biostimulating electron acceptors. PetroFix has a viscosity higher than water and is black in appearance. Its environmentally-compatible formulation of micron-scale activated carbon (1-2 microns) is combined with both slow and quick-release inorganic electron acceptors. A blend of additional electron acceptors is included along with the PetroFix fluid. Practitioners can select between a sulfate and nitrate combination blend (recommended), or sulfate only for the additional electron acceptors required.

PetroFix Design Assistant

REGENESIS has developed a proprietary web-based design assistant called PetroFix Design Assistant™ that provides environmental professionals the ability to input their site parameters, determine the required product amount, and order the product through REGENESIS' customer service. The PetroFix Design Assistant includes defaults and warnings throughout the process to guide users toward effective designs that will offer best results.

To access the PetroFix Design Assistant, create an account and login at www.PetroFix.com

PetroFIX™ Remediation Fluid

PetroFix Fluid Chemical Composition	Properties
Activated Carbon - CAS 7440-44-0 > 30% Calcium Sulfate Dihydrate - CAS 10101-41-4 < 10%	**Appearance:** Black Fluid **Viscosity:** 1500-3500 cP (corn syrup-like) **pH:** 8-10

PetroFix Electron Acceptor Powder Chemical Composition	Properties
OPTION 1 - EA Blend (preferred) Sodium Nitrate - CAS 7631-99-4, 50% Ammonium Sulfate - CAS 7783-20-2, 50% OPTION 2 - EA Blend NF Potassium Sulfate - CAS 7778-80-5, 50% Ammonium Sulfate - CAS 7783-20-2, 50%	**Appearance:** White Powder

Storage and Handling Guidelines

Storage:

- Store away from incompatible materials
- Store in original closed container
- Store at temperatures between 40°F and 95°F
- Do not allow material to freeze or store in direct sunlight.
- Freezing and hot weather technical memo can be accessed at www.petrofix.com/resources or at this ***link*** here.
- Dispose of waste and residues in accordance with local authority requirements

Handling:

- Never add additives to solution prior to mixing with water
- Wear appropriate personal protective equipment
- Do not taste or ingest
- Observe good industrial hygiene practices
- Wash hands after handling

Applications

PetroFix is mixed with water on-site and easily applied onto the sub-surface using low pressure injections, or mixed in excavations. PetroFix is compatible with and can be used with ORC Advanced® to expedite rates of biodegradation. For more information about co-application with ORC Advanced, contact REGENESIS.

REGENESIS®

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SAFETY DATA SHEET

1. Identification

Product identifier **PetroFix**

Other means of identification None.

Recommended use Remediation of contaminants in soil and groundwater.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name REGENESIS

Address 1011 Calle Sombra
San Clemente, CA 92673 USA

General information 949-366-8000

E-mail CustomerService@regenesis.com

Emergency phone number For Hazardous Materials Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC 24/7 at:

USA, Canada 1-800-424-9300

International 1-703-527-3887

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Activated carbon <10 µm	7440-44-0	>25
Calcium sulfate dihydrate	10101-41-4	<10
Additive	-	<2

Composition comments All concentrations are in percent by weight unless otherwise indicated.
Components not listed are either non-hazardous or are below reportable limits.
Chemical ingredient identity and/or concentration information withheld for some or all components present is confidential business information (trade secret), and is being withheld as permitted by 29 CFR 1910.1200(i).

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides, nitrogen oxides, sulfur oxides, calcium oxide.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	This material will not burn until the water has evaporated. Residue can burn. When dry may form combustible dust concentrations in air.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Activated carbon <10 µm (CAS 7440-44-0)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Activated carbon <10 µm (CAS 7440-44-0)	TWA	2 mg/m3	Respirable fraction.
Calcium sulfate dihydrate (CAS 10101-41-4)	TWA	10 mg/m3	Inhalable fraction.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Skin protection	
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Aqueous suspension.
Color	Black.
Odor	Odorless.
Odor threshold	Not available.
pH	8 - 10
Melting point/freezing point	32 °F (0 °C).
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Vapor pressure	Property has not been measured.
Vapor density	Property has not been measured.
Relative density	Property has not been measured.
Solubility(ies)	
Solubility (water)	Not determined.
Partition coefficient (n-octanol/water)	Not applicable, product is a mixture. Not applicable, product is a mixture.
Auto-ignition temperature	Property has not been measured.
Decomposition temperature	Property has not been measured.
Viscosity	Not available.
Other information	
Density	Property has not been measured.
Explosive properties	Not explosive.
Flammability	This material will not burn until the water has evaporated.
Kinematic viscosity	Property has not been measured.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

Conditions to avoid	May generate combustible dust if material dries. Contact with incompatible materials. Avoid drying out product.
Incompatible materials	Acids. Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Spray mist may irritate the respiratory system. For dry material: Dust may irritate respiratory system.
Skin contact	Prolonged or repeated exposure may cause minor irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components	Species	Test Results
Activated carbon <10 µm (CAS 7440-44-0)		
Acute		
Oral		
LD50	Rat	> 10000 mg/kg

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation. Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation. Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Respiratory sensitization	Not a respiratory sensitizer. Based on available data, the classification criteria are not met.
Skin sensitization	This product is not expected to cause skin sensitization. Based on available data, the classification criteria are not met.

Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Based on available data, the classification criteria are not met.
Carcinogenicity	Not classifiable as to carcinogenicity to humans. Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects. Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Not classified. Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Not classified. Based on available data, the classification criteria are not met.
Aspiration hazard	Not an aspiration hazard. Based on available data, the classification criteria are not met.
Chronic effects	Prolonged inhalation may be harmful.
Further information	No other specific acute or chronic health impact noted.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.

Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	None known.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Toxic Substances Control Act (TSCA)	All components of the mixture on the TSCA 8(b) inventory are designated “active”.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Calcium sulfate dihydrate (CAS 10101-41-4)

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Activated carbon <10 µm (CAS 7440-44-0)
Calcium sulfate dihydrate (CAS 10101-41-4)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 15-February-2018

Revision date 02-December-2021

Version # 02

HMIS® ratings

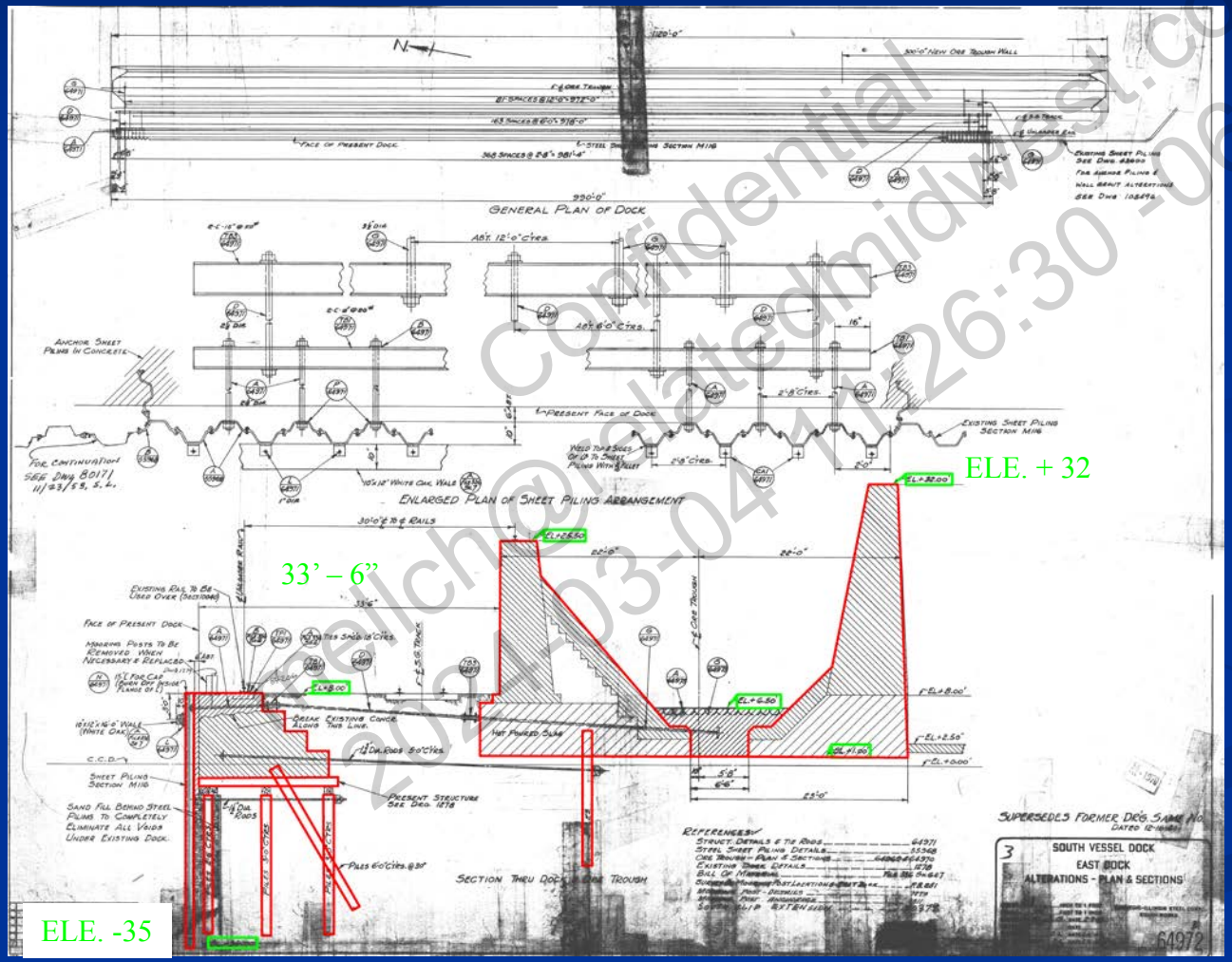
Health: 1
Flammability: 1
Physical hazard: 0
Personal protection: B

NFPA ratings

Disclaimer

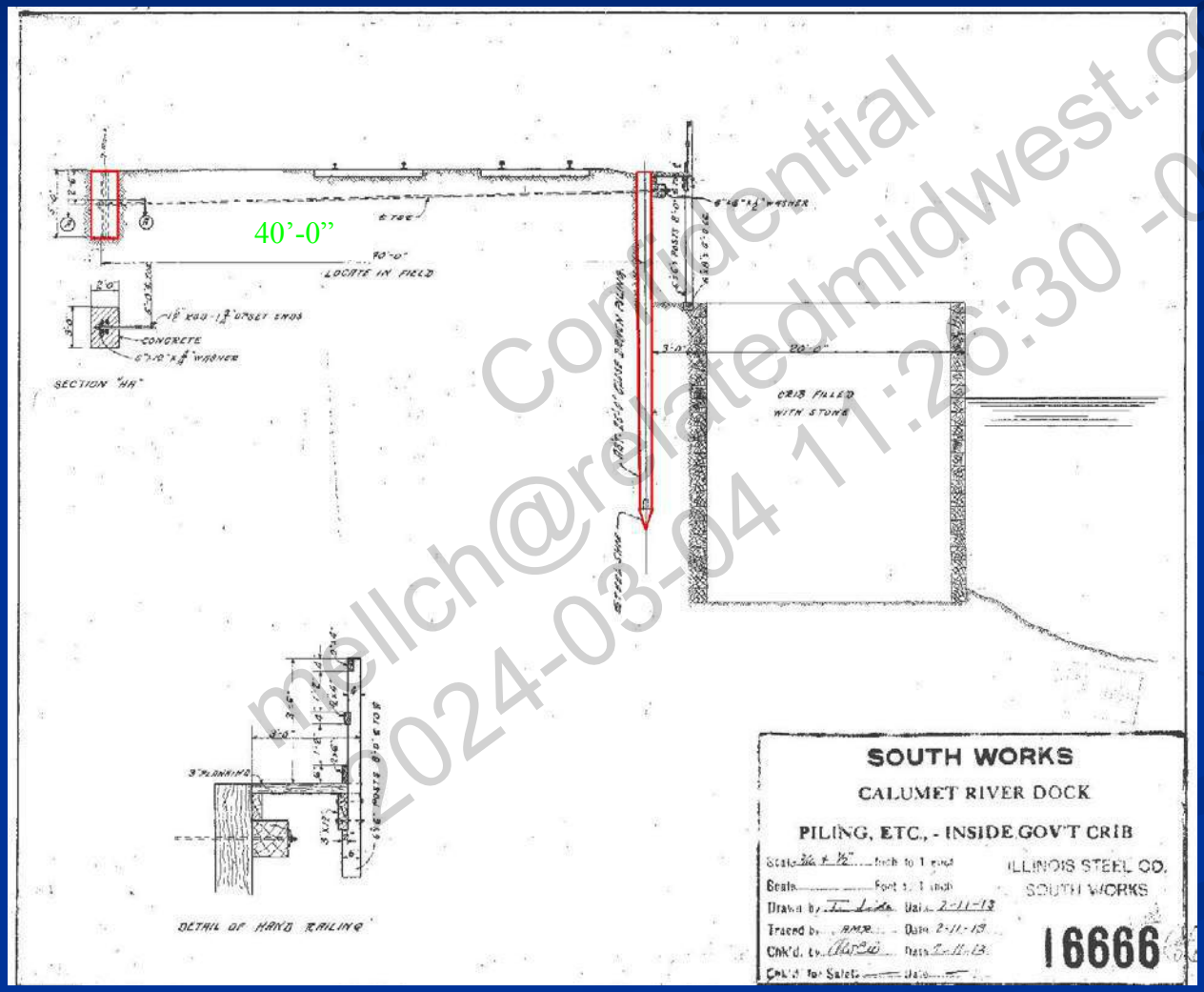
Regenesis cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

South Slip East Section



Confidential
relich@relatedmidwest.com
2024-03-04 11:26:30 -0600

Calumet River Seawall Section



Confidential
mellch@relatedmidwest.com
2024-03-04 11:26:30 -0600

River Wall

Steel sheet piling along South Vessel Slip

Concrete wall at Calumet River

PIONEER Engineering & Environmental Services, LLC	**8080 S. Lake Shore Dr.** **Chicago, Illinois**	**PHOTOGRAPHIC LOG**
	24-0124-103	August 2025

Appendix G Groundwater Ordinance and Geotextile Specifications

The following is said ordinance as passed:

Be It Ordained by the City Council of the City of Chicago:

SECTION 1. Chapter 11-8 of the Municipal Code of Chicago is hereby amended by adding a new Section 11-8-385 and by amending Section 11-8-390 by inserting the language in italics, as follows:

11-8-385 Potable Water Defined.

Potable water is any water used for human consumption, including, but not limited to water used for drinking, bathing, washing dishes, preparing foods and watering gardens in which produce intended for human consumption is grown.

11-8-390 Prohibited Use Of Secondary Water; *Prohibited Installation Of New Potable Water Supply Wells.*

No secondary water shall overflow into or be discharged into any surge tank, storage tank, or reservoir, or shall in any way be piped or conveyed into the water supply system of any building, structure, or premises to become a part of or be mixed with the fresh water supply from the mains of the Chicago Waterworks System either inside of the premises or in the water service pipe. Secondary water shall not be piped to or used in any plumbing fixture, or for cooling crushers, rollers, or mixers where foods, candies, liquids or materials are manufactured for human or animal consumption. No connection, tap, or opening shall be made in a water distribution system other than an approved water distribution system which will permit such water being used for drinking.

Wherever the fire-protective equipment in any building, structure or premises has service from the Chicago Waterworks System, no pipe or other conduit which conveys secondary water shall be cross-connected to the fire-protective equipment. All fire-protective equipment connected to the Chicago Waterworks System shall be constructed in such manner that

ORIGINAL

all tanks, pipes, pumps, surge tanks, and fire hydrants can be thoroughly drained, flushed and cleaned by the owners of such equipment and premises and there shall be no direct connections from the tanks, pipes and other equipment to any drainage pipes or sewers. *No groundwater well, cistern or other groundwater collection device installed after the effective date of this amendatory ordinance may be used to supply any potable water supply system, except at points of withdrawal by the City of Chicago or by units of local government pursuant to intergovernmental agreement with the City of Chicago.*

SECTION 2. Section 2-30-030 of the Municipal Code of Chicago is hereby amended by deleting the language in brackets and inserting the language in italics, as follows:

2-30-030 Commissioner -- Powers And Duties Designated.

The commissioner of the environment shall have the following powers and duties:

* * * * *

(21) To enter into grant agreements, cooperation agreements and other agreements or contracts with governmental entities, private business and civic and community groups necessary to implement the Green Streets Program and other urban forestry, beautification and environmental enhancement programs; *and agreements to implement the State of Illinois Site Remediation Program;*

SECTION 3. This ordinance shall be in full force and effect from and after its passage and approval.

ORIGINAL

116 Form C.C. 19 3M 7-14-64 (17265)

STATE OF ILLINOIS, }
County of Cook. } ss.

I, JAMES J. LASKI, City Clerk of the City of Chicago in the County of Cook and State of Illinois, DO HEREBY CERTIFY that the annexed and foregoing is a true and correct copy of that certain ordinance now on file in my office amending Title 11, Chapter 8 and Title 2, Chapter 30 of Municipal Code of Chicago by establishing the definition and regulation of the potable water supply system and Empowerment of Commissioner of Environment for Implementation of State of Illinois Site Remediation Program.

I DO FURTHER CERTIFY that the said ordinance was passed by the City Council of the said City of Chicago on the fourteenth (14th) day of May, A.D. 1997 and deposited in my office on the fourteenth (14th) day of May, A.D. 19 97.

I DO FURTHER CERTIFY that the vote on the question of the passage of the said ordinance by the said City Council was taken by yeas and nays and recorded in the Journal of the Proceedings of the said City Council, and that the result of said vote so taken was as follows, to wit: Yeas 47, Nays none.

I DO FURTHER CERTIFY that the said ordinance was delivered to the Mayor of the said City of Chicago after the passage thereof by the said City Council, without delay, by the City Clerk of the said City of Chicago, and that the said Mayor did approve and sign the said ordinance on the fourteenth (14th) day of May, A.D. 19 97

I DO FURTHER CERTIFY that the original, of which the foregoing is a true copy, is entrusted to my care for safe keeping, and that I am the lawful keeper of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of the City of Chicago aforesaid, at the said City, in the [L. S.] County and State aforesaid, this third (3rd) day of February, A.D. 19 98

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JAMES J. LASKI, City Clerk.

ORIGINAL

City of Chicago
Richard M. Daley, Mayor

Department of Environment

Henry L. Henderson
Commissioner

Twenty-fifth Floor
30 North LaSalle Street
Chicago, Illinois 60602-2575
(312) 744-7606 (Voice)
(312) 744-6451 (FAX)
(312) 744-3586 (TTY)

http://www.ci.chi.il.us

July 1, 1997

Mr. Gary P. King
Manager, Division of Remediation Management
Bureau of Land
Illinois Environmental Protection Agency
1001 N. Grand Avenue, East
Springfield, IL 62702

Re: Chicago Ordinance No. 097990

Dear Mr. King:

Pursuant to 35 Ill. Adm. Code 742.1015(I)(2), Section 11-8-385 and 11-8-390 of the Municipal Code of Chicago, as amended by Ordinance No. 097990, apply to all areas within the corporate limits of the City of Chicago.

Sincerely,

Henry L. Henderson
Commissioner

cc: Mort Ames
Asst. Corp. Counsel

Chicago Blue Bag Recycling
Please Recycle!

EXHIBIT
B

Chicago Works
SCREENED
MM

MEMORANDUM OF UNDERSTANDING BETWEEN THE CITY OF CHICAGO, ILLINOIS AND THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY REGARDING (A) THE USE OF A LOCAL POTABLE WATER SUPPLY WELL ORDINANCE AS AN ENVIRONMENTAL INSTITUTIONAL CONTROL AND (B) THE PROVISION OF INFORMATION RELATING TO "NO FURTHER REMEDIATION" DETERMINATIONS BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY TO THE CITY OF CHICAGO

I. PURPOSE AND INTENT

A. This Memorandum of Understanding ("MOU") is entered into between the City of Chicago, Illinois ("the City") and the Illinois Environmental Protection Agency ("Illinois EPA") for the purpose of (a) satisfying the requirements of 35 Ill. Adm. Code 742.1015 for the use of potable water supply well ordinances as environmental institutional controls and (b) ensuring that the City will be provided with copies of all "No Further Remediation" letters or determinations issued by the Illinois EPA pursuant to specific programs for sites located within the boundaries of Chicago, Illinois, in order to enable the City to maintain a complete and up-to-date registry of sites as required by 35 Ill. Adm. Code 742.1015(i)(5). The Illinois EPA has reviewed Sections 11-8-385 and 11-8-390 of the Municipal Code of Chicago as amended by Ordinance Number 097990 ("Potable Water Supply Well Ordinance"), attached as Attachment A, and has determined that the Municipal Code of Chicago prohibits the installation and use of new potable water supply wells by private entities but will allow the installation of potable water supply wells by the City and other units of local government pursuant to intergovernmental agreements with the City. In such cases, 35 Ill. Adm. Code 742.1015(a) provides that the City may enter into an MOU with the Illinois EPA to allow the use of the ordinance as an institutional control.

B. The intent of this Memorandum of Understanding is to (a) specify the responsibilities that must be assumed by the City to satisfy the requirements for MOUs as set forth at 35 Ill. Adm. Code 742.1015(i), and (b) require the Illinois EPA to provide the City with copies of all "No Further Remediation" letters or determinations that the Illinois EPA issues for sites located within the City of Chicago to enable the City to maintain a registry of sites pursuant to 35 Ill. Adm. Code 742.1015(i)(5).

II. DECLARATIONS AND ASSUMPTION OF RESPONSIBILITY

A. In order to ensure the long-term integrity of the Potable Water Supply Well Ordinance as an environmental institutional control and that risk to human health and the environment from contamination left in place in reliance on the Potable Water Supply Well Ordinance is effectively managed, the City hereby assumes the following responsibilities pursuant to 35 Ill. Adm. Code 742.1015(i):

1. The City will notify the Illinois EPA Bureau of Land of any changes to or requests for variance from the Potable Water Supply Well Ordinance at least 30 days prior to the date the local government is scheduled to take action on the proposed change or request (35 Ill. Adm. Code 742.1015(i)(4));

2. The City will maintain a registry of all sites within its corporate limits that have received "No Further Remediation" determinations from the Illinois EPA pursuant to specific programs (35 Ill. Adm. Code 742.1015(i)(5));

3. If the City determines to install a new potable water supply well(s), the City will review the registry of sites established under paragraph II.A.2. prior to siting such potable water supply well(s) within the area covered by the Potable Water Supply Well Ordinance, pursuant to 35 Ill. Adm. Code 742.1015(i)(6)(A);

4. If the City determines to install a new potable water supply well(s), the City will determine whether the potential source of potable water has been or may be affected by contamination left in place at the sites tracked and reviewed under paragraphs II.A.2. and 3. (35 Ill. Adm. Code 742.1015(i)(6)(B)); and

5. If the City determines to install a new potable water supply well(s), the City will take action as necessary to ensure that the potential source of potable water is protected from contamination or treated before it is used as a potable water supply (35 Ill. Adm. Code 742.1015(i)(6)(C));

6. If the City enters into intergovernmental agreements under Section 11-8-390 of the Municipal Code of Chicago to allow other units of local government to install new potable water supply well(s) within the corporate limits of the City, the City will require compliance with the procedures set forth in paragraphs II.A.3., 4., and 5. as a part of such agreements.

7. Notification under paragraph II.A.1. above, or other communications concerning this MOU directed to the Illinois EPA, shall be addressed to:

Manager, Division of Remediation Management
Bureau of Land
Illinois Environmental Protection Agency
P.O. Box 19276
Springfield, IL 62794-9276

B. In order to ensure the long-term integrity of the Potable Water Supply Well Ordinance as an environmental institutional control and that risk to human health and the environment from contamination left in place in reliance on the Potable Water Supply Well Ordinance or other specific programs can be effectively managed, the Illinois EPA hereby assumes

the following responsibilities:

1. The Illinois EPA will provide the City with copies of all "No Further Remediation" letters or determinations that it issues pursuant to 35 Ill. Adm. Code 742, and other specific programs, for sites located within the boundaries of the City at the time said letters or determinations are provided to remediation applicants.

2. Copies of "No Further Remediation" letters or determinations provided to the City pursuant to paragraph II.B.1. above, or other communications concerning this MOU directed to the City, shall be addressed to:

Commissioner
Chicago Department of Environment
25th Floor
30 North LaSalle Street
Chicago, IL 60602-2575

III. SUPPORTING DOCUMENTATION

The following documentation is required by 35 Ill. Adm. Code 742.1015(i) and is attached to this MOU:

A. Attachment A: A copy of the Potable Water Supply Well Ordinance certified by the city clerk or other official as the current, controlling law (35 Ill. Adm. Code 742.1015(i)(3)) and a statement of the authority of the City to enter into the MOU (35 Ill. Adm. Code 742.1015(i)(1)).;

B. Attachment B: Identification of the legal boundaries within which the Potable Water Supply Well Ordinance is applicable (35 Ill. Adm. Code 742.1015(i)(2)); and

IN WITNESS WHEREOF, the lawful representatives of the parties have caused this MOU to be signed as follows:

FOR: The City of Chicago, Illinois

BY: _____ DATE: July 1, 1997

Commissioner
Department of Environment
City of Chicago

FOR: Illinois Environmental Protection Agency

BY: Gary P. King DATE: July 3, 1997

(Name and title of signatory)
Mgr, Division of Remediation Management
Bureau of Land

Version 6/27/97

DEPARTMENT OF FLEET AND FACILITY MANAGEMENT
CITY OF CHICAGO

March 2, 2012

Kyle Rominger
Deputy Counsel
Illinois Environmental Protection Agency
1021 North Grand Avenue East, P.O. Box 19276
Springfield, IL 62794-9276

Dear Mr. Rominger:

Enclosed is the executed original of the amendment to the agreement between the Illinois Environmental Protection Agency and the City of Chicago regarding the Use of a Local Potable Water Supply Well Ordinance.

Thank you for your assistance with these changes.

Sincerely,

Kimberly Worthington, P.E., LEED AP
Deputy Commissioner
Bureau of Environmental Management

Enclosure

RECEIVED
Division of Legal Counsel
MAR 1 4 2012
Environmental Protection Agency

AGREEMENT TO AMEND THE MEMORANDUM OF UNDERSTANDING BETWEEN THE CITY OF CHICAGO ILLINOIS AND THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY REGARDING (A) THE USE OF A LOCAL POTABLE WATER SUPPLY WELL ORDINANCE AS AN ENVIRONMENTAL INSITUTIONAL CONTROL AND (B) THE PROVISION OF INFORMATION RELATING TO "NO FURTHER REMEDIATION" DETERMINATIONS BY THE ILLINOS ENVIRONMENTAL PROTECTION AGENCY TO THE CITY OF CHICAGO

This agreement is made and entered into by and between the Illinois Environmental Protection Agency ("IEPA") and the City of Chicago ("CITY") to amend the above referenced Memorandum of Understanding dated July 1997 ("1997 MOU").

WHEREAS, the IEPA and CITY entered into the 1997 MOU for the purpose of (a) satisfying the requirements of 35 Ill. Adm. Code 742.1015 for the use of potable water supply well ordinances as environmental institutional controls and (b) ensuring that CITY will be provided copies of all "No Further Remediation" letters or determinations issued by IEPA pursuant to specific programs for sites located within the boundaries of Chicago, Illinois, in order to enable CITY to maintain a complete and up-to-date registry of sites as required by 35 Ill. Adm. Code 742.1015(i)(5); and

WHEREAS, the 1997 MOU provided at Section II B. 2. the address for copies of "No Further Remediation" letters, determinations, or other communications concerning the MOU to be directed to the CITY's Department of Environment at 25th Floor, 30 North LaSalle Street, Chicago, Illinois 60602; and

WHEREAS, a portion of the CITY's Department of Environment has been merged into the CITY's Department of Fleet and Facility Management as of January 1, 2012, and the 1997 MOU is now being administered by the CITY under its Department of Fleet and Facility Management; and

WHEREAS, the IEPA and CITY desire to correct the address to send copies of "No Further Remediation" letters, determinations, or other communications to the CITY listed at Section II B. 2. of the 1997 MOU; and

WHEREAS, the IEPA and CITY desire for all other provisions of the 1997 MOU to remain the same.

NOW, THEREFORE, IEPA and CITY hereby agree to amend that part of Section II B. 2. of the 1997 MOU that provides the address to send copies of "No Further Remediation" letters, determinations, or other communications to the CITY as follows, with all other parts of Section II B. 2. to remain the same:

Commissioner
Chicago Department of Fleet and Facility Management
30 North LaSalle Street
Suite 300
Chicago, Illinois 60602

~~Commissioner~~
~~Chicago Department of Environment~~
~~25th Floor~~
~~30 North LaSalle Street~~
~~Chicago, Illinois 60602-2575~~

By the signatures of their authorized representatives below, the IEPA and CITY acknowledge they have read and understand this agreement and intend for this agreement to take effect upon execution.

City of Chicago, by and through the
Department of Fleet and Facility Management:

David J. Reynolds
Commissioner
Department of Fleet and Facility Management

Date: 02/02/12

Illinois Environmental Protection Agency

John L Kim
Interim Director

Date: 2/22/12

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Americas

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Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	120 (534)	120 (534)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	50 (223)	50 (223)
CBR Puncture Strength	ASTM D6241	lbs (N)	310 (1380)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.212)	
			Minimum Roll Value	
Permittivity	ASTM D4491	sec^{-1}	1.7	
Flow Rate	ASTM D4491	$gal/min/ft^2$ ($l/min/m^2$)	135 (5500)	
			Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70	

Physical Properties	Unit	Roll Sizes	
Roll Dimensions (width x length)	ft (m)	12.5 x 360 (3.8 x 110)	15 x 360 (4.5 x 110)
Roll Area	yd^2 (m^2)	500 (418)	600 (502)

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GAI-LAP-25-97

Appendix H Laboratory Analytical Reports

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 7:57:05 AM Revision 3

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-255852-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 7:57:05 AM
Revision 3

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Certification Summary 91
Chain of Custody 92
Receipt Checklists 93

Job ID: 500-255852-1 — Eurofins Chicago

Job Narrative
500-255852-1

Revision
The report being provided is a revision of the original report sent on 9/16/2024. The report (revision 3) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 11/13/2024 - Reason - The report and EDD have been revised to report the SVOCs to the MDL per client request..

Revision 2 - 12/10/2024 - Reason - The report and EDD have been revised to report to the MDL for VOCs per client request..

Receipt
The samples were received on 8/29/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

Receipt Exceptions

Received 16oz soil jar with two different sample IDs-client paper label list SB4 (0-3) and soil lid list SB5 (0-3). Already received soil jar for SB4 (0-3) with paper label and lid matching. Logged jar per sample ID on lid (SB5 0-3). Received two sets of voas with same ID of SB4 (0-3). For the SB4 (0-3) true sample client wrote in blue ink, and the other "SB4 (0-3)" being logged as SB5 (0-3) client wrote in black ink. This set was also packaged with other SB5 sample vials.

GC/MS VOA
Method 8260D: Elevated reporting limits are provided for the following sample(s). All low level vials yielded unusable data. A 1/50 dilution had to be performed from the methanol vial.SB2 (3-5) (500-255852-4)

Method 8260D: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: SB4 (0-3) (500-255852-7). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantized with this internal standard.

Method 8260D: The method blank for analytical batch 500-784821 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-785449 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The laboratory control sample (LCS) for preparation batch 500-785362 and analytical batch 500-785449 recovered outside control limits for the following analytes: 2,4-Dimethylphenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB1 (0-3) (500-255852-1), SB2 (0-3) (500-255852-3), SB2 (3-5) (500-255852-4), SB3 (0-3) (500-255852-5), SB3 (5-7.5) (500-255852-6), SB4 (0-3) (500-255852-7) and SB5 (0-3) (500-255852-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SB1 (0-3) (500-255852-1), SB2 (0-3) (500-255852-3), SB2 (3-5) (500-255852-4), SB3 (5-7.5) (500-255852-6), SB4 (0-3) (500-255852-7), SB5 (0-3) (500-255852-9), (500-255852-D-1-E MS) and (500-255852-D-1-F MSD).

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following samples were outside control limits: SB2 (0-3) (500-255852-3), SB3 (0-3) (500-255852-5) and SB3 (5-7.5) (500-255852-6). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Job ID: 500-255852-1 (Continued) Eurofins Chicago

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB1 (0-3) (500-255852-1), (500-255852-D-1-E MS) and (500-255852-D-1-F MSD). Elevated reporting limits (RLs) are provided.

Method 8081B: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: (500-255852-D-1-F MSD). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-784031 and analytical batch 500-784273 were outside control limits for Cyanide, Total. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 9045D: CCV recovered outside the 0.2 pH Unit limit.

(CCV8 500-784671/107)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB1 (0-3)
Lab Sample ID: 500-255852-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0014	J	0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.055	J	0.10	0.021	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.29		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.37		0.10	0.10	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.43		0.10	0.099	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.37		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.35		0.10	0.039	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.33		0.10	0.027	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.50		0.10	0.024	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.34		0.10	0.10	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.27		0.10	0.023	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.44		0.10	0.028	mg/Kg	2	☼	8270E	Total/NA
Aluminum	8900		20		mg/Kg	1	☼	6010D	Total/NA
Antimony	2.5	F1	2.0		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.5	F1	1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	95		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.0		0.40		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.55		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	47000	B	20		mg/Kg	1	☼	6010D	Total/NA
Chromium	98	F2	1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.7		0.50		mg/Kg	1	☼	6010D	Total/NA
Copper	25	F1 F2	1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	20000	F2	20		mg/Kg	1	☼	6010D	Total/NA
Lead	75	F2	0.50		mg/Kg	1	☼	6010D	Total/NA
Magnesium	14000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	1900	B F2	1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	15		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	880	F1	50		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.2		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	480		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	8.6	F1 F2	1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	29	F1 F2	0.50		mg/Kg	1	☼	6010D	Total/NA
Zinc	170	F1	2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.028		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.7	F1 F2	0.25		mg/Kg	1	☼	9012B	Total/NA
pH	8.70		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB1 (5-7.5)
Lab Sample ID: 500-255852-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.014	J	0.051	0.011	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.019	J	0.051	0.013	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.017	J	0.051	0.012	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.015	J	0.051	0.011	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.021	J	0.051	0.014	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.27		0.26	0.20	mg/Kg	1	☼	8270E	Total/NA
Aluminum	5700		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.9		0.96		mg/Kg	1	☼	6010D	Total/NA
Barium	96		0.96		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.1		0.38		mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.1		0.19		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB1 (5-7.5) (Continued)
Lab Sample ID: 500-255852-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	160000	B	96		mg/Kg	5	☼	6010D	Total/NA
Chromium	150		0.96		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.8		0.48		mg/Kg	1	☼	6010D	Total/NA
Copper	19		0.96		mg/Kg	1	☼	6010D	Total/NA
Iron	28000		19		mg/Kg	1	☼	6010D	Total/NA
Lead	27		0.48		mg/Kg	1	☼	6010D	Total/NA
Magnesium	17000		9.6		mg/Kg	1	☼	6010D	Total/NA
Manganese	6700	B	4.8		mg/Kg	5	☼	6010D	Total/NA
Nickel	16		0.96		mg/Kg	1	☼	6010D	Total/NA
Potassium	690		48		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.0		0.96		mg/Kg	1	☼	6010D	Total/NA
Sodium	420		96		mg/Kg	1	☼	6010D	Total/NA
Thallium	31		4.8		mg/Kg	5	☼	6010D	Total/NA
Vanadium	87		0.48		mg/Kg	1	☼	6010D	Total/NA
Zinc	300		1.9		mg/Kg	1	☼	6010D	Total/NA
pH	8.69		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB2 (0-3)
Lab Sample ID: 500-255852-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.0028		0.0026	0.00087	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.62		0.071	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.74		0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	1.8		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	3.9		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	4.9		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	4.3		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.9		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	4.3		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	3.6		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.79		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	7.2		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	1.3		0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.1		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	1.3		0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	6.5		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	6.6		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	1.0		0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.54		0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.99		0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	10000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.5		0.93		mg/Kg	1	☼	6010D	Total/NA
Barium	130		0.93		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.0		0.37		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.44		0.19		mg/Kg	1	☼	6010D	Total/NA
Calcium	150000	B	93		mg/Kg	5	☼	6010D	Total/NA
Chromium	39		0.93		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.6		0.47		mg/Kg	1	☼	6010D	Total/NA
Copper	23		0.93		mg/Kg	1	☼	6010D	Total/NA
Iron	19000		19		mg/Kg	1	☼	6010D	Total/NA
Lead	30		0.47		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB2 (0-3) (Continued)
Lab Sample ID: 500-255852-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	19000		9.3		mg/Kg	1	☼	6010D	Total/NA
Manganese	2900	B	4.7		mg/Kg	5	☼	6010D	Total/NA
Nickel	18		0.93		mg/Kg	1	☼	6010D	Total/NA
Potassium	1200		47		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.6		0.93		mg/Kg	1	☼	6010D	Total/NA
Sodium	760		93		mg/Kg	1	☼	6010D	Total/NA
Thallium	14		4.7		mg/Kg	5	☼	6010D	Total/NA
Vanadium	28		0.47		mg/Kg	1	☼	6010D	Total/NA
Zinc	98		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.25		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.29		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	8.64		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB2 (3-5)
Lab Sample ID: 500-255852-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.020	J	0.023	0.011	mg/Kg	50	☼	8260D	Total/NA
Carbon tetrachloride	0.33		0.092	0.038	mg/Kg	50	☼	8260D	Total/NA
Chloroform	0.16	J	0.18	0.085	mg/Kg	50	☼	8260D	Total/NA
Methylene Chloride	0.35	J B	0.46	0.20	mg/Kg	50	☼	8260D	Total/NA
Toluene	0.081		0.023	0.019	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.12		0.046	0.022	mg/Kg	50	☼	8260D	Total/NA
Trichloroethene	0.054		0.046	0.014	mg/Kg	50	☼	8260D	Total/NA
Anthracene	0.12		0.076	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.30		0.076	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.17		0.076	0.074	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.20		0.076	0.073	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.11		0.076	0.017	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.13		0.076	0.029	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.51		0.076	0.020	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.47		0.076	0.018	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.27		0.076	0.014	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	3.8		0.076	0.017	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.44		0.076	0.021	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.87		0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.060	J	0.38	0.030	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.24	J	0.38	0.027	mg/Kg	2	☼	8270E	Total/NA
Aluminum	3100		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	12		5.4		mg/Kg	5	☼	6010D	Total/NA
Barium	76		5.4		mg/Kg	5	☼	6010D	Total/NA
Calcium	9700	B	21		mg/Kg	1	☼	6010D	Total/NA
Chromium	10		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.0		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	56		5.4		mg/Kg	5	☼	6010D	Total/NA
Iron	97000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	90		2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	1800		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	1500	B	1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	20		5.4		mg/Kg	5	☼	6010D	Total/NA
Potassium	480		54		mg/Kg	1	☼	6010D	Total/NA
Sodium	500		110		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB2 (3-5) (Continued)
Lab Sample ID: 500-255852-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	7.0		5.4		mg/Kg	5	☼	6010D	Total/NA
Vanadium	19		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	170		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.060		0.020		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.39		0.29		mg/Kg	1	☼	9012B	Total/NA
pH	7.24		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB3 (0-3)
Lab Sample ID: 500-255852-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.080		0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.040	J	0.068	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.25		0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.2		0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	1.4		0.068	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.6		0.068	0.065	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.77		0.068	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.4		0.068	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.3		0.068	0.018	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.23		0.068	0.068	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	2.5		0.068	0.016	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.083		0.068	0.020	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.86		0.068	0.067	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.061	J	0.068	0.012	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.98		0.068	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	2.1		0.068	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.032	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.081	J	0.34	0.027	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.047	J	0.34	0.024	mg/Kg	2	☼	8270E	Total/NA
PCB-1232	0.22		0.018		mg/Kg	1	☼	8082A	Total/NA
PCB-1260	0.031		0.018		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.25		0.018		mg/Kg	1	☼	8082A	Total/NA
Aluminum	8200		19		mg/Kg	1	☼	6010D	Total/NA
Antimony	6.3		1.9		mg/Kg	1	☼	6010D	Total/NA
Arsenic	11		4.7		mg/Kg	5	☼	6010D	Total/NA
Barium	280		4.7		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.3		0.94		mg/Kg	5	☼	6010D	Total/NA
Calcium	160000	B	94		mg/Kg	5	☼	6010D	Total/NA
Chromium	1700		19		mg/Kg	20	☼	6010D	Total/NA
Cobalt	5.2		0.47		mg/Kg	1	☼	6010D	Total/NA
Copper	76		4.7		mg/Kg	5	☼	6010D	Total/NA
Iron	150000		94		mg/Kg	5	☼	6010D	Total/NA
Lead	120		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	26000		9.4		mg/Kg	1	☼	6010D	Total/NA
Manganese	27000	B	19		mg/Kg	20	☼	6010D	Total/NA
Nickel	150		4.7		mg/Kg	5	☼	6010D	Total/NA
Potassium	110		47		mg/Kg	1	☼	6010D	Total/NA
Selenium	8.3		4.7		mg/Kg	5	☼	6010D	Total/NA
Sodium	280		94		mg/Kg	1	☼	6010D	Total/NA
Thallium	110		4.7		mg/Kg	5	☼	6010D	Total/NA
Vanadium	340		2.4		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB3 (0-3) (Continued)
Lab Sample ID: 500-255852-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	170		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.065		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	3.0		0.23		mg/Kg	1	☼	9012B	Total/NA
pH	9.08		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB3 (5-7.5)
Lab Sample ID: 500-255852-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.023	J	0.029	0.012	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.030	J	0.075	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.25		0.075	0.013	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.87		0.075	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	4.1		0.075	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	4.1		0.075	0.073	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	4.0		0.075	0.072	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.8		0.075	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	3.8		0.075	0.029	mg/Kg	2	☼	8270E	Total/NA
Chrysene	4.0		0.075	0.020	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.53		0.075	0.075	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	8.8		0.075	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.11		0.075	0.022	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.0		0.075	0.074	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.16		0.075	0.014	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	3.3		0.075	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	6.9		0.075	0.021	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.20		0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.85		0.38	0.30	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.66		0.38	0.030	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.094	J	0.38	0.027	mg/Kg	2	☼	8270E	Total/NA
gamma-Chlordane	0.0053		0.0019	0.0011	mg/Kg	1	☼	8081B	Total/NA
Aluminum	7300		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	61		5.0		mg/Kg	5	☼	6010D	Total/NA
Barium	110		0.99		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.2		2.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	24000	B	20		mg/Kg	1	☼	6010D	Total/NA
Chromium	23		0.99		mg/Kg	1	☼	6010D	Total/NA
Cobalt	12		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	81		5.0		mg/Kg	5	☼	6010D	Total/NA
Iron	160000		99		mg/Kg	5	☼	6010D	Total/NA
Lead	960		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	3000		9.9		mg/Kg	1	☼	6010D	Total/NA
Manganese	8800	B	5.0		mg/Kg	5	☼	6010D	Total/NA
Nickel	26		5.0		mg/Kg	5	☼	6010D	Total/NA
Potassium	570		50		mg/Kg	1	☼	6010D	Total/NA
Thallium	39		5.0		mg/Kg	5	☼	6010D	Total/NA
Vanadium	55		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	250		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.043		0.019		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.63		0.27		mg/Kg	1	☼	9012B	Total/NA
pH	7.80		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB4 (0-3) — Lab Sample ID: 500-255852-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.047	J	0.075	0.013	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.10		0.075	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.30		0.075	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.29		0.075	0.073	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.39		0.075	0.072	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.17		0.075	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.32		0.075	0.029	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.37		0.075	0.020	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.43		0.075	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.046	J	0.075	0.022	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.18		0.075	0.073	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.11		0.075	0.014	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.72		0.075	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.34		0.075	0.021	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.16		0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.041	J	0.38	0.030	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.068	J	0.38	0.027	mg/Kg	2	☼	8270E	Total/NA
Aluminum	3000		21		mg/Kg	1	☼	6010D	Total/NA
Antimony	11		11		mg/Kg	5	☼	6010D	Total/NA
Arsenic	12		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	64		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.64		0.42		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.41		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	13000	B	110		mg/Kg	5	☼	6010D	Total/NA
Chromium	9.5		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.5		0.53		mg/Kg	1	☼	6010D	Total/NA
Copper	5500		21		mg/Kg	20	☼	6010D	Total/NA
Iron	39000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	1300		0.53		mg/Kg	1	☼	6010D	Total/NA
Magnesium	3100		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	430	B	1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	13		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	400		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Silver	3.7		0.53		mg/Kg	1	☼	6010D	Total/NA
Sodium	260		110		mg/Kg	1	☼	6010D	Total/NA
Vanadium	13		0.53		mg/Kg	1	☼	6010D	Total/NA
Zinc	150		11		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.029		0.019		mg/Kg	1	☼	7471B	Total/NA
pH	7.81		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB4 (7.5-10) — Lab Sample ID: 500-255852-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.047	J	0.053	0.011	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.043	J	0.053	0.016	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.042	J	0.27	0.019	mg/Kg	1	☼	8270E	Total/NA
Aluminum	1400		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.2		0.96		mg/Kg	1	☼	6010D	Total/NA
Barium	4.1		0.96		mg/Kg	1	☼	6010D	Total/NA
Calcium	12000	B	19		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB4 (7.5-10) (Continued)
Lab Sample ID: 500-255852-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	3.8		0.96		mg/Kg	1	☼	6010D	Total/NA
Cobalt	1.9		0.48		mg/Kg	1	☼	6010D	Total/NA
Copper	2.1		0.96		mg/Kg	1	☼	6010D	Total/NA
Iron	2500		19		mg/Kg	1	☼	6010D	Total/NA
Lead	2.0		0.48		mg/Kg	1	☼	6010D	Total/NA
Magnesium	5900		9.6		mg/Kg	1	☼	6010D	Total/NA
Manganese	59	B	0.96		mg/Kg	1	☼	6010D	Total/NA
Nickel	3.0		0.96		mg/Kg	1	☼	6010D	Total/NA
Potassium	260		48		mg/Kg	1	☼	6010D	Total/NA
Sodium	120		96		mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.3		0.48		mg/Kg	1	☼	6010D	Total/NA
Zinc	11		1.9		mg/Kg	1	☼	6010D	Total/NA
pH	8.69		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB5 (0-3)
Lab Sample ID: 500-255852-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.028	J	0.030	0.013	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.0017	J	0.0030	0.00095	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0019	J	0.0076	0.0014	mg/Kg	1	☼	8260D	Total/NA
Ethylbenzene	0.0023	J	0.0030	0.0016	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0031		0.0030	0.00061	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0026	J	0.0061	0.0010	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.041	J	0.12	0.024	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.61		0.12	0.025	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.96		0.12	0.11	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.86		0.12	0.11	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.60		0.12	0.026	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.90		0.12	0.045	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.68		0.12	0.031	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.12		0.12	0.12	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.58		0.12	0.027	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.59		0.12	0.11	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.12		0.12	0.021	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.22		0.12	0.026	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.64		0.12	0.032	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.048	J	0.24	0.024	mg/Kg	2	☼	8270E	Total/NA
Aluminum	15000		25		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.8		1.2		mg/Kg	1	☼	6010D	Total/NA
Barium	140		1.2		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.9		0.49		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.57		0.25		mg/Kg	1	☼	6010D	Total/NA
Calcium	140000	B	120		mg/Kg	5	☼	6010D	Total/NA
Chromium	23		1.2		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.2		3.1		mg/Kg	5	☼	6010D	Total/NA
Copper	27		1.2		mg/Kg	1	☼	6010D	Total/NA
Iron	25000		25		mg/Kg	1	☼	6010D	Total/NA
Lead	27		3.1		mg/Kg	5	☼	6010D	Total/NA
Magnesium	21000		12		mg/Kg	1	☼	6010D	Total/NA
Manganese	4500	B	6.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	13		1.2		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB5 (0-3) (Continued) — Lab Sample ID: 500-255852-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1200		62		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.8		1.2		mg/Kg	1	☼	6010D	Total/NA
Sodium	670		120		mg/Kg	1	☼	6010D	Total/NA
Thallium	21		6.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	44		3.1		mg/Kg	5	☼	6010D	Total/NA
Zinc	57		2.5		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.023		0.020		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.6		0.27		mg/Kg	1	☼	9012B	Total/NA
pH	9.10		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB5 (5-7.5) — Lab Sample ID: 500-255852-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0017	J	0.0057	0.0011	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00047	J	0.0023	0.00046	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.015	J	0.037	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.12		0.037	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.14		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.14		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.12		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.11		0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.12		0.037	0.0097	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.18		0.037	0.0085	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.068		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.19		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
Aluminum	1800		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	8.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.22		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	26000	B	21		mg/Kg	1	☼	6010D	Total/NA
Chromium	8.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	1.7		0.53		mg/Kg	1	☼	6010D	Total/NA
Copper	4.1		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	5600		21		mg/Kg	1	☼	6010D	Total/NA
Lead	8.4		0.53		mg/Kg	1	☼	6010D	Total/NA
Magnesium	11000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	440	B	1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	3.4		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	330		53		mg/Kg	1	☼	6010D	Total/NA
Sodium	260		110		mg/Kg	1	☼	6010D	Total/NA
Vanadium	14		0.53		mg/Kg	1	☼	6010D	Total/NA
Zinc	23		2.1		mg/Kg	1	☼	6010D	Total/NA
pH	8.76		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-255852-1	SB1 (0-3)	Solid	08/28/24 09:47	08/29/24 15:25
500-255852-2	SB1 (5-7.5)	Solid	08/28/24 09:53	08/29/24 15:25
500-255852-3	SB2 (0-3)	Solid	08/28/24 10:15	08/29/24 15:25
500-255852-4	SB2 (3-5)	Solid	08/28/24 10:35	08/29/24 15:25
500-255852-5	SB3 (0-3)	Solid	08/28/24 11:43	08/29/24 15:25
500-255852-6	SB3 (5-7.5)	Solid	08/28/24 12:30	08/29/24 15:25
500-255852-7	SB4 (0-3)	Solid	08/28/24 13:45	08/29/24 15:25
500-255852-8	SB4 (7.5-10)	Solid	08/28/24 13:50	08/29/24 15:25
500-255852-9	SB5 (0-3)	Solid	08/28/24 14:07	08/29/24 15:25
500-255852-10	SB5 (5-7.5)	Solid	08/28/24 14:15	08/29/24 15:25

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB1 (0-3)
Lab Sample ID: 500-255852-1
Date Collected: 08/28/24 09:47
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 94.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00091		0.0022	0.00091	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
1,1,2-Trichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
1,1-Dichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
1,1-Dichloroethene	<0.00092		0.0022	0.00092	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
1,2-Dichloroethane	<0.0015		0.0056	0.0015	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
1,2-Dichloropropane	<0.00058		0.0022	0.00058	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
2-Butanone (MEK)	<0.0025		0.0056	0.0025	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Acetone	<0.0094		0.022	0.0094	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Benzene	<0.00070		0.0022	0.00070	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Bromodichloromethane	<0.00072		0.0022	0.00072	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Bromomethane	<0.0028		0.0056	0.0028	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Carbon disulfide	**0.0014**	**J**	0.0056	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Carbon tetrachloride	<0.00076		0.0022	0.00076	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Chlorobenzene	<0.00094		0.0022	0.00094	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
cis-1,2-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Methyl tert-butyl ether	<0.00072		0.0022	0.00072	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Styrene	<0.0010		0.0022	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Tetrachloroethene	<0.0013		0.0022	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Toluene	<0.00045		0.0022	0.00045	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Xylenes, Total	<0.00077		0.0045	0.00077	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
trans-1,2-Dichloroethene	<0.00085		0.0022	0.00085	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Trichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1
Vinyl chloride	<0.00091		0.0022	0.00091	mg/Kg	☼	08/29/24 17:47	09/06/24 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 134*	*08/29/24 17:47*	*09/06/24 14:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*	*08/29/24 17:47*	*09/06/24 14:26*	*1*
Dibromofluoromethane	*111*		*75 - 126*	*08/29/24 17:47*	*09/06/24 14:26*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*08/29/24 17:47*	*09/06/24 14:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.021		0.10	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Acenaphthylene	<0.018		0.10	0.018	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Anthracene	**0.055**	**J**	0.10	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Benzo[a]anthracene	**0.29**		0.10	0.022	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Benzo[a]pyrene	**0.37**		0.10	0.10	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Benzo[b]fluoranthene	**0.43**		0.10	0.099	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Benzo[g,h,i]perylene	**0.37**		0.10	0.022	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB1 (0-3)
Lab Sample ID: 500-255852-1
Date Collected: 08/28/24 09:47
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 94.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.35**		0.10	0.039	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Chrysene	**0.33**		0.10	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Dibenz(a,h)anthracene	<0.10		0.10	0.10	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Fluoranthene	**0.50**		0.10	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Fluorene	<0.031		0.10	0.031	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Indeno[1,2,3-cd]pyrene	**0.34**		0.10	0.10	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Naphthalene	<0.019		0.10	0.019	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Phenanthrene	**0.27**		0.10	0.023	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Pyrene	**0.44**		0.10	0.028	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
1,2,4-Trichlorobenzene	<0.074		0.52	0.074	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
1,2-Dichlorobenzene	<0.042		0.52	0.042	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
1,3-Dichlorobenzene	<0.047		0.52	0.047	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
1,4-Dichlorobenzene	<0.049		0.52	0.049	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2,4,5-Trichlorophenol	<0.039		1.0	0.039	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2,4,6-Trichlorophenol	<0.035		1.0	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2,4-Dichlorophenol	<0.037		1.0	0.037	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2,4-Dimethylphenol	<0.23	*+	1.0	0.23	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2,4-Dinitrophenol	<0.60		2.1	0.60	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2,4-Dinitrotoluene	<0.059		0.52	0.059	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2,6-Dinitrotoluene	<0.035		0.52	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2-Chloronaphthalene	<0.039		0.52	0.039	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2-Chlorophenol	<0.033		0.52	0.033	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2-Methylnaphthalene	<0.021		0.21	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2-Methylphenol	<0.055		0.52	0.055	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2-Nitroaniline	<0.056		0.52	0.056	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
2-Nitrophenol	<0.070		1.0	0.070	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
3,3'-Dichlorobenzidine	<0.085		0.52	0.085	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
3 & 4 Methylphenol	<0.076		0.52	0.076	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
3-Nitroaniline	<0.047		1.0	0.047	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
4,6-Dinitro-2-methylphenol	<0.58		2.1	0.58	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
4-Bromophenyl phenyl ether	<0.071		0.52	0.071	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
4-Chloro-3-methylphenol	<0.040		1.0	0.040	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
4-Chloroaniline	<1.1		2.1	1.1	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
4-Chlorophenyl phenyl ether	<0.14		0.52	0.14	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
4-Nitroaniline	<0.077		1.0	0.077	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
4-Nitrophenol	<0.38		2.1	0.38	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Bis(2-chloroethoxy)methane	<0.039		0.52	0.039	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Bis(2-chloroethyl)ether	<0.048		0.52	0.048	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
bis(chloroisopropyl) ether	<0.074		0.52	0.074	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Bis(2-ethylhexyl) phthalate	<0.41		0.52	0.41	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Butyl benzyl phthalate	<0.052		0.52	0.052	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Carbazole	<0.041		0.52	0.041	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Dibenzofuran	<0.037		0.52	0.037	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Diethyl phthalate	<0.047		0.52	0.047	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Dimethyl phthalate	<0.023		0.52	0.023	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Di-n-butyl phthalate	<0.033		0.52	0.033	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Di-n-octyl phthalate	<0.72		1.0	0.72	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Hexachlorobenzene	<0.020		0.21	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Hexachlorobutadiene	<0.058		0.52	0.058	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2

Client Sample ID: SB1 (0-3)
Date Collected: 08/28/24 09:47
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-1
Matrix: Solid
Percent Solids: 94.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.1		2.1	1.1	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Hexachloroethane	<0.052		0.52	0.052	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Isophorone	<0.053		0.52	0.053	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Nitrobenzene	<0.033		0.10	0.033	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
N-Nitrosodi-n-propylamine	<0.020		0.21	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
N-Nitrosodiphenylamine	<0.062		0.52	0.062	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Pentachlorophenol	<0.26		2.1	0.26	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2
Phenol	<0.045		0.52	0.045	mg/Kg	☼	09/10/24 14:54	09/11/24 15:09	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*64*		*31 - 166*	*09/10/24 14:54*	*09/11/24 15:09*	*2*
Phenol-d5 (Surr)	*70*		*30 - 153*	*09/10/24 14:54*	*09/11/24 15:09*	*2*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*09/10/24 14:54*	*09/11/24 15:09*	*2*
2-Fluorobiphenyl (Surr)	*76*		*43 - 145*	*09/10/24 14:54*	*09/11/24 15:09*	*2*
2,4,6-Tribromophenol (Surr)	*74*		*31 - 143*	*09/10/24 14:54*	*09/11/24 15:09*	*2*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*09/10/24 14:54*	*09/11/24 15:09*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00090		0.0017	0.00090	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
4,4'-DDE	<0.00086		0.0017	0.00086	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
4,4'-DDT	<0.00079	F1	0.0017	0.00079	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
alpha-BHC	<0.00094		0.0017	0.00094	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
alpha-Chlordane	<0.00089		0.0017	0.00089	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
beta-BHC	<0.0013		0.0017	0.0013	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
Chlordane (technical)	<0.0032		0.0066	0.0032	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
delta-BHC	<0.0040	F1	0.0084	0.0040	mg/Kg	☼	09/04/24 15:38	09/06/24 14:54	5
Dieldrin	<0.00087		0.0017	0.00087	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
Endosulfan I	<0.00090		0.0017	0.00090	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
Endosulfan II	<0.00092		0.0017	0.00092	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
Endosulfan sulfate	<0.00093	F1	0.0017	0.00093	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
Endrin	<0.00085		0.0017	0.00085	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
Endrin aldehyde	<0.0048	F2	0.0084	0.0048	mg/Kg	☼	09/04/24 15:38	09/06/24 14:54	5
Endrin ketone	<0.00081		0.0017	0.00081	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
gamma-BHC (Lindane)	<0.00083		0.0017	0.00083	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
gamma-Chlordane	<0.00096		0.0017	0.00096	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
Heptachlor	<0.00091	F1	0.0017	0.00091	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
Heptachlor epoxide	<0.00090		0.0017	0.00090	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
Methoxychlor	<0.0011	F1	0.0082	0.0011	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg	☼	09/04/24 15:38	09/06/24 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*33 - 148*	*09/04/24 15:38*	*09/06/24 14:54*	*5*
Tetrachloro-m-xylene	*93*		*30 - 121*	*09/04/24 15:38*	*09/06/24 14:54*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/13/24 12:30	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/13/24 12:30	1

Client Sample ID: SB1 (0-3)
Date Collected: 08/28/24 09:47
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-1
Matrix: Solid
Percent Solids: 94.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/13/24 12:30	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/13/24 12:30	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/13/24 12:30	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/13/24 12:30	1
PCB-1260	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/13/24 12:30	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/13/24 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*09/04/24 15:38*	*09/13/24 12:30*	*1*
DCB Decachlorobiphenyl	*60*		*37 - 121*	*09/04/24 15:38*	*09/13/24 12:30*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8900**		20		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Antimony	**2.5**	**F1**	2.0		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Arsenic	**4.5**	**F1**	1.0		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Barium	**95**		1.0		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Beryllium	**2.0**		0.40		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Cadmium	**0.55**		0.20		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Calcium	**47000**	**B**	20		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Chromium	**98**	**F2**	1.0		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Cobalt	**2.7**		0.50		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Copper	**25**	**F1 F2**	1.0		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Iron	**20000**	**F2**	20		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Lead	**75**	**F2**	0.50		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Magnesium	**14000**		10		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Manganese	**1900**	**B F2**	1.0		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Nickel	**15**		1.0		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Potassium	**880**	**F1**	50		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Selenium	**1.2**		1.0		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Silver	<0.50		0.50		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Sodium	**480**		100		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Thallium	**8.6**	**F1 F2**	1.0		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Vanadium	**29**	**F1 F2**	0.50		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1
Zinc	**170**	**F1**	2.0		mg/Kg	☼	09/12/24 15:58	09/13/24 14:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.016		mg/Kg	☼	09/12/24 16:30	09/13/24 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.7**	**F1 F2**	0.25		mg/Kg	☼	08/30/24 11:42	08/30/24 14:41	1
pH (SW846 9045D)	**8.70**		0.20		SU			09/04/24 15:57	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB1 (5-7.5)
Lab Sample ID: 500-255852-2
Date Collected: 08/28/24 09:53
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 96.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00099		0.0024	0.00099	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
1,1,2-Trichloroethane	<0.00091		0.0024	0.00091	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
1,1-Dichloroethane	<0.00092		0.0024	0.00092	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
1,1-Dichloroethene	<0.0010		0.0024	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
1,2-Dichloroethane	<0.0016		0.0061	0.0016	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
1,2-Dichloropropane	<0.00063		0.0024	0.00063	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
2-Butanone (MEK)	<0.0027		0.0061	0.0027	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
2-Hexanone	<0.0037		0.0061	0.0037	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0061	0.0043	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Acetone	<0.010		0.024	0.010	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Benzene	<0.00077		0.0024	0.00077	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Bromodichloromethane	<0.00078		0.0024	0.00078	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Bromomethane	<0.0030		0.0061	0.0030	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Carbon disulfide	<0.0011		0.0061	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Carbon tetrachloride	<0.00083		0.0024	0.00083	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Chloroethane	<0.0020		0.0061	0.0020	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Chloroform	<0.0018		0.0024	0.0018	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Chloromethane	<0.0012		0.0061	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
cis-1,2-Dichloroethene	<0.00098		0.0024	0.00098	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
1,3-Dichloropropene, Total	<0.0012		0.0024	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Ethylbenzene	<0.0013		0.0024	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Methyl tert-butyl ether	<0.00079		0.0024	0.00079	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Methylene Chloride	<0.0026		0.0061	0.0026	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Styrene	<0.0011		0.0024	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Tetrachloroethene	<0.0014		0.0024	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Toluene	<0.00049		0.0024	0.00049	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Xylenes, Total	<0.00084		0.0049	0.00084	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
trans-1,2-Dichloroethene	<0.00092		0.0024	0.00092	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Trichloroethene	<0.00066		0.0024	0.00066	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1
Vinyl chloride	<0.0010		0.0024	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 134*	*08/29/24 17:47*	*09/06/24 14:50*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*08/29/24 17:47*	*09/06/24 14:50*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*08/29/24 17:47*	*09/06/24 14:50*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*08/29/24 17:47*	*09/06/24 14:50*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.051	0.010	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Acenaphthylene	<0.0087		0.051	0.0087	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Anthracene	<0.010		0.051	0.010	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Benzo[a]anthracene	**0.014**	**J**	0.051	0.011	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Benzo[a]pyrene	<0.049		0.051	0.049	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Benzo[b]fluoranthene	<0.049		0.051	0.049	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Benzo[g,h,i]perylene	<0.011		0.051	0.011	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB1 (5-7.5)
Lab Sample ID: 500-255852-2
Date Collected: 08/28/24 09:53
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 96.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.019		0.051	0.019	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Chrysene	**0.019**	**J**	0.051	0.013	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Dibenz(a,h)anthracene	<0.051		0.051	0.051	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Fluoranthene	**0.017**	**J**	0.051	0.012	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Fluorene	<0.015		0.051	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Indeno[1,2,3-cd]pyrene	<0.050		0.051	0.050	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Naphthalene	<0.0092		0.051	0.0092	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Phenanthrene	**0.015**	**J**	0.051	0.011	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Pyrene	**0.021**	**J**	0.051	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
1,2,4-Trichlorobenzene	<0.036		0.26	0.036	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
1,2-Dichlorobenzene	<0.021		0.26	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
1,3-Dichlorobenzene	<0.023		0.26	0.023	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
1,4-Dichlorobenzene	<0.024		0.26	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2,4,5-Trichlorophenol	<0.019		0.51	0.019	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2,4,6-Trichlorophenol	<0.017		0.51	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2,4-Dichlorophenol	<0.018		0.51	0.018	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2,4-Dimethylphenol	<0.11	*+	0.51	0.11	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2,4-Dinitrophenol	<0.30		1.0	0.30	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2,4-Dinitrotoluene	<0.029		0.26	0.029	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2,6-Dinitrotoluene	<0.017		0.26	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2-Chloronaphthalene	<0.019		0.26	0.019	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2-Chlorophenol	<0.016		0.26	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2-Methylnaphthalene	<0.010		0.10	0.010	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2-Methylphenol	<0.027		0.26	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2-Nitroaniline	<0.027		0.26	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
2-Nitrophenol	<0.035		0.51	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
3,3'-Dichlorobenzidine	<0.042		0.26	0.042	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
3 & 4 Methylphenol	<0.037		0.26	0.037	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
3-Nitroaniline	<0.023		0.51	0.023	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
4,6-Dinitro-2-methylphenol	<0.29		1.0	0.29	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
4-Bromophenyl phenyl ether	<0.035		0.26	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
4-Chloro-3-methylphenol	<0.020		0.51	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
4-Chloroaniline	<0.54		1.0	0.54	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
4-Chlorophenyl phenyl ether	<0.067		0.26	0.067	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
4-Nitroaniline	<0.038		0.51	0.038	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
4-Nitrophenol	<0.19		1.0	0.19	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Bis(2-chloroethoxy)methane	<0.019		0.26	0.019	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Bis(2-chloroethyl)ether	<0.024		0.26	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
bis(chloroisopropyl) ether	<0.037		0.26	0.037	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Bis(2-ethylhexyl) phthalate	**0.27**		0.26	0.20	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Butyl benzyl phthalate	<0.025		0.26	0.025	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Carbazole	<0.020		0.26	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Dibenzofuran	<0.018		0.26	0.018	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Diethyl phthalate	<0.023		0.26	0.023	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Dimethyl phthalate	<0.011		0.26	0.011	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Di-n-butyl phthalate	<0.016		0.26	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Di-n-octyl phthalate	<0.36		0.51	0.36	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Hexachlorobenzene	<0.0098		0.10	0.0098	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Hexachlorobutadiene	<0.029		0.26	0.029	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB1 (5-7.5)
Lab Sample ID: 500-255852-2
Date Collected: 08/28/24 09:53
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 96.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.54		1.0	0.54	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Hexachloroethane	<0.026		0.26	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Isophorone	<0.026		0.26	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Nitrobenzene	<0.016		0.051	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
N-Nitrosodi-n-propylamine	<0.010		0.10	0.010	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
N-Nitrosodiphenylamine	<0.030		0.26	0.030	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Pentachlorophenol	<0.13		1.0	0.13	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1
Phenol	<0.022		0.26	0.022	mg/Kg	☼	09/10/24 14:54	09/11/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*76*		*31 - 166*	*09/10/24 14:54*	*09/11/24 13:28*	*1*
Phenol-d5 (Surr)	*77*		*30 - 153*	*09/10/24 14:54*	*09/11/24 13:28*	*1*
Nitrobenzene-d5 (Surr)	*82*		*37 - 147*	*09/10/24 14:54*	*09/11/24 13:28*	*1*
2-Fluorobiphenyl (Surr)	*84*		*43 - 145*	*09/10/24 14:54*	*09/11/24 13:28*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*31 - 143*	*09/10/24 14:54*	*09/11/24 13:28*	*1*
Terphenyl-d14 (Surr)	*90*		*42 - 157*	*09/10/24 14:54*	*09/11/24 13:28*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0014		0.0026	0.0014	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
4,4'-DDE	<0.0013		0.0026	0.0013	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
4,4'-DDT	<0.0012		0.0026	0.0012	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Aldrin	<0.0018		0.0026	0.0018	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
alpha-BHC	<0.0015		0.0026	0.0015	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
alpha-Chlordane	<0.0014		0.0026	0.0014	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
beta-BHC	<0.0021		0.0026	0.0021	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Chlordane (technical)	<0.0049		0.010	0.0049	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
delta-BHC	<0.0012		0.0026	0.0012	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Dieldrin	<0.0014		0.0026	0.0014	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Endosulfan I	<0.0014		0.0026	0.0014	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Endosulfan II	<0.0014		0.0026	0.0014	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Endosulfan sulfate	<0.0014		0.0026	0.0014	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Endrin	<0.0013		0.0026	0.0013	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Endrin aldehyde	<0.0015		0.0026	0.0015	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Endrin ketone	<0.0013		0.0026	0.0013	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
gamma-BHC (Lindane)	<0.0013		0.0026	0.0013	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
gamma-Chlordane	<0.0015		0.0026	0.0015	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Heptachlor	<0.0014		0.0026	0.0014	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Heptachlor epoxide	<0.0014		0.0026	0.0014	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Methoxychlor	<0.0017		0.013	0.0017	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1
Toxaphene	<0.010		0.026	0.010	mg/Kg	☼	09/04/24 15:38	09/05/24 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*33 - 148*	*09/04/24 15:38*	*09/05/24 18:03*	*1*
Tetrachloro-m-xylene	*64*		*30 - 121*	*09/04/24 15:38*	*09/05/24 18:03*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.026		0.026		mg/Kg	☼	09/04/24 15:38	09/13/24 12:45	1
PCB-1221	<0.026		0.026		mg/Kg	☼	09/04/24 15:38	09/13/24 12:45	1

Client Sample ID: SB1 (5-7.5)
Date Collected: 08/28/24 09:53
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-2
Matrix: Solid
Percent Solids: 96.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.026		0.026		mg/Kg	☼	09/04/24 15:38	09/13/24 12:45	1
PCB-1242	<0.026		0.026		mg/Kg	☼	09/04/24 15:38	09/13/24 12:45	1
PCB-1248	<0.026		0.026		mg/Kg	☼	09/04/24 15:38	09/13/24 12:45	1
PCB-1254	<0.026		0.026		mg/Kg	☼	09/04/24 15:38	09/13/24 12:45	1
PCB-1260	<0.026		0.026		mg/Kg	☼	09/04/24 15:38	09/13/24 12:45	1
Polychlorinated biphenyls, Total	<0.026		0.026		mg/Kg	☼	09/04/24 15:38	09/13/24 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/04/24 15:38*	*09/13/24 12:45*	*1*
DCB Decachlorobiphenyl	*74*		*37 - 121*	*09/04/24 15:38*	*09/13/24 12:45*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5700**		19		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Antimony	<1.9		1.9		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Arsenic	**7.9**		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Barium	**96**		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Beryllium	**1.1**		0.38		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Cadmium	**1.1**		0.19		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Calcium	**160000**	**B**	96		mg/Kg	☼	09/12/24 15:58	09/13/24 18:43	5
Chromium	**150**		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Cobalt	**4.8**		0.48		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Copper	**19**		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Iron	**28000**		19		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Lead	**27**		0.48		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Magnesium	**17000**		9.6		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Manganese	**6700**	**B**	4.8		mg/Kg	☼	09/12/24 15:58	09/13/24 18:43	5
Nickel	**16**		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Potassium	**690**		48		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Selenium	**2.0**		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Silver	<2.4		2.4		mg/Kg	☼	09/12/24 15:58	09/13/24 18:43	5
Sodium	**420**		96		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Thallium	**31**		4.8		mg/Kg	☼	09/12/24 15:58	09/13/24 18:43	5
Vanadium	**87**		0.48		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1
Zinc	**300**		1.9		mg/Kg	☼	09/12/24 15:58	09/13/24 14:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016		mg/Kg	☼	09/12/24 16:30	09/13/24 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.23		0.23		mg/Kg	☼	08/30/24 11:42	08/30/24 14:47	1
pH (SW846 9045D)	**8.69**		0.20		SU			09/04/24 16:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB2 (0-3)
Lab Sample ID: 500-255852-3
Date Collected: 08/28/24 10:15
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 92.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0026	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0026	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
1,1,2-Trichloroethane	<0.00096		0.0026	0.00096	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
1,1-Dichloroethane	<0.00096		0.0026	0.00096	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
1,1-Dichloroethene	<0.0010		0.0026	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
1,2-Dichloroethane	<0.0017		0.0064	0.0017	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
1,2-Dichloropropane	<0.00066		0.0026	0.00066	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
2-Butanone (MEK)	<0.0028		0.0064	0.0028	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
2-Hexanone	<0.0039		0.0064	0.0039	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0064	0.0045	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Acetone	<0.011		0.026	0.011	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Benzene	<0.00080		0.0026	0.00080	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Bromodichloromethane	<0.00082		0.0026	0.00082	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Bromoform	<0.0015		0.0026	0.0015	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Bromomethane	<0.0031		0.0064	0.0031	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Carbon disulfide	<0.0012		0.0064	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Carbon tetrachloride	**0.0028**		0.0026	0.00087	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Chlorobenzene	<0.0011		0.0026	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Chloroethane	<0.0021		0.0064	0.0021	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Chloroform	<0.0018		0.0026	0.0018	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Chloromethane	<0.0012		0.0064	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
cis-1,2-Dichloroethene	<0.0010		0.0026	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
1,3-Dichloropropene, Total	<0.0012		0.0026	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Dibromochloromethane	<0.0012		0.0026	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Ethylbenzene	<0.0013		0.0026	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Methyl tert-butyl ether	<0.00082		0.0026	0.00082	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Methylene Chloride	<0.0027		0.0064	0.0027	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Styrene	<0.0011		0.0026	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Tetrachloroethene	<0.0014		0.0026	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Toluene	<0.00051		0.0026	0.00051	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Xylenes, Total	<0.00087		0.0051	0.00087	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
trans-1,2-Dichloroethene	<0.00096		0.0026	0.00096	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Trichloroethene	<0.00069		0.0026	0.00069	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1
Vinyl chloride	<0.0010		0.0026	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 134*	*08/29/24 17:47*	*09/06/24 15:39*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*08/29/24 17:47*	*09/06/24 15:39*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*08/29/24 17:47*	*09/06/24 15:39*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*08/29/24 17:47*	*09/06/24 15:39*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.62**		0.071	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Acenaphthylene	**0.74**		0.071	0.012	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Anthracene	**1.8**		0.071	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Benzo[a]anthracene	**3.9**		0.071	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Benzo[a]pyrene	**4.9**		0.071	0.069	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Benzo[b]fluoranthene	**4.3**		0.071	0.068	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Benzo[g,h,i]perylene	**1.9**		0.071	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB2 (0-3)
Lab Sample ID: 500-255852-3
Date Collected: 08/28/24 10:15
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 92.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**4.3**		0.071	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Chrysene	**3.6**		0.071	0.019	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Dibenz(a,h)anthracene	**0.79**		0.071	0.071	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Fluoranthene	**7.2**		0.071	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Fluorene	**1.3**		0.071	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Indeno[1,2,3-cd]pyrene	**2.1**		0.071	0.069	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Naphthalene	**1.3**		0.071	0.013	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Phenanthrene	**6.5**		0.071	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Pyrene	**6.6**		0.071	0.019	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2,4-Dimethylphenol	<0.16	*+	0.71	0.16	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2,4-Dinitrotoluene	<0.040		0.36	0.040	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2-Methylnaphthalene	**1.0**		0.14	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2-Methylphenol	<0.037		0.36	0.037	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
2-Nitrophenol	<0.048		0.71	0.048	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
3-Nitroaniline	<0.032		0.71	0.032	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
4-Chlorophenyl phenyl ether	<0.093		0.36	0.093	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
4-Nitroaniline	<0.052		0.71	0.052	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Butyl benzyl phthalate	<0.035		0.36	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Carbazole	**0.54**		0.36	0.028	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Dibenzofuran	**0.99**		0.36	0.025	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Dimethyl phthalate	<0.015		0.36	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Di-n-butyl phthalate	<0.022		0.36	0.022	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2

Client Sample ID: SB2 (0-3)
Lab Sample ID: 500-255852-3
Date Collected: 08/28/24 10:15
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 92.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.75		1.4	0.75	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Nitrobenzene	<0.022		0.071	0.022	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/10/24 14:54	09/11/24 15:34	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*51*		*31 - 166*	*09/10/24 14:54*	*09/11/24 15:34*	*2*
Phenol-d5 (Surr)	*57*		*30 - 153*	*09/10/24 14:54*	*09/11/24 15:34*	*2*
Nitrobenzene-d5 (Surr)	*68*		*37 - 147*	*09/10/24 14:54*	*09/11/24 15:34*	*2*
2-Fluorobiphenyl (Surr)	*70*		*43 - 145*	*09/10/24 14:54*	*09/11/24 15:34*	*2*
2,4,6-Tribromophenol (Surr)	*54*		*31 - 143*	*09/10/24 14:54*	*09/11/24 15:34*	*2*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*09/10/24 14:54*	*09/11/24 15:34*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0096		0.018	0.0096	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
4,4'-DDE	<0.0092		0.018	0.0092	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
alpha-Chlordane	<0.0095		0.018	0.0095	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
delta-BHC	<0.043		0.090	0.043	mg/Kg	☼	09/04/24 15:38	09/09/24 16:26	50
Dieldrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
Endosulfan I	<0.0096		0.018	0.0096	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
Endosulfan sulfate	<0.0098		0.018	0.0098	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
Endrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
Endrin aldehyde	<0.051		0.090	0.051	mg/Kg	☼	09/04/24 15:38	09/09/24 16:26	50
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
Heptachlor	<0.0096		0.018	0.0096	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
Heptachlor epoxide	<0.0096		0.018	0.0096	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/04/24 15:38	09/09/24 16:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*452*	*S1+*	*33 - 148*	*09/04/24 15:38*	*09/09/24 16:14*	*10*
Tetrachloro-m-xylene	*58*		*30 - 121*	*09/04/24 15:38*	*09/09/24 16:14*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018	F1	0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 13:00	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 13:00	1

Client Sample ID: SB2 (0-3)
Date Collected: 08/28/24 10:15
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-3
Matrix: Solid
Percent Solids: 92.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 13:00	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 13:00	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 13:00	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 13:00	1
PCB-1260	<0.018	F1	0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 13:00	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/04/24 15:38*	*09/13/24 13:00*	*1*
DCB Decachlorobiphenyl	*52*		*37 - 121*	*09/04/24 15:38*	*09/13/24 13:00*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		19		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Antimony	<1.9		1.9		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Arsenic	**5.5**		0.93		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Barium	**130**		0.93		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Beryllium	**2.0**		0.37		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Cadmium	**0.44**		0.19		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Calcium	**150000**	**B**	93		mg/Kg	☼	09/12/24 15:58	09/13/24 18:48	5
Chromium	**39**		0.93		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Cobalt	**4.6**		0.47		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Copper	**23**		0.93		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Iron	**19000**		19		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Lead	**30**		0.47		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Magnesium	**19000**		9.3		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Manganese	**2900**	**B**	4.7		mg/Kg	☼	09/12/24 15:58	09/13/24 18:48	5
Nickel	**18**		0.93		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Potassium	**1200**		47		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Selenium	**1.6**		0.93		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Silver	<2.3		2.3		mg/Kg	☼	09/12/24 15:58	09/13/24 18:48	5
Sodium	**760**		93		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Thallium	**14**		4.7		mg/Kg	☼	09/12/24 15:58	09/13/24 18:48	5
Vanadium	**28**		0.47		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Zinc	**98**		1.9		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**		0.017		mg/Kg	☼	09/12/24 16:30	09/13/24 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.29**		0.25		mg/Kg	☼	08/30/24 11:42	08/30/24 14:52	1
pH (SW846 9045D)	**8.64**		0.20		SU			09/04/24 16:02	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB2 (3-5)
Lab Sample ID: 500-255852-4
Date Collected: 08/28/24 10:35
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 82.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.041		0.092	0.041	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
1,1,2,2-Tetrachloroethane	<0.059		0.092	0.059	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
1,1,2-Trichloroethane	<0.067		0.092	0.067	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
1,1-Dichloroethane	<0.033		0.092	0.033	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
1,1-Dichloroethene	<0.044		0.092	0.044	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
1,2-Dichloroethane	<0.053		0.092	0.053	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
1,2-Dichloropropane	<0.034		0.092	0.034	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
2-Butanone (MEK)	<0.28		0.46	0.28	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
2-Hexanone	<0.27		0.46	0.27	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
4-Methyl-2-pentanone (MIBK)	<0.25		0.46	0.25	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Acetone	<0.67		0.92	0.67	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Benzene	**0.020**	**J**	0.023	0.011	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Bromodichloromethane	<0.052		0.092	0.052	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Bromoform	<0.088		0.092	0.088	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Bromomethane	<0.16		0.28	0.16	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Carbon disulfide	<0.099		0.18	0.099	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Carbon tetrachloride	**0.33**		0.092	0.038	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Chlorobenzene	<0.038		0.092	0.038	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Chloroethane	<0.043		0.46	0.043	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Chloroform	**0.16**	**J**	0.18	0.085	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Chloromethane	<0.072		0.46	0.072	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
cis-1,2-Dichloroethene	<0.038		0.092	0.038	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
1,3-Dichloropropene, Total	<0.058		0.092	0.058	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Dibromochloromethane	<0.076		0.092	0.076	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Ethylbenzene	<0.016		0.023	0.016	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Methyl tert-butyl ether	<0.040		0.092	0.040	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Methylene Chloride	**0.35**	**J B**	0.46	0.20	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Styrene	<0.028		0.092	0.028	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Tetrachloroethene	<0.036		0.092	0.036	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Toluene	**0.081**		0.023	0.019	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Xylenes, Total	**0.12**		0.046	0.022	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
trans-1,2-Dichloroethene	<0.040		0.092	0.040	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Trichloroethene	**0.054**		0.046	0.014	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50
Vinyl chloride	<0.043		0.092	0.043	mg/Kg	☼	08/28/24 10:35	09/10/24 14:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*08/28/24 10:35*	*09/10/24 14:01*	*50*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*08/28/24 10:35*	*09/10/24 14:01*	*50*
Dibromofluoromethane	*83*		*75 - 120*	*08/28/24 10:35*	*09/10/24 14:01*	*50*
Toluene-d8 (Surr)	*92*		*75 - 120*	*08/28/24 10:35*	*09/10/24 14:01*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.016		0.076	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Acenaphthylene	<0.013		0.076	0.013	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Anthracene	**0.12**		0.076	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Benzo[a]anthracene	**0.30**		0.076	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Benzo[a]pyrene	**0.17**		0.076	0.074	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Benzo[b]fluoranthene	**0.20**		0.076	0.073	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Benzo[g,h,i]perylene	**0.11**		0.076	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2

Client Sample ID: SB2 (3-5)
Date Collected: 08/28/24 10:35
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-4
Matrix: Solid
Percent Solids: 82.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.13**		0.076	0.029	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Chrysene	**0.51**		0.076	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Dibenz(a,h)anthracene	<0.076		0.076	0.076	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Fluoranthene	**0.47**		0.076	0.018	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Fluorene	<0.023		0.076	0.023	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Indeno[1,2,3-cd]pyrene	<0.074		0.076	0.074	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Naphthalene	**0.27**		0.076	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Phenanthrene	**3.8**		0.076	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Pyrene	**0.44**		0.076	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
1,2,4-Trichlorobenzene	<0.055		0.38	0.055	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
1,2-Dichlorobenzene	<0.031		0.38	0.031	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
1,3-Dichlorobenzene	<0.035		0.38	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
1,4-Dichlorobenzene	<0.036		0.38	0.036	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2,4,5-Trichlorophenol	<0.029		0.76	0.029	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2,4,6-Trichlorophenol	<0.026		0.76	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2,4-Dichlorophenol	<0.027		0.76	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2,4-Dimethylphenol	<0.17	*+	0.76	0.17	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2,4-Dinitrophenol	<0.44		1.5	0.44	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2,4-Dinitrotoluene	<0.043		0.38	0.043	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2,6-Dinitrotoluene	<0.026		0.38	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2-Chloronaphthalene	<0.029		0.38	0.029	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2-Chlorophenol	<0.025		0.38	0.025	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2-Methylnaphthalene	**0.87**		0.15	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2-Methylphenol	<0.040		0.38	0.040	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2-Nitroaniline	<0.041		0.38	0.041	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
2-Nitrophenol	<0.052		0.76	0.052	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
3,3'-Dichlorobenzidine	<0.062		0.38	0.062	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
3 & 4 Methylphenol	<0.056		0.38	0.056	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
3-Nitroaniline	<0.035		0.76	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
4,6-Dinitro-2-methylphenol	<0.43		1.5	0.43	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
4-Bromophenyl phenyl ether	<0.052		0.38	0.052	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
4-Chloro-3-methylphenol	<0.030		0.76	0.030	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
4-Chloroaniline	<0.80		1.5	0.80	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
4-Chlorophenyl phenyl ether	<0.10		0.38	0.10	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
4-Nitroaniline	<0.056		0.76	0.056	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
4-Nitrophenol	<0.28		1.5	0.28	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Bis(2-chloroethoxy)methane	<0.029		0.38	0.029	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Bis(2-chloroethyl)ether	<0.035		0.38	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
bis(chloroisopropyl) ether	<0.055		0.38	0.055	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Bis(2-ethylhexyl) phthalate	<0.30		0.38	0.30	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Butyl benzyl phthalate	<0.038		0.38	0.038	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Carbazole	**0.060**	**J**	0.38	0.030	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Dibenzofuran	**0.24**	**J**	0.38	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Diethyl phthalate	<0.035		0.38	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Dimethyl phthalate	<0.017		0.38	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Di-n-butyl phthalate	<0.024		0.38	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Di-n-octyl phthalate	<0.53		0.76	0.53	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Hexachlorobenzene	<0.015		0.15	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Hexachlorobutadiene	<0.043		0.38	0.043	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB2 (3-5)
Lab Sample ID: 500-255852-4
Date Collected: 08/28/24 10:35
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 82.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.81		1.5	0.81	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Hexachloroethane	<0.038		0.38	0.038	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Isophorone	<0.039		0.38	0.039	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Nitrobenzene	<0.024		0.076	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
N-Nitrosodiphenylamine	<0.045		0.38	0.045	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Pentachlorophenol	<0.19		1.5	0.19	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2
Phenol	<0.033		0.38	0.033	mg/Kg	☼	09/10/24 14:54	09/11/24 15:59	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*31 - 166*	*09/10/24 14:54*	*09/11/24 15:59*	*2*
Phenol-d5 (Surr)	*54*		*30 - 153*	*09/10/24 14:54*	*09/11/24 15:59*	*2*
Nitrobenzene-d5 (Surr)	*61*		*37 - 147*	*09/10/24 14:54*	*09/11/24 15:59*	*2*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/10/24 14:54*	*09/11/24 15:59*	*2*
2,4,6-Tribromophenol (Surr)	*48*		*31 - 143*	*09/10/24 14:54*	*09/11/24 15:59*	*2*
Terphenyl-d14 (Surr)	*67*		*42 - 157*	*09/10/24 14:54*	*09/11/24 15:59*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
4,4'-DDE	<0.0010		0.0020	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
4,4'-DDT	<0.00094		0.0020	0.00094	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
Aldrin	<0.0014		0.0020	0.0014	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
alpha-BHC	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
alpha-Chlordane	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
beta-BHC	<0.0016		0.0020	0.0016	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
Chlordane (technical)	<0.0038		0.0079	0.0038	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
delta-BHC	<0.0047		0.010	0.0047	mg/Kg	☼	09/04/24 15:38	09/09/24 16:49	5
Dieldrin	<0.0010		0.0020	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
Endosulfan I	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
Endosulfan II	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
Endosulfan sulfate	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
Endrin	<0.0010		0.0020	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
Endrin aldehyde	<0.0057		0.010	0.0057	mg/Kg	☼	09/04/24 15:38	09/09/24 16:49	5
Endrin ketone	<0.00097		0.0020	0.00097	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
gamma-BHC (Lindane)	<0.00099		0.0020	0.00099	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
gamma-Chlordane	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
Heptachlor	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
Heptachlor epoxide	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
Methoxychlor	<0.0013		0.0098	0.0013	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1
Toxaphene	<0.0079		0.020	0.0079	mg/Kg	☼	09/04/24 15:38	09/09/24 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*33 - 148*	*09/04/24 15:38*	*09/09/24 16:37*	*1*
Tetrachloro-m-xylene	*61*		*30 - 121*	*09/04/24 15:38*	*09/09/24 16:37*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 13:45	1
PCB-1221	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 13:45	1

Client Sample ID: SB2 (3-5)
Lab Sample ID: 500-255852-4
Date Collected: 08/28/24 10:35
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 82.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 13:45	1
PCB-1242	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 13:45	1
PCB-1248	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 13:45	1
PCB-1254	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 13:45	1
PCB-1260	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 13:45	1
Polychlorinated biphenyls, Total	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*09/04/24 15:38*	*09/13/24 13:45*	*1*
DCB Decachlorobiphenyl	*57*		*37 - 121*	*09/04/24 15:38*	*09/13/24 13:45*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3100**		21		mg/Kg	☼	09/12/24 15:58	09/13/24 14:59	1
Antimony	<2.1		2.1		mg/Kg	☼	09/12/24 15:58	09/13/24 14:59	1
Arsenic	**12**		5.4		mg/Kg	☼	09/12/24 15:58	09/13/24 18:52	5
Barium	**76**		5.4		mg/Kg	☼	09/12/24 15:58	09/13/24 18:52	5
Beryllium	<2.1		2.1		mg/Kg	☼	09/12/24 15:58	09/13/24 18:52	5
Cadmium	<1.1		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 18:52	5
Calcium	**9700**	**B**	21		mg/Kg	☼	09/12/24 15:58	09/13/24 14:59	1
Chromium	**10**		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 14:59	1
Cobalt	**6.0**		0.54		mg/Kg	☼	09/12/24 15:58	09/13/24 14:59	1
Copper	**56**		5.4		mg/Kg	☼	09/12/24 15:58	09/13/24 18:52	5
Iron	**97000**		110		mg/Kg	☼	09/12/24 15:58	09/13/24 18:52	5
Lead	**90**		2.7		mg/Kg	☼	09/12/24 15:58	09/13/24 18:52	5
Magnesium	**1800**		11		mg/Kg	☼	09/12/24 15:58	09/13/24 14:59	1
Manganese	**1500**	**B**	1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 14:59	1
Nickel	**20**		5.4		mg/Kg	☼	09/12/24 15:58	09/13/24 18:52	5
Potassium	**480**		54		mg/Kg	☼	09/12/24 15:58	09/13/24 14:59	1
Selenium	<5.4		5.4		mg/Kg	☼	09/12/24 15:58	09/13/24 18:52	5
Silver	<2.7		2.7		mg/Kg	☼	09/12/24 15:58	09/13/24 18:52	5
Sodium	**500**		110		mg/Kg	☼	09/12/24 15:58	09/13/24 14:59	1
Thallium	**7.0**		5.4		mg/Kg	☼	09/12/24 15:58	09/13/24 18:52	5
Vanadium	**19**		2.7		mg/Kg	☼	09/12/24 15:58	09/13/24 18:52	5
Zinc	**170**		2.1		mg/Kg	☼	09/12/24 15:58	09/13/24 14:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.060**		0.020		mg/Kg	☼	09/12/24 16:30	09/13/24 08:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.39**		0.29		mg/Kg	☼	08/30/24 11:42	08/30/24 14:54	1
pH (SW846 9045D)	**7.24**		0.20		SU			09/04/24 16:05	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB3 (0-3)
Lab Sample ID: 500-255852-5
Date Collected: 08/28/24 11:43
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 93.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00083		0.0021	0.00083	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0021	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
1,1,2-Trichloroethane	<0.00077		0.0021	0.00077	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
1,1-Dichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
1,1-Dichloroethene	<0.00085		0.0021	0.00085	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
1,2-Dichloroethane	<0.0013		0.0052	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
1,2-Dichloropropane	<0.00053		0.0021	0.00053	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
2-Hexanone	<0.0031		0.0052	0.0031	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0052	0.0037	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Acetone	<0.0087		0.021	0.0087	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Benzene	<0.00065		0.0021	0.00065	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Bromodichloromethane	<0.00066		0.0021	0.00066	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Bromomethane	<0.0025		0.0052	0.0025	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Carbon disulfide	<0.00095		0.0052	0.00095	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Carbon tetrachloride	<0.00070		0.0021	0.00070	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Chlorobenzene	<0.00087		0.0021	0.00087	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Chloroethane	<0.0017		0.0052	0.0017	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Chloromethane	<0.0010		0.0052	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
cis-1,2-Dichloroethene	<0.00083		0.0021	0.00083	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
1,3-Dichloropropene, Total	<0.00099		0.0021	0.00099	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Dibromochloromethane	<0.00096		0.0021	0.00096	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Methyl tert-butyl ether	<0.00067		0.0021	0.00067	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Methylene Chloride	<0.0022		0.0052	0.0022	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Styrene	<0.00093		0.0021	0.00093	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Toluene	<0.00041		0.0021	0.00041	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Xylenes, Total	<0.00071		0.0041	0.00071	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
trans-1,2-Dichloroethene	<0.00078		0.0021	0.00078	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Trichloroethene	<0.00056		0.0021	0.00056	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1
Vinyl chloride	<0.00084		0.0021	0.00084	mg/Kg	☼	08/29/24 17:47	09/06/24 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 134*	*08/29/24 17:47*	*09/06/24 16:28*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*08/29/24 17:47*	*09/06/24 16:28*	*1*
Dibromofluoromethane	*111*		*75 - 126*	*08/29/24 17:47*	*09/06/24 16:28*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*08/29/24 17:47*	*09/06/24 16:28*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.080**		0.068	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Acenaphthylene	**0.040**	**J**	0.068	0.012	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Anthracene	**0.25**		0.068	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Benzo[a]anthracene	**1.2**		0.068	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Benzo[a]pyrene	**1.4**		0.068	0.066	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Benzo[b]fluoranthene	**1.6**		0.068	0.065	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Benzo[g,h,i]perylene	**0.77**		0.068	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB3 (0-3)
Lab Sample ID: 500-255852-5
Date Collected: 08/28/24 11:43
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 93.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.4**		0.068	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Chrysene	**1.3**		0.068	0.018	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Dibenz(a,h)anthracene	**0.23**		0.068	0.068	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Fluoranthene	**2.5**		0.068	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Fluorene	**0.083**		0.068	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Indeno[1,2,3-cd]pyrene	**0.86**		0.068	0.067	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Naphthalene	**0.061**	**J**	0.068	0.012	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Phenanthrene	**0.98**		0.068	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Pyrene	**2.1**		0.068	0.019	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
1,2,4-Trichlorobenzene	<0.049		0.34	0.049	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
1,2-Dichlorobenzene	<0.028		0.34	0.028	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
1,3-Dichlorobenzene	<0.031		0.34	0.031	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
1,4-Dichlorobenzene	<0.032		0.34	0.032	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2,4,5-Trichlorophenol	<0.026		0.68	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2,4,6-Trichlorophenol	<0.023		0.68	0.023	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2,4-Dichlorophenol	<0.024		0.68	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2,4-Dimethylphenol	<0.15	*+	0.68	0.15	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2,4-Dinitrotoluene	<0.039		0.34	0.039	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2,6-Dinitrotoluene	<0.023		0.34	0.023	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2-Chloronaphthalene	<0.026		0.34	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2-Chlorophenol	<0.022		0.34	0.022	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2-Methylnaphthalene	**0.032**	**J**	0.14	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2-Methylphenol	<0.036		0.34	0.036	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2-Nitroaniline	<0.037		0.34	0.037	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
2-Nitrophenol	<0.046		0.68	0.046	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
3,3'-Dichlorobenzidine	<0.056		0.34	0.056	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
3 & 4 Methylphenol	<0.050		0.34	0.050	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
3-Nitroaniline	<0.031		0.68	0.031	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
4-Bromophenyl phenyl ether	<0.047		0.34	0.047	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
4-Chloro-3-methylphenol	<0.027		0.68	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
4-Chloroaniline	<0.72		1.4	0.72	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
4-Chlorophenyl phenyl ether	<0.090		0.34	0.090	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
4-Nitroaniline	<0.050		0.68	0.050	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
4-Nitrophenol	<0.25		1.4	0.25	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Bis(2-chloroethoxy)methane	<0.026		0.34	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Bis(2-chloroethyl)ether	<0.032		0.34	0.032	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
bis(chloroisopropyl) ether	<0.049		0.34	0.049	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Bis(2-ethylhexyl) phthalate	<0.27		0.34	0.27	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Butyl benzyl phthalate	<0.034		0.34	0.034	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Carbazole	**0.081**	**J**	0.34	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Dibenzofuran	**0.047**	**J**	0.34	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Diethyl phthalate	<0.031		0.34	0.031	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Dimethyl phthalate	<0.015		0.34	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Di-n-butyl phthalate	<0.022		0.34	0.022	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Di-n-octyl phthalate	<0.48		0.68	0.48	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Hexachlorobutadiene	<0.039		0.34	0.039	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2

Client Sample ID: SB3 (0-3) — **Lab Sample ID: 500-255852-5**
Date Collected: 08/28/24 11:43 — **Matrix: Solid**
Date Received: 08/29/24 15:25 — **Percent Solids: 93.0**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.72		1.4	0.72	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Hexachloroethane	<0.034		0.34	0.034	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Isophorone	<0.035		0.34	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Nitrobenzene	<0.022		0.068	0.022	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
N-Nitrosodi-n-propylamine	<0.013		0.14	0.013	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
N-Nitrosodiphenylamine	<0.041		0.34	0.041	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2
Phenol	<0.030		0.34	0.030	mg/Kg	☼	09/10/24 14:54	09/11/24 16:24	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*31 - 166*	*09/10/24 14:54*	*09/11/24 16:24*	*2*
Phenol-d5 (Surr)	*63*		*30 - 153*	*09/10/24 14:54*	*09/11/24 16:24*	*2*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*09/10/24 14:54*	*09/11/24 16:24*	*2*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/10/24 14:54*	*09/11/24 16:24*	*2*
2,4,6-Tribromophenol (Surr)	*62*		*31 - 143*	*09/10/24 14:54*	*09/11/24 16:24*	*2*
Terphenyl-d14 (Surr)	*77*		*42 - 157*	*09/10/24 14:54*	*09/11/24 16:24*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00097		0.0018	0.00097	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
4,4'-DDE	<0.00093		0.0018	0.00093	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
4,4'-DDT	<0.00086		0.0018	0.00086	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Aldrin	<0.0013		0.0018	0.0013	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
alpha-BHC	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
alpha-Chlordane	<0.00096		0.0018	0.00096	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
beta-BHC	<0.0015		0.0018	0.0015	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Chlordane (technical)	<0.0034		0.0072	0.0034	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
delta-BHC	<0.00086		0.0018	0.00086	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Dieldrin	<0.00094		0.0018	0.00094	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Endosulfan I	<0.00097		0.0018	0.00097	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Endosulfan II	<0.00099		0.0018	0.00099	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Endosulfan sulfate	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Endrin	<0.00092		0.0018	0.00092	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Endrin aldehyde	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Endrin ketone	<0.00088		0.0018	0.00088	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
gamma-BHC (Lindane)	<0.00090		0.0018	0.00090	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Heptachlor	<0.00098		0.0018	0.00098	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Heptachlor epoxide	<0.00097		0.0018	0.00097	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Methoxychlor	<0.0012		0.0089	0.0012	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1
Toxaphene	<0.0072		0.018	0.0072	mg/Kg	☼	09/04/24 15:38	09/06/24 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*188*	*S1+*	*33 - 148*	*09/04/24 15:38*	*09/06/24 18:35*	*1*
Tetrachloro-m-xylene	*119*		*30 - 121*	*09/04/24 15:38*	*09/06/24 18:35*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:00	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:00	1

Client Sample ID: SB3 (0-3)
Date Collected: 08/28/24 11:43
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-5
Matrix: Solid
Percent Solids: 93.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	**0.22**		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:00	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:00	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:00	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:00	1
PCB-1260	**0.031**		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:00	1
Polychlorinated biphenyls, Total	**0.25**		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*09/04/24 15:38*	*09/13/24 14:00*	*1*
DCB Decachlorobiphenyl	*49*		*37 - 121*	*09/04/24 15:38*	*09/13/24 14:00*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8200**		19		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Antimony	**6.3**		1.9		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Arsenic	**11**		4.7		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Barium	**280**		4.7		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Beryllium	<1.9		1.9		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Cadmium	**1.3**		0.94		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Calcium	**160000**	**B**	94		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Chromium	**1700**		19		mg/Kg	☼	09/12/24 15:58	09/16/24 14:02	20
Cobalt	**5.2**		0.47		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Copper	**76**		4.7		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Iron	**150000**		94		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Lead	**120**		2.4		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Magnesium	**26000**		9.4		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Manganese	**27000**	**B**	19		mg/Kg	☼	09/12/24 15:58	09/16/24 14:02	20
Nickel	**150**		4.7		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Potassium	**110**		47		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Selenium	**8.3**		4.7		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Silver	<2.4		2.4		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Sodium	**280**		94		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Thallium	**110**		4.7		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Vanadium	**340**		2.4		mg/Kg	☼	09/12/24 15:58	09/13/24 18:57	5
Zinc	**170**		1.9		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.065**		0.017		mg/Kg	☼	09/12/24 16:30	09/13/24 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**3.0**		0.23		mg/Kg	☼	08/30/24 11:42	08/30/24 15:42	1
pH (SW846 9045D)	**9.08**		0.20		SU			09/04/24 16:07	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB3 (5-7.5)
Lab Sample ID: 500-255852-6
Date Collected: 08/28/24 12:30
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 86.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0012		0.0029	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0029	0.0015	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
1,1,2-Trichloroethane	<0.0011		0.0029	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
1,1-Dichloroethane	<0.0011		0.0029	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
1,1-Dichloroethene	<0.0012		0.0029	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
1,2-Dichloroethane	<0.0019		0.0073	0.0019	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
1,2-Dichloropropane	<0.00076		0.0029	0.00076	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
2-Butanone (MEK)	<0.0032		0.0073	0.0032	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
2-Hexanone	<0.0045		0.0073	0.0045	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0073	0.0052	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Acetone	**0.023**	**J**	0.029	0.012	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Benzene	<0.00092		0.0029	0.00092	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Bromodichloromethane	<0.00094		0.0029	0.00094	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Bromoform	<0.0017		0.0029	0.0017	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Bromomethane	<0.0036		0.0073	0.0036	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Carbon disulfide	<0.0014		0.0073	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Carbon tetrachloride	<0.0010		0.0029	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Chlorobenzene	<0.0012		0.0029	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Chloroethane	<0.0024		0.0073	0.0024	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Chloroform	<0.0021		0.0029	0.0021	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Chloromethane	<0.0014		0.0073	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
cis-1,2-Dichloroethene	<0.0012		0.0029	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
1,3-Dichloropropene, Total	<0.0014		0.0029	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Dibromochloromethane	<0.0014		0.0029	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Ethylbenzene	<0.0015		0.0029	0.0015	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Methyl tert-butyl ether	<0.00095		0.0029	0.00095	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Methylene Chloride	<0.0031		0.0073	0.0031	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Styrene	<0.0013		0.0029	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Tetrachloroethene	<0.0016		0.0029	0.0016	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Toluene	<0.00059		0.0029	0.00059	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Xylenes, Total	<0.0010		0.0059	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
trans-1,2-Dichloroethene	<0.0011		0.0029	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Trichloroethene	<0.00080		0.0029	0.00080	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1
Vinyl chloride	<0.0012		0.0029	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 134*	*08/29/24 17:47*	*09/06/24 16:52*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*08/29/24 17:47*	*09/06/24 16:52*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*08/29/24 17:47*	*09/06/24 16:52*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*08/29/24 17:47*	*09/06/24 16:52*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.030**	**J**	0.075	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Acenaphthylene	**0.25**		0.075	0.013	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Anthracene	**0.87**		0.075	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Benzo[a]anthracene	**4.1**		0.075	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Benzo[a]pyrene	**4.1**		0.075	0.073	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Benzo[b]fluoranthene	**4.0**		0.075	0.072	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Benzo[g,h,i]perylene	**1.8**		0.075	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB3 (5-7.5)
Lab Sample ID: 500-255852-6
Date Collected: 08/28/24 12:30
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 86.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**3.8**		0.075	0.029	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Chrysene	**4.0**		0.075	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Dibenz(a,h)anthracene	**0.53**		0.075	0.075	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Fluoranthene	**8.8**		0.075	0.018	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Fluorene	**0.11**		0.075	0.022	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Indeno[1,2,3-cd]pyrene	**2.0**		0.075	0.074	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Naphthalene	**0.16**		0.075	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Phenanthrene	**3.3**		0.075	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Pyrene	**6.9**		0.075	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
1,2,4-Trichlorobenzene	<0.054		0.38	0.054	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
1,2-Dichlorobenzene	<0.031		0.38	0.031	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
1,3-Dichlorobenzene	<0.034		0.38	0.034	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
1,4-Dichlorobenzene	<0.036		0.38	0.036	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2,4,5-Trichlorophenol	<0.029		0.75	0.029	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2,4,6-Trichlorophenol	<0.026		0.75	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2,4-Dichlorophenol	<0.027		0.75	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2,4-Dimethylphenol	<0.17	*+	0.75	0.17	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2,4-Dinitrophenol	<0.44		1.5	0.44	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2,4-Dinitrotoluene	<0.043		0.38	0.043	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2,6-Dinitrotoluene	<0.026		0.38	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2-Chloronaphthalene	<0.028		0.38	0.028	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2-Chlorophenol	<0.024		0.38	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2-Methylnaphthalene	**0.20**		0.15	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2-Methylphenol	<0.040		0.38	0.040	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2-Nitroaniline	<0.041		0.38	0.041	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
2-Nitrophenol	<0.051		0.75	0.051	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
3,3'-Dichlorobenzidine	<0.062		0.38	0.062	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
3 & 4 Methylphenol	<0.055		0.38	0.055	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
3-Nitroaniline	<0.034		0.75	0.034	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
4,6-Dinitro-2-methylphenol	<0.43		1.5	0.43	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
4-Bromophenyl phenyl ether	<0.052		0.38	0.052	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
4-Chloro-3-methylphenol	<0.029		0.75	0.029	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
4-Chloroaniline	<0.79		1.5	0.79	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
4-Chlorophenyl phenyl ether	<0.099		0.38	0.099	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
4-Nitroaniline	<0.056		0.75	0.056	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
4-Nitrophenol	<0.28		1.5	0.28	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Bis(2-chloroethoxy)methane	<0.028		0.38	0.028	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Bis(2-chloroethyl)ether	<0.035		0.38	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
bis(chloroisopropyl) ether	<0.054		0.38	0.054	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Bis(2-ethylhexyl) phthalate	**0.85**		0.38	0.30	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Butyl benzyl phthalate	<0.038		0.38	0.038	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Carbazole	**0.66**		0.38	0.030	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Dibenzofuran	**0.094**	**J**	0.38	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Diethyl phthalate	<0.035		0.38	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Dimethyl phthalate	<0.016		0.38	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Di-n-butyl phthalate	<0.024		0.38	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Di-n-octyl phthalate	<0.53		0.75	0.53	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Hexachlorobenzene	<0.015		0.15	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Hexachlorobutadiene	<0.043		0.38	0.043	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB3 (5-7.5)
Lab Sample ID: 500-255852-6
Date Collected: 08/28/24 12:30
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 86.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.80		1.5	0.80	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Hexachloroethane	<0.038		0.38	0.038	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Isophorone	<0.039		0.38	0.039	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Nitrobenzene	<0.024		0.075	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
N-Nitrosodiphenylamine	<0.045		0.38	0.045	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Pentachlorophenol	<0.19		1.5	0.19	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2
Phenol	<0.033		0.38	0.033	mg/Kg	☼	09/10/24 14:54	09/11/24 16:49	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*59*		*31 - 166*	*09/10/24 14:54*	*09/11/24 16:49*	*2*
Phenol-d5 (Surr)	*68*		*30 - 153*	*09/10/24 14:54*	*09/11/24 16:49*	*2*
Nitrobenzene-d5 (Surr)	*64*		*37 - 147*	*09/10/24 14:54*	*09/11/24 16:49*	*2*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*09/10/24 14:54*	*09/11/24 16:49*	*2*
2,4,6-Tribromophenol (Surr)	*74*		*31 - 143*	*09/10/24 14:54*	*09/11/24 16:49*	*2*
Terphenyl-d14 (Surr)	*80*		*42 - 157*	*09/10/24 14:54*	*09/11/24 16:49*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00099		0.0019	0.00099	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
4,4'-DDE	<0.00095		0.0019	0.00095	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
4,4'-DDT	<0.00087		0.0019	0.00087	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
Aldrin	<0.0013		0.0019	0.0013	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
alpha-BHC	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
alpha-Chlordane	<0.00098		0.0019	0.00098	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
beta-BHC	<0.0015		0.0019	0.0015	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
Chlordane (technical)	<0.0035		0.0073	0.0035	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
delta-BHC	<0.0044		0.0093	0.0044	mg/Kg	☼	09/04/24 15:38	09/09/24 17:12	5
Dieldrin	<0.00096		0.0019	0.00096	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
Endosulfan I	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
Endosulfan II	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
Endosulfan sulfate	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
Endrin	<0.00094		0.0019	0.00094	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
Endrin aldehyde	<0.0053		0.0093	0.0053	mg/Kg	☼	09/04/24 15:38	09/09/24 17:12	5
Endrin ketone	<0.00090		0.0019	0.00090	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
gamma-BHC (Lindane)	<0.00092		0.0019	0.00092	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
gamma-Chlordane	**0.0053**		0.0019	0.0011	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
Heptachlor	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
Heptachlor epoxide	<0.00099		0.0019	0.00099	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
Methoxychlor	<0.0012		0.0091	0.0012	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1
Toxaphene	<0.0074		0.018	0.0074	mg/Kg	☼	09/04/24 15:38	09/09/24 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*208*	*S1+*	*33 - 148*	*09/04/24 15:38*	*09/09/24 17:01*	*1*
Tetrachloro-m-xylene	*59*		*30 - 121*	*09/04/24 15:38*	*09/09/24 17:01*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:15	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:15	1

Client Sample ID: SB3 (5-7.5)
Lab Sample ID: 500-255852-6

Date Collected: 08/28/24 12:30
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 86.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:15	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:15	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:15	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:15	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:15	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/04/24 15:38*	*09/13/24 14:15*	*1*
DCB Decachlorobiphenyl	*53*		*37 - 121*	*09/04/24 15:38*	*09/13/24 14:15*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7300**		20		mg/Kg	☼	09/12/24 15:58	09/13/24 14:51	1
Antimony	<2.0		2.0		mg/Kg	☼	09/12/24 15:58	09/13/24 14:51	1
Arsenic	**61**		5.0		mg/Kg	☼	09/12/24 15:58	09/13/24 19:01	5
Barium	**110**		0.99		mg/Kg	☼	09/12/24 15:58	09/13/24 14:51	1
Beryllium	**2.2**		2.0		mg/Kg	☼	09/12/24 15:58	09/13/24 19:01	5
Cadmium	<0.20		0.20		mg/Kg	☼	09/12/24 15:58	09/13/24 14:51	1
Calcium	**24000**	**B**	20		mg/Kg	☼	09/12/24 15:58	09/13/24 14:51	1
Chromium	**23**		0.99		mg/Kg	☼	09/12/24 15:58	09/13/24 14:51	1
Cobalt	**12**		2.5		mg/Kg	☼	09/12/24 15:58	09/13/24 19:01	5
Copper	**81**		5.0		mg/Kg	☼	09/12/24 15:58	09/13/24 19:01	5
Iron	**160000**		99		mg/Kg	☼	09/12/24 15:58	09/13/24 19:01	5
Lead	**960**		2.5		mg/Kg	☼	09/12/24 15:58	09/13/24 19:01	5
Magnesium	**3000**		9.9		mg/Kg	☼	09/12/24 15:58	09/13/24 14:51	1
Manganese	**8800**	**B**	5.0		mg/Kg	☼	09/12/24 15:58	09/13/24 19:01	5
Nickel	**26**		5.0		mg/Kg	☼	09/12/24 15:58	09/13/24 19:01	5
Potassium	**570**		50		mg/Kg	☼	09/12/24 15:58	09/13/24 14:51	1
Selenium	<5.0		5.0		mg/Kg	☼	09/12/24 15:58	09/13/24 19:01	5
Silver	<0.50		0.50		mg/Kg	☼	09/12/24 15:58	09/13/24 14:51	1
Sodium	<500		500		mg/Kg	☼	09/12/24 15:58	09/13/24 19:01	5
Thallium	**39**		5.0		mg/Kg	☼	09/12/24 15:58	09/13/24 19:01	5
Vanadium	**55**		2.5		mg/Kg	☼	09/12/24 15:58	09/13/24 19:01	5
Zinc	**250**		2.0		mg/Kg	☼	09/12/24 15:58	09/13/24 14:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.043**		0.019		mg/Kg	☼	09/12/24 16:30	09/13/24 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.63**		0.27		mg/Kg	☼	08/30/24 11:42	08/30/24 14:56	1
pH (SW846 9045D)	**7.80**		0.20		SU			09/04/24 16:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB4 (0-3)
Lab Sample ID: 500-255852-7
Date Collected: 08/28/24 13:45
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 87.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0012		0.0030	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
1,1,2,2-Tetrachloroethane	<0.0015	*3	0.0030	0.0015	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
1,1,2-Trichloroethane	<0.0011		0.0030	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
1,1-Dichloroethane	<0.0011		0.0030	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
1,1-Dichloroethene	<0.0012		0.0030	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
1,2-Dichloroethane	<0.0019		0.0074	0.0019	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
1,2-Dichloropropane	<0.00077		0.0030	0.00077	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
2-Butanone (MEK)	<0.0033		0.0074	0.0033	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
2-Hexanone	<0.0045		0.0074	0.0045	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0074	0.0053	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Acetone	<0.013		0.030	0.013	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Benzene	<0.00094		0.0030	0.00094	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Bromodichloromethane	<0.00096		0.0030	0.00096	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Bromoform	<0.0017		0.0030	0.0017	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Bromomethane	<0.0037		0.0074	0.0037	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Carbon disulfide	<0.0014		0.0074	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Carbon tetrachloride	<0.0010		0.0030	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Chlorobenzene	<0.0013		0.0030	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Chloroethane	<0.0024		0.0074	0.0024	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Chloroform	<0.0021		0.0030	0.0021	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Chloromethane	<0.0014		0.0074	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
cis-1,2-Dichloroethene	<0.0012		0.0030	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
1,3-Dichloropropene, Total	<0.0014		0.0030	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Dibromochloromethane	<0.0014		0.0030	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Ethylbenzene	<0.0016		0.0030	0.0016	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Methyl tert-butyl ether	<0.00096		0.0030	0.00096	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Methylene Chloride	<0.0032		0.0074	0.0032	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Styrene	<0.0013		0.0030	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Tetrachloroethene	<0.0017		0.0030	0.0017	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Toluene	<0.00060		0.0030	0.00060	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Xylenes, Total	<0.0010		0.0060	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
trans-1,2-Dichloroethene	<0.0011		0.0030	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Trichloroethene	<0.00081		0.0030	0.00081	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1
Vinyl chloride	<0.0012		0.0030	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 134*	*08/29/24 17:47*	*09/06/24 17:16*	*1*
4-Bromofluorobenzene (Surr)	*122*	*3	*75 - 131*	*08/29/24 17:47*	*09/06/24 17:16*	*1*
Dibromofluoromethane	*112*		*75 - 126*	*08/29/24 17:47*	*09/06/24 17:16*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*08/29/24 17:47*	*09/06/24 17:16*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015		0.075	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Acenaphthylene	**0.047**	**J**	0.075	0.013	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Anthracene	**0.10**		0.075	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Benzo[a]anthracene	**0.30**		0.075	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Benzo[a]pyrene	**0.29**		0.075	0.073	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Benzo[b]fluoranthene	**0.39**		0.075	0.072	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Benzo[g,h,i]perylene	**0.17**		0.075	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB4 (0-3)
Lab Sample ID: 500-255852-7
Date Collected: 08/28/24 13:45
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 87.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.32**		0.075	0.029	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Chrysene	**0.37**		0.075	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Dibenz(a,h)anthracene	<0.075		0.075	0.075	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Fluoranthene	**0.43**		0.075	0.018	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Fluorene	**0.046**	**J**	0.075	0.022	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Indeno[1,2,3-cd]pyrene	**0.18**		0.075	0.073	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Naphthalene	**0.11**		0.075	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Phenanthrene	**0.72**		0.075	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Pyrene	**0.34**		0.075	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
1,2,4-Trichlorobenzene	<0.054		0.38	0.054	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
1,2-Dichlorobenzene	<0.031		0.38	0.031	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
1,3-Dichlorobenzene	<0.034		0.38	0.034	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
1,4-Dichlorobenzene	<0.036		0.38	0.036	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2,4,5-Trichlorophenol	<0.028		0.75	0.028	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2,4,6-Trichlorophenol	<0.026		0.75	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2,4-Dichlorophenol	<0.027		0.75	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2,4-Dimethylphenol	<0.17	*+	0.75	0.17	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2,4-Dinitrophenol	<0.44		1.5	0.44	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2,4-Dinitrotoluene	<0.043		0.38	0.043	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2,6-Dinitrotoluene	<0.026		0.38	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2-Chloronaphthalene	<0.028		0.38	0.028	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2-Chlorophenol	<0.024		0.38	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2-Methylnaphthalene	**0.16**		0.15	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2-Methylphenol	<0.040		0.38	0.040	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2-Nitroaniline	<0.040		0.38	0.040	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
2-Nitrophenol	<0.051		0.75	0.051	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
3,3'-Dichlorobenzidine	<0.062		0.38	0.062	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
3 & 4 Methylphenol	<0.055		0.38	0.055	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
3-Nitroaniline	<0.034		0.75	0.034	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
4,6-Dinitro-2-methylphenol	<0.43		1.5	0.43	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
4-Bromophenyl phenyl ether	<0.052		0.38	0.052	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
4-Chloro-3-methylphenol	<0.029		0.75	0.029	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
4-Chloroaniline	<0.79		1.5	0.79	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
4-Chlorophenyl phenyl ether	<0.099		0.38	0.099	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
4-Nitroaniline	<0.056		0.75	0.056	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
4-Nitrophenol	<0.28		1.5	0.28	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Bis(2-chloroethoxy)methane	<0.028		0.38	0.028	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Bis(2-chloroethyl)ether	<0.035		0.38	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
bis(chloroisopropyl) ether	<0.054		0.38	0.054	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Bis(2-ethylhexyl) phthalate	<0.30		0.38	0.30	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Butyl benzyl phthalate	<0.038		0.38	0.038	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Carbazole	**0.041**	**J**	0.38	0.030	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Dibenzofuran	**0.068**	**J**	0.38	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Diethyl phthalate	<0.035		0.38	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Dimethyl phthalate	<0.016		0.38	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Di-n-butyl phthalate	<0.024		0.38	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Di-n-octyl phthalate	<0.53		0.75	0.53	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Hexachlorobutadiene	<0.043		0.38	0.043	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB4 (0-3)
Lab Sample ID: 500-255852-7
Date Collected: 08/28/24 13:45
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 87.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.80		1.5	0.80	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Hexachloroethane	<0.038		0.38	0.038	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Isophorone	<0.039		0.38	0.039	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Nitrobenzene	<0.024		0.075	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
N-Nitrosodiphenylamine	<0.045		0.38	0.045	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Pentachlorophenol	<0.19		1.5	0.19	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2
Phenol	<0.033		0.38	0.033	mg/Kg	☼	09/10/24 14:54	09/11/24 17:15	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*31 - 166*	*09/10/24 14:54*	*09/11/24 17:15*	*2*
Phenol-d5 (Surr)	*56*		*30 - 153*	*09/10/24 14:54*	*09/11/24 17:15*	*2*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*09/10/24 14:54*	*09/11/24 17:15*	*2*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/10/24 14:54*	*09/11/24 17:15*	*2*
2,4,6-Tribromophenol (Surr)	*50*		*31 - 143*	*09/10/24 14:54*	*09/11/24 17:15*	*2*
Terphenyl-d14 (Surr)	*71*		*42 - 157*	*09/10/24 14:54*	*09/11/24 17:15*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
4,4'-DDE	<0.00097		0.0019	0.00097	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
4,4'-DDT	<0.00089		0.0019	0.00089	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Aldrin	<0.0013		0.0019	0.0013	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
alpha-BHC	<0.0011		0.0019	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
alpha-Chlordane	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
beta-BHC	<0.0015		0.0019	0.0015	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Chlordane (technical)	<0.0036		0.0075	0.0036	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
delta-BHC	<0.00090		0.0019	0.00090	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Dieldrin	<0.00098		0.0019	0.00098	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Endosulfan I	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Endosulfan II	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Endosulfan sulfate	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Endrin	<0.00096		0.0019	0.00096	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Endrin aldehyde	<0.0011		0.0019	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Endrin ketone	<0.00091		0.0019	0.00091	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
gamma-BHC (Lindane)	<0.00093		0.0019	0.00093	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
gamma-Chlordane	<0.0011		0.0019	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Heptachlor	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Heptachlor epoxide	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Methoxychlor	<0.0012		0.0092	0.0012	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1
Toxaphene	<0.0075		0.019	0.0075	mg/Kg	☼	09/04/24 15:38	09/10/24 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*55*		*33 - 148*	*09/04/24 15:38*	*09/10/24 15:19*	*1*
Tetrachloro-m-xylene	*58*		*30 - 121*	*09/04/24 15:38*	*09/10/24 15:19*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	09/04/24 15:38	09/13/24 14:29	1
PCB-1221	<0.019		0.019		mg/Kg	☼	09/04/24 15:38	09/13/24 14:29	1

Client Sample ID: SB4 (0-3)
Lab Sample ID: 500-255852-7

Date Collected: 08/28/24 13:45
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 87.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.019		0.019		mg/Kg	☼	09/04/24 15:38	09/13/24 14:29	1
PCB-1242	<0.019		0.019		mg/Kg	☼	09/04/24 15:38	09/13/24 14:29	1
PCB-1248	<0.019		0.019		mg/Kg	☼	09/04/24 15:38	09/13/24 14:29	1
PCB-1254	<0.019		0.019		mg/Kg	☼	09/04/24 15:38	09/13/24 14:29	1
PCB-1260	<0.019		0.019		mg/Kg	☼	09/04/24 15:38	09/13/24 14:29	1
Polychlorinated biphenyls, Total	<0.019		0.019		mg/Kg	☼	09/04/24 15:38	09/13/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*49 - 129*	*09/04/24 15:38*	*09/13/24 14:29*	*1*
DCB Decachlorobiphenyl	*55*		*37 - 121*	*09/04/24 15:38*	*09/13/24 14:29*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3000**		21		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Antimony	**11**		11		mg/Kg	☼	09/12/24 15:58	09/13/24 19:06	5
Arsenic	**12**		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Barium	**64**		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Beryllium	**0.64**		0.42		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Cadmium	**0.41**		0.21		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Calcium	**13000**	**B**	110		mg/Kg	☼	09/12/24 15:58	09/13/24 19:06	5
Chromium	**9.5**		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Cobalt	**5.5**		0.53		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Copper	**5500**		21		mg/Kg	☼	09/12/24 15:58	09/16/24 14:16	20
Iron	**39000**		110		mg/Kg	☼	09/12/24 15:58	09/13/24 19:06	5
Lead	**1300**		0.53		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Magnesium	**3100**		11		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Manganese	**430**	**B**	1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Nickel	**13**		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Potassium	**400**		53		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Selenium	**1.3**		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Silver	**3.7**		0.53		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Sodium	**260**		110		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Thallium	<1.1		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Vanadium	**13**		0.53		mg/Kg	☼	09/12/24 15:58	09/13/24 14:55	1
Zinc	**150**		11		mg/Kg	☼	09/12/24 15:58	09/13/24 19:06	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.019		mg/Kg	☼	09/12/24 16:30	09/13/24 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26		mg/Kg	☼	08/30/24 11:42	08/30/24 14:58	1
pH (SW846 9045D)	**7.81**		0.20		SU			09/04/24 16:12	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB4 (7.5-10)
Date Collected: 08/28/24 13:50
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-8
Matrix: Solid
Percent Solids: 89.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00075		0.0018	0.00075	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
1,1,2,2-Tetrachloroethane	<0.00092		0.0018	0.00092	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
1,1,2-Trichloroethane	<0.00069		0.0018	0.00069	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
1,1-Dichloroethane	<0.00070		0.0018	0.00070	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
1,1-Dichloroethene	<0.00076		0.0018	0.00076	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
1,2-Dichloroethane	<0.0012		0.0046	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
1,2-Dichloropropane	<0.00048		0.0018	0.00048	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
2-Hexanone	<0.0028		0.0046	0.0028	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
4-Methyl-2-pentanone (MIBK)	<0.0033		0.0046	0.0033	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Acetone	<0.0078		0.018	0.0078	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Benzene	<0.00058		0.0018	0.00058	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Bromodichloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Bromoform	<0.0011		0.0018	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Bromomethane	<0.0023		0.0046	0.0023	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Carbon disulfide	<0.00085		0.0046	0.00085	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Carbon tetrachloride	<0.00063		0.0018	0.00063	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Chlorobenzene	<0.00078		0.0018	0.00078	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Chloroethane	<0.0015		0.0046	0.0015	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Chloroform	<0.0013		0.0018	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Chloromethane	<0.00090		0.0046	0.00090	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
cis-1,2-Dichloroethene	<0.00074		0.0018	0.00074	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
1,3-Dichloropropene, Total	<0.00089		0.0018	0.00089	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Dibromochloromethane	<0.00086		0.0018	0.00086	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Ethylbenzene	<0.00097		0.0018	0.00097	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Methyl tert-butyl ether	<0.00060		0.0018	0.00060	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Methylene Chloride	<0.0020		0.0046	0.0020	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Styrene	<0.00083		0.0018	0.00083	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Tetrachloroethene	<0.0010		0.0018	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Toluene	<0.00037		0.0018	0.00037	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Xylenes, Total	<0.00063		0.0037	0.00063	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
trans-1,2-Dichloroethene	<0.00070		0.0018	0.00070	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Trichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1
Vinyl chloride	<0.00075		0.0018	0.00075	mg/Kg	☼	08/29/24 17:47	09/06/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 134*	*08/29/24 17:47*	*09/06/24 17:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*	*08/29/24 17:47*	*09/06/24 17:41*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*08/29/24 17:47*	*09/06/24 17:41*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*08/29/24 17:47*	*09/06/24 17:41*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.047**	**J**	0.053	0.011	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Acenaphthylene	<0.0090		0.053	0.0090	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Anthracene	<0.011		0.053	0.011	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Benzo[a]anthracene	<0.011		0.053	0.011	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Benzo[a]pyrene	<0.051		0.053	0.051	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Benzo[b]fluoranthene	<0.051		0.053	0.051	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Benzo[g,h,i]perylene	<0.011		0.053	0.011	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB4 (7.5-10)
Lab Sample ID: 500-255852-8
Date Collected: 08/28/24 13:50
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 89.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.020		0.053	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Chrysene	<0.014		0.053	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Dibenz(a,h)anthracene	<0.053		0.053	0.053	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Fluoranthene	<0.012		0.053	0.012	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Fluorene	**0.043**	**J**	0.053	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Indeno[1,2,3-cd]pyrene	<0.052		0.053	0.052	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Naphthalene	<0.0096		0.053	0.0096	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Phenanthrene	<0.012		0.053	0.012	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Pyrene	<0.014		0.053	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
1,2,4-Trichlorobenzene	<0.038		0.27	0.038	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
1,2-Dichlorobenzene	<0.022		0.27	0.022	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
1,3-Dichlorobenzene	<0.024		0.27	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
1,4-Dichlorobenzene	<0.025		0.27	0.025	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2,4,5-Trichlorophenol	<0.020		0.53	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2,4,6-Trichlorophenol	<0.018		0.53	0.018	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2,4-Dichlorophenol	<0.019		0.53	0.019	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2,4-Dimethylphenol	<0.12	*+	0.53	0.12	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2,4-Dinitrophenol	<0.31		1.1	0.31	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2,4-Dinitrotoluene	<0.030		0.27	0.030	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2,6-Dinitrotoluene	<0.018		0.27	0.018	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2-Chloronaphthalene	<0.020		0.27	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2-Chlorophenol	<0.017		0.27	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2-Methylnaphthalene	<0.011		0.11	0.011	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2-Methylphenol	<0.028		0.27	0.028	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2-Nitroaniline	<0.028		0.27	0.028	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
2-Nitrophenol	<0.036		0.53	0.036	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
3,3'-Dichlorobenzidine	<0.043		0.27	0.043	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
3 & 4 Methylphenol	<0.039		0.27	0.039	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
3-Nitroaniline	<0.024		0.53	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
4,6-Dinitro-2-methylphenol	<0.30		1.1	0.30	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
4-Bromophenyl phenyl ether	<0.036		0.27	0.036	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
4-Chloro-3-methylphenol	<0.021		0.53	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
4-Chloroaniline	<0.56		1.1	0.56	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
4-Chlorophenyl phenyl ether	<0.070		0.27	0.070	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
4-Nitroaniline	<0.039		0.53	0.039	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
4-Nitrophenol	<0.20		1.1	0.20	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Bis(2-chloroethoxy)methane	<0.020		0.27	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Bis(2-chloroethyl)ether	<0.024		0.27	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
bis(chloroisopropyl) ether	<0.038		0.27	0.038	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Bis(2-ethylhexyl) phthalate	<0.21		0.27	0.21	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Butyl benzyl phthalate	<0.026		0.27	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Carbazole	<0.021		0.27	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Dibenzofuran	**0.042**	**J**	0.27	0.019	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Diethyl phthalate	<0.024		0.27	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Dimethyl phthalate	<0.012		0.27	0.012	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Di-n-butyl phthalate	<0.017		0.27	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Di-n-octyl phthalate	<0.37		0.53	0.37	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Hexachlorobenzene	<0.010		0.11	0.010	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Hexachlorobutadiene	<0.030		0.27	0.030	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB4 (7.5-10)
Lab Sample ID: 500-255852-8
Date Collected: 08/28/24 13:50
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 89.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.56		1.1	0.56	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Hexachloroethane	<0.027		0.27	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Isophorone	<0.027		0.27	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Nitrobenzene	<0.017		0.053	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
N-Nitrosodi-n-propylamine	<0.010		0.11	0.010	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
N-Nitrosodiphenylamine	<0.032		0.27	0.032	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Pentachlorophenol	<0.13		1.1	0.13	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1
Phenol	<0.023		0.27	0.023	mg/Kg	☼	09/10/24 14:54	09/11/24 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*82*		*31 - 166*	*09/10/24 14:54*	*09/11/24 13:53*	*1*
Phenol-d5 (Surr)	*83*		*30 - 153*	*09/10/24 14:54*	*09/11/24 13:53*	*1*
Nitrobenzene-d5 (Surr)	*87*		*37 - 147*	*09/10/24 14:54*	*09/11/24 13:53*	*1*
2-Fluorobiphenyl (Surr)	*86*		*43 - 145*	*09/10/24 14:54*	*09/11/24 13:53*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*31 - 143*	*09/10/24 14:54*	*09/11/24 13:53*	*1*
Terphenyl-d14 (Surr)	*91*		*42 - 157*	*09/10/24 14:54*	*09/11/24 13:53*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00096		0.0018	0.00096	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
4,4'-DDE	<0.00092		0.0018	0.00092	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
4,4'-DDT	<0.00085		0.0018	0.00085	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Aldrin	<0.0012		0.0018	0.0012	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
alpha-BHC	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
alpha-Chlordane	<0.00095		0.0018	0.00095	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
beta-BHC	<0.0014		0.0018	0.0014	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Chlordane (technical)	<0.0034		0.0071	0.0034	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
delta-BHC	<0.00085		0.0018	0.00085	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Dieldrin	<0.00093		0.0018	0.00093	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Endosulfan I	<0.00096		0.0018	0.00096	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Endosulfan II	<0.00098		0.0018	0.00098	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Endosulfan sulfate	<0.00099		0.0018	0.00099	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Endrin	<0.00091		0.0018	0.00091	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Endrin aldehyde	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Endrin ketone	<0.00087		0.0018	0.00087	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
gamma-BHC (Lindane)	<0.00089		0.0018	0.00089	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Heptachlor	<0.00097		0.0018	0.00097	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Heptachlor epoxide	<0.00096		0.0018	0.00096	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Methoxychlor	<0.0012		0.0088	0.0012	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1
Toxaphene	<0.0071		0.018	0.0071	mg/Kg	☼	09/04/24 15:38	09/09/24 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*33 - 148*	*09/04/24 15:38*	*09/09/24 17:36*	*1*
Tetrachloro-m-xylene	*58*		*30 - 121*	*09/04/24 15:38*	*09/09/24 17:36*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:44	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:44	1

Client Sample ID: SB4 (7.5-10)
Lab Sample ID: 500-255852-8

Date Collected: 08/28/24 13:50
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 89.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:44	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:44	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:44	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:44	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:44	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/04/24 15:38*	*09/13/24 14:44*	*1*
DCB Decachlorobiphenyl	*58*		*37 - 121*	*09/04/24 15:38*	*09/13/24 14:44*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1400**		19		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Antimony	<1.9		1.9		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Arsenic	**1.2**		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Barium	**4.1**		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Beryllium	<0.39		0.39		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Cadmium	<0.19		0.19		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Calcium	**12000**	**B**	19		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Chromium	**3.8**		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Cobalt	**1.9**		0.48		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Copper	**2.1**		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Iron	**2500**		19		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Lead	**2.0**		0.48		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Magnesium	**5900**		9.6		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Manganese	**59**	**B**	0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Nickel	**3.0**		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Potassium	**260**		48		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Selenium	<0.96		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Silver	<0.48		0.48		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Sodium	**120**		96		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Thallium	<0.96		0.96		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Vanadium	**5.3**		0.48		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1
Zinc	**11**		1.9		mg/Kg	☼	09/12/24 15:58	09/13/24 15:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/12/24 16:30	09/13/24 08:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27		mg/Kg	☼	08/30/24 11:42	08/30/24 14:59	1
pH (SW846 9045D)	**8.69**		0.20		SU			09/04/24 16:17	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB5 (0-3)
Lab Sample ID: 500-255852-9
Date Collected: 08/28/24 14:07
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 81.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0012		0.0030	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0030	0.0015	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
1,1,2-Trichloroethane	<0.0011		0.0030	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
1,1-Dichloroethane	<0.0011		0.0030	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
1,1-Dichloroethene	<0.0012		0.0030	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
1,2-Dichloroethane	<0.0020		0.0076	0.0020	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
1,2-Dichloropropane	<0.00078		0.0030	0.00078	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
2-Butanone (MEK)	<0.0033		0.0076	0.0033	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
2-Hexanone	<0.0046		0.0076	0.0046	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0076	0.0054	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Acetone	**0.028**	**J**	0.030	0.013	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Benzene	**0.0017**	**J**	0.0030	0.00095	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Bromodichloromethane	<0.00097		0.0030	0.00097	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Bromoform	<0.0018		0.0030	0.0018	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Bromomethane	<0.0037		0.0076	0.0037	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Carbon disulfide	**0.0019**	**J**	0.0076	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Carbon tetrachloride	<0.0010		0.0030	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Chlorobenzene	<0.0013		0.0030	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Chloroethane	<0.0025		0.0076	0.0025	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Chloroform	<0.0022		0.0030	0.0022	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Chloromethane	<0.0015		0.0076	0.0015	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
cis-1,2-Dichloroethene	<0.0012		0.0030	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
1,3-Dichloropropene, Total	<0.0015		0.0030	0.0015	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Dibromochloromethane	<0.0014		0.0030	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Ethylbenzene	**0.0023**	**J**	0.0030	0.0016	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Methyl tert-butyl ether	<0.00098		0.0030	0.00098	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Methylene Chloride	<0.0032		0.0076	0.0032	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Styrene	<0.0014		0.0030	0.0014	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Tetrachloroethene	<0.0017		0.0030	0.0017	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Toluene	**0.0031**		0.0030	0.00061	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Xylenes, Total	**0.0026**	**J**	0.0061	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
trans-1,2-Dichloroethene	<0.0011		0.0030	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Trichloroethene	<0.00082		0.0030	0.00082	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1
Vinyl chloride	<0.0012		0.0030	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 134*	*08/29/24 17:47*	*09/06/24 18:05*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*08/29/24 17:47*	*09/06/24 18:05*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*08/29/24 17:47*	*09/06/24 18:05*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*08/29/24 17:47*	*09/06/24 18:05*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.024		0.12	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Acenaphthylene	<0.020		0.12	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Anthracene	**0.041**	**J**	0.12	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Benzo[a]anthracene	**0.61**		0.12	0.025	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Benzo[a]pyrene	**0.96**		0.12	0.11	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Benzo[b]fluoranthene	**0.86**		0.12	0.11	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Benzo[g,h,i]perylene	**0.60**		0.12	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB5 (0-3)
Lab Sample ID: 500-255852-9
Date Collected: 08/28/24 14:07
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 81.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.90**		0.12	0.045	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Chrysene	**0.68**		0.12	0.031	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Dibenz(a,h)anthracene	**0.12**		0.12	0.12	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Fluoranthene	**0.58**		0.12	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Fluorene	<0.035		0.12	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Indeno[1,2,3-cd]pyrene	**0.59**		0.12	0.11	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Naphthalene	**0.12**		0.12	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Phenanthrene	**0.22**		0.12	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Pyrene	**0.64**		0.12	0.032	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
1,2,4-Trichlorobenzene	<0.084		0.59	0.084	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
1,2-Dichlorobenzene	<0.048		0.59	0.048	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
1,3-Dichlorobenzene	<0.053		0.59	0.053	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
1,4-Dichlorobenzene	<0.056		0.59	0.056	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2,4,5-Trichlorophenol	<0.044		1.2	0.044	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2,4,6-Trichlorophenol	<0.040		1.2	0.040	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2,4-Dichlorophenol	<0.042		1.2	0.042	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2,4-Dimethylphenol	<0.26	*+	1.2	0.26	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2,4-Dinitrophenol	<0.68		2.4	0.68	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2,4-Dinitrotoluene	<0.067		0.59	0.067	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2,6-Dinitrotoluene	<0.040		0.59	0.040	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2-Chloronaphthalene	<0.044		0.59	0.044	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2-Chlorophenol	<0.038		0.59	0.038	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2-Methylnaphthalene	**0.048**	**J**	0.24	0.024	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2-Methylphenol	<0.062		0.59	0.062	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2-Nitroaniline	<0.063		0.59	0.063	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
2-Nitrophenol	<0.080		1.2	0.080	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
3,3'-Dichlorobenzidine	<0.096		0.59	0.096	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
3 & 4 Methylphenol	<0.086		0.59	0.086	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
3-Nitroaniline	<0.054		1.2	0.054	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
4,6-Dinitro-2-methylphenol	<0.66		2.4	0.66	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
4-Bromophenyl phenyl ether	<0.081		0.59	0.081	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
4-Chloro-3-methylphenol	<0.046		1.2	0.046	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
4-Chloroaniline	<1.2		2.4	1.2	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
4-Chlorophenyl phenyl ether	<0.15		0.59	0.15	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
4-Nitroaniline	<0.087		1.2	0.087	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
4-Nitrophenol	<0.44		2.4	0.44	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Bis(2-chloroethoxy)methane	<0.044		0.59	0.044	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Bis(2-chloroethyl)ether	<0.054		0.59	0.054	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
bis(chloroisopropyl) ether	<0.085		0.59	0.085	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Bis(2-ethylhexyl) phthalate	<0.46		0.59	0.46	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Butyl benzyl phthalate	<0.059		0.59	0.059	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Carbazole	<0.047		0.59	0.047	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Dibenzofuran	<0.042		0.59	0.042	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Diethyl phthalate	<0.054		0.59	0.054	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Dimethyl phthalate	<0.026		0.59	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Di-n-butyl phthalate	<0.037		0.59	0.037	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Di-n-octyl phthalate	<0.82		1.2	0.82	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Hexachlorobenzene	<0.023		0.24	0.023	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Hexachlorobutadiene	<0.066		0.59	0.066	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2

Client Sample ID: SB5 (0-3)
Lab Sample ID: 500-255852-9
Date Collected: 08/28/24 14:07
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 81.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.3		2.4	1.3	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Hexachloroethane	<0.059		0.59	0.059	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Isophorone	<0.061		0.59	0.061	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Nitrobenzene	<0.037		0.12	0.037	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
N-Nitrosodi-n-propylamine	<0.023		0.24	0.023	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
N-Nitrosodiphenylamine	<0.070		0.59	0.070	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Pentachlorophenol	<0.29		2.4	0.29	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2
Phenol	<0.051		0.59	0.051	mg/Kg	☼	09/10/24 14:54	09/11/24 17:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*69*		*31 - 166*	*09/10/24 14:54*	*09/11/24 17:40*	*2*
Phenol-d5 (Surr)	*70*		*30 - 153*	*09/10/24 14:54*	*09/11/24 17:40*	*2*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*09/10/24 14:54*	*09/11/24 17:40*	*2*
2-Fluorobiphenyl (Surr)	*76*		*43 - 145*	*09/10/24 14:54*	*09/11/24 17:40*	*2*
2,4,6-Tribromophenol (Surr)	*71*		*31 - 143*	*09/10/24 14:54*	*09/11/24 17:40*	*2*
Terphenyl-d14 (Surr)	*67*		*42 - 157*	*09/10/24 14:54*	*09/11/24 17:40*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
4,4'-DDE	<0.0010		0.0020	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
4,4'-DDT	<0.00097		0.0020	0.00097	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Aldrin	<0.0014		0.0020	0.0014	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
alpha-BHC	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
alpha-Chlordane	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
beta-BHC	<0.0016		0.0020	0.0016	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Chlordane (technical)	<0.0039		0.0081	0.0039	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
delta-BHC	<0.00097		0.0020	0.00097	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Dieldrin	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Endosulfan I	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Endosulfan II	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Endosulfan sulfate	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Endrin	<0.0010		0.0020	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Endrin aldehyde	<0.0012		0.0020	0.0012	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Endrin ketone	<0.00099		0.0020	0.00099	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
gamma-BHC (Lindane)	<0.0010		0.0020	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
gamma-Chlordane	<0.0012		0.0020	0.0012	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Heptachlor	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Heptachlor epoxide	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Methoxychlor	<0.0013		0.010	0.0013	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1
Toxaphene	<0.0081		0.020	0.0081	mg/Kg	☼	09/04/24 15:38	09/10/24 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*33 - 148*	*09/04/24 15:38*	*09/10/24 15:43*	*1*
Tetrachloro-m-xylene	*52*		*30 - 121*	*09/04/24 15:38*	*09/10/24 15:43*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 14:59	1
PCB-1221	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 14:59	1

Client Sample ID: SB5 (0-3)
Date Collected: 08/28/24 14:07
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-9
Matrix: Solid
Percent Solids: 81.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 14:59	1
PCB-1242	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 14:59	1
PCB-1248	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 14:59	1
PCB-1254	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 14:59	1
PCB-1260	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 14:59	1
Polychlorinated biphenyls, Total	<0.020		0.020		mg/Kg	☼	09/04/24 15:38	09/13/24 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*09/04/24 15:38*	*09/13/24 14:59*	*1*
DCB Decachlorobiphenyl	*45*		*37 - 121*	*09/04/24 15:38*	*09/13/24 14:59*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		25		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Antimony	<2.5		2.5		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Arsenic	**7.8**		1.2		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Barium	**140**		1.2		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Beryllium	**2.9**		0.49		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Cadmium	**0.57**		0.25		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Calcium	**140000**	**B**	120		mg/Kg	☼	09/12/24 15:58	09/13/24 19:19	5
Chromium	**23**		1.2		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Cobalt	**4.2**		3.1		mg/Kg	☼	09/12/24 15:58	09/13/24 19:19	5
Copper	**27**		1.2		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Iron	**25000**		25		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Lead	**27**		3.1		mg/Kg	☼	09/12/24 15:58	09/13/24 19:19	5
Magnesium	**21000**		12		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Manganese	**4500**	**B**	6.2		mg/Kg	☼	09/12/24 15:58	09/13/24 19:19	5
Nickel	**13**		1.2		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Potassium	**1200**		62		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Selenium	**2.8**		1.2		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Silver	<3.1		3.1		mg/Kg	☼	09/12/24 15:58	09/13/24 19:19	5
Sodium	**670**		120		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1
Thallium	**21**		6.2		mg/Kg	☼	09/12/24 15:58	09/13/24 19:19	5
Vanadium	**44**		3.1		mg/Kg	☼	09/12/24 15:58	09/13/24 19:19	5
Zinc	**57**		2.5		mg/Kg	☼	09/12/24 15:58	09/13/24 15:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.020		mg/Kg	☼	09/12/24 16:30	09/13/24 08:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.6**		0.27		mg/Kg	☼	08/30/24 11:42	08/30/24 15:01	1
pH (SW846 9045D)	**9.10**		0.20		SU			09/04/24 16:19	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB5 (5-7.5)
Lab Sample ID: 500-255852-10
Date Collected: 08/28/24 14:15
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 89.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00092		0.0023	0.00092	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0023	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
1,1,2-Trichloroethane	<0.00085		0.0023	0.00085	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
1,1-Dichloroethane	<0.00086		0.0023	0.00086	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
1,1-Dichloroethene	<0.00094		0.0023	0.00094	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
1,2-Dichloroethane	<0.0015		0.0057	0.0015	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
1,2-Dichloropropane	<0.00059		0.0023	0.00059	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
2-Butanone (MEK)	<0.0025		0.0057	0.0025	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
2-Hexanone	<0.0035		0.0057	0.0035	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0057	0.0041	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Acetone	<0.0096		0.023	0.0096	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Benzene	<0.00072		0.0023	0.00072	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Bromodichloromethane	<0.00073		0.0023	0.00073	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Bromomethane	<0.0028		0.0057	0.0028	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Carbon disulfide	**0.0017**	**J**	0.0057	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Carbon tetrachloride	<0.00078		0.0023	0.00078	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Chlorobenzene	<0.00096		0.0023	0.00096	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Chloroethane	<0.0019		0.0057	0.0019	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Chloroform	<0.0016		0.0023	0.0016	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Chloromethane	<0.0011		0.0057	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
cis-1,2-Dichloroethene	<0.00092		0.0023	0.00092	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Methyl tert-butyl ether	<0.00074		0.0023	0.00074	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Methylene Chloride	<0.0024		0.0057	0.0024	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Toluene	**0.00047**	**J**	0.0023	0.00046	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Xylenes, Total	<0.00078		0.0046	0.00078	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
trans-1,2-Dichloroethene	<0.00086		0.0023	0.00086	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Trichloroethene	<0.00062		0.0023	0.00062	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1
Vinyl chloride	<0.00093		0.0023	0.00093	mg/Kg	☼	08/29/24 17:47	09/06/24 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 134*	*08/29/24 17:47*	*09/06/24 18:29*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*	*08/29/24 17:47*	*09/06/24 18:29*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*08/29/24 17:47*	*09/06/24 18:29*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*08/29/24 17:47*	*09/06/24 18:29*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.037	0.0075	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Acenaphthylene	<0.0062		0.037	0.0062	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Anthracene	**0.015**	**J**	0.037	0.0075	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Benzo[a]anthracene	**0.12**		0.037	0.0078	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Benzo[a]pyrene	**0.14**		0.037	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Benzo[b]fluoranthene	**0.14**		0.037	0.035	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Benzo[g,h,i]perylene	**0.12**		0.037	0.0080	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB5 (5-7.5)
Lab Sample ID: 500-255852-10
Date Collected: 08/28/24 14:15
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 89.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.11**		0.037	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Chrysene	**0.12**		0.037	0.0097	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Fluoranthene	**0.18**		0.037	0.0085	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Fluorene	<0.011		0.037	0.011	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Indeno[1,2,3-cd]pyrene	**0.12**		0.037	0.036	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Naphthalene	<0.0067		0.037	0.0067	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Phenanthrene	**0.068**		0.037	0.0080	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Pyrene	**0.19**		0.037	0.010	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
1,2,4-Trichlorobenzene	<0.026		0.19	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
1,4-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2,4-Dimethylphenol	<0.082	*+	0.37	0.082	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2,4-Dinitrotoluene	<0.021		0.19	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2-Methylnaphthalene	<0.0074		0.074	0.0074	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2-Methylphenol	<0.019		0.19	0.019	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
3,3'-Dichlorobenzidine	<0.030		0.19	0.030	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
3 & 4 Methylphenol	<0.027		0.19	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
4-Bromophenyl phenyl ether	<0.025		0.19	0.025	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
4-Chloro-3-methylphenol	<0.014		0.37	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
4-Chloroaniline	<0.39		0.74	0.39	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
4-Chlorophenyl phenyl ether	<0.048		0.19	0.048	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
4-Nitroaniline	<0.027		0.37	0.027	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
bis(chloroisopropyl) ether	<0.026		0.19	0.026	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Bis(2-ethylhexyl) phthalate	<0.14		0.19	0.14	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Butyl benzyl phthalate	<0.018		0.19	0.018	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Dibenzofuran	<0.013		0.19	0.013	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Dimethyl phthalate	<0.0080		0.19	0.0080	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Hexachlorobenzene	<0.0071		0.074	0.0071	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1

Client Sample ID: SB5 (5-7.5)
Lab Sample ID: 500-255852-10
Date Collected: 08/28/24 14:15
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 89.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Hexachloroethane	<0.018		0.19	0.018	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Isophorone	<0.019		0.19	0.019	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
N-Nitrosodi-n-propylamine	<0.0073		0.074	0.0073	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Pentachlorophenol	<0.092		0.74	0.092	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1
Phenol	<0.016		0.19	0.016	mg/Kg	☼	09/10/24 14:54	09/11/24 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*81*		*31 - 166*	*09/10/24 14:54*	*09/11/24 14:44*	*1*
Phenol-d5 (Surr)	*87*		*30 - 153*	*09/10/24 14:54*	*09/11/24 14:44*	*1*
Nitrobenzene-d5 (Surr)	*85*		*37 - 147*	*09/10/24 14:54*	*09/11/24 14:44*	*1*
2-Fluorobiphenyl (Surr)	*91*		*43 - 145*	*09/10/24 14:54*	*09/11/24 14:44*	*1*
2,4,6-Tribromophenol (Surr)	*91*		*31 - 143*	*09/10/24 14:54*	*09/11/24 14:44*	*1*
Terphenyl-d14 (Surr)	*98*		*42 - 157*	*09/10/24 14:54*	*09/11/24 14:44*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00098		0.0018	0.00098	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
4,4'-DDE	<0.00094		0.0018	0.00094	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
4,4'-DDT	<0.00087		0.0018	0.00087	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Aldrin	<0.0013		0.0018	0.0013	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
alpha-BHC	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
alpha-Chlordane	<0.00098		0.0018	0.00098	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
beta-BHC	<0.0015		0.0018	0.0015	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Chlordane (technical)	<0.0035		0.0073	0.0035	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
delta-BHC	<0.00087		0.0018	0.00087	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Dieldrin	<0.00095		0.0018	0.00095	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Endosulfan I	<0.00099		0.0018	0.00099	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Endosulfan II	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Endosulfan sulfate	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Endrin	<0.00093		0.0018	0.00093	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Endrin aldehyde	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Endrin ketone	<0.00089		0.0018	0.00089	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
gamma-BHC (Lindane)	<0.00091		0.0018	0.00091	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
gamma-Chlordane	<0.0011		0.0018	0.0011	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Heptachlor	<0.00099		0.0018	0.00099	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Heptachlor epoxide	<0.00098		0.0018	0.00098	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Methoxychlor	<0.0012		0.0090	0.0012	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1
Toxaphene	<0.0073		0.018	0.0073	mg/Kg	☼	09/04/24 15:38	09/09/24 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*33 - 148*	*09/04/24 15:38*	*09/09/24 17:59*	*1*
Tetrachloro-m-xylene	*60*		*30 - 121*	*09/04/24 15:38*	*09/09/24 17:59*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 15:14	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 15:14	1

Client Sample ID: SB5 (5-7.5)
Lab Sample ID: 500-255852-10

Date Collected: 08/28/24 14:15
Matrix: Solid

Date Received: 08/29/24 15:25
Percent Solids: 89.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 15:14	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 15:14	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 15:14	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 15:14	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 15:14	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/13/24 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*49 - 129*	*09/04/24 15:38*	*09/13/24 15:14*	*1*
DCB Decachlorobiphenyl	*52*		*37 - 121*	*09/04/24 15:38*	*09/13/24 15:14*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1800**		21		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Antimony	<2.1		2.1		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Arsenic	**2.3**		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Barium	**8.9**		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Beryllium	<0.42		0.42		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Cadmium	**0.22**		0.21		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Calcium	**26000**	**B**	21		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Chromium	**8.8**		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Cobalt	**1.7**		0.53		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Copper	**4.1**		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Iron	**5600**		21		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Lead	**8.4**		0.53		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Magnesium	**11000**		11		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Manganese	**440**	**B**	1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Nickel	**3.4**		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Potassium	**330**		53		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Selenium	<1.1		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Silver	<0.53		0.53		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Sodium	**260**		110		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Thallium	<1.1		1.1		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Vanadium	**14**		0.53		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1
Zinc	**23**		2.1		mg/Kg	☼	09/12/24 15:58	09/13/24 15:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/12/24 16:30	09/13/24 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25		mg/Kg	☼	08/30/24 11:42	08/30/24 15:03	1
pH (SW846 9045D)	**8.76**		0.20		SU			09/04/24 16:24	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 783940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-4	SB2 (3-5)	Total/NA	Solid	5035	

Prep Batch: 783956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	5035	
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	5035	
500-255852-3	SB2 (0-3)	Total/NA	Solid	5035	
500-255852-5	SB3 (0-3)	Total/NA	Solid	5035	
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	5035	
500-255852-7	SB4 (0-3)	Total/NA	Solid	5035	
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	5035	
500-255852-9	SB5 (0-3)	Total/NA	Solid	5035	
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	5035	

Analysis Batch: 784821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	8260D	783956
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	8260D	783956
500-255852-3	SB2 (0-3)	Total/NA	Solid	8260D	783956
500-255852-5	SB3 (0-3)	Total/NA	Solid	8260D	783956
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	8260D	783956
500-255852-7	SB4 (0-3)	Total/NA	Solid	8260D	783956
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	8260D	783956
500-255852-9	SB5 (0-3)	Total/NA	Solid	8260D	783956
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	8260D	783956
MB 500-784821/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-784821/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-784821/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 785227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-4	SB2 (3-5)	Total/NA	Solid	8260D	783940
MB 500-785227/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785227/4	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 785362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	3546	
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	3546	
500-255852-3	SB2 (0-3)	Total/NA	Solid	3546	
500-255852-4	SB2 (3-5)	Total/NA	Solid	3546	
500-255852-5	SB3 (0-3)	Total/NA	Solid	3546	
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	3546	
500-255852-7	SB4 (0-3)	Total/NA	Solid	3546	
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	3546	
500-255852-9	SB5 (0-3)	Total/NA	Solid	3546	
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	3546	
MB 500-785362/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-785362/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC/MS Semi VOA

Analysis Batch: 785449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	8270E	785362
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	8270E	785362
500-255852-3	SB2 (0-3)	Total/NA	Solid	8270E	785362
500-255852-4	SB2 (3-5)	Total/NA	Solid	8270E	785362
500-255852-5	SB3 (0-3)	Total/NA	Solid	8270E	785362
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	8270E	785362
500-255852-7	SB4 (0-3)	Total/NA	Solid	8270E	785362
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	8270E	785362
500-255852-9	SB5 (0-3)	Total/NA	Solid	8270E	785362
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	8270E	785362
MB 500-785362/1-A	Method Blank	Total/NA	Solid	8270E	785362
LCS 500-785362/2-A	Lab Control Sample	Total/NA	Solid	8270E	785362

GC Semi VOA

Prep Batch: 784522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	3541	
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	3541	
500-255852-3	SB2 (0-3)	Total/NA	Solid	3541	
500-255852-4	SB2 (3-5)	Total/NA	Solid	3541	
500-255852-5	SB3 (0-3)	Total/NA	Solid	3541	
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	3541	
500-255852-7	SB4 (0-3)	Total/NA	Solid	3541	
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	3541	
500-255852-9	SB5 (0-3)	Total/NA	Solid	3541	
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	3541	
MB 500-784522/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-784522/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-784522/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-255852-1 MS	SB1 (0-3)	Total/NA	Solid	3541	
500-255852-1 MSD	SB1 (0-3)	Total/NA	Solid	3541	
500-255852-3 MS	SB2 (0-3)	Total/NA	Solid	3541	
500-255852-3 MSD	SB2 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 784635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	8081B	784522
MB 500-784522/1-A	Method Blank	Total/NA	Solid	8081B	784522
LCS 500-784522/2-A	Lab Control Sample	Total/NA	Solid	8081B	784522

Analysis Batch: 784862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	8081B	784522
500-255852-1	SB1 (0-3)	Total/NA	Solid	8081B	784522
500-255852-5	SB3 (0-3)	Total/NA	Solid	8081B	784522
MB 500-784522/1-A	Method Blank	Total/NA	Solid	8081B	784522
LCS 500-784522/2-A	Lab Control Sample	Total/NA	Solid	8081B	784522
500-255852-1 MS	SB1 (0-3)	Total/NA	Solid	8081B	784522
500-255852-1 MS	SB1 (0-3)	Total/NA	Solid	8081B	784522
500-255852-1 MSD	SB1 (0-3)	Total/NA	Solid	8081B	784522

GC Semi VOA (Continued)

Analysis Batch: 784862 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1 MSD	SB1 (0-3)	Total/NA	Solid	8081B	784522

Analysis Batch: 785070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-3	SB2 (0-3)	Total/NA	Solid	8081B	784522
500-255852-3	SB2 (0-3)	Total/NA	Solid	8081B	784522
500-255852-4	SB2 (3-5)	Total/NA	Solid	8081B	784522
500-255852-4	SB2 (3-5)	Total/NA	Solid	8081B	784522
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	8081B	784522
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	8081B	784522
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	8081B	784522
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	8081B	784522

Analysis Batch: 785109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-784522/1-A	Method Blank	Total/NA	Solid	8082A	784522
LCS 500-784522/3-A	Lab Control Sample	Total/NA	Solid	8082A	784522

Analysis Batch: 785339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-7	SB4 (0-3)	Total/NA	Solid	8081B	784522
500-255852-9	SB5 (0-3)	Total/NA	Solid	8081B	784522

Analysis Batch: 785901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	8082A	784522
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	8082A	784522
500-255852-3	SB2 (0-3)	Total/NA	Solid	8082A	784522
500-255852-4	SB2 (3-5)	Total/NA	Solid	8082A	784522
500-255852-5	SB3 (0-3)	Total/NA	Solid	8082A	784522
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	8082A	784522
500-255852-7	SB4 (0-3)	Total/NA	Solid	8082A	784522
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	8082A	784522
500-255852-9	SB5 (0-3)	Total/NA	Solid	8082A	784522
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	8082A	784522
500-255852-3 MS	SB2 (0-3)	Total/NA	Solid	8082A	784522
500-255852-3 MSD	SB2 (0-3)	Total/NA	Solid	8082A	784522

Metals

Prep Batch: 785766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	7471B	
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	7471B	
500-255852-3	SB2 (0-3)	Total/NA	Solid	7471B	
500-255852-4	SB2 (3-5)	Total/NA	Solid	7471B	
500-255852-5	SB3 (0-3)	Total/NA	Solid	7471B	
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	7471B	
500-255852-7	SB4 (0-3)	Total/NA	Solid	7471B	
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	7471B	
500-255852-9	SB5 (0-3)	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 785766 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	7471B	
MB 500-785766/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-785766/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 785815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	3050B	
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	3050B	
500-255852-3	SB2 (0-3)	Total/NA	Solid	3050B	
500-255852-4	SB2 (3-5)	Total/NA	Solid	3050B	
500-255852-5	SB3 (0-3)	Total/NA	Solid	3050B	
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	3050B	
500-255852-7	SB4 (0-3)	Total/NA	Solid	3050B	
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	3050B	
500-255852-9	SB5 (0-3)	Total/NA	Solid	3050B	
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	3050B	
MB 500-785815/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-785815/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-255852-1 MS	SB1 (0-3)	Total/NA	Solid	3050B	
500-255852-1 MSD	SB1 (0-3)	Total/NA	Solid	3050B	
500-255852-1 DU	SB1 (0-3)	Total/NA	Solid	3050B	

Analysis Batch: 785945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	7471B	785766
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	7471B	785766
500-255852-3	SB2 (0-3)	Total/NA	Solid	7471B	785766
500-255852-4	SB2 (3-5)	Total/NA	Solid	7471B	785766
500-255852-5	SB3 (0-3)	Total/NA	Solid	7471B	785766
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	7471B	785766
500-255852-7	SB4 (0-3)	Total/NA	Solid	7471B	785766
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	7471B	785766
500-255852-9	SB5 (0-3)	Total/NA	Solid	7471B	785766
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	7471B	785766
MB 500-785766/12-A	Method Blank	Total/NA	Solid	7471B	785766
LCS 500-785766/13-A	Lab Control Sample	Total/NA	Solid	7471B	785766

Analysis Batch: 786024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	6010D	785815
500-255852-7	SB4 (0-3)	Total/NA	Solid	6010D	785815
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	6010D	785815
500-255852-9	SB5 (0-3)	Total/NA	Solid	6010D	785815
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	6010D	785815

Analysis Batch: 786025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	6010D	785815
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	6010D	785815
500-255852-3	SB2 (0-3)	Total/NA	Solid	6010D	785815
500-255852-4	SB2 (3-5)	Total/NA	Solid	6010D	785815

Metals (Continued)

Analysis Batch: 786025 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-5	SB3 (0-3)	Total/NA	Solid	6010D	785815
MB 500-785815/1-A	Method Blank	Total/NA	Solid	6010D	785815
LCS 500-785815/2-A	Lab Control Sample	Total/NA	Solid	6010D	785815
500-255852-1 MS	SB1 (0-3)	Total/NA	Solid	6010D	785815
500-255852-1 MSD	SB1 (0-3)	Total/NA	Solid	6010D	785815
500-255852-1 DU	SB1 (0-3)	Total/NA	Solid	6010D	785815

Analysis Batch: 786184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	6010D	785815
500-255852-3	SB2 (0-3)	Total/NA	Solid	6010D	785815
500-255852-4	SB2 (3-5)	Total/NA	Solid	6010D	785815
500-255852-5	SB3 (0-3)	Total/NA	Solid	6010D	785815
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	6010D	785815
500-255852-7	SB4 (0-3)	Total/NA	Solid	6010D	785815
500-255852-9	SB5 (0-3)	Total/NA	Solid	6010D	785815

Analysis Batch: 786300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-5	SB3 (0-3)	Total/NA	Solid	6010D	785815
500-255852-7	SB4 (0-3)	Total/NA	Solid	6010D	785815

General Chemistry

Prep Batch: 784031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	9010C	
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	9010C	
500-255852-3	SB2 (0-3)	Total/NA	Solid	9010C	
500-255852-4	SB2 (3-5)	Total/NA	Solid	9010C	
500-255852-5	SB3 (0-3)	Total/NA	Solid	9010C	
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	9010C	
500-255852-7	SB4 (0-3)	Total/NA	Solid	9010C	
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	9010C	
500-255852-9	SB5 (0-3)	Total/NA	Solid	9010C	
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	9010C	
MB 500-784031/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-784031/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-255852-1 MS	SB1 (0-3)	Total/NA	Solid	9010C	
500-255852-1 MSD	SB1 (0-3)	Total/NA	Solid	9010C	

Analysis Batch: 784273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	9012B	784031
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	9012B	784031
500-255852-3	SB2 (0-3)	Total/NA	Solid	9012B	784031
500-255852-4	SB2 (3-5)	Total/NA	Solid	9012B	784031
500-255852-5	SB3 (0-3)	Total/NA	Solid	9012B	784031
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	9012B	784031
500-255852-7	SB4 (0-3)	Total/NA	Solid	9012B	784031
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	9012B	784031

General Chemistry (Continued)

Analysis Batch: 784273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-9	SB5 (0-3)	Total/NA	Solid	9012B	784031
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	9012B	784031
MB 500-784031/1-A	Method Blank	Total/NA	Solid	9012B	784031
LCS 500-784031/2-A	Lab Control Sample	Total/NA	Solid	9012B	784031
500-255852-1 MS	SB1 (0-3)	Total/NA	Solid	9012B	784031
500-255852-1 MSD	SB1 (0-3)	Total/NA	Solid	9012B	784031

Analysis Batch: 784671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	9045D	
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	9045D	
500-255852-3	SB2 (0-3)	Total/NA	Solid	9045D	
500-255852-4	SB2 (3-5)	Total/NA	Solid	9045D	
500-255852-5	SB3 (0-3)	Total/NA	Solid	9045D	
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	9045D	
500-255852-7	SB4 (0-3)	Total/NA	Solid	9045D	
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	9045D	
500-255852-9	SB5 (0-3)	Total/NA	Solid	9045D	
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-784671/109	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-784671/110	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-255852-9 DU	SB5 (0-3)	Total/NA	Solid	9045D	

Analysis Batch: 785144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-3	SB2 (0-3)	Total/NA	Solid	Moisture	
500-255852-4	SB2 (3-5)	Total/NA	Solid	Moisture	
500-255852-5	SB3 (0-3)	Total/NA	Solid	Moisture	
500-255852-6	SB3 (5-7.5)	Total/NA	Solid	Moisture	
500-255852-7	SB4 (0-3)	Total/NA	Solid	Moisture	
500-255852-8	SB4 (7.5-10)	Total/NA	Solid	Moisture	
500-255852-9	SB5 (0-3)	Total/NA	Solid	Moisture	
500-255852-10	SB5 (5-7.5)	Total/NA	Solid	Moisture	
500-255852-7 DU	SB4 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 785753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	Total/NA	Solid	Moisture	
500-255852-2	SB1 (5-7.5)	Total/NA	Solid	Moisture	
500-255852-2 DU	SB1 (5-7.5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-255852-1	SB1 (0-3)	120	102	111	102
500-255852-2	SB1 (5-7.5)	120	100	105	101
500-255852-3	SB2 (0-3)	115	107	106	105
500-255852-5	SB3 (0-3)	123	100	111	99
500-255852-6	SB3 (5-7.5)	114	103	100	105
500-255852-7	SB4 (0-3)	124	122 *3	112	106
500-255852-8	SB4 (7.5-10)	115	101	103	103
500-255852-9	SB5 (0-3)	113	105	102	99
500-255852-10	SB5 (5-7.5)	116	102	106	102
LCS 500-784821/4	Lab Control Sample	115	93	108	100
LCSD 500-784821/5	Lab Control Sample Dup	108	96	102	103
MB 500-784821/7	Method Blank	113	98	107	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-255852-4	SB2 (3-5)	91	93	83	92
LCS 500-785227/4	Lab Control Sample	88	95	84	96
MB 500-785227/7	Method Blank	91	95	84	90

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-255852-1	SB1 (0-3)	64	70	70	76	74	81
500-255852-2	SB1 (5-7.5)	76	77	82	84	81	90
500-255852-3	SB2 (0-3)	51	57	68	70	54	66
500-255852-4	SB2 (3-5)	46	54	61	67	48	67
500-255852-5	SB3 (0-3)	58	63	66	72	62	77
500-255852-6	SB3 (5-7.5)	59	68	64	81	74	80
500-255852-7	SB4 (0-3)	46	56	67	72	50	71
500-255852-8	SB4 (7.5-10)	82	83	87	86	84	91
500-255852-9	SB5 (0-3)	69	70	74	76	71	67
500-255852-10	SB5 (5-7.5)	81	87	85	91	91	98

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
LCS 500-785362/2-A	Lab Control Sample	84	87	90	92	88	90
MB 500-785362/1-A	Method Blank	83	87	89	89	90	96

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (33-148)	TCX1 (30-121)
500-255852-1	SB1 (0-3)	67	93
500-255852-1 MS	SB1 (0-3)	59	59
500-255852-1 MS	SB1 (0-3)	76	78
500-255852-1 MSD	SB1 (0-3)	62	59
500-255852-1 MSD	SB1 (0-3)	145	126 S1+
500-255852-2	SB1 (5-7.5)	74	64
500-255852-3	SB2 (0-3)	452 S1+	58
500-255852-4	SB2 (3-5)	74	61
500-255852-5	SB3 (0-3)	188 S1+	119
500-255852-6	SB3 (5-7.5)	208 S1+	59
500-255852-7	SB4 (0-3)	55	58
500-255852-8	SB4 (7.5-10)	76	58
500-255852-9	SB5 (0-3)	79	52
500-255852-10	SB5 (5-7.5)	71	60
LCS 500-784522/2-A	Lab Control Sample	84	73
LCS 500-784522/2-A	Lab Control Sample	77	66
MB 500-784522/1-A	Method Blank	89	68
MB 500-784522/1-A	Method Blank	81	65

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-255852-1	SB1 (0-3)	60	60
500-255852-2	SB1 (5-7.5)	59	74
500-255852-3	SB2 (0-3)	59	52
500-255852-3 MS	SB2 (0-3)	57	54
500-255852-3 MSD	SB2 (0-3)	65	56
500-255852-4	SB2 (3-5)	60	57

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-255852-5	SB3 (0-3)	60	49
500-255852-6	SB3 (5-7.5)	59	53
500-255852-7	SB4 (0-3)	58	55
500-255852-8	SB4 (7.5-10)	59	58
500-255852-9	SB5 (0-3)	60	45
500-255852-10	SB5 (5-7.5)	58	52

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
LCS 500-784522/3-A	Lab Control Sample	59	67
MB 500-784522/1-A	Method Blank	58	69

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-255852-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-784821/7
Matrix: Solid
Analysis Batch: 784821

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/06/24 11:11	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/06/24 11:11	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/06/24 11:11	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/06/24 11:11	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/06/24 11:11	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/06/24 11:11	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/06/24 11:11	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/06/24 11:11	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/06/24 11:11	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/06/24 11:11	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/06/24 11:11	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/06/24 11:11	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/06/24 11:11	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/06/24 11:11	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/06/24 11:11	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/06/24 11:11	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/06/24 11:11	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/06/24 11:11	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/06/24 11:11	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/06/24 11:11	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/06/24 11:11	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/06/24 11:11	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/06/24 11:11	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/06/24 11:11	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/06/24 11:11	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/06/24 11:11	1
Methylene Chloride	0.00253	J	0.0050	0.0021	mg/Kg			09/06/24 11:11	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/06/24 11:11	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/06/24 11:11	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/06/24 11:11	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/06/24 11:11	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/06/24 11:11	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/06/24 11:11	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/06/24 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 134*		*09/06/24 11:11*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*		*09/06/24 11:11*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*09/06/24 11:11*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*		*09/06/24 11:11*	*1*

Lab Sample ID: LCS 500-784821/4
Matrix: Solid
Analysis Batch: 784821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0542		mg/Kg		108	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0417		mg/Kg		83	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-784821/4
Matrix: Solid
Analysis Batch: 784821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0443		mg/Kg		89	70 - 125
1,1-Dichloroethane	0.0500	0.0466		mg/Kg		93	70 - 125
1,1-Dichloroethene	0.0500	0.0475		mg/Kg		95	70 - 120
1,2-Dichloroethane	0.0500	0.0504		mg/Kg		101	70 - 130
1,2-Dichloropropane	0.0500	0.0441		mg/Kg		88	70 - 125
2-Butanone (MEK)	0.0500	0.0490		mg/Kg		98	47 - 138
2-Hexanone	0.0500	0.0536		mg/Kg		107	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0504		mg/Kg		101	50 - 148
Acetone	0.0500	0.0507		mg/Kg		101	40 - 150
Benzene	0.0500	0.0462		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0512		mg/Kg		102	67 - 129
Bromoform	0.0500	0.0546		mg/Kg		109	68 - 136
Bromomethane	0.0500	0.0545		mg/Kg		109	70 - 130
Carbon disulfide	0.0500	0.0481		mg/Kg		96	70 - 129
Carbon tetrachloride	0.0500	0.0555		mg/Kg		111	75 - 125
Chlorobenzene	0.0500	0.0449		mg/Kg		90	50 - 150
Chloroethane	0.0500	0.0506		mg/Kg		101	75 - 125
Chloroform	0.0500	0.0486		mg/Kg		97	57 - 135
Chloromethane	0.0500	0.0489		mg/Kg		98	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0476		mg/Kg		95	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0474		mg/Kg		95	70 - 125
Dibromochloromethane	0.0500	0.0509		mg/Kg		102	69 - 125
Ethylbenzene	0.0500	0.0460		mg/Kg		92	61 - 136
Methyl tert-butyl ether	0.0500	0.0518		mg/Kg		104	50 - 140
Methylene Chloride	0.0500	0.0426		mg/Kg		85	70 - 126
Styrene	0.0500	0.0481		mg/Kg		96	70 - 125
Tetrachloroethene	0.0500	0.0489		mg/Kg		98	70 - 124
Toluene	0.0500	0.0450		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0961		mg/Kg		96	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0481		mg/Kg		96	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0504		mg/Kg		101	70 - 125
Trichloroethene	0.0500	0.0466		mg/Kg		93	70 - 125
Vinyl chloride	0.0500	0.0532		mg/Kg		106	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 134*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*
Dibromofluoromethane	*108*		*75 - 126*
Toluene-d8 (Surr)	*100*		*75 - 124*

Lab Sample ID: LCSD 500-784821/5
Matrix: Solid
Analysis Batch: 784821

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0515		mg/Kg		103	70 - 128	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0401		mg/Kg		80	70 - 122	4	30
1,1,2-Trichloroethane	0.0500	0.0445		mg/Kg		89	70 - 125	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-784821/5
Matrix: Solid
Analysis Batch: 784821

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0449		mg/Kg		90	70 - 125	4	30
1,1-Dichloroethene			0.0500	0.0444		mg/Kg		89	70 - 120	7	30
1,2-Dichloroethane			0.0500	0.0474		mg/Kg		95	70 - 130	6	30
1,2-Dichloropropane			0.0500	0.0432		mg/Kg		86	70 - 125	2	30
2-Butanone (MEK)			0.0500	0.0484		mg/Kg		97	47 - 138	1	30
2-Hexanone			0.0500	0.0512		mg/Kg		102	48 - 146	4	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0481		mg/Kg		96	50 - 148	5	30
Acetone			0.0500	0.0483		mg/Kg		97	40 - 150	5	30
Benzene			0.0500	0.0449		mg/Kg		90	70 - 125	3	30
Bromodichloromethane			0.0500	0.0498		mg/Kg		100	67 - 129	3	30
Bromoform			0.0500	0.0507		mg/Kg		101	68 - 136	7	30
Bromomethane			0.0500	0.0512		mg/Kg		102	70 - 130	6	30
Carbon disulfide			0.0500	0.0470		mg/Kg		94	70 - 129	2	30
Carbon tetrachloride			0.0500	0.0521		mg/Kg		104	75 - 125	6	30
Chlorobenzene			0.0500	0.0466		mg/Kg		93	50 - 150	4	30
Chloroethane			0.0500	0.0476		mg/Kg		95	75 - 125	6	30
Chloroform			0.0500	0.0453		mg/Kg		91	57 - 135	7	30
Chloromethane			0.0500	0.0452		mg/Kg		90	70 - 125	8	30
cis-1,2-Dichloroethene			0.0500	0.0430		mg/Kg		86	70 - 125	10	30
cis-1,3-Dichloropropene			0.0500	0.0478		mg/Kg		96	70 - 125	1	30
Dibromochloromethane			0.0500	0.0507		mg/Kg		101	69 - 125	0	30
Ethylbenzene			0.0500	0.0466		mg/Kg		93	61 - 136	1	30
Methyl tert-butyl ether			0.0500	0.0467		mg/Kg		93	50 - 140	10	30
Methylene Chloride			0.0500	0.0416		mg/Kg		83	70 - 126	2	30
Styrene			0.0500	0.0494		mg/Kg		99	70 - 125	3	30
Tetrachloroethene			0.0500	0.0487		mg/Kg		97	70 - 124	0	30
Toluene			0.0500	0.0441		mg/Kg		88	70 - 125	2	30
Xylenes, Total			0.100	0.0967		mg/Kg		97	53 - 147	1	30
trans-1,2-Dichloroethene			0.0500	0.0441		mg/Kg		88	70 - 125	9	30
trans-1,3-Dichloropropene			0.0500	0.0498		mg/Kg		100	70 - 125	1	30
Trichloroethene			0.0500	0.0453		mg/Kg		91	70 - 125	3	30
Vinyl chloride			0.0500	0.0505		mg/Kg		101	70 - 125	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*
4-Bromofluorobenzene (Surr)	*96*		*75 - 131*
Dibromofluoromethane	*102*		*75 - 126*
Toluene-d8 (Surr)	*103*		*75 - 124*

Lab Sample ID: MB 500-785227/7
Matrix: Solid
Analysis Batch: 785227

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			09/10/24 10:50	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			09/10/24 10:50	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			09/10/24 10:50	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			09/10/24 10:50	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-785227/7
Matrix: Solid
Analysis Batch: 785227

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			09/10/24 10:50	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			09/10/24 10:50	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			09/10/24 10:50	1
2-Butanone (MEK)	<0.0031		0.0050	0.0031	mg/Kg			09/10/24 10:50	1
2-Hexanone	<0.0029		0.0050	0.0029	mg/Kg			09/10/24 10:50	1
4-Methyl-2-pentanone (MIBK)	<0.0027		0.0050	0.0027	mg/Kg			09/10/24 10:50	1
Acetone	<0.0072		0.010	0.0072	mg/Kg			09/10/24 10:50	1
Benzene	<0.00012		0.00025	0.00012	mg/Kg			09/10/24 10:50	1
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			09/10/24 10:50	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			09/10/24 10:50	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			09/10/24 10:50	1
Carbon disulfide	<0.0011		0.0020	0.0011	mg/Kg			09/10/24 10:50	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			09/10/24 10:50	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			09/10/24 10:50	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			09/10/24 10:50	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			09/10/24 10:50	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			09/10/24 10:50	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			09/10/24 10:50	1
1,3-Dichloropropene, Total	<0.00063		0.0010	0.00063	mg/Kg			09/10/24 10:50	1
Dibromochloromethane	<0.00083		0.0010	0.00083	mg/Kg			09/10/24 10:50	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			09/10/24 10:50	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			09/10/24 10:50	1
Methylene Chloride	0.00366	J	0.0050	0.0021	mg/Kg			09/10/24 10:50	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			09/10/24 10:50	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			09/10/24 10:50	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			09/10/24 10:50	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			09/10/24 10:50	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			09/10/24 10:50	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			09/10/24 10:50	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			09/10/24 10:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*09/10/24 10:50*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*09/10/24 10:50*	*1*
Dibromofluoromethane	*84*		*75 - 120*		*09/10/24 10:50*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*09/10/24 10:50*	*1*

Lab Sample ID: LCS 500-785227/4
Matrix: Solid
Analysis Batch: 785227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0527		mg/Kg		105	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0456		mg/Kg		91	62 - 140
1,1,2-Trichloroethane	0.0500	0.0447		mg/Kg		89	71 - 130
1,1-Dichloroethane	0.0500	0.0501		mg/Kg		100	70 - 125
1,1-Dichloroethene	0.0500	0.0527		mg/Kg		105	67 - 122
1,2-Dichloroethane	0.0500	0.0484		mg/Kg		97	68 - 127

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785227/4
Matrix: Solid
Analysis Batch: 785227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0460		mg/Kg		92	67 - 130
2-Butanone (MEK)	0.0500	0.0403		mg/Kg		81	46 - 144
2-Hexanone	0.0500	0.0417		mg/Kg		83	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0423		mg/Kg		85	55 - 139
Acetone	0.0500	0.0447		mg/Kg		89	40 - 143
Benzene	0.0500	0.0451		mg/Kg		90	70 - 120
Bromodichloromethane	0.0500	0.0444		mg/Kg		89	69 - 120
Bromoform	0.0500	0.0404		mg/Kg		81	56 - 132
Bromomethane	0.0500	0.0587		mg/Kg		117	40 - 152
Carbon disulfide	0.0500	0.0513		mg/Kg		103	66 - 120
Carbon tetrachloride	0.0500	0.0541		mg/Kg		108	59 - 133
Chlorobenzene	0.0500	0.0478		mg/Kg		96	70 - 120
Chloroethane	0.0500	0.0597		mg/Kg		119	48 - 136
Chloroform	0.0500	0.0466		mg/Kg		93	70 - 120
Chloromethane	0.0500	0.0593		mg/Kg		119	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0473		mg/Kg		95	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0503		mg/Kg		101	64 - 127
Dibromochloromethane	0.0500	0.0458		mg/Kg		92	68 - 125
Ethylbenzene	0.0500	0.0480		mg/Kg		96	70 - 123
Methyl tert-butyl ether	0.0500	0.0431		mg/Kg		86	55 - 123
Methylene Chloride	0.0500	0.0482		mg/Kg		96	69 - 125
Styrene	0.0500	0.0490		mg/Kg		98	70 - 120
Tetrachloroethene	0.0500	0.0533		mg/Kg		107	70 - 128
Toluene	0.0500	0.0471		mg/Kg		94	70 - 125
Xylenes, Total	0.100	0.0965		mg/Kg		96	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0494		mg/Kg		99	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0462		mg/Kg		92	62 - 128
Trichloroethene	0.0500	0.0445		mg/Kg		89	70 - 125
Vinyl chloride	0.0500	0.0555		mg/Kg		111	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*
Dibromofluoromethane	*84*		*75 - 120*
Toluene-d8 (Surr)	*96*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-785362/1-A
Matrix: Solid
Analysis Batch: 785449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/10/24 14:54	09/11/24 12:38	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-255852-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-785362/1-A
Matrix: Solid
Analysis Batch: 785449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/10/24 14:54	09/11/24 12:38	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-785362/1-A
Matrix: Solid
Analysis Batch: 785449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/10/24 14:54	09/11/24 12:38	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/10/24 14:54	09/11/24 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*83*		*31 - 166*	*09/10/24 14:54*	*09/11/24 12:38*	*1*
Phenol-d5 (Surr)	*87*		*30 - 153*	*09/10/24 14:54*	*09/11/24 12:38*	*1*
Nitrobenzene-d5 (Surr)	*89*		*37 - 147*	*09/10/24 14:54*	*09/11/24 12:38*	*1*
2-Fluorobiphenyl (Surr)	*89*		*43 - 145*	*09/10/24 14:54*	*09/11/24 12:38*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*31 - 143*	*09/10/24 14:54*	*09/11/24 12:38*	*1*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*09/10/24 14:54*	*09/11/24 12:38*	*1*

Lab Sample ID: LCS 500-785362/2-A
Matrix: Solid
Analysis Batch: 785449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	3.13		mg/Kg		94	63 - 109
Acenaphthylene	3.33	3.20		mg/Kg		96	61 - 115
Anthracene	3.33	3.11		mg/Kg		93	68 - 120
Benzo[a]anthracene	3.33	3.09		mg/Kg		93	70 - 121
Benzo[a]pyrene	3.33	3.30		mg/Kg		99	73 - 132
Benzo[b]fluoranthene	3.33	3.45		mg/Kg		104	68 - 123
Benzo[g,h,i]perylene	3.33	3.58		mg/Kg		108	65 - 126
Benzo[k]fluoranthene	3.33	3.23		mg/Kg		97	64 - 128
Chrysene	3.33	2.99		mg/Kg		90	70 - 123
Dibenz(a,h)anthracene	3.33	3.54		mg/Kg		106	66 - 125
Fluoranthene	3.33	3.09		mg/Kg		93	66 - 123
Fluorene	3.33	3.06		mg/Kg		92	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.52		mg/Kg		106	66 - 131
Naphthalene	3.33	3.01		mg/Kg		90	54 - 98
Phenanthrene	3.33	3.14		mg/Kg		94	65 - 115
Pyrene	3.33	3.09		mg/Kg		93	71 - 128
1,2,4-Trichlorobenzene	3.33	2.89		mg/Kg		87	49 - 100
1,2-Dichlorobenzene	3.33	2.92		mg/Kg		88	47 - 94
1,3-Dichlorobenzene	3.33	2.89		mg/Kg		87	47 - 92
1,4-Dichlorobenzene	3.33	2.90		mg/Kg		87	46 - 92
2,4,5-Trichlorophenol	3.33	2.89		mg/Kg		87	48 - 121
2,4,6-Trichlorophenol	3.33	2.89		mg/Kg		87	50 - 121
2,4-Dichlorophenol	3.33	2.95		mg/Kg		88	51 - 109
2,4-Dimethylphenol	3.33	3.13	*+	mg/Kg		94	48 - 93
2,4-Dinitrophenol	6.67	4.46		mg/Kg		67	10 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-785362/2-A
Matrix: Solid
Analysis Batch: 785449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	3.33	3.08		mg/Kg		92	65 - 120
2,6-Dinitrotoluene	3.33	3.05		mg/Kg		92	66 - 117
2-Chloronaphthalene	3.33	3.07		mg/Kg		92	60 - 107
2-Chlorophenol	3.33	3.04		mg/Kg		91	50 - 102
2-Methylnaphthalene	3.33	2.70		mg/Kg		81	58 - 103
2-Methylphenol	3.33	2.97		mg/Kg		89	50 - 104
2-Nitroaniline	3.33	3.19		mg/Kg		96	61 - 126
2-Nitrophenol	3.33	2.83		mg/Kg		85	41 - 114
3,3'-Dichlorobenzidine	3.33	2.57		mg/Kg		77	36 - 131
3 & 4 Methylphenol	3.33	2.95		mg/Kg		89	49 - 109
3-Nitroaniline	3.33	2.70		mg/Kg		81	44 - 124
4,6-Dinitro-2-methylphenol	6.67	5.46		mg/Kg		82	36 - 138
4-Bromophenyl phenyl ether	3.33	3.22		mg/Kg		97	57 - 124
4-Chloro-3-methylphenol	3.33	2.97		mg/Kg		89	57 - 113
4-Chloroaniline	3.33	2.60		mg/Kg		78	22 - 110
4-Chlorophenyl phenyl ether	3.33	3.07		mg/Kg		92	60 - 112
4-Nitroaniline	3.33	2.83		mg/Kg		85	60 - 115
4-Nitrophenol	6.67	5.87		mg/Kg		88	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.95		mg/Kg		89	54 - 102
Bis(2-chloroethyl)ether	3.33	2.75		mg/Kg		82	49 - 99
bis(chloroisopropyl) ether	3.33	3.08		mg/Kg		92	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.21		mg/Kg		96	70 - 139
Butyl benzyl phthalate	3.33	3.25		mg/Kg		98	65 - 140
Carbazole	3.33	3.00		mg/Kg		90	68 - 120
Dibenzofuran	3.33	2.99		mg/Kg		90	64 - 112
Diethyl phthalate	3.33	3.16		mg/Kg		95	66 - 115
Dimethyl phthalate	3.33	3.08		mg/Kg		93	65 - 114
Di-n-butyl phthalate	3.33	3.24		mg/Kg		97	69 - 125
Di-n-octyl phthalate	3.33	3.10		mg/Kg		93	61 - 131
Hexachlorobenzene	3.33	3.24		mg/Kg		97	52 - 126
Hexachlorobutadiene	3.33	3.08		mg/Kg		92	42 - 103
Hexachlorocyclopentadiene	3.33	2.82		mg/Kg		85	10 - 100
Hexachloroethane	3.33	3.06		mg/Kg		92	45 - 95
Isophorone	3.33	2.96		mg/Kg		89	47 - 108
Nitrobenzene	3.33	3.00		mg/Kg		90	52 - 105
N-Nitrosodi-n-propylamine	3.33	3.13		mg/Kg		94	48 - 110
N-Nitrosodiphenylamine	3.33	3.06		mg/Kg		92	67 - 112
Pentachlorophenol	6.67	5.12		mg/Kg		77	32 - 128
Phenol	3.33	3.12		mg/Kg		94	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*84*		*31 - 166*
Phenol-d5 (Surr)	*87*		*30 - 153*
Nitrobenzene-d5 (Surr)	*90*		*37 - 147*
2-Fluorobiphenyl (Surr)	*92*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*88*		*31 - 143*
Terphenyl-d14 (Surr)	*90*		*42 - 157*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-784522/1-A
Matrix: Solid
Analysis Batch: 784635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/04/24 15:38	09/05/24 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*33 - 148*	*09/04/24 15:38*	*09/05/24 11:03*	*1*
Tetrachloro-m-xylene	*68*		*30 - 121*	*09/04/24 15:38*	*09/05/24 11:03*	*1*

Lab Sample ID: MB 500-784522/1-A
Matrix: Solid
Analysis Batch: 784862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/04/24 15:38	09/06/24 12:23	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-784522/1-A
Matrix: Solid
Analysis Batch: 784862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/04/24 15:38	09/06/24 12:23	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/04/24 15:38	09/06/24 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*33 - 148*	*09/04/24 15:38*	*09/06/24 12:23*	*1*
Tetrachloro-m-xylene	*65*		*30 - 121*	*09/04/24 15:38*	*09/06/24 12:23*	*1*

Lab Sample ID: LCS 500-784522/2-A
Matrix: Solid
Analysis Batch: 784635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0106		mg/Kg		79	47 - 137
4,4'-DDE	0.0133	0.0115		mg/Kg		86	50 - 130
4,4'-DDT	0.0133	0.0105		mg/Kg		79	46 - 143
Aldrin	0.0133	0.0105		mg/Kg		78	52 - 122
alpha-BHC	0.0133	0.0109		mg/Kg		82	50 - 123
alpha-Chlordane	0.0133	0.0106		mg/Kg		80	52 - 129
beta-BHC	0.0133	0.0105		mg/Kg		79	44 - 140
delta-BHC	0.0133	0.0110		mg/Kg		82	57 - 125
Dieldrin	0.0133	0.0110		mg/Kg		82	51 - 133
Endosulfan I	0.0133	0.00905		mg/Kg		68	30 - 120
Endosulfan II	0.0133	0.00910		mg/Kg		68	30 - 120
Endosulfan sulfate	0.0133	0.0112		mg/Kg		84	42 - 150
Endrin	0.0133	0.0106		mg/Kg		79	43 - 144
Endrin aldehyde	0.0133	0.00967		mg/Kg		73	39 - 131
Endrin ketone	0.0133	0.0105		mg/Kg		79	51 - 135
gamma-BHC (Lindane)	0.0133	0.0112		mg/Kg		84	50 - 122
gamma-Chlordane	0.0133	0.0107		mg/Kg		80	52 - 132
Heptachlor	0.0133	0.0106		mg/Kg		80	53 - 129
Heptachlor epoxide	0.0133	0.0108		mg/Kg		81	50 - 139
Methoxychlor	0.0133	0.00996		mg/Kg		75	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*84*		*33 - 148*
Tetrachloro-m-xylene	*73*		*30 - 121*

Lab Sample ID: LCS 500-784522/2-A
Matrix: Solid
Analysis Batch: 784862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.00941		mg/Kg		71	47 - 137
4,4'-DDE	0.0133	0.0115		mg/Kg		87	50 - 130
4,4'-DDT	0.0133	0.00877		mg/Kg		66	46 - 143
Aldrin	0.0133	0.00972		mg/Kg		73	52 - 122

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-784522/2-A
Matrix: Solid
Analysis Batch: 784862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	0.0133	0.00994		mg/Kg		75	50 - 123
alpha-Chlordane	0.0133	0.0103		mg/Kg		77	52 - 129
beta-BHC	0.0133	0.00936		mg/Kg		70	44 - 140
Dieldrin	0.0133	0.0107		mg/Kg		80	51 - 133
Endosulfan I	0.0133	0.00978		mg/Kg		73	30 - 120
Endosulfan II	0.0133	0.00897		mg/Kg		67	30 - 120
Endosulfan sulfate	0.0133	0.00563		mg/Kg		42	42 - 150
Endrin	0.0133	0.00989		mg/Kg		74	43 - 144
Endrin ketone	0.0133	0.00903		mg/Kg		68	51 - 135
gamma-BHC (Lindane)	0.0133	0.0101		mg/Kg		75	50 - 122
gamma-Chlordane	0.0133	0.0104		mg/Kg		78	52 - 132
Heptachlor	0.0133	0.00976		mg/Kg		73	53 - 129
Heptachlor epoxide	0.0133	0.0106		mg/Kg		80	50 - 139
Methoxychlor	0.0133	0.00859		mg/Kg		64	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*77*		*33 - 148*
Tetrachloro-m-xylene	*66*		*30 - 121*

Lab Sample ID: 500-255852-1 MS
Matrix: Solid
Analysis Batch: 784862

Client Sample ID: SB1 (0-3)
Prep Type: Total/NA
Prep Batch: 784522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.00090		0.0134	0.0113		mg/Kg	☼	84	47 - 137
4,4'-DDE	<0.00086		0.0134	0.0108		mg/Kg	☼	80	50 - 130
4,4'-DDT	<0.00079	F1	0.0134	0.00298	F1	mg/Kg	☼	22	46 - 143
Aldrin	<0.0012		0.0134	0.00903		mg/Kg	☼	67	52 - 122
alpha-BHC	<0.00094		0.0134	0.00947		mg/Kg	☼	70	50 - 123
alpha-Chlordane	<0.00089		0.0134	0.0102		mg/Kg	☼	76	52 - 129
beta-BHC	<0.0013		0.0134	0.00676		mg/Kg	☼	50	44 - 140
Dieldrin	<0.00087		0.0134	0.0106		mg/Kg	☼	79	51 - 133
Endosulfan I	<0.00090		0.0134	0.00812		mg/Kg	☼	60	30 - 120
Endosulfan II	<0.00092		0.0134	0.00836		mg/Kg	☼	62	30 - 120
Endosulfan sulfate	<0.00093	F1	0.0134	0.00370	F1	mg/Kg	☼	27	42 - 150
Endrin	<0.00085		0.0134	0.00710		mg/Kg	☼	53	43 - 144
Endrin ketone	<0.00081		0.0134	0.0106		mg/Kg	☼	79	51 - 135
gamma-BHC (Lindane)	<0.00083		0.0134	0.00791		mg/Kg	☼	59	50 - 122
gamma-Chlordane	<0.00096		0.0134	0.0102		mg/Kg	☼	76	52 - 132
Heptachlor	<0.00091	F1	0.0134	0.00584	F1	mg/Kg	☼	43	53 - 129
Heptachlor epoxide	<0.00090		0.0134	0.0106		mg/Kg	☼	79	50 - 139
Methoxychlor	<0.0011	F1	0.0134	0.00272	J F1	mg/Kg	☼	20	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*59*		*33 - 148*
Tetrachloro-m-xylene	*59*		*30 - 121*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-255852-1 MS
Matrix: Solid
Analysis Batch: 784862

Client Sample ID: SB1 (0-3)
Prep Type: Total/NA
Prep Batch: 784522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
delta-BHC	<0.0040	F1	0.0134	0.0895	F1	mg/Kg	☼	666	57 - 125
Endrin aldehyde	<0.0048	F2	0.0134	0.0145		mg/Kg	☼	108	39 - 131
Heptachlor	<0.0045	F1 F2	0.0134	0.165	F1	mg/Kg	☼	1226	53 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*33 - 148*
Tetrachloro-m-xylene	*78*		*30 - 121*

Lab Sample ID: 500-255852-1 MSD
Matrix: Solid
Analysis Batch: 784862

Client Sample ID: SB1 (0-3)
Prep Type: Total/NA
Prep Batch: 784522

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.00090		0.0135	0.00981		mg/Kg	☼	73	47 - 137	15	30
4,4'-DDE	<0.00086		0.0135	0.0103		mg/Kg	☼	76	50 - 130	5	30
4,4'-DDT	<0.00079	F1	0.0135	0.00276	F1	mg/Kg	☼	20	46 - 143	8	30
Aldrin	<0.0012		0.0135	0.00882		mg/Kg	☼	66	52 - 122	2	30
alpha-BHC	<0.00094		0.0135	0.00896		mg/Kg	☼	67	50 - 123	6	30
alpha-Chlordane	<0.00089		0.0135	0.00943		mg/Kg	☼	70	52 - 129	7	30
beta-BHC	<0.0013		0.0135	0.00670		mg/Kg	☼	50	44 - 140	1	30
Dieldrin	<0.00087		0.0135	0.0101		mg/Kg	☼	75	51 - 133	5	30
Endosulfan I	<0.00090		0.0135	0.00758		mg/Kg	☼	56	30 - 120	7	30
Endosulfan II	<0.00092		0.0135	0.00777		mg/Kg	☼	58	30 - 120	7	30
Endosulfan sulfate	<0.00093	F1	0.0135	0.00289	F1	mg/Kg	☼	21	42 - 150	25	30
Endrin	<0.00085		0.0135	0.00680		mg/Kg	☼	51	43 - 144	4	30
Endrin ketone	<0.00081		0.0135	0.0110		mg/Kg	☼	82	51 - 135	4	30
gamma-BHC (Lindane)	<0.00083		0.0135	0.00732		mg/Kg	☼	54	50 - 122	8	30
gamma-Chlordane	<0.00096		0.0135	0.00968		mg/Kg	☼	72	52 - 132	6	30
Heptachlor	<0.00091	F1	0.0135	0.00578	F1	mg/Kg	☼	43	53 - 129	1	30
Heptachlor epoxide	<0.00090		0.0135	0.0100		mg/Kg	☼	75	50 - 139	6	30
Methoxychlor	<0.0011	F1	0.0135	0.00235	J F1	mg/Kg	☼	17	45 - 144	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*62*		*33 - 148*
Tetrachloro-m-xylene	*59*		*30 - 121*

Lab Sample ID: 500-255852-1 MSD
Matrix: Solid
Analysis Batch: 784862

Client Sample ID: SB1 (0-3)
Prep Type: Total/NA
Prep Batch: 784522

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
delta-BHC	<0.0040	F1	0.0135	0.118	F1	mg/Kg	☼	876	57 - 125	27	30
Endrin aldehyde	<0.0048	F2	0.0135	0.00984	F2	mg/Kg	☼	73	39 - 131	39	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*145*		*33 - 148*
Tetrachloro-m-xylene	*126*	*S1+*	*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-784522/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 785109
Prep Batch: 784522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
PCB-1221	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
PCB-1232	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
PCB-1242	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
PCB-1248	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
PCB-1254	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
PCB-1260	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*49 - 129*	*09/04/24 15:38*	*09/09/24 13:59*	*1*
DCB Decachlorobiphenyl	*69*		*37 - 121*	*09/04/24 15:38*	*09/09/24 13:59*	*1*

Lab Sample ID: LCS 500-784522/3-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 785109
Prep Batch: 784522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.115		mg/Kg		69	57 - 120
PCB-1260	0.167	0.122		mg/Kg		73	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*59*		*49 - 129*
DCB Decachlorobiphenyl	*67*		*37 - 121*

Lab Sample ID: 500-255852-3 MS
Client Sample ID: SB2 (0-3)
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 785901
Prep Batch: 784522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.018	F1	0.180	0.0950	F1	mg/Kg	☼	53	57 - 120
PCB-1260	<0.018	F1	0.180	0.105	F1	mg/Kg	☼	58	61 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*57*		*49 - 129*
DCB Decachlorobiphenyl	*54*		*37 - 121*

Lab Sample ID: 500-255852-3 MSD
Client Sample ID: SB2 (0-3)
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 785901
Prep Batch: 784522

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.018	F1	0.178	0.119		mg/Kg	☼	67	57 - 120	22	30
PCB-1260	<0.018	F1	0.178	0.123		mg/Kg	☼	69	61 - 125	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*65*		*49 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-255852-3 MSD
Matrix: Solid
Analysis Batch: 785901

Client Sample ID: SB2 (0-3)
Prep Type: Total/NA
Prep Batch: 784522

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	56		37 - 121

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-785815/1-A
Matrix: Solid
Analysis Batch: 786025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785815

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Antimony	<2.0		2.0		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Arsenic	<1.0		1.0		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Barium	<1.0		1.0		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Beryllium	<0.40		0.40		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Cadmium	<0.20		0.20		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Calcium	36.8		20		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Chromium	<1.0		1.0		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Cobalt	<0.50		0.50		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Copper	<1.0		1.0		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Iron	<20		20		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Lead	<0.50		0.50		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Magnesium	<10		10		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Manganese	1.16		1.0		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Nickel	<1.0		1.0		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Potassium	<50		50		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Selenium	<1.0		1.0		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Silver	<0.50		0.50		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Sodium	<100		100		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Thallium	<1.0		1.0		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Vanadium	<0.50		0.50		mg/Kg		09/12/24 15:58	09/13/24 12:51	1
Zinc	<2.0		2.0		mg/Kg		09/12/24 15:58	09/13/24 12:51	1

Lab Sample ID: LCS 500-785815/2-A
Matrix: Solid
Analysis Batch: 786025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785815

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	195		mg/Kg		98	80 - 120
Antimony	50.0	47.5		mg/Kg		95	80 - 120
Arsenic	10.0	9.57		mg/Kg		96	80 - 120
Barium	200	196		mg/Kg		98	80 - 120
Beryllium	5.00	4.88		mg/Kg		98	80 - 120
Cadmium	5.00	4.72		mg/Kg		94	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Cobalt	50.0	48.1		mg/Kg		96	80 - 120
Copper	25.0	25.0		mg/Kg		100	80 - 120
Iron	100	107		mg/Kg		107	80 - 120
Lead	10.0	9.70		mg/Kg		97	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-785815/2-A
Matrix: Solid
Analysis Batch: 786025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785815

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	1000	956		mg/Kg		96	80 - 120
Manganese	50.0	49.9		mg/Kg		100	80 - 120
Nickel	50.0	48.9		mg/Kg		98	80 - 120
Potassium	1000	974		mg/Kg		97	80 - 120
Selenium	10.0	8.61		mg/Kg		86	80 - 120
Silver	5.00	4.30		mg/Kg		86	80 - 120
Sodium	1000	988		mg/Kg		99	80 - 120
Thallium	10.0	9.50		mg/Kg		95	80 - 120
Vanadium	50.0	49.9		mg/Kg		100	80 - 120
Zinc	50.0	47.1		mg/Kg		94	80 - 120

Lab Sample ID: 500-255852-1 MS
Matrix: Solid
Analysis Batch: 786025

Client Sample ID: SB1 (0-3)
Prep Type: Total/NA
Prep Batch: 785815

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	8900		181	12200	4	mg/Kg	☼	1868	75 - 125
Antimony	2.5	F1	45.2	12.8	F1	mg/Kg	☼	23	75 - 125
Arsenic	4.5	F1	9.04	11.8		mg/Kg	☼	81	75 - 125
Barium	95		181	254		mg/Kg	☼	88	75 - 125
Beryllium	2.0		4.52	6.29		mg/Kg	☼	94	75 - 125
Cadmium	0.55		4.52	4.00		mg/Kg	☼	76	75 - 125
Calcium	47000	B	904	70900	4	mg/Kg	☼	2624	75 - 125
Chromium	98	F2	18.1	183	4	mg/Kg	☼	469	75 - 125
Cobalt	2.7		45.2	46.3		mg/Kg	☼	96	75 - 125
Copper	25	F1 F2	22.6	56.8	F1	mg/Kg	☼	139	75 - 125
Iron	20000	F2	90.4	26800	4	mg/Kg	☼	7412	75 - 125
Lead	75	F2	9.04	54.7	4	mg/Kg	☼	-223	75 - 125
Magnesium	14000		904	20900	4	mg/Kg	☼	811	75 - 125
Manganese	1900	B F2	45.2	4350	4	mg/Kg	☼	5327	75 - 125
Nickel	15		45.2	68.9		mg/Kg	☼	120	75 - 125
Potassium	880	F1	904	1660		mg/Kg	☼	87	75 - 125
Selenium	1.2		9.04	8.70		mg/Kg	☼	83	75 - 125
Silver	<0.50		4.52	3.97		mg/Kg	☼	88	75 - 125
Sodium	480		904	1300		mg/Kg	☼	91	75 - 125
Thallium	8.6	F1 F2	9.04	26.5	F1	mg/Kg	☼	198	75 - 125
Vanadium	29	F1 F2	45.2	103	F1	mg/Kg	☼	163	75 - 125
Zinc	170	F1	45.2	155	F1	mg/Kg	☼	-42	75 - 125

Lab Sample ID: 500-255852-1 MSD
Matrix: Solid
Analysis Batch: 786025

Client Sample ID: SB1 (0-3)
Prep Type: Total/NA
Prep Batch: 785815

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	8900		185	10300	4	mg/Kg	☼	790	75 - 125	17	20
Antimony	2.5	F1	46.3	15.1	F1	mg/Kg	☼	27	75 - 125	16	20
Arsenic	4.5	F1	9.25	11.1	F1	mg/Kg	☼	71	75 - 125	7	20
Barium	95		185	250		mg/Kg	☼	84	75 - 125	2	20
Beryllium	2.0		4.63	6.29		mg/Kg	☼	92	75 - 125	0	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-255852-1 MSD
Matrix: Solid
Analysis Batch: 786025

Client Sample ID: SB1 (0-3)
Prep Type: Total/NA
Prep Batch: 785815

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cadmium	0.55		4.63	4.05		mg/Kg	☼	76	75 - 125	1	20
Calcium	47000	B	925	62100	4	mg/Kg	☼	1620	75 - 125	13	20
Chromium	98	F2	18.5	108	4 F2	mg/Kg	☼	52	75 - 125	52	20
Cobalt	2.7		46.3	48.1		mg/Kg	☼	98	75 - 125	4	20
Copper	25	F1 F2	23.1	33.9	F1 F2	mg/Kg	☼	37	75 - 125	50	20
Iron	20000	F2	92.5	14500	4 F2	mg/Kg	☼	-6043	75 - 125	59	20
Lead	75	F2	9.25	37.2	4 F2	mg/Kg	☼	-407	75 - 125	38	20
Magnesium	14000		925	17900	4	mg/Kg	☼	465	75 - 125	16	20
Manganese	1900	B F2	46.3	2410	4 F2	mg/Kg	☼	1024	75 - 125	57	20
Nickel	15		46.3	56.6		mg/Kg	☼	90	75 - 125	20	20
Potassium	880	F1	925	1490	F1	mg/Kg	☼	66	75 - 125	11	20
Selenium	1.2		9.25	8.15		mg/Kg	☼	75	75 - 125	6	20
Silver	<0.50		4.63	3.73		mg/Kg	☼	81	75 - 125	6	20
Sodium	480		925	1240		mg/Kg	☼	83	75 - 125	4	20
Thallium	8.6	F1 F2	9.25	18.9	F2	mg/Kg	☼	112	75 - 125	33	20
Vanadium	29	F1 F2	46.3	67.3	F2	mg/Kg	☼	82	75 - 125	42	20
Zinc	170	F1	46.3	128	F1	mg/Kg	☼	-100	75 - 125	19	20

Lab Sample ID: 500-255852-1 DU
Matrix: Solid
Analysis Batch: 786025

Client Sample ID: SB1 (0-3)
Prep Type: Total/NA
Prep Batch: 785815

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	8900		7920		mg/Kg	☼	11	20
Antimony	2.5	F1	<2.0		mg/Kg	☼	NC	20
Arsenic	4.5	F1	4.74		mg/Kg	☼	5	20
Barium	95		102		mg/Kg	☼	6	20
Beryllium	2.0		1.83		mg/Kg	☼	11	20
Cadmium	0.55		0.440	F5	mg/Kg	☼	22	20
Calcium	47000	B	50400		mg/Kg	☼	7	20
Chromium	98	F2	86.3		mg/Kg	☼	13	20
Cobalt	2.7		2.35		mg/Kg	☼	15	20
Copper	25	F1 F2	18.2	F3	mg/Kg	☼	33	20
Iron	20000	F2	21500		mg/Kg	☼	7	20
Lead	75	F2	36.8	F3	mg/Kg	☼	68	20
Magnesium	14000		13200		mg/Kg	☼	3	20
Manganese	1900	B F2	2220		mg/Kg	☼	13	20
Nickel	15		11.6	F3	mg/Kg	☼	24	20
Potassium	880	F1	643	F3	mg/Kg	☼	31	20
Selenium	1.2		<0.98		mg/Kg	☼	NC	20
Silver	<0.50		<0.49		mg/Kg	☼	NC	20
Sodium	480		386	F5	mg/Kg	☼	21	20
Thallium	8.6	F1 F2	9.74		mg/Kg	☼	13	20
Vanadium	29	F1 F2	29.3		mg/Kg	☼	0.2	20
Zinc	170	F1	131	F3	mg/Kg	☼	28	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-785766/12-A
Matrix: Solid
Analysis Batch: 785945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785766

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/12/24 16:30	09/13/24 07:45	1

Lab Sample ID: LCS 500-785766/13-A
Matrix: Solid
Analysis Batch: 785945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.147		mg/Kg		88	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-784031/1-A
Matrix: Solid
Analysis Batch: 784273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		08/30/24 11:42	08/30/24 14:31	1

Lab Sample ID: LCS 500-784031/2-A
Matrix: Solid
Analysis Batch: 784273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.45		mg/Kg		102	85 - 115

Lab Sample ID: 500-255852-1 MS
Matrix: Solid
Analysis Batch: 784273

Client Sample ID: SB1 (0-3)
Prep Type: Total/NA
Prep Batch: 784031

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.7	F1 F2	2.48	3.82	F1	mg/Kg	☼	45	75 - 125

Lab Sample ID: 500-255852-1 MSD
Matrix: Solid
Analysis Batch: 784273

Client Sample ID: SB1 (0-3)
Prep Type: Total/NA
Prep Batch: 784031

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	2.7	F1 F2	2.48	6.19	F1 F2	mg/Kg	☼	141	75 - 125	47	20

Method: 9045D - pH

Lab Sample ID: 500-255852-9 DU
Matrix: Solid
Analysis Batch: 784671

Client Sample ID: SB5 (0-3)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.10		9.09		SU		0.1	5

Client Sample ID: SB1 (0-3)
Lab Sample ID: 500-255852-1
Date Collected: 08/28/24 09:47
Matrix: Solid
Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784671	ST	EET CHI	09/04/24 15:57
Total/NA	Analysis	Moisture		1	785753	DG	EET CHI	09/12/24 11:52

Client Sample ID: SB1 (0-3)
Lab Sample ID: 500-255852-1
Date Collected: 08/28/24 09:47
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			783956		EET CHI	08/29/24 17:47
Total/NA	Analysis	8260D		1	784821	PMF	EET CHI	09/06/24 14:26
Total/NA	Prep	3546			785362	LH	EET CHI	09/10/24 14:54
Total/NA	Analysis	8270E		2	785449	H7CM	EET CHI	09/11/24 15:09
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	784862	H7CM	EET CHI	09/06/24 14:43
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		5	784862	H7CM	EET CHI	09/06/24 14:54
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 12:30
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		1	786025	SJ	EET CHI	09/13/24 14:18
Total/NA	Prep	7471B			785766	RN	EET CHI	09/12/24 16:30
Total/NA	Analysis	7471B		1	785945	MJG	EET CHI	09/13/24 08:14
Total/NA	Prep	9010C			784031	AC	EET CHI	08/30/24 11:42 - 08/30/24 12:12 [1]
Total/NA	Analysis	9012B		1	784273	AC	EET CHI	08/30/24 14:41

Client Sample ID: SB1 (5-7.5)
Lab Sample ID: 500-255852-2
Date Collected: 08/28/24 09:53
Matrix: Solid
Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784671	ST	EET CHI	09/04/24 16:00
Total/NA	Analysis	Moisture		1	785753	DG	EET CHI	09/12/24 11:52

Client Sample ID: SB1 (5-7.5)
Lab Sample ID: 500-255852-2
Date Collected: 08/28/24 09:53
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			783956		EET CHI	08/29/24 17:47
Total/NA	Analysis	8260D		1	784821	PMF	EET CHI	09/06/24 14:50
Total/NA	Prep	3546			785362	LH	EET CHI	09/10/24 14:54
Total/NA	Analysis	8270E		1	785449	H7CM	EET CHI	09/11/24 13:28
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	784635	H7CM	EET CHI	09/05/24 18:03

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-255852-1

Client Sample ID: SB1 (5-7.5)

Date Collected: 08/28/24 09:53
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-2

Matrix: Solid
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 12:45
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		1	786025	SJ	EET CHI	09/13/24 14:50
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		5	786184	SJ	EET CHI	09/13/24 18:43
Total/NA	Prep	7471B			785766	RN	EET CHI	09/12/24 16:30
Total/NA	Analysis	7471B		1	785945	MJG	EET CHI	09/13/24 08:16
Total/NA	Prep	9010C			784031	AC	EET CHI	08/30/24 11:42 - 08/30/24 12:12 [1]
Total/NA	Analysis	9012B		1	784273	AC	EET CHI	08/30/24 14:47

Client Sample ID: SB2 (0-3)

Date Collected: 08/28/24 10:15
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784671	ST	EET CHI	09/04/24 16:02
Total/NA	Analysis	Moisture		1	785144	DG	EET CHI	09/09/24 14:07

Client Sample ID: SB2 (0-3)

Date Collected: 08/28/24 10:15
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-3

Matrix: Solid
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			783956		EET CHI	08/29/24 17:47
Total/NA	Analysis	8260D		1	784821	PMF	EET CHI	09/06/24 15:39
Total/NA	Prep	3546			785362	LH	EET CHI	09/10/24 14:54
Total/NA	Analysis	8270E		2	785449	H7CM	EET CHI	09/11/24 15:34
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		10	785070	SB	EET CHI	09/09/24 16:14
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		50	785070	SB	EET CHI	09/09/24 16:26
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 13:00
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		1	786025	SJ	EET CHI	09/13/24 14:55
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		5	786184	SJ	EET CHI	09/13/24 18:48
Total/NA	Prep	7471B			785766	RN	EET CHI	09/12/24 16:30
Total/NA	Analysis	7471B		1	785945	MJG	EET CHI	09/13/24 08:18
Total/NA	Prep	9010C			784031	AC	EET CHI	08/30/24 11:42 - 08/30/24 12:12 [1]
Total/NA	Analysis	9012B		1	784273	AC	EET CHI	08/30/24 14:52

Client Sample ID: SB2 (3-5)
Lab Sample ID: 500-255852-4
Date Collected: 08/28/24 10:35
Matrix: Solid
Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784671	ST	EET CHI	09/04/24 16:05
Total/NA	Analysis	Moisture		1	785144	DG	EET CHI	09/09/24 14:07

Client Sample ID: SB2 (3-5)
Lab Sample ID: 500-255852-4
Date Collected: 08/28/24 10:35
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			783940		EET CHI	08/28/24 10:35
Total/NA	Analysis	8260D		50	785227	W1T	EET CHI	09/10/24 14:01
Total/NA	Prep	3546			785362	LH	EET CHI	09/10/24 14:54
Total/NA	Analysis	8270E		2	785449	H7CM	EET CHI	09/11/24 15:59
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	785070	SB	EET CHI	09/09/24 16:37
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		5	785070	SB	EET CHI	09/09/24 16:49
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 13:45
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		1	786025	SJ	EET CHI	09/13/24 14:59
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		5	786184	SJ	EET CHI	09/13/24 18:52
Total/NA	Prep	7471B			785766	RN	EET CHI	09/12/24 16:30
Total/NA	Analysis	7471B		1	785945	MJG	EET CHI	09/13/24 08:25
Total/NA	Prep	9010C			784031	AC	EET CHI	08/30/24 11:42 - 08/30/24 12:12 [1]
Total/NA	Analysis	9012B		1	784273	AC	EET CHI	08/30/24 14:54

Client Sample ID: SB3 (0-3)
Lab Sample ID: 500-255852-5
Date Collected: 08/28/24 11:43
Matrix: Solid
Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784671	ST	EET CHI	09/04/24 16:07
Total/NA	Analysis	Moisture		1	785144	DG	EET CHI	09/09/24 14:07

Client Sample ID: SB3 (0-3)
Lab Sample ID: 500-255852-5
Date Collected: 08/28/24 11:43
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			783956		EET CHI	08/29/24 17:47
Total/NA	Analysis	8260D		1	784821	PMF	EET CHI	09/06/24 16:28
Total/NA	Prep	3546			785362	LH	EET CHI	09/10/24 14:54
Total/NA	Analysis	8270E		2	785449	H7CM	EET CHI	09/11/24 16:24

Client Sample ID: SB3 (0-3)

Lab Sample ID: 500-255852-5

Date Collected: 08/28/24 11:43

Matrix: Solid

Date Received: 08/29/24 15:25

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	784862	H7CM	EET CHI	09/06/24 18:35
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 14:00
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		1	786025	SJ	EET CHI	09/13/24 15:04
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		5	786184	SJ	EET CHI	09/13/24 18:57
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		20	786300	SJ	EET CHI	09/16/24 14:02
Total/NA	Prep	7471B			785766	RN	EET CHI	09/12/24 16:30
Total/NA	Analysis	7471B		1	785945	MJG	EET CHI	09/13/24 08:27
Total/NA	Prep	9010C			784031	AC	EET CHI	08/30/24 11:42 - 08/30/24 12:12 [1]
Total/NA	Analysis	9012B		1	784273	AC	EET CHI	08/30/24 15:42

Client Sample ID: SB3 (5-7.5)

Lab Sample ID: 500-255852-6

Date Collected: 08/28/24 12:30

Matrix: Solid

Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784671	ST	EET CHI	09/04/24 16:10
Total/NA	Analysis	Moisture		1	785144	DG	EET CHI	09/09/24 14:07

Client Sample ID: SB3 (5-7.5)

Lab Sample ID: 500-255852-6

Date Collected: 08/28/24 12:30

Matrix: Solid

Date Received: 08/29/24 15:25

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			783956		EET CHI	08/29/24 17:47
Total/NA	Analysis	8260D		1	784821	PMF	EET CHI	09/06/24 16:52
Total/NA	Prep	3546			785362	LH	EET CHI	09/10/24 14:54
Total/NA	Analysis	8270E		2	785449	H7CM	EET CHI	09/11/24 16:49
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	785070	SB	EET CHI	09/09/24 17:01
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		5	785070	SB	EET CHI	09/09/24 17:12
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 14:15
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		1	786024	SJ	EET CHI	09/13/24 14:51
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		5	786184	SJ	EET CHI	09/13/24 19:01
Total/NA	Prep	7471B			785766	RN	EET CHI	09/12/24 16:30
Total/NA	Analysis	7471B		1	785945	MJG	EET CHI	09/13/24 08:29

Client Sample ID: SB3 (5-7.5)

Lab Sample ID: 500-255852-6
Date Collected: 08/28/24 12:30
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			784031	AC	EET CHI	08/30/24 11:42 - 08/30/24 12:12 [1]
Total/NA	Analysis	9012B		1	784273	AC	EET CHI	08/30/24 14:56

Client Sample ID: SB4 (0-3)

Lab Sample ID: 500-255852-7
Date Collected: 08/28/24 13:45
Matrix: Solid
Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784671	ST	EET CHI	09/04/24 16:12
Total/NA	Analysis	Moisture		1	785144	DG	EET CHI	09/09/24 14:07

Client Sample ID: SB4 (0-3)

Lab Sample ID: 500-255852-7
Date Collected: 08/28/24 13:45
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			783956		EET CHI	08/29/24 17:47
Total/NA	Analysis	8260D		1	784821	PMF	EET CHI	09/06/24 17:16
Total/NA	Prep	3546			785362	LH	EET CHI	09/10/24 14:54
Total/NA	Analysis	8270E		2	785449	H7CM	EET CHI	09/11/24 17:15
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	785339	H7CM	EET CHI	09/10/24 15:19
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 14:29
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		1	786024	SJ	EET CHI	09/13/24 14:55
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		5	786184	SJ	EET CHI	09/13/24 19:06
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		20	786300	SJ	EET CHI	09/16/24 14:16
Total/NA	Prep	7471B			785766	RN	EET CHI	09/12/24 16:30
Total/NA	Analysis	7471B		1	785945	MJG	EET CHI	09/13/24 08:31
Total/NA	Prep	9010C			784031	AC	EET CHI	08/30/24 11:42 - 08/30/24 12:12 [1]
Total/NA	Analysis	9012B		1	784273	AC	EET CHI	08/30/24 14:58

Client Sample ID: SB4 (7.5-10)

Lab Sample ID: 500-255852-8
Date Collected: 08/28/24 13:50
Matrix: Solid
Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784671	ST	EET CHI	09/04/24 16:17
Total/NA	Analysis	Moisture		1	785144	DG	EET CHI	09/09/24 14:07

Client Sample ID: SB4 (7.5-10)
Lab Sample ID: 500-255852-8
Date Collected: 08/28/24 13:50
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			783956		EET CHI	08/29/24 17:47
Total/NA	Analysis	8260D		1	784821	PMF	EET CHI	09/06/24 17:41
Total/NA	Prep	3546			785362	LH	EET CHI	09/10/24 14:54
Total/NA	Analysis	8270E		1	785449	H7CM	EET CHI	09/11/24 13:53
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	785070	SB	EET CHI	09/09/24 17:36
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 14:44
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		1	786024	SJ	EET CHI	09/13/24 15:00
Total/NA	Prep	7471B			785766	RN	EET CHI	09/12/24 16:30
Total/NA	Analysis	7471B		1	785945	MJG	EET CHI	09/13/24 08:34
Total/NA	Prep	9010C			784031	AC	EET CHI	08/30/24 11:42 - 08/30/24 12:12 [1]
Total/NA	Analysis	9012B		1	784273	AC	EET CHI	08/30/24 14:59

Client Sample ID: SB5 (0-3)
Lab Sample ID: 500-255852-9
Date Collected: 08/28/24 14:07
Matrix: Solid
Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784671	ST	EET CHI	09/04/24 16:19
Total/NA	Analysis	Moisture		1	785144	DG	EET CHI	09/09/24 14:07

Client Sample ID: SB5 (0-3)
Lab Sample ID: 500-255852-9
Date Collected: 08/28/24 14:07
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			783956		EET CHI	08/29/24 17:47
Total/NA	Analysis	8260D		1	784821	PMF	EET CHI	09/06/24 18:05
Total/NA	Prep	3546			785362	LH	EET CHI	09/10/24 14:54
Total/NA	Analysis	8270E		2	785449	H7CM	EET CHI	09/11/24 17:40
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	785339	H7CM	EET CHI	09/10/24 15:43
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 14:59
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		1	786024	SJ	EET CHI	09/13/24 15:04
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		5	786184	SJ	EET CHI	09/13/24 19:19
Total/NA	Prep	7471B			785766	RN	EET CHI	09/12/24 16:30
Total/NA	Analysis	7471B		1	785945	MJG	EET CHI	09/13/24 08:36
Total/NA	Prep	9010C			784031	AC	EET CHI	08/30/24 11:42 - 08/30/24 12:12 [1]
Total/NA	Analysis	9012B		1	784273	AC	EET CHI	08/30/24 15:01

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB5 (5-7.5)
Lab Sample ID: 500-255852-10
Date Collected: 08/28/24 14:15
Matrix: Solid
Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784671	ST	EET CHI	09/04/24 16:24
Total/NA	Analysis	Moisture		1	785144	DG	EET CHI	09/09/24 14:07

Client Sample ID: SB5 (5-7.5)
Lab Sample ID: 500-255852-10
Date Collected: 08/28/24 14:15
Matrix: Solid
Date Received: 08/29/24 15:25
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			783956		EET CHI	08/29/24 17:47
Total/NA	Analysis	8260D		1	784821	PMF	EET CHI	09/06/24 18:29
Total/NA	Prep	3546			785362	LH	EET CHI	09/10/24 14:54
Total/NA	Analysis	8270E		1	785449	H7CM	EET CHI	09/11/24 14:44
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	785070	SB	EET CHI	09/09/24 17:59
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 15:14
Total/NA	Prep	3050B			785815	S1Z	EET CHI	09/12/24 15:58 - 09/12/24 21:58 [1]
Total/NA	Analysis	6010D		1	786024	SJ	EET CHI	09/13/24 15:09
Total/NA	Prep	7471B			785766	RN	EET CHI	09/12/24 16:30
Total/NA	Analysis	7471B		1	785945	MJG	EET CHI	09/13/24 08:38
Total/NA	Prep	9010C			784031	AC	EET CHI	08/30/24 11:42 - 08/30/24 12:12 [1]
Total/NA	Analysis	9012B		1	784273	AC	EET CHI	08/30/24 15:03

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	10-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record

670150 eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact:	Date:	COC No 1
Company Name Pioneer	Tel/Email: JHartsock@pioneerengcom	Lab Contact:	Carrier:	1 of 1 COCs
Address 2753 W. 31st St.	Analysis Turnaround Time			Sampler
City/State/Zip Chicago, IL, 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name 8080 S Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No
P O # 24-0124-103	☐ 1 day			500-255852

500-255852 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL, PH	Sample Specific Notes
1	SB1 (0-3)	8/25/24	9:47 am	G	S	4			X	
2	SB1 (5-7.5)		9:52 am						X	
3	SB2 (0-3)		10:15 am						X	
4	SB2 (3-5)		10:35 am						X	
5	SB3 (0-3)		11:[illegible] am						X	
6	SB3 (5-7.5)		12:30 pm						X	
7	SB4 (0-3)		1:45 pm						X	
8	SB4 (7.5-10)		1:50 pm						X	
9	SB5 (0-3)		2:07 pm						X	
10	SB5 (5-7.5)		2:15 pm						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd 3.3 Corr'd 3.0	Therm ID No _____

	Relinquished by	Company	Date/Time	Received by	Company	Date/Time
1	[signature]	Pioneer	8/29/24	[signature]	EETA	8/29/24 1350
2	[signature]	EETA 8/29/24	1525	Received by	Company	Date/Time
3	Relinquished by	Company	Date/Time	Received in Laboratory by Stephanie Hernandez	Company EETA	Date/Time 8/29/24 1525

4 Bat

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-255852-1

Login Number: 255852
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/13/2025 12:21:03 PM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-255917-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/13/2025 12:21:03 PM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-255917-1 — Eurofins Chicago

Job Narrative
500-255917-1

Revision
The report being provided is a revision of the original report sent on 9/18/2024. The report (revision 1) is being revised due to: The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 8/30/2024 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

GC/MS VOA
Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 500-784960 recovered outside control limits for the following analytes: Bromoform, Dibromochloromethane and Styrene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Surrogate Toluene-d8 (Surr) recovery for the following sample was outside the upper control limit: SB7 (0-3) (500-255917-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: SB7 (0-3) (500-255917-3) and SB11 (5-7.5) (500-255917-12). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantitated with this internal standard.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB13 (0-3) (500-255917-15). These results have been reported and qualified.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB6 (0-3) (500-255917-1), SB7 (0-3) (500-255917-3), SB8 (0-3) (500-255917-5), SB9 (0-3) (500-255917-7), SB10 (0-3) (500-255917-9), SB10 (5-7.5) (500-255917-10), SB11 (0-3) (500-255917-11), SB11 (5-7.5) (500-255917-12), SB12 (0-3) (500-255917-13), SB13 (0-3) (500-255917-15), SB14 (0-3) (500-255917-17), SB15 (0-3) (500-255917-19), (500-255917-D-1-H MS) and (500-255917-D-1-I MSD). Elevated reporting limits (RLs) are provided.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-785935 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 500-785935 recovered above the upper control limit for N-Nitrosodi-n-propylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: Perylene-d12 Internal standard (ISTD) response for the following sample was outside of acceptance limits: SB9 (7.5-10) (500-255917-8). Analytes associated to this internal standard were non-detect; therefore, re-analysis was not performed.

Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-785749 and analytical batch 500-785935 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: SB10 (5-7.5) (500-255917-10). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-785442 and analytical batch 500-785965 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 500-255917-1 (Continued)

Method 8081B: Surrogate recovery for the following sample was outside control limits: (500-255917-D-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following samples were outside control limits: SB6 (0-3) (500-255917-1), SB7 (0-3) (500-255917-3), SB9 (0-3) (500-255917-7), SB12 (0-3) (500-255917-13), SB13 (0-3) (500-255917-15) and (500-255917-D-1-C MS). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The following sample required a dilution due to the nature of the sample matrix: SB10 (0-3) (500-255917-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB6 (0-3) (500-255917-1), SB7 (0-3) (500-255917-3), SB9 (0-3) (500-255917-7), SB10 (0-3) (500-255917-9), SB12 (0-3) (500-255917-13), SB13 (0-3) (500-255917-15), (500-255917-D-1-C MS) and (500-255917-D-1-D MSD). Elevated reporting limits (RLs) are provided.

Method 8081B: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SB8 (0-3) (500-255917-5), SB11 (0-3) (500-255917-11), SB11 (5-7.5) (500-255917-12), SB13 (5-7.5) (500-255917-16) and SB14 (0-3) (500-255917-17).

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB8 (0-3) (500-255917-5), SB10 (5-7.5) (500-255917-10), SB11 (0-3) (500-255917-11), SB11 (5-7.5) (500-255917-12), SB13 (5-7.5) (500-255917-16) and SB14 (0-3) (500-255917-17). Elevated reporting limits (RLs) are provided.

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following samples were outside control limits: SB11 (0-3) (500-255917-11) and SB14 (0-3) (500-255917-17). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Surrogate recovery for the following sample was outside the upper control limit: SB10 (5-7.5) (500-255917-10). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: SB10 (5-7.5) (500-255917-10) and SB13 (0-3) (500-255917-15). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: SB15 (0-3) (500-255917-19) and SB15 (7.5-10) (500-255917-20). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SB14 (10-12.5) (500-255917-18), SB15 (0-3) (500-255917-19), SB15 (7.5-10) (500-255917-20) and SB16 (3-5) (500-255917-22).

Method 8081B: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SB6 (3-5) (500-255917-2).

Method 8081B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: SB6 (3-5) (500-255917-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010D: The method blank for prep batch 786197 contained Ca above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Job ID: 500-255917-1 (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SB6 (0-3)
Lab Sample ID: 500-255917-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0049	J	0.0050	0.00093	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.041	J F1	0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.016	J F1	0.070	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.046	J F1	0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.34	F1	0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.64	F1	0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.88	F1	0.070	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.40	F1	0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.33	F1	0.070	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.40	F1	0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.095	F1	0.070	0.070	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.47	F1	0.070	0.016	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.44	F1	0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.044	J F1	0.070	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.25	F1	0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.42	F1	0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.047	J F1	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.033	J F1	0.35	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.032	J F1	0.35	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	14000		21		mg/Kg	1	☼	6010D	Total/NA
Antimony	22	F1	10		mg/Kg	5	☼	6010D	Total/NA
Arsenic	14		5.2		mg/Kg	5	☼	6010D	Total/NA
Barium	170		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.1	F2	2.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.1	F2	1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	160000	B	100		mg/Kg	5	☼	6010D	Total/NA
Chromium	3900	F2	21		mg/Kg	20	☼	6010D	Total/NA
Cobalt	12	F2	2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	66	F1 F2	5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	140000	F2	100		mg/Kg	5	☼	6010D	Total/NA
Lead	70		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	33000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	24000	B	21		mg/Kg	20	☼	6010D	Total/NA
Nickel	610		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	750	F1	52		mg/Kg	1	☼	6010D	Total/NA
Selenium	11		5.2		mg/Kg	5	☼	6010D	Total/NA
Sodium	640		520		mg/Kg	5	☼	6010D	Total/NA
Thallium	110		21		mg/Kg	20	☼	6010D	Total/NA
Vanadium	240	F2	2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	140	F1	2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.094		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.4		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	9.09		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB6 (3-5)
Lab Sample ID: 500-255917-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016	J	0.025	0.011	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.0012	J	0.0025	0.00080	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0039	J	0.0064	0.0012	mg/Kg	1	☼	8260D	Total/NA
Ethylbenzene	0.0043		0.0025	0.0013	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB6 (3-5) (Continued)
Lab Sample ID: 500-255917-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.0040		0.0025	0.00051	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0049	J	0.0051	0.00087	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.012	J	0.037	0.0063	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.035	J	0.037	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.079		0.037	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.069		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.12		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.078		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.030	J	0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.14		0.037	0.0098	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.17		0.037	0.0086	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.011	J	0.037	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.051		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.084		0.037	0.0067	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.44		0.037	0.0081	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.18		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.16		0.075	0.0075	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.053	J	0.19	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	16000		22		mg/Kg	1	☼	6010D	Total/NA
Antimony	16		2.2		mg/Kg	1	☼	6010D	Total/NA
Arsenic	12		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	200		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.6		0.44		mg/Kg	1	☼	6010D	Total/NA
Cadmium	3.3		0.22		mg/Kg	1	☼	6010D	Total/NA
Calcium	81000	B	44		mg/Kg	2	☼	6010D	Total/NA
Chromium	15		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.9		1.1		mg/Kg	2	☼	6010D	Total/NA
Copper	3100		22		mg/Kg	20	☼	6010D	Total/NA
Iron	52000		22		mg/Kg	1	☼	6010D	Total/NA
Lead	290		1.1		mg/Kg	2	☼	6010D	Total/NA
Magnesium	15000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	7500	B	22		mg/Kg	20	☼	6010D	Total/NA
Nickel	13		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	2200		54		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.0		1.1		mg/Kg	1	☼	6010D	Total/NA
Silver	1.2		1.1		mg/Kg	2	☼	6010D	Total/NA
Sodium	900		220		mg/Kg	2	☼	6010D	Total/NA
Thallium	33		22		mg/Kg	20	☼	6010D	Total/NA
Vanadium	27		1.1		mg/Kg	2	☼	6010D	Total/NA
Zinc	3300		4.4		mg/Kg	2	☼	6010D	Total/NA
Mercury	0.086		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	25		2.6		mg/Kg	10	☼	9012B	Total/NA
Sulfide	580		35		mg/Kg	1	☼	9034	Total/NA
pH	8.09		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB7 (0-3)
Lab Sample ID: 500-255917-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0037	J	0.0064	0.0012	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00058	J	0.0026	0.00052	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.043	J	0.073	0.015	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB7 (0-3) (Continued)
Lab Sample ID: 500-255917-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.13		0.073	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.16		0.073	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.37		0.073	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.38		0.073	0.070	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.74		0.073	0.070	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.40		0.073	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.23		0.073	0.028	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.47		0.073	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.10		0.073	0.073	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.82		0.073	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.033	J	0.073	0.022	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.40		0.073	0.071	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.18		0.073	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.94		0.073	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.68		0.073	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.26		0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.066	J	0.37	0.029	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.12	J	0.37	0.026	mg/Kg	2	☼	8270E	Total/NA
Aluminum	10000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.1		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	130		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.2		0.43		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.61		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	54000	B	21		mg/Kg	1	☼	6010D	Total/NA
Chromium	67		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.7		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	69		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	43000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	130		0.54		mg/Kg	1	☼	6010D	Total/NA
Magnesium	13000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	1800	B	1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	32		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	900		54		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	510		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	4.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	21		0.54		mg/Kg	1	☼	6010D	Total/NA
Zinc	120		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.054		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.6		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	8.39		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB7 (10-12.5)
Lab Sample ID: 500-255917-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0039	J	0.0061	0.0011	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0011	J	0.0024	0.00049	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1600		23		mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.5		1.2		mg/Kg	1	☼	6010D	Total/NA
Barium	4.9		1.2		mg/Kg	1	☼	6010D	Total/NA
Calcium	59000	B	23		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB7 (10-12.5) (Continued) — Lab Sample ID: 500-255917-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	4.7		1.2		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.3		0.58		mg/Kg	1	☼	6010D	Total/NA
Copper	2.4		1.2		mg/Kg	1	☼	6010D	Total/NA
Iron	4800		23		mg/Kg	1	☼	6010D	Total/NA
Lead	1.8		0.58		mg/Kg	1	☼	6010D	Total/NA
Magnesium	29000		12		mg/Kg	1	☼	6010D	Total/NA
Manganese	220	B	1.2		mg/Kg	1	☼	6010D	Total/NA
Nickel	3.9		1.2		mg/Kg	1	☼	6010D	Total/NA
Potassium	410		58		mg/Kg	1	☼	6010D	Total/NA
Sodium	190		120		mg/Kg	1	☼	6010D	Total/NA
Vanadium	11		0.58		mg/Kg	1	☼	6010D	Total/NA
Zinc	22		2.3		mg/Kg	1	☼	6010D	Total/NA
pH	8.24		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB8 (0-3) — Lab Sample ID: 500-255917-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.056	J	0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.080		0.069	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.047	J	0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.035	J	0.069	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.070		0.069	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.073		0.069	0.016	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.061	J	0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.068	J	0.069	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.014	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
4,4'-DDE	0.0040		0.0018	0.00092	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.0029		0.0018	0.00085	mg/Kg	1	☼	8081B	Total/NA
gamma-Chlordane	0.0015	J	0.0018	0.0010	mg/Kg	1	☼	8081B	Total/NA
PCB-1254	0.021		0.018		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.021		0.018		mg/Kg	1	☼	8082A	Total/NA
Aluminum	15000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.0		1.9		mg/Kg	2	☼	6010D	Total/NA
Barium	130		0.96		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.3		0.39		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.68		0.19		mg/Kg	1	☼	6010D	Total/NA
Calcium	180000	B	190		mg/Kg	10	☼	6010D	Total/NA
Chromium	340		1.9		mg/Kg	2	☼	6010D	Total/NA
Cobalt	3.0		0.96		mg/Kg	2	☼	6010D	Total/NA
Copper	23		0.96		mg/Kg	1	☼	6010D	Total/NA
Iron	32000		19		mg/Kg	1	☼	6010D	Total/NA
Lead	96		0.96		mg/Kg	2	☼	6010D	Total/NA
Magnesium	42000		9.6		mg/Kg	1	☼	6010D	Total/NA
Manganese	9600	B	9.6		mg/Kg	10	☼	6010D	Total/NA
Nickel	15		0.96		mg/Kg	1	☼	6010D	Total/NA
Potassium	830		48		mg/Kg	1	☼	6010D	Total/NA
Selenium	4.0		0.96		mg/Kg	1	☼	6010D	Total/NA
Sodium	770		190		mg/Kg	2	☼	6010D	Total/NA
Thallium	45		9.6		mg/Kg	10	☼	6010D	Total/NA
Vanadium	100		0.96		mg/Kg	2	☼	6010D	Total/NA
Zinc	89		1.9		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB8 (0-3) (Continued) — Lab Sample ID: 500-255917-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	32		2.5		mg/Kg	10	☼	9012B	Total/NA
pH	8.57		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB8 (5-7.5) — Lab Sample ID: 500-255917-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	0.017	J B	0.18	0.016	mg/Kg	1	☼	8270E	Total/NA
Aluminum	1400		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.3		0.93		mg/Kg	1	☼	6010D	Total/NA
Barium	5.2		0.93		mg/Kg	1	☼	6010D	Total/NA
Calcium	21000	B	19		mg/Kg	1	☼	6010D	Total/NA
Chromium	5.3		0.93		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.3		0.47		mg/Kg	1	☼	6010D	Total/NA
Copper	2.9		0.93		mg/Kg	1	☼	6010D	Total/NA
Iron	4100		19		mg/Kg	1	☼	6010D	Total/NA
Lead	3.7		0.47		mg/Kg	1	☼	6010D	Total/NA
Magnesium	12000		9.3		mg/Kg	1	☼	6010D	Total/NA
Manganese	120	B	0.93		mg/Kg	1	☼	6010D	Total/NA
Nickel	4.0		0.93		mg/Kg	1	☼	6010D	Total/NA
Potassium	260		47		mg/Kg	1	☼	6010D	Total/NA
Sodium	140		93		mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.4		0.47		mg/Kg	1	☼	6010D	Total/NA
Zinc	17		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.017		0.017		mg/Kg	1	☼	7471B	Total/NA
pH	8.43		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB9 (0-3) — Lab Sample ID: 500-255917-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.060	J	0.069	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.070		0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.21		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.24		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.49		0.069	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.16		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.19		0.069	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.32		0.069	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.44		0.069	0.016	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.18		0.069	0.068	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.061	J	0.069	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.43		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.32		0.069	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.068	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.032	J	0.35	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.038	J	0.35	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	10000		18		mg/Kg	1	☼	6010D	Total/NA
Arsenic	23		1.8		mg/Kg	2	☼	6010D	Total/NA
Barium	140		0.91		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.3		0.73		mg/Kg	2	☼	6010D	Total/NA
Cadmium	0.64		0.36		mg/Kg	2	☼	6010D	Total/NA
Calcium	24000	B	18		mg/Kg	1	☼	6010D	Total/NA
Chromium	35		0.91		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB9 (0-3) (Continued) — Lab Sample ID: 500-255917-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	8.8		0.91		mg/Kg	2	☼	6010D	Total/NA
Copper	58		1.8		mg/Kg	2	☼	6010D	Total/NA
Iron	61000		36		mg/Kg	2	☼	6010D	Total/NA
Lead	93		0.91		mg/Kg	2	☼	6010D	Total/NA
Magnesium	6200		9.1		mg/Kg	1	☼	6010D	Total/NA
Manganese	1600	B	1.8		mg/Kg	2	☼	6010D	Total/NA
Nickel	38		1.8		mg/Kg	2	☼	6010D	Total/NA
Potassium	680		45		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.3		1.8		mg/Kg	2	☼	6010D	Total/NA
Sodium	890		180		mg/Kg	2	☼	6010D	Total/NA
Thallium	6.8		1.8		mg/Kg	2	☼	6010D	Total/NA
Vanadium	35		0.91		mg/Kg	2	☼	6010D	Total/NA
Zinc	470		1.8		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.070		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	22		2.6		mg/Kg	10	☼	9012B	Total/NA
pH	8.36		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB9 (7.5-10) — Lab Sample ID: 500-255917-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.011	J	0.033	0.0072	mg/Kg	1	☼	8270E	Total/NA
Diethyl phthalate	0.018	J B	0.17	0.015	mg/Kg	1	☼	8270E	Total/NA
Aluminum	1300		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.7		0.98		mg/Kg	1	☼	6010D	Total/NA
Barium	4.9		0.98		mg/Kg	1	☼	6010D	Total/NA
Calcium	15000	B	20		mg/Kg	1	☼	6010D	Total/NA
Chromium	3.8		0.98		mg/Kg	1	☼	6010D	Total/NA
Cobalt	1.7		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	14		0.98		mg/Kg	1	☼	6010D	Total/NA
Iron	4000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	6.9		0.49		mg/Kg	1	☼	6010D	Total/NA
Magnesium	8700		9.8		mg/Kg	1	☼	6010D	Total/NA
Manganese	110	B	0.98		mg/Kg	1	☼	6010D	Total/NA
Nickel	3.3		0.98		mg/Kg	1	☼	6010D	Total/NA
Potassium	260		49		mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.0		0.49		mg/Kg	1	☼	6010D	Total/NA
Zinc	23		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	0.41		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	8.64		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB10 (0-3) — Lab Sample ID: 500-255917-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0017	J	0.0028	0.00087	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0017	J	0.0069	0.0013	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0027	J	0.0055	0.00095	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.092		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	2.9		0.072	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	1.9		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	5.4		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	5.9		0.072	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	13		0.072	0.069	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB10 (0-3) (Continued)
Lab Sample ID: 500-255917-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	5.9		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	3.9		0.072	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	8.9		0.072	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	1.4		0.072	0.072	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	15		0.072	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.12		0.072	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	5.8		0.072	0.070	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.20		0.072	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	8.1		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	8.6		0.072	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.32		0.15	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.84		0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.27	J	0.36	0.026	mg/Kg	2	☼	8270E	Total/NA
Aluminum	17000		19		mg/Kg	1	☼	6010D	Total/NA
Antimony	3.0		1.9		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.3		0.95		mg/Kg	1	☼	6010D	Total/NA
Barium	190		0.95		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.7		1.9		mg/Kg	5	☼	6010D	Total/NA
Cadmium	0.37		0.19		mg/Kg	1	☼	6010D	Total/NA
Calcium	150000	B	95		mg/Kg	5	☼	6010D	Total/NA
Chromium	22		0.95		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.2		2.4		mg/Kg	5	☼	6010D	Total/NA
Copper	55		0.95		mg/Kg	1	☼	6010D	Total/NA
Iron	26000		19		mg/Kg	1	☼	6010D	Total/NA
Lead	170		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	12000		9.5		mg/Kg	1	☼	6010D	Total/NA
Manganese	2300	B	4.8		mg/Kg	5	☼	6010D	Total/NA
Nickel	23		0.95		mg/Kg	1	☼	6010D	Total/NA
Potassium	2100		48		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.5		0.95		mg/Kg	1	☼	6010D	Total/NA
Sodium	1400		480		mg/Kg	5	☼	6010D	Total/NA
Thallium	3.8		0.95		mg/Kg	1	☼	6010D	Total/NA
Vanadium	19		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	130		1.9		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	14		2.4		mg/Kg	10	☼	9012B	Total/NA
Sulfide	810		33		mg/Kg	1	☼	9034	Total/NA
pH	8.12		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB10 (5-7.5)
Lab Sample ID: 500-255917-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0013	J	0.0020	0.0011	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	2.3		0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	5.4		0.069	0.012	mg/Kg	2	☼	8270E	Total/NA
2,4-Dimethylphenol	0.35	J	0.69	0.15	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	4.1		0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
2-Methylphenol	0.13	J	0.35	0.036	mg/Kg	2	☼	8270E	Total/NA
3 & 4 Methylphenol	0.56		0.35	0.051	mg/Kg	2	☼	8270E	Total/NA
Phenol	0.18	J	0.35	0.030	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene - DL	25		3.4	0.59	mg/Kg	100	☼	8270E	Total/NA
Anthracene - DL	70		3.4	0.70	mg/Kg	100	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB10 (5-7.5) (Continued)
Lab Sample ID: 500-255917-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene - DL	260		3.4	0.73	mg/Kg	100	☼	8270E	Total/NA
Benzo[a]pyrene - DL	130		3.4	3.3	mg/Kg	100	☼	8270E	Total/NA
Benzo[b]fluoranthene - DL	410		3.4	3.3	mg/Kg	100	☼	8270E	Total/NA
Benzo[g,h,i]perylene - DL	150		3.4	0.75	mg/Kg	100	☼	8270E	Total/NA
Benzo[k]fluoranthene - DL	120		3.4	1.3	mg/Kg	100	☼	8270E	Total/NA
Chrysene - DL	340		3.4	0.91	mg/Kg	100	☼	8270E	Total/NA
Dibenz(a,h)anthracene - DL	50		3.4	3.4	mg/Kg	100	☼	8270E	Total/NA
Fluoranthene - DL	750		3.4	0.80	mg/Kg	100	☼	8270E	Total/NA
Fluorene - DL	41		3.4	1.0	mg/Kg	100	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene - DL	160		3.4	3.4	mg/Kg	100	☼	8270E	Total/NA
Phenanthrene - DL	430		3.4	0.75	mg/Kg	100	☼	8270E	Total/NA
Pyrene - DL	510		3.4	0.94	mg/Kg	100	☼	8270E	Total/NA
Carbazole - DL	48		17	1.4	mg/Kg	100	☼	8270E	Total/NA
Dibenzofuran - DL	28		17	1.2	mg/Kg	100	☼	8270E	Total/NA
Aluminum	8500		22		mg/Kg	1	☼	6010D	Total/NA
Antimony	4.3		2.2		mg/Kg	1	☼	6010D	Total/NA
Arsenic	13		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	110		1.1		mg/Kg	1	☼	6010D	Total/NA
Cadmium	2.5		0.22		mg/Kg	1	☼	6010D	Total/NA
Calcium	140000	B	110		mg/Kg	5	☼	6010D	Total/NA
Chromium	11		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.0		2.7		mg/Kg	5	☼	6010D	Total/NA
Copper	62		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	28000		22		mg/Kg	1	☼	6010D	Total/NA
Lead	200		2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	33000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	1600	B	5.5		mg/Kg	5	☼	6010D	Total/NA
Nickel	16		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1100		55		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.2		1.1		mg/Kg	1	☼	6010D	Total/NA
Thallium	3.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	12		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	840		2.2		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	4.1		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.96		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB11 (0-3)
Lab Sample ID: 500-255917-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.20		0.066	0.011	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.25		0.066	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.94		0.066	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.63		0.066	0.064	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.7		0.066	0.063	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.49		0.066	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.64		0.066	0.025	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.2		0.066	0.018	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.17		0.066	0.066	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	2.6		0.066	0.015	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.13		0.066	0.020	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.57		0.066	0.065	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB11 (0-3) (Continued) — Lab Sample ID: 500-255917-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.032	J	0.066	0.012	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	1.4		0.066	0.014	mg/Kg	2	☼	8270E	Total/NA
Pyrene	1.7		0.066	0.018	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.046	J	0.13	0.013	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.20	J	0.33	0.026	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.079	J	0.33	0.024	mg/Kg	2	☼	8270E	Total/NA
Aluminum	11000		18		mg/Kg	1	☼	6010D	Total/NA
Arsenic	10		1.8		mg/Kg	2	☼	6010D	Total/NA
Barium	110		0.92		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.9		0.73		mg/Kg	2	☼	6010D	Total/NA
Cadmium	2.7		0.37		mg/Kg	2	☼	6010D	Total/NA
Calcium	34000	B	18		mg/Kg	1	☼	6010D	Total/NA
Chromium	130		0.92		mg/Kg	1	☼	6010D	Total/NA
Cobalt	7.2		0.92		mg/Kg	2	☼	6010D	Total/NA
Copper	65		1.8		mg/Kg	2	☼	6010D	Total/NA
Iron	64000		37		mg/Kg	2	☼	6010D	Total/NA
Lead	110		0.92		mg/Kg	2	☼	6010D	Total/NA
Magnesium	8100		9.2		mg/Kg	1	☼	6010D	Total/NA
Manganese	7600	B	9.2		mg/Kg	10	☼	6010D	Total/NA
Nickel	35		1.8		mg/Kg	2	☼	6010D	Total/NA
Potassium	770		46		mg/Kg	1	☼	6010D	Total/NA
Selenium	4.1		1.8		mg/Kg	2	☼	6010D	Total/NA
Sodium	740		180		mg/Kg	2	☼	6010D	Total/NA
Thallium	34		9.2		mg/Kg	10	☼	6010D	Total/NA
Vanadium	99		0.92		mg/Kg	2	☼	6010D	Total/NA
Zinc	1000		1.8		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.034		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.6		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	8.89		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB11 (5-7.5) — Lab Sample ID: 500-255917-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0024	J	0.0066	0.0012	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.0015	J	0.0026	0.0015	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00057	J	0.0026	0.00053	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.041	J	0.075	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.044	J	0.075	0.013	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.067	J	0.075	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.16		0.075	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.14		0.075	0.073	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.23		0.075	0.072	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.074	J	0.075	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.084		0.075	0.029	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.20		0.075	0.020	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.32		0.075	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.027	J	0.075	0.022	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.079		0.075	0.074	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.098		0.075	0.014	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	1.2		0.075	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.22		0.075	0.021	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB11 (5-7.5) (Continued) — Lab Sample ID: 500-255917-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.33		0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.056	J	0.38	0.030	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.077	J	0.38	0.027	mg/Kg	2	☼	8270E	Total/NA
Aluminum	10000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	9.0		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	80		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.6		0.80		mg/Kg	2	☼	6010D	Total/NA
Cadmium	0.55		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	25000	B	20		mg/Kg	1	☼	6010D	Total/NA
Chromium	13		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	9.1		1.0		mg/Kg	2	☼	6010D	Total/NA
Copper	52		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	42000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	58		0.50		mg/Kg	1	☼	6010D	Total/NA
Magnesium	7400		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	11000	B	10		mg/Kg	10	☼	6010D	Total/NA
Nickel	23		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	940		50		mg/Kg	1	☼	6010D	Total/NA
Selenium	4.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	1000		200		mg/Kg	2	☼	6010D	Total/NA
Thallium	49		10		mg/Kg	10	☼	6010D	Total/NA
Vanadium	28		1.0		mg/Kg	2	☼	6010D	Total/NA
Zinc	230		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.032		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.31		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	8.67		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB12 (0-3) — Lab Sample ID: 500-255917-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.074	J	0.076	0.013	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.11		0.076	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.26		0.076	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.40		0.076	0.073	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.77		0.076	0.072	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.49		0.076	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.25		0.076	0.029	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.35		0.076	0.020	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.11		0.076	0.076	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.44		0.076	0.018	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.42		0.076	0.074	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.091		0.076	0.014	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.49		0.076	0.017	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.38		0.076	0.021	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.14	J	0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.053	J	0.38	0.030	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.061	J	0.38	0.027	mg/Kg	2	☼	8270E	Total/NA
Aluminum	11000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	12		2.1		mg/Kg	2	☼	6010D	Total/NA
Barium	160		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.1		0.83		mg/Kg	2	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB12 (0-3) (Continued)
Lab Sample ID: 500-255917-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.97		0.42		mg/Kg	2	☼	6010D	Total/NA
Calcium	88000	B	42		mg/Kg	2	☼	6010D	Total/NA
Chromium	77		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	7.0		1.0		mg/Kg	2	☼	6010D	Total/NA
Copper	65		2.1		mg/Kg	2	☼	6010D	Total/NA
Iron	81000		42		mg/Kg	2	☼	6010D	Total/NA
Lead	150		1.0		mg/Kg	2	☼	6010D	Total/NA
Magnesium	17000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	3900	B	2.1		mg/Kg	2	☼	6010D	Total/NA
Nickel	34		2.1		mg/Kg	2	☼	6010D	Total/NA
Potassium	1200		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.9		2.1		mg/Kg	2	☼	6010D	Total/NA
Sodium	670		210		mg/Kg	2	☼	6010D	Total/NA
Thallium	17		2.1		mg/Kg	2	☼	6010D	Total/NA
Vanadium	54		1.0		mg/Kg	2	☼	6010D	Total/NA
Zinc	350		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.91		0.036		mg/Kg	2	☼	7471B	Total/NA
Cyanide, Total	5.5		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	8.42		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB12 (7.5-10)
Lab Sample ID: 500-255917-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.017	J	0.034	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.034	0.0074	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.019	J	0.034	0.0090	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.019	J	0.034	0.0080	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.048		0.034	0.0075	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.019	J	0.034	0.0094	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.0076	J	0.069	0.0069	mg/Kg	1	☼	8270E	Total/NA
Diethyl phthalate	0.020	J B	0.17	0.016	mg/Kg	1	☼	8270E	Total/NA
Aluminum	2100		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.7		0.95		mg/Kg	1	☼	6010D	Total/NA
Barium	13		0.95		mg/Kg	1	☼	6010D	Total/NA
Calcium	6600	B	19		mg/Kg	1	☼	6010D	Total/NA
Chromium	7.6		0.95		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.8		0.48		mg/Kg	1	☼	6010D	Total/NA
Copper	8.3		0.95		mg/Kg	1	☼	6010D	Total/NA
Iron	22000		19		mg/Kg	1	☼	6010D	Total/NA
Lead	14		0.48		mg/Kg	1	☼	6010D	Total/NA
Magnesium	1700		9.5		mg/Kg	1	☼	6010D	Total/NA
Manganese	350	B	0.95		mg/Kg	1	☼	6010D	Total/NA
Nickel	5.7		0.95		mg/Kg	1	☼	6010D	Total/NA
Potassium	420		48		mg/Kg	1	☼	6010D	Total/NA
Vanadium	13		0.48		mg/Kg	1	☼	6010D	Total/NA
Zinc	130		1.9		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	0.60	F1	0.25		mg/Kg	1	☼	9012B	Total/NA
pH	8.01		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB13 (0-3) — Lab Sample ID: 500-255917-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0099	J	0.019	0.0078	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0012	J	0.0046	0.00085	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.027	J	0.070	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.039	J	0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.14		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.16		0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.25		0.070	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.095		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.082		0.070	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.17		0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.25		0.070	0.016	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.092		0.070	0.069	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.029	J	0.070	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.22		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.19		0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.067	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.031	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.031	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	12000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	11		1.9		mg/Kg	2	☼	6010D	Total/NA
Barium	300		19		mg/Kg	20	☼	6010D	Total/NA
Beryllium	2.8		0.78		mg/Kg	2	☼	6010D	Total/NA
Cadmium	0.99		0.39		mg/Kg	2	☼	6010D	Total/NA
Calcium	170000	B	390		mg/Kg	20	☼	6010D	Total/NA
Chromium	860		19		mg/Kg	20	☼	6010D	Total/NA
Cobalt	11		0.97		mg/Kg	2	☼	6010D	Total/NA
Copper	80		19		mg/Kg	20	☼	6010D	Total/NA
Iron	130000		390		mg/Kg	20	☼	6010D	Total/NA
Lead	180		9.7		mg/Kg	20	☼	6010D	Total/NA
Magnesium	15000		9.7		mg/Kg	1	☼	6010D	Total/NA
Manganese	23000	B	19		mg/Kg	20	☼	6010D	Total/NA
Nickel	34		19		mg/Kg	20	☼	6010D	Total/NA
Potassium	1300		49		mg/Kg	1	☼	6010D	Total/NA
Selenium	10		1.9		mg/Kg	2	☼	6010D	Total/NA
Sodium	540		190		mg/Kg	2	☼	6010D	Total/NA
Thallium	110		19		mg/Kg	20	☼	6010D	Total/NA
Vanadium	230		9.7		mg/Kg	20	☼	6010D	Total/NA
Zinc	200		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.82		0.034		mg/Kg	2	☼	7471B	Total/NA
Cyanide, Total	12		2.6		mg/Kg	10	☼	9012B	Total/NA
pH	10.22		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB13 (5-7.5) — Lab Sample ID: 500-255917-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0020	J	0.0054	0.0010	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.013	J	0.035	0.0060	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.027	J	0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.11		0.035	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.093		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.16		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB13 (5-7.5) (Continued)
Lab Sample ID: 500-255917-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.081		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.055		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.13		0.035	0.0093	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.17		0.035	0.0082	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.082		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.057		0.035	0.0064	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.30		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.14		0.035	0.0097	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.085		0.072	0.0071	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.029	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Diethyl phthalate	0.021	J B	0.18	0.016	mg/Kg	1	☼	8270E	Total/NA
Aluminum	9300		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	13		2.2		mg/Kg	2	☼	6010D	Total/NA
Barium	590		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.4		0.87		mg/Kg	2	☼	6010D	Total/NA
Cadmium	0.70		0.44		mg/Kg	2	☼	6010D	Total/NA
Calcium	57000	B	44		mg/Kg	2	☼	6010D	Total/NA
Chromium	31		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.2		1.1		mg/Kg	2	☼	6010D	Total/NA
Copper	3400		22		mg/Kg	20	☼	6010D	Total/NA
Iron	130000		440		mg/Kg	20	☼	6010D	Total/NA
Lead	920		11		mg/Kg	20	☼	6010D	Total/NA
Magnesium	11000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	3800	B	2.2		mg/Kg	2	☼	6010D	Total/NA
Nickel	19		2.2		mg/Kg	2	☼	6010D	Total/NA
Potassium	620		55		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.3		2.2		mg/Kg	2	☼	6010D	Total/NA
Sodium	320		220		mg/Kg	2	☼	6010D	Total/NA
Thallium	16		2.2		mg/Kg	2	☼	6010D	Total/NA
Vanadium	37		11		mg/Kg	20	☼	6010D	Total/NA
Zinc	560		4.4		mg/Kg	2	☼	6010D	Total/NA
Mercury	0.16		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.0		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	8.54		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB14 (0-3)
Lab Sample ID: 500-255917-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.015	J	0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.069	J	0.070	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.095		0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.30		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.28		0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.52		0.070	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.18		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.14		0.070	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.31		0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.42		0.070	0.016	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.18		0.070	0.069	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.033	J	0.070	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.40		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB14 (0-3) (Continued) — Lab Sample ID: 500-255917-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.35		0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.059	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.039	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.032	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
PCB-1260	0.083		0.017		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.083		0.017		mg/Kg	1	☼	8082A	Total/NA
Aluminum	11000		19		mg/Kg	1	☼	6010D	Total/NA
Antimony	51		3.8		mg/Kg	2	☼	6010D	Total/NA
Arsenic	11		1.9		mg/Kg	2	☼	6010D	Total/NA
Barium	150		0.95		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.0		0.76		mg/Kg	2	☼	6010D	Total/NA
Cadmium	3.6		0.38		mg/Kg	2	☼	6010D	Total/NA
Calcium	56000	B	19		mg/Kg	1	☼	6010D	Total/NA
Chromium	110		0.95		mg/Kg	1	☼	6010D	Total/NA
Cobalt	7.3		0.95		mg/Kg	2	☼	6010D	Total/NA
Copper	72		1.9		mg/Kg	2	☼	6010D	Total/NA
Iron	95000		38		mg/Kg	2	☼	6010D	Total/NA
Lead	15000		0.95		mg/Kg	2	☼	6010D	Total/NA
Magnesium	9400		9.5		mg/Kg	1	☼	6010D	Total/NA
Manganese	3100	B	1.9		mg/Kg	2	☼	6010D	Total/NA
Nickel	34		1.9		mg/Kg	2	☼	6010D	Total/NA
Potassium	1200		48		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.2		1.9		mg/Kg	2	☼	6010D	Total/NA
Sodium	530		190		mg/Kg	2	☼	6010D	Total/NA
Thallium	14		1.9		mg/Kg	2	☼	6010D	Total/NA
Vanadium	29		0.95		mg/Kg	2	☼	6010D	Total/NA
Zinc	480		3.8		mg/Kg	2	☼	6010D	Total/NA
Mercury	0.22		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	22		2.6		mg/Kg	10	☼	9012B	Total/NA
pH	8.60		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB14 (10-12.5) — Lab Sample ID: 500-255917-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0020	J	0.0072	0.0013	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.12		0.040	0.0082	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.016	J	0.040	0.0068	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.12		0.040	0.0082	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.11		0.040	0.0086	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.058		0.040	0.039	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.070		0.040	0.038	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.050		0.040	0.0087	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.024	J	0.040	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.14		0.040	0.011	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.19		0.040	0.0094	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.11		0.040	0.012	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.14		0.040	0.0073	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	1.2		0.040	0.0088	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.18		0.040	0.011	mg/Kg	1	☼	8270E	Total/NA
2,4-Dimethylphenol	0.13	J	0.40	0.090	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.35		0.081	0.0081	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB14 (10-12.5) (Continued) — Lab Sample ID: 500-255917-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylphenol	0.028	J	0.20	0.021	mg/Kg	1	☼	8270E	Total/NA
3 & 4 Methylphenol	0.14	J	0.20	0.030	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.071	J	0.20	0.016	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.12	J	0.20	0.014	mg/Kg	1	☼	8270E	Total/NA
Phenol	0.27		0.20	0.017	mg/Kg	1	☼	8270E	Total/NA
Aluminum	16000		24		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.3		1.2		mg/Kg	1	☼	6010D	Total/NA
Barium	120		1.2		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.7		2.4		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.4		0.24		mg/Kg	1	☼	6010D	Total/NA
Calcium	140000	B	120		mg/Kg	5	☼	6010D	Total/NA
Chromium	18		1.2		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.6		3.0		mg/Kg	5	☼	6010D	Total/NA
Copper	18		1.2		mg/Kg	1	☼	6010D	Total/NA
Iron	35000		24		mg/Kg	1	☼	6010D	Total/NA
Lead	120		3.0		mg/Kg	5	☼	6010D	Total/NA
Magnesium	6600		12		mg/Kg	1	☼	6010D	Total/NA
Manganese	2000	B	6.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	21		1.2		mg/Kg	1	☼	6010D	Total/NA
Potassium	1800		61		mg/Kg	1	☼	6010D	Total/NA
Selenium	8.0		1.2		mg/Kg	1	☼	6010D	Total/NA
Sodium	910		610		mg/Kg	5	☼	6010D	Total/NA
Thallium	2.9		1.2		mg/Kg	1	☼	6010D	Total/NA
Vanadium	30		3.0		mg/Kg	5	☼	6010D	Total/NA
Zinc	230		2.4		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.061		0.021		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	18		2.7		mg/Kg	10	☼	9012B	Total/NA
pH	8.74		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB15 (0-3) — Lab Sample ID: 500-255917-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0073		0.0058	0.0025	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.015	J	0.023	0.0097	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0015	J	0.0058	0.0011	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.28		0.074	0.013	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.30		0.074	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.65		0.074	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	1.2		0.074	0.072	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	2.2		0.074	0.071	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.86		0.074	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.73		0.074	0.028	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.1		0.074	0.020	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.25		0.074	0.074	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.60		0.074	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.028	J	0.074	0.022	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.87		0.074	0.073	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.036	J	0.074	0.014	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.22		0.074	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.67		0.074	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.051	J	0.15	0.015	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB15 (0-3) (Continued)
Lab Sample ID: 500-255917-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	1.1		0.38	0.29	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.053	J	0.38	0.030	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.034	J	0.38	0.027	mg/Kg	2	☼	8270E	Total/NA
Diethyl phthalate	0.051	J B	0.38	0.034	mg/Kg	2	☼	8270E	Total/NA
PCB-1260	0.049		0.018		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.049		0.018		mg/Kg	1	☼	8082A	Total/NA
Aluminum	14000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	13		2.1		mg/Kg	2	☼	6010D	Total/NA
Barium	160		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.4		0.83		mg/Kg	2	☼	6010D	Total/NA
Cadmium	1.0		0.42		mg/Kg	2	☼	6010D	Total/NA
Calcium	88000	B	42		mg/Kg	2	☼	6010D	Total/NA
Chromium	39		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.8		1.0		mg/Kg	2	☼	6010D	Total/NA
Copper	77		2.1		mg/Kg	2	☼	6010D	Total/NA
Iron	93000		42		mg/Kg	2	☼	6010D	Total/NA
Lead	210		1.0		mg/Kg	2	☼	6010D	Total/NA
Magnesium	10000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	4100	B	2.1		mg/Kg	2	☼	6010D	Total/NA
Nickel	16		2.1		mg/Kg	2	☼	6010D	Total/NA
Potassium	1200		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	4.2		2.1		mg/Kg	2	☼	6010D	Total/NA
Sodium	440		210		mg/Kg	2	☼	6010D	Total/NA
Thallium	18		2.1		mg/Kg	2	☼	6010D	Total/NA
Vanadium	28		1.0		mg/Kg	2	☼	6010D	Total/NA
Zinc	390		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.21		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	16	F2	2.5		mg/Kg	10	☼	9012B	Total/NA
pH	8.46		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB15 (7.5-10)
Lab Sample ID: 500-255917-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.019	J	0.034	0.0069	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.017	J	0.034	0.0058	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.053		0.034	0.0070	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.30		0.034	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.28		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.56		0.034	0.032	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.26		0.034	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.21		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.42		0.034	0.0090	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.057		0.034	0.034	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.76		0.034	0.0079	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.011	J	0.034	0.010	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.25		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.025	J	0.034	0.0062	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.32		0.034	0.0074	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.61		0.034	0.0093	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.022	J	0.069	0.0068	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.25		0.17	0.13	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB15 (7.5-10) (Continued) — Lab Sample ID: 500-255917-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbazole	0.035	J	0.17	0.013	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.023	J	0.17	0.012	mg/Kg	1	☼	8270E	Total/NA
Diethyl phthalate	0.019	J B	0.17	0.016	mg/Kg	1	☼	8270E	Total/NA
Di-n-butyl phthalate	0.017	J	0.17	0.011	mg/Kg	1	☼	8270E	Total/NA
PCB-1232	0.039		0.017		mg/Kg	1	☼	8082A	Total/NA
PCB-1260	0.021		0.017		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.060		0.017		mg/Kg	1	☼	8082A	Total/NA
Aluminum	8400		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.1		2.0		mg/Kg	2	☼	6010D	Total/NA
Barium	79		0.98		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.2		0.78		mg/Kg	2	☼	6010D	Total/NA
Cadmium	1.1		0.39		mg/Kg	2	☼	6010D	Total/NA
Calcium	83000	B	39		mg/Kg	2	☼	6010D	Total/NA
Chromium	53		0.98		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.5		0.98		mg/Kg	2	☼	6010D	Total/NA
Copper	37		20		mg/Kg	20	☼	6010D	Total/NA
Iron	120000		390		mg/Kg	20	☼	6010D	Total/NA
Lead	230		9.8		mg/Kg	20	☼	6010D	Total/NA
Magnesium	17000		9.8		mg/Kg	1	☼	6010D	Total/NA
Manganese	2300	B	2.0		mg/Kg	2	☼	6010D	Total/NA
Nickel	22		20		mg/Kg	20	☼	6010D	Total/NA
Potassium	720		49		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.3		2.0		mg/Kg	2	☼	6010D	Total/NA
Sodium	410		200		mg/Kg	2	☼	6010D	Total/NA
Thallium	9.5		2.0		mg/Kg	2	☼	6010D	Total/NA
Vanadium	36		9.8		mg/Kg	20	☼	6010D	Total/NA
Zinc	160		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.069		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.4		0.23		mg/Kg	1	☼	9012B	Total/NA
pH	9.25		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB16 (0-3) — Lab Sample ID: 500-255917-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.013	J	0.034	0.0070	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.097		0.034	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.13		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.19		0.034	0.032	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.13		0.034	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.12		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.14		0.034	0.0090	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.037		0.034	0.034	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.11		0.034	0.0079	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.013	J	0.034	0.0062	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.048		0.034	0.0074	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.11		0.034	0.0093	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.34		0.17	0.13	mg/Kg	1	☼	8270E	Total/NA
Aluminum	6500		21		mg/Kg	1	☼	6010D	Total/NA
Antimony	2.9		2.1		mg/Kg	1	☼	6010D	Total/NA
Arsenic	12		1.0		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB16 (0-3) (Continued) — Lab Sample ID: 500-255917-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	68		1.0		mg/Kg	1	☼	6010D	Total/NA
Calcium	85000		42		mg/Kg	2	☼	6010D	Total/NA
Chromium	200		2.1		mg/Kg	2	☼	6010D	Total/NA
Cobalt	8.2		5.2		mg/Kg	10	☼	6010D	Total/NA
Copper	94		10		mg/Kg	10	☼	6010D	Total/NA
Iron	180000		210		mg/Kg	10	☼	6010D	Total/NA
Lead	94		5.2		mg/Kg	10	☼	6010D	Total/NA
Magnesium	9800		21		mg/Kg	2	☼	6010D	Total/NA
Manganese	2800		2.1		mg/Kg	2	☼	6010D	Total/NA
Nickel	50		10		mg/Kg	10	☼	6010D	Total/NA
Potassium	460		100		mg/Kg	2	☼	6010D	Total/NA
Sodium	1300		1000		mg/Kg	10	☼	6010D	Total/NA
Thallium	11		10		mg/Kg	10	☼	6010D	Total/NA
Vanadium	63		5.2		mg/Kg	10	☼	6010D	Total/NA
Zinc	140		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.024		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	3.7		0.22		mg/Kg	1	☼	9012B	Total/NA
pH	9.98		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB16 (3-5) — Lab Sample ID: 500-255917-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.016	J	0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.049		0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.28		0.035	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.24		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.42		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.20		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.29		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.43		0.035	0.0093	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.068		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.61		0.035	0.0082	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.19		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.017	J	0.035	0.0064	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.25		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.54		0.035	0.0097	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.017	J	0.072	0.0071	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.026	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
PCB-1248	0.097		0.018		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.097		0.018		mg/Kg	1	☼	8082A	Total/NA
Aluminum	6300		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	10		0.99		mg/Kg	1	☼	6010D	Total/NA
Barium	71		0.99		mg/Kg	1	☼	6010D	Total/NA
Cadmium	2.5		2.0		mg/Kg	10	☼	6010D	Total/NA
Calcium	110000		40		mg/Kg	2	☼	6010D	Total/NA
Chromium	190		2.0		mg/Kg	2	☼	6010D	Total/NA
Copper	45		9.9		mg/Kg	10	☼	6010D	Total/NA
Iron	160000		200		mg/Kg	10	☼	6010D	Total/NA
Lead	230		5.0		mg/Kg	10	☼	6010D	Total/NA
Magnesium	17000		20		mg/Kg	2	☼	6010D	Total/NA
Manganese	6100		9.9		mg/Kg	10	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB16 (3-5) (Continued)
Lab Sample ID: 500-255917-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	20		9.9		mg/Kg	10	☼	6010D	Total/NA
Potassium	560		99		mg/Kg	2	☼	6010D	Total/NA
Thallium	20		9.9		mg/Kg	10	☼	6010D	Total/NA
Vanadium	130		5.0		mg/Kg	10	☼	6010D	Total/NA
Zinc	520		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.065		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	9.8		2.6		mg/Kg	10	☼	9012B	Total/NA
pH	8.83		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-255917-1	SB6 (0-3)	Solid	08/29/24 09:47	08/30/24 12:00
500-255917-2	SB6 (3-5)	Solid	08/29/24 09:58	08/30/24 12:00
500-255917-3	SB7 (0-3)	Solid	08/29/24 10:36	08/30/24 12:00
500-255917-4	SB7 (10-12.5)	Solid	08/29/24 10:42	08/30/24 12:00
500-255917-5	SB8 (0-3)	Solid	08/29/24 12:36	08/30/24 12:00
500-255917-6	SB8 (5-7.5)	Solid	08/29/24 12:45	08/30/24 12:00
500-255917-7	SB9 (0-3)	Solid	08/29/24 13:06	08/30/24 12:00
500-255917-8	SB9 (7.5-10)	Solid	08/29/24 13:15	08/30/24 12:00
500-255917-9	SB10 (0-3)	Solid	08/29/24 13:39	08/30/24 12:00
500-255917-10	SB10 (5-7.5)	Solid	08/29/24 13:47	08/30/24 12:00
500-255917-11	SB11 (0-3)	Solid	08/29/24 14:01	08/30/24 12:00
500-255917-12	SB11 (5-7.5)	Solid	08/29/24 14:15	08/30/24 12:00
500-255917-13	SB12 (0-3)	Solid	08/29/24 09:23	08/30/24 12:00
500-255917-14	SB12 (7.5-10)	Solid	08/29/24 09:30	08/30/24 12:00
500-255917-15	SB13 (0-3)	Solid	08/29/24 10:45	08/30/24 12:00
500-255917-16	SB13 (5-7.5)	Solid	08/29/24 10:54	08/30/24 12:00
500-255917-17	SB14 (0-3)	Solid	08/29/24 12:09	08/30/24 12:00
500-255917-18	SB14 (10-12.5)	Solid	08/29/24 12:23	08/30/24 12:00
500-255917-19	SB15 (0-3)	Solid	08/29/24 13:35	08/30/24 12:00
500-255917-20	SB15 (7.5-10)	Solid	08/29/24 13:53	08/30/24 12:00
500-255917-21	SB16 (0-3)	Solid	08/29/24 15:03	08/30/24 12:00
500-255917-22	SB16 (3-5)	Solid	08/29/24 15:09	08/30/24 12:00

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB6 (0-3)
Lab Sample ID: 500-255917-1
Date Collected: 08/29/24 09:47
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00082		0.0020	0.00082	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0020	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
1,1,2-Trichloroethane	<0.00076		0.0020	0.00076	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
1,1-Dichloroethane	<0.00076		0.0020	0.00076	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
1,1-Dichloroethene	<0.00083		0.0020	0.00083	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
2-Hexanone	<0.0031		0.0050	0.0031	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Acetone	<0.0085		0.020	0.0085	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Bromodichloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Bromoform	<0.0012	*+	0.0020	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Carbon disulfide	**0.0049**	**J**	0.0050	0.00093	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Carbon tetrachloride	<0.00069		0.0020	0.00069	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Chlorobenzene	<0.00085		0.0020	0.00085	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Chloroethane	<0.0017		0.0050	0.0017	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Chloroform	<0.0015		0.0020	0.0015	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Chloromethane	<0.00098		0.0050	0.00098	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
1,3-Dichloropropene, Total	<0.00097		0.0020	0.00097	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Dibromochloromethane	<0.00094	*+	0.0020	0.00094	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Methylene Chloride	<0.0022		0.0050	0.0022	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Styrene	<0.00091	*+	0.0020	0.00091	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Toluene	<0.00041		0.0020	0.00041	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Trichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg	☼	08/30/24 18:42	09/08/24 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 134*	*08/30/24 18:42*	*09/08/24 19:59*	*1*
4-Bromofluorobenzene (Surr)	*120*		*75 - 131*	*08/30/24 18:42*	*09/08/24 19:59*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*08/30/24 18:42*	*09/08/24 19:59*	*1*
Toluene-d8 (Surr)	*110*		*75 - 124*	*08/30/24 18:42*	*09/08/24 19:59*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.041**	**J F1**	0.070	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Acenaphthylene	**0.016**	**J F1**	0.070	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Anthracene	**0.046**	**J F1**	0.070	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Benzo[a]anthracene	**0.34**	**F1**	0.070	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Benzo[a]pyrene	**0.64**	**F1**	0.070	0.068	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Benzo[b]fluoranthene	**0.88**	**F1**	0.070	0.067	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Benzo[g,h,i]perylene	**0.40**	**F1**	0.070	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB6 (0-3)
Lab Sample ID: 500-255917-1
Date Collected: 08/29/24 09:47
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.33**	**F1**	0.070	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Chrysene	**0.40**	**F1**	0.070	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Dibenz(a,h)anthracene	**0.095**	**F1**	0.070	0.070	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Fluoranthene	**0.47**	**F1**	0.070	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Fluorene	<0.021	F1	0.070	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Indeno[1,2,3-cd]pyrene	**0.44**	**F1**	0.070	0.068	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Naphthalene	**0.044**	**J F1**	0.070	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Phenanthrene	**0.25**	**F1**	0.070	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Pyrene	**0.42**	**F1**	0.070	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
1,2,4-Trichlorobenzene	<0.050	F1	0.35	0.050	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
1,2-Dichlorobenzene	<0.029	F1	0.35	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
1,3-Dichlorobenzene	<0.032	F1	0.35	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
1,4-Dichlorobenzene	<0.033	F1	0.35	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2,4,5-Trichlorophenol	<0.026		0.70	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2,4,6-Trichlorophenol	<0.024	F1	0.70	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2,4-Dichlorophenol	<0.025	F1	0.70	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2,4-Dimethylphenol	<0.16		0.70	0.16	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2,4-Dinitrophenol	<0.41	F1	1.4	0.41	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2,4-Dinitrotoluene	<0.040	F1	0.35	0.040	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2,6-Dinitrotoluene	<0.024	F1	0.35	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2-Chloronaphthalene	<0.026	F1	0.35	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2-Chlorophenol	<0.023	F1	0.35	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2-Methylnaphthalene	**0.047**	**J F1**	0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2-Methylphenol	<0.037		0.35	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2-Nitroaniline	<0.038		0.35	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
2-Nitrophenol	<0.048	F1	0.70	0.048	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
3,3'-Dichlorobenzidine	<0.057		0.35	0.057	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
3-Nitroaniline	<0.032		0.70	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
4,6-Dinitro-2-methylphenol	<0.40	F1	1.4	0.40	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
4-Bromophenyl phenyl ether	<0.048	F1	0.35	0.048	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
4-Chloro-3-methylphenol	<0.027	F1	0.70	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
4-Chloroaniline	<0.74		1.4	0.74	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
4-Chlorophenyl phenyl ether	<0.092	F1	0.35	0.092	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
4-Nitroaniline	<0.052	F1	0.70	0.052	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Bis(2-ethylhexyl) phthalate	<0.28		0.35	0.28	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Butyl benzyl phthalate	<0.035	F1	0.35	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Carbazole	**0.033**	**J F1**	0.35	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Dibenzofuran	**0.032**	**J F1**	0.35	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Dimethyl phthalate	<0.015	F1	0.35	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Di-n-octyl phthalate	<0.49		0.70	0.49	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Hexachlorobenzene	<0.013	F1	0.14	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Hexachlorobutadiene	<0.040	F1	0.35	0.040	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB6 (0-3)
Lab Sample ID: 500-255917-1
Date Collected: 08/29/24 09:47
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.75	F1	1.4	0.75	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Hexachloroethane	<0.035	F1	0.35	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Nitrobenzene	<0.022		0.070	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
N-Nitrosodiphenylamine	<0.042	F1	0.35	0.042	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Pentachlorophenol	<0.18	F1 F2	1.4	0.18	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2
Phenol	<0.031		0.35	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 19:03	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*60*		*31 - 166*	*09/12/24 11:30*	*09/13/24 19:03*	*2*
Phenol-d5 (Surr)	*61*		*30 - 153*	*09/12/24 11:30*	*09/13/24 19:03*	*2*
Nitrobenzene-d5 (Surr)	*61*		*37 - 147*	*09/12/24 11:30*	*09/13/24 19:03*	*2*
2-Fluorobiphenyl (Surr)	*59*		*43 - 145*	*09/12/24 11:30*	*09/13/24 19:03*	*2*
2,4,6-Tribromophenol (Surr)	*40*		*31 - 143*	*09/12/24 11:30*	*09/13/24 19:03*	*2*
Terphenyl-d14 (Surr)	*53*		*42 - 157*	*09/12/24 11:30*	*09/13/24 19:03*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095	F2	0.018	0.0095	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
4,4'-DDE	<0.0091	F1	0.018	0.0091	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
4,4'-DDT	<0.0084	F2	0.018	0.0084	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Aldrin	<0.012	F1	0.018	0.012	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
alpha-BHC	<0.0099	F1	0.018	0.0099	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
alpha-Chlordane	<0.0094	F1	0.018	0.0094	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
beta-BHC	<0.014	F2	0.018	0.014	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
delta-BHC	<0.0084	F1	0.018	0.0084	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Dieldrin	<0.0092	F1	0.018	0.0092	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Endosulfan I	<0.0095	F1	0.018	0.0095	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Endosulfan sulfate	<0.0097	F2	0.018	0.0097	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Endrin	<0.0090	F2	0.018	0.0090	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Endrin aldehyde	<0.010	F1 F2	0.018	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
gamma-BHC (Lindane)	<0.0088	F1	0.018	0.0088	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
gamma-Chlordane	<0.010	F1	0.018	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Heptachlor	<0.0095	F1	0.018	0.0095	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Heptachlor epoxide	<0.0095	F1	0.018	0.0095	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Methoxychlor	<0.012	F1	0.087	0.012	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/11/24 07:33	09/13/24 13:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*231*	*S1+*	*33 - 148*	*09/11/24 07:33*	*09/13/24 13:35*	*10*
Tetrachloro-m-xylene	*66*		*30 - 121*	*09/11/24 07:33*	*09/13/24 13:35*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 16:43	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 16:43	1

Client Sample ID: SB6 (0-3)
Date Collected: 08/29/24 09:47
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-1
Matrix: Solid
Percent Solids: 91.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 16:43	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 16:43	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 16:43	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 16:43	1
PCB-1260	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 16:43	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*49 - 129*	*09/11/24 07:33*	*09/13/24 16:43*	*1*
DCB Decachlorobiphenyl	*52*		*37 - 121*	*09/11/24 07:33*	*09/13/24 16:43*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		21		mg/Kg	☼	09/16/24 09:08	09/17/24 02:15	1
Antimony	**22**	**F1**	10		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Arsenic	**14**		5.2		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Barium	**170**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 02:15	1
Beryllium	**4.1**	**F2**	2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Cadmium	**1.1**	**F2**	1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Calcium	**160000**	**B**	100		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Chromium	**3900**	**F2**	21		mg/Kg	☼	09/16/24 09:08	09/17/24 13:09	20
Cobalt	**12**	**F2**	2.6		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Copper	**66**	**F1 F2**	5.2		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Iron	**140000**	**F2**	100		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Lead	**70**		2.6		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Magnesium	**33000**		10		mg/Kg	☼	09/16/24 09:08	09/17/24 02:15	1
Manganese	**24000**	**B**	21		mg/Kg	☼	09/16/24 09:08	09/17/24 13:09	20
Nickel	**610**		5.2		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Potassium	**750**	**F1**	52		mg/Kg	☼	09/16/24 09:08	09/17/24 02:15	1
Selenium	**11**		5.2		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Silver	<2.6	F1 F2	2.6		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Sodium	**640**		520		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Thallium	**110**		21		mg/Kg	☼	09/16/24 09:08	09/17/24 13:09	20
Vanadium	**240**	**F2**	2.6		mg/Kg	☼	09/16/24 09:08	09/17/24 13:05	5
Zinc	**140**	**F1**	2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.094**		0.018		mg/Kg	☼	09/17/24 17:05	09/18/24 08:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.4**		0.26		mg/Kg	☼	09/03/24 01:11	09/03/24 15:08	1
pH (SW846 9045D)	**9.09**		0.20		SU			09/05/24 11:56	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB6 (3-5)
Lab Sample ID: 500-255917-2
Date Collected: 08/29/24 09:58
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 86.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0025	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0025	0.0013	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
1,1,2-Trichloroethane	<0.00095		0.0025	0.00095	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
1,1-Dichloroethane	<0.00096		0.0025	0.00096	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
1,2-Dichloroethane	<0.0016		0.0064	0.0016	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
1,2-Dichloropropane	<0.00066		0.0025	0.00066	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
2-Butanone (MEK)	<0.0028		0.0064	0.0028	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
2-Hexanone	<0.0039		0.0064	0.0039	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0064	0.0045	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Acetone	**0.016**	**J**	0.025	0.011	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Benzene	**0.0012**	**J**	0.0025	0.00080	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Bromodichloromethane	<0.00082		0.0025	0.00082	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Bromoform	<0.0015	*+	0.0025	0.0015	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Bromomethane	<0.0031		0.0064	0.0031	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Carbon disulfide	**0.0039**	**J**	0.0064	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Carbon tetrachloride	<0.00087		0.0025	0.00087	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Chlorobenzene	<0.0011		0.0025	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Chloroethane	<0.0021		0.0064	0.0021	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Chloromethane	<0.0012		0.0064	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
cis-1,2-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Dibromochloromethane	<0.0012	*+	0.0025	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Ethylbenzene	**0.0043**		0.0025	0.0013	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Methyl tert-butyl ether	<0.00082		0.0025	0.00082	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Methylene Chloride	<0.0027		0.0064	0.0027	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Styrene	<0.0011	*+	0.0025	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Toluene	**0.0040**		0.0025	0.00051	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Xylenes, Total	**0.0049**	**J**	0.0051	0.00087	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
trans-1,2-Dichloroethene	<0.00096		0.0025	0.00096	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Trichloroethene	<0.00069		0.0025	0.00069	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 134*	*08/30/24 18:42*	*09/08/24 20:24*	*1*
4-Bromofluorobenzene (Surr)	*130*		*75 - 131*	*08/30/24 18:42*	*09/08/24 20:24*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*08/30/24 18:42*	*09/08/24 20:24*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*08/30/24 18:42*	*09/08/24 20:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0076		0.037	0.0076	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Acenaphthylene	**0.012**	**J**	0.037	0.0063	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Anthracene	**0.035**	**J**	0.037	0.0076	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Benzo[a]anthracene	**0.079**		0.037	0.0079	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Benzo[a]pyrene	**0.069**		0.037	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Benzo[b]fluoranthene	**0.12**		0.037	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Benzo[g,h,i]perylene	**0.078**		0.037	0.0080	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB6 (3-5)
Lab Sample ID: 500-255917-2
Date Collected: 08/29/24 09:58
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 86.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.030**	**J**	0.037	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Chrysene	**0.14**		0.037	0.0098	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Fluoranthene	**0.17**		0.037	0.0086	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Fluorene	**0.011**	**J**	0.037	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Indeno[1,2,3-cd]pyrene	**0.051**		0.037	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Naphthalene	**0.084**		0.037	0.0067	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Phenanthrene	**0.44**		0.037	0.0081	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Pyrene	**0.18**		0.037	0.010	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2,4-Dimethylphenol	<0.083		0.37	0.083	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2,4-Dinitrophenol	<0.21		0.75	0.21	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2,4-Dinitrotoluene	<0.021		0.19	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2-Methylnaphthalene	**0.16**		0.075	0.0075	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
3,3'-Dichlorobenzidine	<0.030		0.19	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
3 & 4 Methylphenol	<0.027		0.19	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
4,6-Dinitro-2-methylphenol	<0.21		0.75	0.21	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
4-Bromophenyl phenyl ether	<0.025		0.19	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
4-Chloro-3-methylphenol	<0.014		0.37	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
4-Chloroaniline	<0.39		0.75	0.39	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
4-Chlorophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
4-Nitroaniline	<0.027		0.37	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
4-Nitrophenol	<0.14		0.75	0.14	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Butyl benzyl phthalate	<0.018		0.19	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Dibenzofuran	**0.053**	**J**	0.19	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Dimethyl phthalate	<0.0081		0.19	0.0081	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Hexachlorobenzene	<0.0071		0.075	0.0071	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB6 (3-5)
Lab Sample ID: 500-255917-2
Date Collected: 08/29/24 09:58
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 86.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.75	0.39	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Isophorone	<0.019		0.19	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
N-Nitrosodi-n-propylamine	<0.0073		0.075	0.0073	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Pentachlorophenol	<0.093		0.75	0.093	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1
Phenol	<0.016		0.19	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*75*		*31 - 166*	*09/12/24 11:30*	*09/13/24 11:22*	*1*
Phenol-d5 (Surr)	*77*		*30 - 153*	*09/12/24 11:30*	*09/13/24 11:22*	*1*
Nitrobenzene-d5 (Surr)	*82*		*37 - 147*	*09/12/24 11:30*	*09/13/24 11:22*	*1*
2-Fluorobiphenyl (Surr)	*77*		*43 - 145*	*09/12/24 11:30*	*09/13/24 11:22*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*31 - 143*	*09/12/24 11:30*	*09/13/24 11:22*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*09/12/24 11:30*	*09/13/24 11:22*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0052		0.0097	0.0052	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
4,4'-DDE	<0.0050		0.0097	0.0050	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
4,4'-DDT	<0.0046		0.0097	0.0046	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
Aldrin	<0.0067		0.0097	0.0067	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
alpha-BHC	<0.0054		0.0097	0.0054	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
alpha-Chlordane	<0.0052		0.0097	0.0052	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
beta-BHC	<0.0078		0.0097	0.0078	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
Chlordane (technical)	<0.018		0.038	0.018	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
delta-BHC	<0.0092		0.019	0.0092	mg/Kg	☼	09/11/24 07:33	09/17/24 15:21	10
Dieldrin	<0.0051		0.0097	0.0051	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
Endosulfan I	<0.0052		0.0097	0.0052	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
Endosulfan II	<0.0053		0.0097	0.0053	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
Endosulfan sulfate	<0.011		0.019	0.011	mg/Kg	☼	09/11/24 07:33	09/17/24 15:21	10
Endrin	<0.0049		0.0097	0.0049	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/11/24 07:33	09/17/24 15:21	10
Endrin ketone	<0.0047		0.0097	0.0047	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
gamma-BHC (Lindane)	<0.0048		0.0097	0.0048	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
gamma-Chlordane	<0.0056		0.0097	0.0056	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
Heptachlor	<0.0052		0.0097	0.0052	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
Heptachlor epoxide	<0.0052		0.0097	0.0052	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
Methoxychlor	<0.0064		0.048	0.0064	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5
Toxaphene	<0.039		0.096	0.039	mg/Kg	☼	09/11/24 07:33	09/17/24 15:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*118*		*33 - 148*	*09/11/24 07:33*	*09/17/24 15:21*	*10*
Tetrachloro-m-xylene	*96*		*30 - 121*	*09/11/24 07:33*	*09/17/24 15:21*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:28	1
PCB-1221	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:28	1

Client Sample ID: SB6 (3-5)
Date Collected: 08/29/24 09:58
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-2
Matrix: Solid
Percent Solids: 86.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:28	1
PCB-1242	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:28	1
PCB-1248	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:28	1
PCB-1254	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:28	1
PCB-1260	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:28	1
Polychlorinated biphenyls, Total	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*49 - 129*	*09/11/24 07:33*	*09/13/24 17:28*	*1*
DCB Decachlorobiphenyl	*50*		*37 - 121*	*09/11/24 07:33*	*09/13/24 17:28*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16000		22		mg/Kg	☼	09/16/24 09:08	09/17/24 02:38	1
Antimony	16		2.2		mg/Kg	☼	09/16/24 09:08	09/17/24 02:38	1
Arsenic	12		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:38	1
Barium	200		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:38	1
Beryllium	2.6		0.44		mg/Kg	☼	09/16/24 09:08	09/17/24 02:38	1
Cadmium	3.3		0.22		mg/Kg	☼	09/16/24 09:08	09/17/24 02:38	1
Calcium	81000	B	44		mg/Kg	☼	09/16/24 09:08	09/17/24 13:58	2
Chromium	15		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:38	1
Cobalt	4.9		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 13:58	2
Copper	3100		22		mg/Kg	☼	09/16/24 09:08	09/17/24 14:02	20
Iron	52000		22		mg/Kg	☼	09/16/24 09:08	09/17/24 02:38	1
Lead	290		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 13:58	2
Magnesium	15000		11		mg/Kg	☼	09/16/24 09:08	09/17/24 02:38	1
Manganese	7500	B	22		mg/Kg	☼	09/16/24 09:08	09/17/24 14:02	20
Nickel	13		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:38	1
Potassium	2200		54		mg/Kg	☼	09/16/24 09:08	09/17/24 02:38	1
Selenium	3.0		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:38	1
Silver	1.2		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 13:58	2
Sodium	900		220		mg/Kg	☼	09/16/24 09:08	09/17/24 13:58	2
Thallium	33		22		mg/Kg	☼	09/16/24 09:08	09/17/24 14:02	20
Vanadium	27		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 13:58	2
Zinc	3300		4.4		mg/Kg	☼	09/16/24 09:08	09/17/24 13:58	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.086		0.018		mg/Kg	☼	09/17/24 17:05	09/18/24 08:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	25		2.6		mg/Kg	☼	09/03/24 01:11	09/03/24 16:47	10
Sulfide (SW846 9034)	580		35		mg/Kg	☼	09/05/24 07:21	09/05/24 13:16	1
pH (SW846 9045D)	8.09		0.20		SU			09/05/24 11:59	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB7 (0-3)
Lab Sample ID: 500-255917-3
Date Collected: 08/29/24 10:36
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 90.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0026	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
1,1,2,2-Tetrachloroethane	<0.0013	*3	0.0026	0.0013	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
1,1,2-Trichloroethane	<0.00096		0.0026	0.00096	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
1,1-Dichloroethane	<0.00097		0.0026	0.00097	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
1,1-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
1,2-Dichloroethane	<0.0017		0.0064	0.0017	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
1,2-Dichloropropane	<0.00066		0.0026	0.00066	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
2-Butanone (MEK)	<0.0028		0.0064	0.0028	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
2-Hexanone	<0.0039		0.0064	0.0039	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0064	0.0046	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Acetone	<0.011		0.026	0.011	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Benzene	<0.00081		0.0026	0.00081	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Bromodichloromethane	<0.00083		0.0026	0.00083	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Bromoform	<0.0015	*+	0.0026	0.0015	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Bromomethane	<0.0032		0.0064	0.0032	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Carbon disulfide	**0.0037**	**J**	0.0064	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Carbon tetrachloride	<0.00088		0.0026	0.00088	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Chlorobenzene	<0.0011		0.0026	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Chloroethane	<0.0021		0.0064	0.0021	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Chloroform	<0.0018		0.0026	0.0018	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Chloromethane	<0.0012		0.0064	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
cis-1,2-Dichloroethene	<0.0010		0.0026	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
1,3-Dichloropropene, Total	<0.0012		0.0026	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Dibromochloromethane	<0.0012	*+	0.0026	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Ethylbenzene	<0.0014		0.0026	0.0014	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Methyl tert-butyl ether	<0.00083		0.0026	0.00083	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Methylene Chloride	<0.0027		0.0064	0.0027	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Styrene	<0.0012	*+	0.0026	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Tetrachloroethene	<0.0014		0.0026	0.0014	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Toluene	**0.00058**	**J**	0.0026	0.00052	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Xylenes, Total	<0.00088		0.0051	0.00088	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
trans-1,2-Dichloroethene	<0.00097		0.0026	0.00097	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Trichloroethene	<0.00070		0.0026	0.00070	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1
Vinyl chloride	<0.0011		0.0026	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 134*	*08/30/24 18:42*	*09/08/24 20:49*	*1*
4-Bromofluorobenzene (Surr)	*127*	*3*	*75 - 131*	*08/30/24 18:42*	*09/08/24 20:49*	*1*
Dibromofluoromethane	*114*		*75 - 126*	*08/30/24 18:42*	*09/08/24 20:49*	*1*
Toluene-d8 (Surr)	*127*	*S1+*	*75 - 124*	*08/30/24 18:42*	*09/08/24 20:49*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.043**	**J**	0.073	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Acenaphthylene	**0.13**		0.073	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Anthracene	**0.16**		0.073	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Benzo[a]anthracene	**0.37**		0.073	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Benzo[a]pyrene	**0.38**		0.073	0.070	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Benzo[b]fluoranthene	**0.74**		0.073	0.070	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Benzo[g,h,i]perylene	**0.40**		0.073	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB7 (0-3)
Lab Sample ID: 500-255917-3
Date Collected: 08/29/24 10:36
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 90.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.23**		0.073	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Chrysene	**0.47**		0.073	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Dibenz(a,h)anthracene	**0.10**		0.073	0.073	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Fluoranthene	**0.82**		0.073	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Fluorene	**0.033**	**J**	0.073	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Indeno[1,2,3-cd]pyrene	**0.40**		0.073	0.071	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Naphthalene	**0.18**		0.073	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Phenanthrene	**0.94**		0.073	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Pyrene	**0.68**		0.073	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
1,2,4-Trichlorobenzene	<0.052		0.37	0.052	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
1,3-Dichlorobenzene	<0.033		0.37	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
1,4-Dichlorobenzene	<0.035		0.37	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2,4,5-Trichlorophenol	<0.028		0.73	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2,4,6-Trichlorophenol	<0.025		0.73	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2,4-Dichlorophenol	<0.026		0.73	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2,4-Dimethylphenol	<0.16		0.73	0.16	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2,4-Dinitrotoluene	<0.042		0.37	0.042	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2-Chloronaphthalene	<0.027		0.37	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2-Chlorophenol	<0.024		0.37	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2-Methylnaphthalene	**0.26**		0.15	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2-Methylphenol	<0.039		0.37	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2-Nitroaniline	<0.039		0.37	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
2-Nitrophenol	<0.050		0.73	0.050	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
3,3'-Dichlorobenzidine	<0.060		0.37	0.060	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
3 & 4 Methylphenol	<0.053		0.37	0.053	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
3-Nitroaniline	<0.033		0.73	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
4-Bromophenyl phenyl ether	<0.050		0.37	0.050	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
4-Chloro-3-methylphenol	<0.028		0.73	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
4-Chloroaniline	<0.77		1.5	0.77	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
4-Chlorophenyl phenyl ether	<0.096		0.37	0.096	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
4-Nitroaniline	<0.054		0.73	0.054	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Bis(2-chloroethoxy)methane	<0.027		0.37	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Bis(2-chloroethyl)ether	<0.034		0.37	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
bis(chloroisopropyl) ether	<0.052		0.37	0.052	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Bis(2-ethylhexyl) phthalate	<0.29		0.37	0.29	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Butyl benzyl phthalate	<0.036		0.37	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Carbazole	**0.066**	**J**	0.37	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Dibenzofuran	**0.12**	**J**	0.37	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Diethyl phthalate	<0.033		0.37	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Di-n-butyl phthalate	<0.023		0.37	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Di-n-octyl phthalate	<0.51		0.73	0.51	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Hexachlorobutadiene	<0.041		0.37	0.041	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2

Client Sample ID: SB7 (0-3)
Date Collected: 08/29/24 10:36
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-3
Matrix: Solid
Percent Solids: 90.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.77		1.5	0.77	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Hexachloroethane	<0.037		0.37	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Isophorone	<0.038		0.37	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Nitrobenzene	<0.023		0.073	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
N-Nitrosodiphenylamine	<0.043		0.37	0.043	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2
Phenol	<0.032		0.37	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 14:36	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*54*		*31 - 166*	*09/12/24 11:30*	*09/13/24 14:36*	*2*
Phenol-d5 (Surr)	*59*		*30 - 153*	*09/12/24 11:30*	*09/13/24 14:36*	*2*
Nitrobenzene-d5 (Surr)	*61*		*37 - 147*	*09/12/24 11:30*	*09/13/24 14:36*	*2*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*09/12/24 11:30*	*09/13/24 14:36*	*2*
2,4,6-Tribromophenol (Surr)	*44*		*31 - 143*	*09/12/24 11:30*	*09/13/24 14:36*	*2*
Terphenyl-d14 (Surr)	*59*		*42 - 157*	*09/12/24 11:30*	*09/13/24 14:36*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0098		0.018	0.0098	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
4,4'-DDE	<0.0094		0.018	0.0094	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
4,4'-DDT	<0.0087		0.018	0.0087	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
alpha-Chlordane	<0.0098		0.018	0.0098	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
delta-BHC	<0.0088		0.018	0.0088	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Dieldrin	<0.0096		0.018	0.0096	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Endosulfan I	<0.0099		0.018	0.0099	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Endosulfan II	<0.010		0.018	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Endrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Endrin ketone	<0.0089		0.018	0.0089	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
gamma-BHC (Lindane)	<0.0091		0.018	0.0091	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
gamma-Chlordane	<0.011		0.018	0.011	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Heptachlor	<0.0099		0.018	0.0099	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Heptachlor epoxide	<0.0099		0.018	0.0099	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Methoxychlor	<0.012		0.090	0.012	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10
Toxaphene	<0.073		0.18	0.073	mg/Kg	☼	09/11/24 07:33	09/13/24 14:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*453*	*S1+*	*33 - 148*	*09/11/24 07:33*	*09/13/24 14:21*	*10*
Tetrachloro-m-xylene	*87*		*30 - 121*	*09/11/24 07:33*	*09/13/24 14:21*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 17:43	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 17:43	1

Client Sample ID: SB7 (0-3)
Date Collected: 08/29/24 10:36
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-3
Matrix: Solid
Percent Solids: 90.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 17:43	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 17:43	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 17:43	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 17:43	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 17:43	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*49 - 129*	*09/11/24 07:33*	*09/13/24 17:43*	*1*
DCB Decachlorobiphenyl	*55*		*37 - 121*	*09/11/24 07:33*	*09/13/24 17:43*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		21		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Antimony	<2.1		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Arsenic	**8.1**		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Barium	**130**		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Beryllium	**2.2**		0.43		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Cadmium	**0.61**		0.21		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Calcium	**54000**	**B**	21		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Chromium	**67**		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Cobalt	**5.7**		0.54		mg/Kg	☼	09/16/24 09:08	09/17/24 14:07	1
Copper	**69**		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Iron	**43000**		21		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Lead	**130**		0.54		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Magnesium	**13000**		11		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Manganese	**1800**	**B**	1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 14:07	1
Nickel	**32**		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Potassium	**900**		54		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Selenium	**1.9**		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Silver	<0.54		0.54		mg/Kg	☼	09/16/24 09:08	09/17/24 14:07	1
Sodium	**510**		110		mg/Kg	☼	09/16/24 09:08	09/17/24 14:07	1
Thallium	**4.8**		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1
Vanadium	**21**		0.54		mg/Kg	☼	09/16/24 09:08	09/17/24 14:07	1
Zinc	**120**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 02:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.054**		0.017		mg/Kg	☼	09/17/24 17:05	09/18/24 08:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.6**		0.25		mg/Kg	☼	09/03/24 01:11	09/03/24 15:11	1
pH (SW846 9045D)	**8.39**		0.20		SU			09/05/24 12:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB7 (10-12.5)
Date Collected: 08/29/24 10:42
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-4
Matrix: Solid
Percent Solids: 83.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00099		0.0024	0.00099	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
1,1,2-Trichloroethane	<0.00092		0.0024	0.00092	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
1,1-Dichloroethane	<0.00092		0.0024	0.00092	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
1,1-Dichloroethene	<0.0010		0.0024	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
1,2-Dichloroethane	<0.0016		0.0061	0.0016	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
1,2-Dichloropropane	<0.00063		0.0024	0.00063	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
2-Butanone (MEK)	<0.0027		0.0061	0.0027	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
2-Hexanone	<0.0037		0.0061	0.0037	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0061	0.0043	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Acetone	<0.010		0.024	0.010	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Benzene	<0.00077		0.0024	0.00077	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Bromodichloromethane	<0.00078		0.0024	0.00078	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Bromoform	<0.0014	*+	0.0024	0.0014	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Bromomethane	<0.0030		0.0061	0.0030	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Carbon disulfide	**0.0039**	**J**	0.0061	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Carbon tetrachloride	<0.00083		0.0024	0.00083	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Chloroethane	<0.0020		0.0061	0.0020	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Chloroform	<0.0018		0.0024	0.0018	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Chloromethane	<0.0012		0.0061	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
cis-1,2-Dichloroethene	<0.00099		0.0024	0.00099	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
1,3-Dichloropropene, Total	<0.0012		0.0024	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Dibromochloromethane	<0.0011	*+	0.0024	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Ethylbenzene	<0.0013		0.0024	0.0013	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Methyl tert-butyl ether	<0.00079		0.0024	0.00079	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Methylene Chloride	<0.0026		0.0061	0.0026	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Styrene	<0.0011	*+	0.0024	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Tetrachloroethene	<0.0014		0.0024	0.0014	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Toluene	**0.0011**	**J**	0.0024	0.00049	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Xylenes, Total	<0.00084		0.0049	0.00084	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
trans-1,2-Dichloroethene	<0.00092		0.0024	0.00092	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Trichloroethene	<0.00066		0.0024	0.00066	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1
Vinyl chloride	<0.0010		0.0024	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 134*	*08/30/24 18:42*	*09/08/24 21:13*	*1*
4-Bromofluorobenzene (Surr)	*115*		*75 - 131*	*08/30/24 18:42*	*09/08/24 21:13*	*1*
Dibromofluoromethane	*112*		*75 - 126*	*08/30/24 18:42*	*09/08/24 21:13*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*08/30/24 18:42*	*09/08/24 21:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0077		0.038	0.0077	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Acenaphthylene	<0.0065		0.038	0.0065	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Anthracene	<0.0078		0.038	0.0078	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Benzo[a]anthracene	<0.0081		0.038	0.0081	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Benzo[a]pyrene	<0.037		0.038	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Benzo[b]fluoranthene	<0.036		0.038	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Benzo[g,h,i]perylene	<0.0082		0.038	0.0082	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB7 (10-12.5)
Lab Sample ID: 500-255917-4
Date Collected: 08/29/24 10:42
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 83.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.014		0.038	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Chrysene	<0.010		0.038	0.010	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Fluoranthene	<0.0088		0.038	0.0088	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Fluorene	<0.011		0.038	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Indeno[1,2,3-cd]pyrene	<0.037		0.038	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Naphthalene	<0.0069		0.038	0.0069	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Phenanthrene	<0.0083		0.038	0.0083	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Pyrene	<0.010		0.038	0.010	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2,4,5-Trichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2,4,6-Trichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2,4-Dichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2,4-Dimethylphenol	<0.085		0.38	0.085	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2,4-Dinitrophenol	<0.22		0.77	0.22	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2,4-Dinitrotoluene	<0.022		0.19	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2-Methylnaphthalene	<0.0076		0.077	0.0076	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
2-Nitrophenol	<0.026		0.38	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
3 & 4 Methylphenol	<0.028		0.19	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
3-Nitroaniline	<0.017		0.38	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
4,6-Dinitro-2-methylphenol	<0.21		0.77	0.21	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
4-Chloro-3-methylphenol	<0.015		0.38	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
4-Chloroaniline	<0.40		0.77	0.40	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
4-Chlorophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
4-Nitroaniline	<0.028		0.38	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
4-Nitrophenol	<0.14		0.77	0.14	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Bis(2-chloroethyl)ether	<0.018		0.19	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Dibenzofuran	<0.014		0.19	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Dimethyl phthalate	<0.0083		0.19	0.0083	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Di-n-octyl phthalate	<0.27		0.38	0.27	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Hexachlorobenzene	<0.0073		0.077	0.0073	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1

Client Sample ID: SB7 (10-12.5)
Lab Sample ID: 500-255917-4
Date Collected: 08/29/24 10:42
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 83.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.40		0.77	0.40	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Isophorone	<0.020		0.19	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Nitrobenzene	<0.012		0.038	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
N-Nitrosodi-n-propylamine	<0.0075		0.077	0.0075	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
N-Nitrosodiphenylamine	<0.023		0.19	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Pentachlorophenol	<0.095		0.77	0.095	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1
Phenol	<0.017		0.19	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*84*		*31 - 166*	*09/12/24 11:30*	*09/13/24 11:47*	*1*
Phenol-d5 (Surr)	*86*		*30 - 153*	*09/12/24 11:30*	*09/13/24 11:47*	*1*
Nitrobenzene-d5 (Surr)	*89*		*37 - 147*	*09/12/24 11:30*	*09/13/24 11:47*	*1*
2-Fluorobiphenyl (Surr)	*79*		*43 - 145*	*09/12/24 11:30*	*09/13/24 11:47*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*31 - 143*	*09/12/24 11:30*	*09/13/24 11:47*	*1*
Terphenyl-d14 (Surr)	*89*		*42 - 157*	*09/12/24 11:30*	*09/13/24 11:47*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0011		0.0020	0.0011	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
4,4'-DDE	<0.0010		0.0020	0.0010	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
4,4'-DDT	<0.00093		0.0020	0.00093	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Aldrin	<0.0014		0.0020	0.0014	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
alpha-BHC	<0.0011		0.0020	0.0011	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
alpha-Chlordane	<0.0010		0.0020	0.0010	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
beta-BHC	<0.0016		0.0020	0.0016	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Chlordane (technical)	<0.0037		0.0078	0.0037	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
delta-BHC	<0.00094		0.0020	0.00094	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Dieldrin	<0.0010		0.0020	0.0010	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Endosulfan I	<0.0011		0.0020	0.0011	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Endosulfan II	<0.0011		0.0020	0.0011	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Endosulfan sulfate	<0.0011		0.0020	0.0011	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Endrin	<0.0010		0.0020	0.0010	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Endrin aldehyde	<0.0011		0.0020	0.0011	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Endrin ketone	<0.00095		0.0020	0.00095	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
gamma-BHC (Lindane)	<0.00097		0.0020	0.00097	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
gamma-Chlordane	<0.0011		0.0020	0.0011	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Heptachlor	<0.0011		0.0020	0.0011	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Heptachlor epoxide	<0.0011		0.0020	0.0011	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Methoxychlor	<0.0013		0.0096	0.0013	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1
Toxaphene	<0.0078		0.019	0.0078	mg/Kg	☼	09/11/24 07:33	09/13/24 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*33 - 148*	*09/11/24 07:33*	*09/13/24 14:33*	*1*
Tetrachloro-m-xylene	*60*		*30 - 121*	*09/11/24 07:33*	*09/13/24 14:33*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:58	1
PCB-1221	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:58	1

Client Sample ID: SB7 (10-12.5)
Lab Sample ID: 500-255917-4
Date Collected: 08/29/24 10:42
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 83.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:58	1
PCB-1242	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:58	1
PCB-1248	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:58	1
PCB-1254	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:58	1
PCB-1260	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:58	1
Polychlorinated biphenyls, Total	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/13/24 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*49 - 129*	*09/11/24 07:33*	*09/13/24 17:58*	*1*
DCB Decachlorobiphenyl	*61*		*37 - 121*	*09/11/24 07:33*	*09/13/24 17:58*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1600**		23		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Antimony	<2.3		2.3		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Arsenic	**1.5**		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Barium	**4.9**		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Beryllium	<0.47		0.47		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Cadmium	<0.23		0.23		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Calcium	**59000**	**B**	23		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Chromium	**4.7**		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Cobalt	**2.3**		0.58		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Copper	**2.4**		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Iron	**4800**		23		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Lead	**1.8**		0.58		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Magnesium	**29000**		12		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Manganese	**220**	**B**	1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 14:11	1
Nickel	**3.9**		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Potassium	**410**		58		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Selenium	<1.2		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Silver	<0.58		0.58		mg/Kg	☼	09/16/24 09:08	09/17/24 14:11	1
Sodium	**190**		120		mg/Kg	☼	09/16/24 09:08	09/17/24 14:11	1
Thallium	<1.2		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Vanadium	**11**		0.58		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1
Zinc	**22**		2.3		mg/Kg	☼	09/16/24 09:08	09/17/24 02:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019		mg/Kg	☼	09/17/24 17:05	09/18/24 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28		mg/Kg	☼	09/03/24 01:11	09/03/24 15:20	1
pH (SW846 9045D)	**8.24**		0.20		SU			09/05/24 12:03	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB8 (0-3)
Lab Sample ID: 500-255917-5
Date Collected: 08/29/24 12:36
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00087		0.0022	0.00087	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
1,1-Dichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
1,1-Dichloroethene	<0.00088		0.0022	0.00088	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
2-Butanone (MEK)	<0.0024		0.0054	0.0024	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0054	0.0038	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Acetone	<0.0090		0.022	0.0090	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Benzene	<0.00068		0.0022	0.00068	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Bromodichloromethane	<0.00069		0.0022	0.00069	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Bromoform	<0.0013	*+	0.0022	0.0013	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Bromomethane	<0.0026		0.0054	0.0026	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Carbon disulfide	<0.00099		0.0054	0.00099	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Carbon tetrachloride	<0.00073		0.0022	0.00073	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Chlorobenzene	<0.00091		0.0022	0.00091	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Chloroform	<0.0015		0.0022	0.0015	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Chloromethane	<0.0010		0.0054	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
cis-1,2-Dichloroethene	<0.00087		0.0022	0.00087	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Dibromochloromethane	<0.0010	*+	0.0022	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Methyl tert-butyl ether	<0.00069		0.0022	0.00069	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Styrene	<0.00097	*+	0.0022	0.00097	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Toluene	<0.00043		0.0022	0.00043	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Xylenes, Total	<0.00074		0.0043	0.00074	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
trans-1,2-Dichloroethene	<0.00081		0.0022	0.00081	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Trichloroethene	<0.00059		0.0022	0.00059	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1
Vinyl chloride	<0.00088		0.0022	0.00088	mg/Kg	☼	08/30/24 18:42	09/08/24 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 134*	*08/30/24 18:42*	*09/08/24 21:38*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*08/30/24 18:42*	*09/08/24 21:38*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*08/30/24 18:42*	*09/08/24 21:38*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*08/30/24 18:42*	*09/08/24 21:38*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.014		0.069	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Acenaphthylene	<0.012		0.069	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Anthracene	<0.014		0.069	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Benzo[a]anthracene	**0.056**	**J**	0.069	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Benzo[a]pyrene	<0.067		0.069	0.067	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Benzo[b]fluoranthene	**0.080**		0.069	0.066	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Benzo[g,h,i]perylene	**0.047**	**J**	0.069	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB8 (0-3)
Lab Sample ID: 500-255917-5
Date Collected: 08/29/24 12:36
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.035**	**J**	0.069	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Chrysene	**0.070**		0.069	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Dibenz(a,h)anthracene	<0.069		0.069	0.069	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Fluoranthene	**0.073**		0.069	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Fluorene	<0.020		0.069	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Indeno[1,2,3-cd]pyrene	<0.067		0.069	0.067	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Naphthalene	<0.012		0.069	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Phenanthrene	**0.061**	**J**	0.069	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Pyrene	**0.068**	**J**	0.069	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
1,2,4-Trichlorobenzene	<0.049		0.35	0.049	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
1,3-Dichlorobenzene	<0.031		0.35	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2,4,5-Trichlorophenol	<0.026		0.69	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2,4,6-Trichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2,4-Dichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2,4-Dimethylphenol	<0.15		0.69	0.15	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2,4-Dinitrotoluene	<0.039		0.35	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2-Chlorophenol	<0.022		0.35	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2-Methylnaphthalene	**0.014**	**J**	0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2-Methylphenol	<0.036		0.35	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
2-Nitrophenol	<0.047		0.69	0.047	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
3,3'-Dichlorobenzidine	<0.056		0.35	0.056	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
3-Nitroaniline	<0.031		0.69	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
4-Bromophenyl phenyl ether	<0.047		0.35	0.047	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
4-Chloro-3-methylphenol	<0.027		0.69	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
4-Chloroaniline	<0.72		1.4	0.72	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
4-Chlorophenyl phenyl ether	<0.090		0.35	0.090	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
4-Nitroaniline	<0.051		0.69	0.051	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Butyl benzyl phthalate	<0.034		0.35	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Carbazole	<0.027		0.35	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Dibenzofuran	<0.025		0.35	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Di-n-octyl phthalate	<0.48		0.69	0.48	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB8 (0-3)
Lab Sample ID: 500-255917-5
Date Collected: 08/29/24 12:36
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.73		1.4	0.73	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Nitrobenzene	<0.022		0.069	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 15:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*67*		*31 - 166*	*09/12/24 11:30*	*09/13/24 15:00*	*2*
Phenol-d5 (Surr)	*67*		*30 - 153*	*09/12/24 11:30*	*09/13/24 15:00*	*2*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*09/12/24 11:30*	*09/13/24 15:00*	*2*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/12/24 11:30*	*09/13/24 15:00*	*2*
2,4,6-Tribromophenol (Surr)	*64*		*31 - 143*	*09/12/24 11:30*	*09/13/24 15:00*	*2*
Terphenyl-d14 (Surr)	*72*		*42 - 157*	*09/12/24 11:30*	*09/13/24 15:00*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
4,4'-DDE	**0.0040**		0.0018	0.00092	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
4,4'-DDT	**0.0029**		0.0018	0.00085	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
Aldrin	<0.0012		0.0018	0.0012	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
alpha-BHC	<0.0010		0.0018	0.0010	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
alpha-Chlordane	<0.00095		0.0018	0.00095	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
beta-BHC	<0.0014		0.0018	0.0014	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
Chlordane (technical)	<0.0034		0.0071	0.0034	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
delta-BHC	<0.0043		0.0090	0.0043	mg/Kg	☼	09/11/24 07:33	09/16/24 17:11	5
Dieldrin	<0.00093		0.0018	0.00093	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
Endosulfan I	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
Endosulfan II	<0.00098		0.0018	0.00098	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
Endosulfan sulfate	<0.0049		0.0090	0.0049	mg/Kg	☼	09/11/24 07:33	09/16/24 17:11	5
Endrin	<0.00091		0.0018	0.00091	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
Endrin aldehyde	<0.0051		0.0090	0.0051	mg/Kg	☼	09/11/24 07:33	09/16/24 17:11	5
Endrin ketone	<0.00087		0.0018	0.00087	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
gamma-BHC (Lindane)	<0.00089		0.0018	0.00089	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
gamma-Chlordane	**0.0015**	**J**	0.0018	0.0010	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
Heptachlor	<0.00097		0.0018	0.00097	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
Heptachlor epoxide	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
Methoxychlor	<0.0012		0.0088	0.0012	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1
Toxaphene	<0.0071		0.018	0.0071	mg/Kg	☼	09/11/24 07:33	09/16/24 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*33 - 148*	*09/11/24 07:33*	*09/16/24 16:59*	*1*
DCB Decachlorobiphenyl	*97*		*33 - 148*	*09/11/24 07:33*	*09/16/24 17:11*	*5*
Tetrachloro-m-xylene	*52*		*30 - 121*	*09/11/24 07:33*	*09/16/24 16:59*	*1*
Tetrachloro-m-xylene	*51*		*30 - 121*	*09/11/24 07:33*	*09/16/24 17:11*	*5*

Client Sample ID: SB8 (0-3)
Lab Sample ID: 500-255917-5

Date Collected: 08/29/24 12:36
Matrix: Solid

Date Received: 08/30/24 12:00
Percent Solids: 91.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:13	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:13	1
PCB-1232	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:13	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:13	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:13	1
PCB-1254	**0.021**		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:13	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:13	1
Polychlorinated biphenyls, Total	**0.021**		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*49 - 129*	*09/11/24 07:33*	*09/13/24 18:13*	*1*
DCB Decachlorobiphenyl	*39*		*37 - 121*	*09/11/24 07:33*	*09/13/24 18:13*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 02:52	1
Antimony	<1.9		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 02:52	1
Arsenic	**4.0**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 14:16	2
Barium	**130**		0.96		mg/Kg	☼	09/16/24 09:08	09/17/24 02:52	1
Beryllium	**2.3**		0.39		mg/Kg	☼	09/16/24 09:08	09/17/24 02:52	1
Cadmium	**0.68**		0.19		mg/Kg	☼	09/16/24 09:08	09/17/24 02:52	1
Calcium	**180000**	**B**	190		mg/Kg	☼	09/16/24 09:08	09/17/24 14:20	10
Chromium	**340**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 14:16	2
Cobalt	**3.0**		0.96		mg/Kg	☼	09/16/24 09:08	09/17/24 14:16	2
Copper	**23**		0.96		mg/Kg	☼	09/16/24 09:08	09/17/24 02:52	1
Iron	**32000**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 02:52	1
Lead	**96**		0.96		mg/Kg	☼	09/16/24 09:08	09/17/24 14:16	2
Magnesium	**42000**		9.6		mg/Kg	☼	09/16/24 09:08	09/17/24 02:52	1
Manganese	**9600**	**B**	9.6		mg/Kg	☼	09/16/24 09:08	09/17/24 14:20	10
Nickel	**15**		0.96		mg/Kg	☼	09/16/24 09:08	09/17/24 02:52	1
Potassium	**830**		48		mg/Kg	☼	09/16/24 09:08	09/17/24 02:52	1
Selenium	**4.0**		0.96		mg/Kg	☼	09/16/24 09:08	09/17/24 02:52	1
Silver	<0.96		0.96		mg/Kg	☼	09/16/24 09:08	09/17/24 14:16	2
Sodium	**770**		190		mg/Kg	☼	09/16/24 09:08	09/17/24 14:16	2
Thallium	**45**		9.6		mg/Kg	☼	09/16/24 09:08	09/17/24 14:20	10
Vanadium	**100**		0.96		mg/Kg	☼	09/16/24 09:08	09/17/24 14:16	2
Zinc	**89**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 02:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/17/24 17:05	09/18/24 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**32**		2.5		mg/Kg	☼	09/03/24 01:11	09/03/24 16:53	10
pH (SW846 9045D)	**8.57**		0.20		SU			09/05/24 12:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB8 (5-7.5)
Lab Sample ID: 500-255917-6
Date Collected: 08/29/24 12:45
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00082		0.0020	0.00082	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0020	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
1,1,2-Trichloroethane	<0.00076		0.0020	0.00076	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
1,1-Dichloroethane	<0.00076		0.0020	0.00076	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
1,1-Dichloroethene	<0.00083		0.0020	0.00083	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
1,2-Dichloroethane	<0.0013		0.0051	0.0013	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
2-Butanone (MEK)	<0.0022		0.0051	0.0022	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
2-Hexanone	<0.0031		0.0051	0.0031	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0051	0.0036	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Acetone	<0.0085		0.020	0.0085	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Benzene	<0.00064		0.0020	0.00064	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Bromodichloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Bromoform	<0.0012	*+	0.0020	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Bromomethane	<0.0025		0.0051	0.0025	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Carbon disulfide	<0.00093		0.0051	0.00093	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Carbon tetrachloride	<0.00069		0.0020	0.00069	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Chlorobenzene	<0.00085		0.0020	0.00085	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Chloroethane	<0.0017		0.0051	0.0017	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Chloroform	<0.0015		0.0020	0.0015	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Chloromethane	<0.00098		0.0051	0.00098	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
cis-1,2-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
1,3-Dichloropropene, Total	<0.00097		0.0020	0.00097	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Dibromochloromethane	<0.00094	*+	0.0020	0.00094	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Methylene Chloride	<0.0022		0.0051	0.0022	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Styrene	<0.00091	*+	0.0020	0.00091	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Toluene	<0.00041		0.0020	0.00041	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Trichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1
Vinyl chloride	<0.00083		0.0020	0.00083	mg/Kg	☼	08/30/24 18:42	09/08/24 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 134*	*08/30/24 18:42*	*09/08/24 22:03*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*08/30/24 18:42*	*09/08/24 22:03*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*08/30/24 18:42*	*09/08/24 22:03*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*08/30/24 18:42*	*09/08/24 22:03*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.035	0.0072	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Acenaphthylene	<0.0060		0.035	0.0060	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Anthracene	<0.0072		0.035	0.0072	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Benzo[a]anthracene	<0.0075		0.035	0.0075	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Benzo[a]pyrene	<0.034		0.035	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Benzo[b]fluoranthene	<0.034		0.035	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Benzo[g,h,i]perylene	<0.0076		0.035	0.0076	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB8 (5-7.5)
Lab Sample ID: 500-255917-6
Date Collected: 08/29/24 12:45
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.035	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Chrysene	<0.0093		0.035	0.0093	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Fluoranthene	<0.0082		0.035	0.0082	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Indeno[1,2,3-cd]pyrene	<0.034		0.035	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Naphthalene	<0.0064		0.035	0.0064	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Phenanthrene	<0.0077		0.035	0.0077	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Pyrene	<0.0096		0.035	0.0096	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2,4-Dimethylphenol	<0.079		0.35	0.079	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2,4-Dinitrophenol	<0.20		0.71	0.20	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2-Methylnaphthalene	<0.0071		0.071	0.0071	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
4,6-Dinitro-2-methylphenol	<0.20		0.71	0.20	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
4-Chloroaniline	<0.37		0.71	0.37	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
4-Nitrophenol	<0.13		0.71	0.13	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Diethyl phthalate	**0.017**	**J B**	0.18	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Dimethyl phthalate	<0.0076		0.18	0.0076	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Hexachlorobenzene	<0.0067		0.071	0.0067	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB8 (5-7.5)
Lab Sample ID: 500-255917-6
Date Collected: 08/29/24 12:45
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.71	0.37	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
N-Nitrosodi-n-propylamine	<0.0069		0.071	0.0069	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Pentachlorophenol	<0.088		0.71	0.088	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*72*		*31 - 166*	*09/12/24 11:30*	*09/13/24 12:11*	*1*
Phenol-d5 (Surr)	*71*		*30 - 153*	*09/12/24 11:30*	*09/13/24 12:11*	*1*
Nitrobenzene-d5 (Surr)	*75*		*37 - 147*	*09/12/24 11:30*	*09/13/24 12:11*	*1*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*	*09/12/24 11:30*	*09/13/24 12:11*	*1*
2,4,6-Tribromophenol (Surr)	*56*		*31 - 143*	*09/12/24 11:30*	*09/13/24 12:11*	*1*
Terphenyl-d14 (Surr)	*80*		*42 - 157*	*09/12/24 11:30*	*09/13/24 12:11*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00095		0.0018	0.00095	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
4,4'-DDE	<0.00091		0.0018	0.00091	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
4,4'-DDT	<0.00084		0.0018	0.00084	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Aldrin	<0.0012		0.0018	0.0012	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
alpha-BHC	<0.0010		0.0018	0.0010	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
alpha-Chlordane	<0.00095		0.0018	0.00095	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
beta-BHC	<0.0014		0.0018	0.0014	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Chlordane (technical)	<0.0034		0.0071	0.0034	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
delta-BHC	<0.00085		0.0018	0.00085	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Dieldrin	<0.00093		0.0018	0.00093	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Endosulfan I	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Endosulfan II	<0.00097		0.0018	0.00097	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Endosulfan sulfate	<0.00098		0.0018	0.00098	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Endrin	<0.00091		0.0018	0.00091	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Endrin aldehyde	<0.0010		0.0018	0.0010	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Endrin ketone	<0.00086		0.0018	0.00086	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
gamma-BHC (Lindane)	<0.00088		0.0018	0.00088	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Heptachlor	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Heptachlor epoxide	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Methoxychlor	<0.0012		0.0087	0.0012	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1
Toxaphene	<0.0071		0.018	0.0071	mg/Kg	☼	09/11/24 07:33	09/13/24 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*33 - 148*	*09/11/24 07:33*	*09/13/24 14:56*	*1*
Tetrachloro-m-xylene	*58*		*30 - 121*	*09/11/24 07:33*	*09/13/24 14:56*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:28	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:28	1

Client Sample ID: SB8 (5-7.5)
Lab Sample ID: 500-255917-6

Date Collected: 08/29/24 12:45
Matrix: Solid

Date Received: 08/30/24 12:00
Percent Solids: 91.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:28	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:28	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:28	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:28	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:28	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/13/24 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*49 - 129*	*09/11/24 07:33*	*09/13/24 18:28*	*1*
DCB Decachlorobiphenyl	*48*		*37 - 121*	*09/11/24 07:33*	*09/13/24 18:28*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1400**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Antimony	<1.9		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Arsenic	**2.3**		0.93		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Barium	**5.2**		0.93		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Beryllium	<0.37		0.37		mg/Kg	☼	09/16/24 09:08	09/17/24 14:25	1
Cadmium	<0.19		0.19		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Calcium	**21000**	**B**	19		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Chromium	**5.3**		0.93		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Cobalt	**2.3**		0.47		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Copper	**2.9**		0.93		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Iron	**4100**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Lead	**3.7**		0.47		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Magnesium	**12000**		9.3		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Manganese	**120**	**B**	0.93		mg/Kg	☼	09/16/24 09:08	09/17/24 14:25	1
Nickel	**4.0**		0.93		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Potassium	**260**		47		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Selenium	<0.93		0.93		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Silver	<0.47		0.47		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Sodium	**140**		93		mg/Kg	☼	09/16/24 09:08	09/17/24 14:25	1
Thallium	<0.93		0.93		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Vanadium	**8.4**		0.47		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1
Zinc	**17**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 03:06	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**		0.017		mg/Kg	☼	09/17/24 17:05	09/18/24 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24		mg/Kg	☼	09/03/24 01:11	09/03/24 16:16	1
pH (SW846 9045D)	**8.43**		0.20		SU			09/05/24 12:08	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB9 (0-3)
Lab Sample ID: 500-255917-7
Date Collected: 08/29/24 13:06
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 92.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0012		0.0029	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0029	0.0015	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
1,1,2-Trichloroethane	<0.0011		0.0029	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
1,1-Dichloroethane	<0.0011		0.0029	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
1,1-Dichloroethene	<0.0012		0.0029	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
1,2-Dichloroethane	<0.0019		0.0074	0.0019	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
1,2-Dichloropropane	<0.00076		0.0029	0.00076	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
2-Butanone (MEK)	<0.0032		0.0074	0.0032	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
2-Hexanone	<0.0045		0.0074	0.0045	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0074	0.0052	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Acetone	<0.012		0.029	0.012	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Benzene	<0.00093		0.0029	0.00093	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Bromodichloromethane	<0.00095		0.0029	0.00095	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Bromoform	<0.0017	*+	0.0029	0.0017	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Bromomethane	<0.0036		0.0074	0.0036	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Carbon disulfide	<0.0014		0.0074	0.0014	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Carbon tetrachloride	<0.0010		0.0029	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Chlorobenzene	<0.0012		0.0029	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Chloroethane	<0.0024		0.0074	0.0024	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Chloroform	<0.0021		0.0029	0.0021	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Chloromethane	<0.0014		0.0074	0.0014	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
cis-1,2-Dichloroethene	<0.0012		0.0029	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
1,3-Dichloropropene, Total	<0.0014		0.0029	0.0014	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Dibromochloromethane	<0.0014	*+	0.0029	0.0014	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Ethylbenzene	<0.0016		0.0029	0.0016	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Methyl tert-butyl ether	<0.00095		0.0029	0.00095	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Methylene Chloride	<0.0032		0.0074	0.0032	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Styrene	<0.0013	*+	0.0029	0.0013	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Tetrachloroethene	<0.0017		0.0029	0.0017	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Toluene	<0.00059		0.0029	0.00059	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Xylenes, Total	<0.0010		0.0059	0.0010	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
trans-1,2-Dichloroethene	<0.0011		0.0029	0.0011	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Trichloroethene	<0.00080		0.0029	0.00080	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1
Vinyl chloride	<0.0012		0.0029	0.0012	mg/Kg	☼	08/30/24 18:42	09/08/24 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 134*	*08/30/24 18:42*	*09/08/24 22:27*	*1*
4-Bromofluorobenzene (Surr)	*121*		*75 - 131*	*08/30/24 18:42*	*09/08/24 22:27*	*1*
Dibromofluoromethane	*112*		*75 - 126*	*08/30/24 18:42*	*09/08/24 22:27*	*1*
Toluene-d8 (Surr)	*112*		*75 - 124*	*08/30/24 18:42*	*09/08/24 22:27*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.014		0.069	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Acenaphthylene	**0.060**	**J**	0.069	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Anthracene	**0.070**		0.069	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Benzo[a]anthracene	**0.21**		0.069	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Benzo[a]pyrene	**0.24**		0.069	0.067	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Benzo[b]fluoranthene	**0.49**		0.069	0.066	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Benzo[g,h,i]perylene	**0.16**		0.069	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB9 (0-3)
Lab Sample ID: 500-255917-7
Date Collected: 08/29/24 13:06
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.19**		0.069	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Chrysene	**0.32**		0.069	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Dibenz(a,h)anthracene	<0.069		0.069	0.069	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Fluoranthene	**0.44**		0.069	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Fluorene	<0.021		0.069	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Indeno[1,2,3-cd]pyrene	**0.18**		0.069	0.068	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Naphthalene	**0.061**	J	0.069	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Phenanthrene	**0.43**		0.069	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Pyrene	**0.32**		0.069	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
1,2,4-Trichlorobenzene	<0.050		0.35	0.050	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
1,3-Dichlorobenzene	<0.032		0.35	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2,4,5-Trichlorophenol	<0.026		0.69	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2,4,6-Trichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2,4-Dichlorophenol	<0.025		0.69	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2,4-Dimethylphenol	<0.16		0.69	0.16	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2,4-Dinitrotoluene	<0.040		0.35	0.040	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2-Chlorophenol	<0.023		0.35	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2-Methylnaphthalene	**0.068**	J	0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2-Methylphenol	<0.037		0.35	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
2-Nitrophenol	<0.047		0.69	0.047	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
3,3'-Dichlorobenzidine	<0.057		0.35	0.057	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
3-Nitroaniline	<0.032		0.69	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
4-Bromophenyl phenyl ether	<0.048		0.35	0.048	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
4-Chloro-3-methylphenol	<0.027		0.69	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
4-Chloroaniline	<0.73		1.4	0.73	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
4-Chlorophenyl phenyl ether	<0.092		0.35	0.092	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
4-Nitroaniline	<0.052		0.69	0.052	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Butyl benzyl phthalate	<0.035		0.35	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Carbazole	**0.032**	J	0.35	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Dibenzofuran	**0.038**	J	0.35	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Di-n-octyl phthalate	<0.49		0.69	0.49	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2

Client Sample ID: SB9 (0-3)
Date Collected: 08/29/24 13:06
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-7
Matrix: Solid
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.74		1.4	0.74	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Nitrobenzene	<0.022		0.069	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 15:25	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*54*		*31 - 166*	*09/12/24 11:30*	*09/13/24 15:25*	*2*
Phenol-d5 (Surr)	*62*		*30 - 153*	*09/12/24 11:30*	*09/13/24 15:25*	*2*
Nitrobenzene-d5 (Surr)	*64*		*37 - 147*	*09/12/24 11:30*	*09/13/24 15:25*	*2*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*09/12/24 11:30*	*09/13/24 15:25*	*2*
2,4,6-Tribromophenol (Surr)	*42*		*31 - 143*	*09/12/24 11:30*	*09/13/24 15:25*	*2*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*09/12/24 11:30*	*09/13/24 15:25*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
delta-BHC	<0.0083		0.017	0.0083	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Endosulfan II	<0.0095		0.017	0.0095	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Endosulfan sulfate	<0.0096		0.017	0.0096	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Endrin aldehyde	<0.0099		0.017	0.0099	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Heptachlor	<0.0094		0.017	0.0094	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/11/24 07:33	09/13/24 15:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*221*	*S1+*	*33 - 148*	*09/11/24 07:33*	*09/13/24 15:08*	*10*
Tetrachloro-m-xylene	*66*		*30 - 121*	*09/11/24 07:33*	*09/13/24 15:08*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 18:43	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 18:43	1

Client Sample ID: SB9 (0-3)
Date Collected: 08/29/24 13:06
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-7
Matrix: Solid
Percent Solids: 92.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 18:43	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 18:43	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 18:43	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 18:43	1
PCB-1260	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 18:43	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/13/24 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*49 - 129*	*09/11/24 07:33*	*09/13/24 18:43*	*1*
DCB Decachlorobiphenyl	*48*		*37 - 121*	*09/11/24 07:33*	*09/13/24 18:43*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		18		mg/Kg	☼	09/16/24 09:08	09/17/24 03:10	1
Antimony	<1.8		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 03:10	1
Arsenic	**23**		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Barium	**140**		0.91		mg/Kg	☼	09/16/24 09:08	09/17/24 03:10	1
Beryllium	**3.3**		0.73		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Cadmium	**0.64**		0.36		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Calcium	**24000**	**B**	18		mg/Kg	☼	09/16/24 09:08	09/17/24 03:10	1
Chromium	**35**		0.91		mg/Kg	☼	09/16/24 09:08	09/17/24 03:10	1
Cobalt	**8.8**		0.91		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Copper	**58**		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Iron	**61000**		36		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Lead	**93**		0.91		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Magnesium	**6200**		9.1		mg/Kg	☼	09/16/24 09:08	09/17/24 03:10	1
Manganese	**1600**	**B**	1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Nickel	**38**		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Potassium	**680**		45		mg/Kg	☼	09/16/24 09:08	09/17/24 03:10	1
Selenium	**2.3**		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Silver	<0.91		0.91		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Sodium	**890**		180		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Thallium	**6.8**		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Vanadium	**35**		0.91		mg/Kg	☼	09/16/24 09:08	09/17/24 14:29	2
Zinc	**470**		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 03:10	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.070**		0.017		mg/Kg	☼	09/17/24 17:05	09/18/24 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**22**		2.6		mg/Kg	☼	09/03/24 01:11	09/03/24 16:57	10
pH (SW846 9045D)	**8.36**		0.20		SU			09/05/24 12:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB9 (7.5-10)
Date Collected: 08/29/24 13:15
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-8
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00089		0.0022	0.00089	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
1,1,2-Trichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
1,1-Dichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
1,1-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
1,2-Dichloroethane	<0.0014		0.0055	0.0014	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
2-Hexanone	<0.0033		0.0055	0.0033	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0055	0.0039	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Acetone	<0.0092		0.022	0.0092	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Benzene	<0.00069		0.0022	0.00069	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Bromodichloromethane	<0.00070		0.0022	0.00070	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Bromomethane	<0.0027		0.0055	0.0027	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Carbon disulfide	<0.0010		0.0055	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Carbon tetrachloride	<0.00075		0.0022	0.00075	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Chlorobenzene	<0.00092		0.0022	0.00092	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Chloroethane	<0.0018		0.0055	0.0018	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
cis-1,2-Dichloroethene	<0.00088		0.0022	0.00088	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Methyl tert-butyl ether	<0.00071		0.0022	0.00071	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Methylene Chloride	<0.0023		0.0055	0.0023	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Styrene	<0.00099		0.0022	0.00099	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Xylenes, Total	<0.00075		0.0044	0.00075	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
trans-1,2-Dichloroethene	<0.00083		0.0022	0.00083	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Trichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1
Vinyl chloride	<0.00089		0.0022	0.00089	mg/Kg	☼	08/30/24 18:42	09/10/24 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*	*08/30/24 18:42*	*09/10/24 13:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*	*08/30/24 18:42*	*09/10/24 13:30*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*08/30/24 18:42*	*09/10/24 13:30*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*08/30/24 18:42*	*09/10/24 13:30*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Benzo[a]anthracene	<0.0071		0.033	0.0071	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Benzo[a]pyrene	<0.032	*3	0.033	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Benzo[b]fluoranthene	<0.032	*3	0.033	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Benzo[g,h,i]perylene	<0.0072	*3	0.033	0.0072	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB9 (7.5-10)
Lab Sample ID: 500-255917-8
Date Collected: 08/29/24 13:15
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 97.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013	*3	0.033	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Dibenz(a,h)anthracene	<0.033	*3	0.033	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Indeno[1,2,3-cd]pyrene	<0.032	*3	0.033	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Phenanthrene	**0.011**	**J**	0.033	0.0072	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Carbazole	<0.013		0.17	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Diethyl phthalate	**0.018**	**J B**	0.17	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB9 (7.5-10)
Lab Sample ID: 500-255917-8
Date Collected: 08/29/24 13:15
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 97.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Isophorone	<0.017		0.17	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1
Phenol	<0.014		0.17	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*80*		*31 - 166*	*09/12/24 11:30*	*09/13/24 12:35*	*1*
Phenol-d5 (Surr)	*78*		*30 - 153*	*09/12/24 11:30*	*09/13/24 12:35*	*1*
Nitrobenzene-d5 (Surr)	*85*		*37 - 147*	*09/12/24 11:30*	*09/13/24 12:35*	*1*
2-Fluorobiphenyl (Surr)	*79*		*43 - 145*	*09/12/24 11:30*	*09/13/24 12:35*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*31 - 143*	*09/12/24 11:30*	*09/13/24 12:35*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*09/12/24 11:30*	*09/13/24 12:35*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00088		0.0017	0.00088	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
4,4'-DDE	<0.00084		0.0017	0.00084	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
4,4'-DDT	<0.00078		0.0017	0.00078	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Aldrin	<0.0011		0.0017	0.0011	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
alpha-BHC	<0.00092		0.0017	0.00092	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
alpha-Chlordane	<0.00088		0.0017	0.00088	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
beta-BHC	<0.0013		0.0017	0.0013	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Chlordane (technical)	<0.0031		0.0065	0.0031	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
delta-BHC	<0.00078		0.0017	0.00078	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Dieldrin	<0.00086		0.0017	0.00086	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Endosulfan I	<0.00089		0.0017	0.00089	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Endosulfan II	<0.00090		0.0017	0.00090	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Endosulfan sulfate	<0.00091		0.0017	0.00091	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Endrin	<0.00084		0.0017	0.00084	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Endrin aldehyde	<0.00093		0.0017	0.00093	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Endrin ketone	<0.00080		0.0017	0.00080	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
gamma-BHC (Lindane)	<0.00082		0.0017	0.00082	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
gamma-Chlordane	<0.00094		0.0017	0.00094	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Heptachlor	<0.00089		0.0017	0.00089	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Heptachlor epoxide	<0.00088		0.0017	0.00088	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Methoxychlor	<0.0011		0.0081	0.0011	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1
Toxaphene	<0.0065		0.016	0.0065	mg/Kg	☼	09/11/24 07:33	09/13/24 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*33 - 148*	*09/11/24 07:33*	*09/13/24 15:19*	*1*
Tetrachloro-m-xylene	*52*		*30 - 121*	*09/11/24 07:33*	*09/13/24 15:19*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.016		0.016		mg/Kg	☼	09/11/24 07:33	09/17/24 00:45	1
PCB-1221	<0.016		0.016		mg/Kg	☼	09/11/24 07:33	09/17/24 00:45	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB9 (7.5-10)
Lab Sample ID: 500-255917-8
Date Collected: 08/29/24 13:15
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 97.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.016		0.016		mg/Kg	☼	09/11/24 07:33	09/17/24 00:45	1
PCB-1242	<0.016		0.016		mg/Kg	☼	09/11/24 07:33	09/17/24 00:45	1
PCB-1248	<0.016		0.016		mg/Kg	☼	09/11/24 07:33	09/17/24 00:45	1
PCB-1254	<0.016		0.016		mg/Kg	☼	09/11/24 07:33	09/17/24 00:45	1
PCB-1260	<0.016		0.016		mg/Kg	☼	09/11/24 07:33	09/17/24 00:45	1
Polychlorinated biphenyls, Total	<0.016		0.016		mg/Kg	☼	09/11/24 07:33	09/17/24 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*49 - 129*	*09/11/24 07:33*	*09/17/24 00:45*	*1*
DCB Decachlorobiphenyl	*86*		*37 - 121*	*09/11/24 07:33*	*09/17/24 00:45*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1300**		20		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Antimony	<2.0		2.0		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Arsenic	**1.7**		0.98		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Barium	**4.9**		0.98		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Beryllium	<0.39		0.39		mg/Kg	☼	09/16/24 09:08	09/17/24 14:38	1
Cadmium	<0.20		0.20		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Calcium	**15000**	**B**	20		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Chromium	**3.8**		0.98		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Cobalt	**1.7**		0.49		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Copper	**14**		0.98		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Iron	**4000**		20		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Lead	**6.9**		0.49		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Magnesium	**8700**		9.8		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Manganese	**110**	**B**	0.98		mg/Kg	☼	09/16/24 09:08	09/17/24 14:38	1
Nickel	**3.3**		0.98		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Potassium	**260**		49		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Selenium	<0.98		0.98		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Silver	<0.49		0.49		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Sodium	<98		98		mg/Kg	☼	09/16/24 09:08	09/17/24 14:38	1
Thallium	<0.98		0.98		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Vanadium	**8.0**		0.49		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1
Zinc	**23**		2.0		mg/Kg	☼	09/16/24 09:08	09/17/24 03:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016		mg/Kg	☼	09/17/24 17:05	09/18/24 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.41**		0.25		mg/Kg	☼	09/03/24 01:11	09/03/24 16:19	1
pH (SW846 9045D)	**8.64**		0.20		SU			09/05/24 12:13	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10 (0-3)
Lab Sample ID: 500-255917-9
Date Collected: 08/29/24 13:39
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0028	0.0014	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
1,1,2-Trichloroethane	<0.0010		0.0028	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
1,1-Dichloroethane	<0.0010		0.0028	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
1,1-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
1,2-Dichloroethane	<0.0018		0.0069	0.0018	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
1,2-Dichloropropane	<0.00071		0.0028	0.00071	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
2-Butanone (MEK)	<0.0030		0.0069	0.0030	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
2-Hexanone	<0.0042		0.0069	0.0042	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0069	0.0049	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Acetone	<0.012		0.028	0.012	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Benzene	**0.0017**	**J**	0.0028	0.00087	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Bromodichloromethane	<0.00088		0.0028	0.00088	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Bromoform	<0.0016		0.0028	0.0016	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Bromomethane	<0.0034		0.0069	0.0034	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Carbon disulfide	**0.0017**	**J**	0.0069	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Carbon tetrachloride	<0.00094		0.0028	0.00094	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Chlorobenzene	<0.0012		0.0028	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Chloroethane	<0.0023		0.0069	0.0023	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Chloroform	<0.0020		0.0028	0.0020	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Chloromethane	<0.0013		0.0069	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
cis-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
1,3-Dichloropropene, Total	<0.0013		0.0028	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Dibromochloromethane	<0.0013		0.0028	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Ethylbenzene	<0.0014		0.0028	0.0014	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Methyl tert-butyl ether	<0.00089		0.0028	0.00089	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Methylene Chloride	<0.0029		0.0069	0.0029	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Styrene	<0.0012		0.0028	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Tetrachloroethene	<0.0015		0.0028	0.0015	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Toluene	<0.00055		0.0028	0.00055	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Xylenes, Total	**0.0027**	**J**	0.0055	0.00095	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
trans-1,2-Dichloroethene	<0.0010		0.0028	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Trichloroethene	<0.00075		0.0028	0.00075	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1
Vinyl chloride	<0.0011		0.0028	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*	*08/30/24 18:42*	*09/10/24 13:54*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*	*08/30/24 18:42*	*09/10/24 13:54*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*08/30/24 18:42*	*09/10/24 13:54*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*08/30/24 18:42*	*09/10/24 13:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.092**		0.072	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Acenaphthylene	**2.9**		0.072	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Anthracene	**1.9**		0.072	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Benzo[a]anthracene	**5.4**		0.072	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Benzo[a]pyrene	**5.9**		0.072	0.069	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Benzo[b]fluoranthene	**13**		0.072	0.069	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Benzo[g,h,i]perylene	**5.9**		0.072	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10 (0-3)
Lab Sample ID: 500-255917-9
Date Collected: 08/29/24 13:39
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**3.9**		0.072	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Chrysene	**8.9**		0.072	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Dibenz(a,h)anthracene	**1.4**		0.072	0.072	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Fluoranthene	**15**		0.072	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Fluorene	**0.12**		0.072	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Indeno[1,2,3-cd]pyrene	**5.8**		0.072	0.070	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Naphthalene	**0.20**		0.072	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Phenanthrene	**8.1**		0.072	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Pyrene	**8.6**		0.072	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
1,3-Dichlorobenzene	<0.033		0.36	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2,4,5-Trichlorophenol	<0.027		0.72	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2,4,6-Trichlorophenol	<0.025		0.72	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2,4-Dichlorophenol	<0.025		0.72	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2,4-Dimethylphenol	<0.16		0.72	0.16	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2,6-Dinitrotoluene	<0.025		0.36	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2-Methylnaphthalene	**0.32**		0.15	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2-Nitroaniline	<0.039		0.36	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
2-Nitrophenol	<0.049		0.72	0.049	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
3,3'-Dichlorobenzidine	<0.059		0.36	0.059	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
3 & 4 Methylphenol	<0.053		0.36	0.053	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
3-Nitroaniline	<0.033		0.72	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
4-Chloro-3-methylphenol	<0.028		0.72	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
4-Chloroaniline	<0.76		1.5	0.76	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
4-Nitroaniline	<0.053		0.72	0.053	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
bis(chloroisopropyl) ether	<0.052		0.36	0.052	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Carbazole	**0.84**		0.36	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Dibenzofuran	**0.27**	**J**	0.36	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Di-n-octyl phthalate	<0.50		0.72	0.50	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Hexachlorobutadiene	<0.041		0.36	0.041	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10 (0-3)
Lab Sample ID: 500-255917-9
Date Collected: 08/29/24 13:39
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76		1.5	0.76	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Nitrobenzene	<0.023		0.072	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
N-Nitrosodiphenylamine	<0.043		0.36	0.043	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 15:49	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*63*		*31 - 166*	*09/12/24 11:30*	*09/13/24 15:49*	*2*
Phenol-d5 (Surr)	*65*		*30 - 153*	*09/12/24 11:30*	*09/13/24 15:49*	*2*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/12/24 11:30*	*09/13/24 15:49*	*2*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/12/24 11:30*	*09/13/24 15:49*	*2*
2,4,6-Tribromophenol (Surr)	*55*		*31 - 143*	*09/12/24 11:30*	*09/13/24 15:49*	*2*
Terphenyl-d14 (Surr)	*64*		*42 - 157*	*09/12/24 11:30*	*09/13/24 15:49*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.019		0.035	0.019	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
4,4'-DDE	<0.018		0.035	0.018	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
4,4'-DDT	<0.017		0.035	0.017	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Aldrin	<0.024		0.035	0.024	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
alpha-BHC	<0.020		0.035	0.020	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
alpha-Chlordane	<0.019		0.035	0.019	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
beta-BHC	<0.028		0.035	0.028	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Chlordane (technical)	<0.066		0.14	0.066	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
delta-BHC	<0.017		0.035	0.017	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Dieldrin	<0.018		0.035	0.018	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Endosulfan I	<0.019		0.035	0.019	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Endosulfan II	<0.019		0.035	0.019	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Endosulfan sulfate	<0.019		0.035	0.019	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Endrin	<0.018		0.035	0.018	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Endrin aldehyde	<0.020		0.035	0.020	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Endrin ketone	<0.017		0.035	0.017	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
gamma-BHC (Lindane)	<0.017		0.035	0.017	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
gamma-Chlordane	<0.020		0.035	0.020	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Heptachlor	<0.019		0.035	0.019	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Heptachlor epoxide	<0.019		0.035	0.019	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Methoxychlor	<0.023		0.17	0.023	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20
Toxaphene	<0.14		0.34	0.14	mg/Kg	☼	09/11/24 07:33	09/13/24 15:31	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/11/24 07:33*	*09/13/24 15:31*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/11/24 07:33*	*09/13/24 15:31*	*20*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:00	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:00	1

Client Sample ID: SB10 (0-3)
Lab Sample ID: 500-255917-9
Date Collected: 08/29/24 13:39
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:00	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:00	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:00	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:00	1
PCB-1260	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:00	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*49 - 129*	*09/11/24 07:33*	*09/17/24 01:00*	*1*
DCB Decachlorobiphenyl	*98*		*37 - 121*	*09/11/24 07:33*	*09/17/24 01:00*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17000**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Antimony	**3.0**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Arsenic	**7.3**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Barium	**190**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Beryllium	**4.7**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 14:51	5
Cadmium	**0.37**		0.19		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Calcium	**150000**	**B**	95		mg/Kg	☼	09/16/24 09:08	09/17/24 14:51	5
Chromium	**22**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Cobalt	**4.2**		2.4		mg/Kg	☼	09/16/24 09:08	09/17/24 14:51	5
Copper	**55**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Iron	**26000**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Lead	**170**		2.4		mg/Kg	☼	09/16/24 09:08	09/17/24 14:51	5
Magnesium	**12000**		9.5		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Manganese	**2300**	**B**	4.8		mg/Kg	☼	09/16/24 09:08	09/17/24 14:51	5
Nickel	**23**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Potassium	**2100**		48		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Selenium	**2.5**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Silver	<2.4		2.4		mg/Kg	☼	09/16/24 09:08	09/17/24 14:51	5
Sodium	**1400**		480		mg/Kg	☼	09/16/24 09:08	09/17/24 14:51	5
Thallium	**3.8**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1
Vanadium	**19**		2.4		mg/Kg	☼	09/16/24 09:08	09/17/24 14:51	5
Zinc	**130**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 03:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/17/24 17:05	09/18/24 09:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**14**		2.4		mg/Kg	☼	09/03/24 01:11	09/03/24 17:01	10
Sulfide (SW846 9034)	**810**		33		mg/Kg	☼	09/05/24 07:21	09/05/24 13:16	1
pH (SW846 9045D)	**8.12**		0.20		SU			09/05/24 12:18	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10 (5-7.5)
Lab Sample ID: 500-255917-10
Date Collected: 08/29/24 13:47
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00083		0.0020	0.00083	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0020	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
1,1,2-Trichloroethane	<0.00076		0.0020	0.00076	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
1,1-Dichloroethane	<0.00077		0.0020	0.00077	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
1,1-Dichloroethene	<0.00084		0.0020	0.00084	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
1,2-Dichloroethane	<0.0013		0.0051	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
1,2-Dichloropropane	<0.00053		0.0020	0.00053	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
2-Butanone (MEK)	<0.0022		0.0051	0.0022	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
2-Hexanone	<0.0031		0.0051	0.0031	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0051	0.0036	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Acetone	<0.0086		0.020	0.0086	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Benzene	<0.00064		0.0020	0.00064	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Bromodichloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Bromomethane	<0.0025		0.0051	0.0025	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Carbon disulfide	<0.00094		0.0051	0.00094	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Carbon tetrachloride	<0.00069		0.0020	0.00069	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Chlorobenzene	<0.00086		0.0020	0.00086	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Chloroethane	<0.0017		0.0051	0.0017	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Chloroform	<0.0015		0.0020	0.0015	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Chloromethane	<0.00099		0.0051	0.00099	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
cis-1,2-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
1,3-Dichloropropene, Total	<0.00098		0.0020	0.00098	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Dibromochloromethane	<0.00094		0.0020	0.00094	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Methyl tert-butyl ether	<0.00066		0.0020	0.00066	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Methylene Chloride	<0.0022		0.0051	0.0022	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Styrene	<0.00092		0.0020	0.00092	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Tetrachloroethene	**0.0013**	**J**	0.0020	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Toluene	<0.00041		0.0020	0.00041	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Xylenes, Total	<0.00070		0.0041	0.00070	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
trans-1,2-Dichloroethene	<0.00077		0.0020	0.00077	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Trichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1
Vinyl chloride	<0.00083		0.0020	0.00083	mg/Kg	☼	08/30/24 18:42	09/10/24 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*08/30/24 18:42*	*09/10/24 14:18*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*08/30/24 18:42*	*09/10/24 14:18*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*08/30/24 18:42*	*09/10/24 14:18*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*08/30/24 18:42*	*09/10/24 14:18*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**2.3**		0.069	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Naphthalene	**5.4**		0.069	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
1,2,4-Trichlorobenzene	<0.049		0.35	0.049	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
1,3-Dichlorobenzene	<0.031		0.35	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
2,4,5-Trichlorophenol	<0.026		0.69	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10 (5-7.5)
Lab Sample ID: 500-255917-10
Date Collected: 08/29/24 13:47
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.023		0.69	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
2,4-Dichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
2,4-Dimethylphenol	**0.35**	**J**	0.69	0.15	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
2,4-Dinitrotoluene	<0.039		0.35	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
2,6-Dinitrotoluene	<0.023		0.35	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
2-Chlorophenol	<0.022		0.35	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
2-Methylnaphthalene	**4.1**		0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
2-Methylphenol	**0.13**	**J**	0.35	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
2-Nitrophenol	<0.047		0.69	0.047	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
3,3'-Dichlorobenzidine	<0.056		0.35	0.056	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
3 & 4 Methylphenol	**0.56**		0.35	0.051	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
3-Nitroaniline	<0.031		0.69	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
4-Bromophenyl phenyl ether	<0.047		0.35	0.047	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
4-Chloro-3-methylphenol	<0.027		0.69	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
4-Chloroaniline	<0.72		1.4	0.72	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
4-Chlorophenyl phenyl ether	<0.090		0.35	0.090	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
4-Nitroaniline	<0.051		0.69	0.051	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
bis(chloroisopropyl) ether	<0.049		0.35	0.049	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Butyl benzyl phthalate	<0.034		0.35	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Di-n-octyl phthalate	<0.48		0.69	0.48	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Hexachlorocyclopentadiene	<0.73		1.4	0.73	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Nitrobenzene	<0.022		0.069	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2
Phenol	**0.18**	**J**	0.35	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 16:13	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*68*		*31 - 166*	*09/12/24 11:30*	*09/13/24 16:13*	*2*
Phenol-d5 (Surr)	*72*		*30 - 153*	*09/12/24 11:30*	*09/13/24 16:13*	*2*
Nitrobenzene-d5 (Surr)	*71*		*37 - 147*	*09/12/24 11:30*	*09/13/24 16:13*	*2*
2-Fluorobiphenyl (Surr)	*73*		*43 - 145*	*09/12/24 11:30*	*09/13/24 16:13*	*2*
2,4,6-Tribromophenol (Surr)	*54*		*31 - 143*	*09/12/24 11:30*	*09/13/24 16:13*	*2*
Terphenyl-d14 (Surr)	*109*		*42 - 157*	*09/12/24 11:30*	*09/13/24 16:13*	*2*

Client Sample ID: SB10 (5-7.5)
Lab Sample ID: 500-255917-10
Date Collected: 08/29/24 13:47
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	25		3.4	0.59	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Anthracene	70		3.4	0.70	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Benzo[a]anthracene	260		3.4	0.73	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Benzo[a]pyrene	130		3.4	3.3	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Benzo[b]fluoranthene	410		3.4	3.3	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Benzo[g,h,i]perylene	150		3.4	0.75	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Benzo[k]fluoranthene	120		3.4	1.3	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Chrysene	340		3.4	0.91	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Dibenz(a,h)anthracene	50		3.4	3.4	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Fluoranthene	750		3.4	0.80	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Fluorene	41		3.4	1.0	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Indeno[1,2,3-cd]pyrene	160		3.4	3.4	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Phenanthrene	430		3.4	0.75	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Pyrene	510		3.4	0.94	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Carbazole	48		17	1.4	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100
Dibenzofuran	28		17	1.2	mg/Kg	☼	09/12/24 11:30	09/16/24 15:18	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*0*	*S1-*	*31 - 166*	*09/12/24 11:30*	*09/16/24 15:18*	*100*
Phenol-d5 (Surr)	*0*	*S1-*	*30 - 153*	*09/12/24 11:30*	*09/16/24 15:18*	*100*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*37 - 147*	*09/12/24 11:30*	*09/16/24 15:18*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*43 - 145*	*09/12/24 11:30*	*09/16/24 15:18*	*100*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/12/24 11:30*	*09/16/24 15:18*	*100*
Terphenyl-d14 (Surr)	*0*	*S1-*	*42 - 157*	*09/12/24 11:30*	*09/16/24 15:18*	*100*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/11/24 07:33	09/16/24 17:23	10

Client Sample ID: SB10 (5-7.5)
Date Collected: 08/29/24 13:47
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-10
Matrix: Solid
Percent Solids: 91.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	3654	S1+	33 - 148	09/11/24 07:33	09/16/24 17:23	10
Tetrachloro-m-xylene	125	S1+	30 - 121	09/11/24 07:33	09/16/24 17:23	10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:15	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:15	1
PCB-1232	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:15	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:15	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:15	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:15	1
PCB-1260	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:15	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		49 - 129	09/11/24 07:33	09/17/24 01:15	1
DCB Decachlorobiphenyl	853	S1+	37 - 121	09/11/24 07:33	09/17/24 01:15	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8500		22		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Antimony	4.3		2.2		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Arsenic	13		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Barium	110		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Beryllium	<2.2		2.2		mg/Kg	☼	09/16/24 09:08	09/17/24 14:56	5
Cadmium	2.5		0.22		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Calcium	140000	B	110		mg/Kg	☼	09/16/24 09:08	09/17/24 14:56	5
Chromium	11		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Cobalt	4.0		2.7		mg/Kg	☼	09/16/24 09:08	09/17/24 14:56	5
Copper	62		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Iron	28000		22		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Lead	200		2.7		mg/Kg	☼	09/16/24 09:08	09/17/24 14:56	5
Magnesium	33000		11		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Manganese	1600	B	5.5		mg/Kg	☼	09/16/24 09:08	09/17/24 14:56	5
Nickel	16		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Potassium	1100		55		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Selenium	1.2		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Silver	<2.7		2.7		mg/Kg	☼	09/16/24 09:08	09/17/24 14:56	5
Sodium	<550		550		mg/Kg	☼	09/16/24 09:08	09/17/24 14:56	5
Thallium	3.9		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1
Vanadium	12		2.7		mg/Kg	☼	09/16/24 09:08	09/17/24 14:56	5
Zinc	840		2.2		mg/Kg	☼	09/16/24 09:08	09/17/24 03:23	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/17/24 17:05	09/18/24 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	4.1		0.25		mg/Kg	☼	09/03/24 01:11	09/03/24 16:23	1
pH (SW846 9045D)	9.96		0.20		SU			09/05/24 12:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB11 (0-3)
Date Collected: 08/29/24 14:01
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-11
Matrix: Solid
Percent Solids: 94.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0027	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0027	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
1,1,2-Trichloroethane	<0.00099		0.0027	0.00099	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
1,1-Dichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
1,1-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
1,2-Dichloroethane	<0.0017		0.0066	0.0017	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
1,2-Dichloropropane	<0.00068		0.0027	0.00068	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
2-Butanone (MEK)	<0.0029		0.0066	0.0029	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
2-Hexanone	<0.0040		0.0066	0.0040	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0066	0.0047	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Acetone	<0.011		0.027	0.011	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Benzene	<0.00083		0.0027	0.00083	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Bromodichloromethane	<0.00085		0.0027	0.00085	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Bromoform	<0.0015		0.0027	0.0015	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Bromomethane	<0.0033		0.0066	0.0033	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Carbon disulfide	<0.0012		0.0066	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Carbon tetrachloride	<0.00090		0.0027	0.00090	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Chlorobenzene	<0.0011		0.0027	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Chloroethane	<0.0022		0.0066	0.0022	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Chloroform	<0.0019		0.0027	0.0019	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Chloromethane	<0.0013		0.0066	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
cis-1,2-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
1,3-Dichloropropene, Total	<0.0013		0.0027	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Dibromochloromethane	<0.0012		0.0027	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Ethylbenzene	<0.0014		0.0027	0.0014	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Methyl tert-butyl ether	<0.00086		0.0027	0.00086	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Methylene Chloride	<0.0028		0.0066	0.0028	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Styrene	<0.0012		0.0027	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Tetrachloroethene	<0.0015		0.0027	0.0015	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Toluene	<0.00053		0.0027	0.00053	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Xylenes, Total	<0.00091		0.0053	0.00091	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
trans-1,2-Dichloroethene	<0.0010		0.0027	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Trichloroethene	<0.00072		0.0027	0.00072	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1
Vinyl chloride	<0.0011		0.0027	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*08/30/24 18:42*	*09/10/24 14:42*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*08/30/24 18:42*	*09/10/24 14:42*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*08/30/24 18:42*	*09/10/24 14:42*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*08/30/24 18:42*	*09/10/24 14:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.014		0.066	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Acenaphthylene	**0.20**		0.066	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Anthracene	**0.25**		0.066	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Benzo[a]anthracene	**0.94**		0.066	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Benzo[a]pyrene	**0.63**		0.066	0.064	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Benzo[b]fluoranthene	**1.7**		0.066	0.063	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Benzo[g,h,i]perylene	**0.49**		0.066	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB11 (0-3)
Lab Sample ID: 500-255917-11
Date Collected: 08/29/24 14:01
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 94.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.64**		0.066	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Chrysene	**1.2**		0.066	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Dibenz(a,h)anthracene	**0.17**		0.066	0.066	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Fluoranthene	**2.6**		0.066	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Fluorene	**0.13**		0.066	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Indeno[1,2,3-cd]pyrene	**0.57**		0.066	0.065	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Naphthalene	**0.032**	**J**	0.066	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Phenanthrene	**1.4**		0.066	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Pyrene	**1.7**		0.066	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
1,2,4-Trichlorobenzene	<0.048		0.33	0.048	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
1,2-Dichlorobenzene	<0.027		0.33	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
1,3-Dichlorobenzene	<0.030		0.33	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
1,4-Dichlorobenzene	<0.031		0.33	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2,4,5-Trichlorophenol	<0.025		0.66	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2,4,6-Trichlorophenol	<0.023		0.66	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2,4-Dichlorophenol	<0.023		0.66	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2,4-Dimethylphenol	<0.15		0.66	0.15	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2,4-Dinitrophenol	<0.39		1.3	0.39	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2,4-Dinitrotoluene	<0.038		0.33	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2,6-Dinitrotoluene	<0.023		0.33	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2-Chloronaphthalene	<0.025		0.33	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2-Chlorophenol	<0.021		0.33	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2-Methylnaphthalene	**0.046**	**J**	0.13	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2-Methylphenol	<0.035		0.33	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2-Nitroaniline	<0.036		0.33	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
2-Nitrophenol	<0.045		0.66	0.045	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
3,3'-Dichlorobenzidine	<0.054		0.33	0.054	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
3 & 4 Methylphenol	<0.049		0.33	0.049	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
3-Nitroaniline	<0.030		0.66	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
4,6-Dinitro-2-methylphenol	<0.38		1.3	0.38	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
4-Bromophenyl phenyl ether	<0.046		0.33	0.046	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
4-Chloro-3-methylphenol	<0.026		0.66	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
4-Chloroaniline	<0.70		1.3	0.70	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
4-Chlorophenyl phenyl ether	<0.087		0.33	0.087	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
4-Nitroaniline	<0.049		0.66	0.049	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
4-Nitrophenol	<0.25		1.3	0.25	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Bis(2-chloroethoxy)methane	<0.025		0.33	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Bis(2-chloroethyl)ether	<0.031		0.33	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
bis(chloroisopropyl) ether	<0.048		0.33	0.048	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Bis(2-ethylhexyl) phthalate	<0.26		0.33	0.26	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Butyl benzyl phthalate	<0.033		0.33	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Carbazole	**0.20**	**J**	0.33	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Dibenzofuran	**0.079**	**J**	0.33	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Diethyl phthalate	<0.030		0.33	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Dimethyl phthalate	<0.014		0.33	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Di-n-butyl phthalate	<0.021		0.33	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Di-n-octyl phthalate	<0.47		0.66	0.47	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Hexachlorobenzene	<0.013		0.13	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Hexachlorobutadiene	<0.038		0.33	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB11 (0-3)
Lab Sample ID: 500-255917-11
Date Collected: 08/29/24 14:01
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 94.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.71		1.3	0.71	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Hexachloroethane	<0.033		0.33	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Isophorone	<0.034		0.33	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Nitrobenzene	<0.021		0.066	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
N-Nitrosodi-n-propylamine	<0.013		0.13	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
N-Nitrosodiphenylamine	<0.040		0.33	0.040	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Pentachlorophenol	<0.17		1.3	0.17	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2
Phenol	<0.029		0.33	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 16:38	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*61*		*31 - 166*	*09/12/24 11:30*	*09/13/24 16:38*	*2*
Phenol-d5 (Surr)	*64*		*30 - 153*	*09/12/24 11:30*	*09/13/24 16:38*	*2*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*09/12/24 11:30*	*09/13/24 16:38*	*2*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/12/24 11:30*	*09/13/24 16:38*	*2*
2,4,6-Tribromophenol (Surr)	*57*		*31 - 143*	*09/12/24 11:30*	*09/13/24 16:38*	*2*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*09/12/24 11:30*	*09/13/24 16:38*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
4,4'-DDE	<0.00092		0.0018	0.00092	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
4,4'-DDT	<0.00084		0.0018	0.00084	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
Aldrin	<0.0012		0.0018	0.0012	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
alpha-BHC	<0.0010		0.0018	0.0010	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
alpha-Chlordane	<0.00095		0.0018	0.00095	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
beta-BHC	<0.0014		0.0018	0.0014	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
Chlordane (technical)	<0.0034		0.0071	0.0034	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
delta-BHC	<0.0042		0.0090	0.0042	mg/Kg	☼	09/11/24 07:33	09/16/24 17:46	5
Dieldrin	<0.00093		0.0018	0.00093	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
Endosulfan I	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
Endosulfan II	<0.00097		0.0018	0.00097	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
Endosulfan sulfate	<0.0049		0.0090	0.0049	mg/Kg	☼	09/11/24 07:33	09/16/24 17:46	5
Endrin	<0.00091		0.0018	0.00091	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
Endrin aldehyde	<0.0051		0.0090	0.0051	mg/Kg	☼	09/11/24 07:33	09/16/24 17:46	5
Endrin ketone	<0.00086		0.0018	0.00086	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
gamma-BHC (Lindane)	<0.00088		0.0018	0.00088	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
Heptachlor	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
Heptachlor epoxide	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
Methoxychlor	<0.0012		0.0087	0.0012	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1
Toxaphene	<0.0071		0.018	0.0071	mg/Kg	☼	09/11/24 07:33	09/16/24 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*693*	*S1+*	*33 - 148*	*09/11/24 07:33*	*09/16/24 17:46*	*5*
Tetrachloro-m-xylene	*81*		*30 - 121*	*09/11/24 07:33*	*09/16/24 17:46*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 01:30	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 01:30	1

Client Sample ID: SB11 (0-3)
Lab Sample ID: 500-255917-11

Date Collected: 08/29/24 14:01
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 94.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 01:30	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 01:30	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 01:30	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 01:30	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 01:30	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*49 - 129*	*09/11/24 07:33*	*09/17/24 01:30*	*1*
DCB Decachlorobiphenyl	*86*		*37 - 121*	*09/11/24 07:33*	*09/17/24 01:30*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		18		mg/Kg	☼	09/16/24 09:08	09/17/24 03:28	1
Antimony	<1.8		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 03:28	1
Arsenic	**10**		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 15:00	2
Barium	**110**		0.92		mg/Kg	☼	09/16/24 09:08	09/17/24 03:28	1
Beryllium	**1.9**		0.73		mg/Kg	☼	09/16/24 09:08	09/17/24 15:00	2
Cadmium	**2.7**		0.37		mg/Kg	☼	09/16/24 09:08	09/17/24 15:00	2
Calcium	**34000**	**B**	18		mg/Kg	☼	09/16/24 09:08	09/17/24 03:28	1
Chromium	**130**		0.92		mg/Kg	☼	09/16/24 09:08	09/17/24 03:28	1
Cobalt	**7.2**		0.92		mg/Kg	☼	09/16/24 09:08	09/17/24 15:00	2
Copper	**65**		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 15:00	2
Iron	**64000**		37		mg/Kg	☼	09/16/24 09:08	09/17/24 15:00	2
Lead	**110**		0.92		mg/Kg	☼	09/16/24 09:08	09/17/24 15:00	2
Magnesium	**8100**		9.2		mg/Kg	☼	09/16/24 09:08	09/17/24 03:28	1
Manganese	**7600**	**B**	9.2		mg/Kg	☼	09/16/24 09:08	09/17/24 15:05	10
Nickel	**35**		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 15:00	2
Potassium	**770**		46		mg/Kg	☼	09/16/24 09:08	09/17/24 03:28	1
Selenium	**4.1**		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 15:00	2
Silver	<0.92		0.92		mg/Kg	☼	09/16/24 09:08	09/17/24 15:00	2
Sodium	**740**		180		mg/Kg	☼	09/16/24 09:08	09/17/24 15:00	2
Thallium	**34**		9.2		mg/Kg	☼	09/16/24 09:08	09/17/24 15:05	10
Vanadium	**99**		0.92		mg/Kg	☼	09/16/24 09:08	09/17/24 15:00	2
Zinc	**1000**		1.8		mg/Kg	☼	09/16/24 09:08	09/17/24 03:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.016		mg/Kg	☼	09/17/24 17:05	09/18/24 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.6**		0.24		mg/Kg	☼	09/03/24 01:11	09/03/24 16:24	1
pH (SW846 9045D)	**8.89**		0.20		SU			09/05/24 12:26	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB11 (5-7.5)
Lab Sample ID: 500-255917-12
Date Collected: 08/29/24 14:15
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 87.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0026	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
1,1,2,2-Tetrachloroethane	<0.0013	*3	0.0026	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
1,1,2-Trichloroethane	<0.00098		0.0026	0.00098	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
1,1-Dichloroethane	<0.00099		0.0026	0.00099	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
1,1-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
1,2-Dichloroethane	<0.0017		0.0066	0.0017	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
1,2-Dichloropropane	<0.00068		0.0026	0.00068	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
2-Butanone (MEK)	<0.0029		0.0066	0.0029	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
2-Hexanone	<0.0040		0.0066	0.0040	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0066	0.0047	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Acetone	<0.011		0.026	0.011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Benzene	<0.00083		0.0026	0.00083	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Bromodichloromethane	<0.00084		0.0026	0.00084	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Bromoform	<0.0015		0.0026	0.0015	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Bromomethane	<0.0032		0.0066	0.0032	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Carbon disulfide	**0.0024**	**J**	0.0066	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Carbon tetrachloride	<0.00090		0.0026	0.00090	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Chlorobenzene	<0.0011		0.0026	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Chloroethane	<0.0022		0.0066	0.0022	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Chloroform	<0.0019		0.0026	0.0019	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Chloromethane	<0.0013		0.0066	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
cis-1,2-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
1,3-Dichloropropene, Total	<0.0013		0.0026	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Dibromochloromethane	<0.0012		0.0026	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Ethylbenzene	<0.0014		0.0026	0.0014	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Methyl tert-butyl ether	<0.00085		0.0026	0.00085	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Methylene Chloride	<0.0028		0.0066	0.0028	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Styrene	<0.0012		0.0026	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Tetrachloroethene	**0.0015**	**J**	0.0026	0.0015	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Toluene	**0.00057**	**J**	0.0026	0.00053	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Xylenes, Total	<0.00090		0.0053	0.00090	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
trans-1,2-Dichloroethene	<0.00099		0.0026	0.00099	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Trichloroethene	<0.00071		0.0026	0.00071	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1
Vinyl chloride	<0.0011		0.0026	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*08/30/24 18:42*	*09/10/24 15:06*	*1*
4-Bromofluorobenzene (Surr)	*124*	*3*	*75 - 131*	*08/30/24 18:42*	*09/10/24 15:06*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*08/30/24 18:42*	*09/10/24 15:06*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*08/30/24 18:42*	*09/10/24 15:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.041**	**J**	0.075	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Acenaphthylene	**0.044**	**J**	0.075	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Anthracene	**0.067**	**J**	0.075	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Benzo[a]anthracene	**0.16**		0.075	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Benzo[a]pyrene	**0.14**		0.075	0.073	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Benzo[b]fluoranthene	**0.23**		0.075	0.072	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Benzo[g,h,i]perylene	**0.074**	**J**	0.075	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB11 (5-7.5)
Lab Sample ID: 500-255917-12
Date Collected: 08/29/24 14:15
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 87.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.084**		0.075	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Chrysene	**0.20**		0.075	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Dibenz(a,h)anthracene	<0.075		0.075	0.075	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Fluoranthene	**0.32**		0.075	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Fluorene	**0.027**	**J**	0.075	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Indeno[1,2,3-cd]pyrene	**0.079**		0.075	0.074	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Naphthalene	**0.098**		0.075	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Phenanthrene	**1.2**		0.075	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Pyrene	**0.22**		0.075	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
1,2,4-Trichlorobenzene	<0.054		0.38	0.054	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
1,2-Dichlorobenzene	<0.031		0.38	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
1,3-Dichlorobenzene	<0.034		0.38	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
1,4-Dichlorobenzene	<0.036		0.38	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2,4,5-Trichlorophenol	<0.028		0.75	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2,4,6-Trichlorophenol	<0.026		0.75	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2,4-Dichlorophenol	<0.027		0.75	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2,4-Dimethylphenol	<0.17		0.75	0.17	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2,4-Dinitrophenol	<0.44		1.5	0.44	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2,4-Dinitrotoluene	<0.043		0.38	0.043	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2,6-Dinitrotoluene	<0.026		0.38	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2-Chloronaphthalene	<0.028		0.38	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2-Chlorophenol	<0.024		0.38	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2-Methylnaphthalene	**0.33**		0.15	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2-Methylphenol	<0.040		0.38	0.040	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2-Nitroaniline	<0.041		0.38	0.041	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
2-Nitrophenol	<0.051		0.75	0.051	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
3,3'-Dichlorobenzidine	<0.062		0.38	0.062	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
3 & 4 Methylphenol	<0.055		0.38	0.055	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
3-Nitroaniline	<0.034		0.75	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
4,6-Dinitro-2-methylphenol	<0.43		1.5	0.43	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
4-Bromophenyl phenyl ether	<0.052		0.38	0.052	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
4-Chloro-3-methylphenol	<0.029		0.75	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
4-Chloroaniline	<0.79		1.5	0.79	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
4-Chlorophenyl phenyl ether	<0.099		0.38	0.099	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
4-Nitroaniline	<0.056		0.75	0.056	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
4-Nitrophenol	<0.28		1.5	0.28	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Bis(2-chloroethoxy)methane	<0.028		0.38	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Bis(2-chloroethyl)ether	<0.035		0.38	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
bis(chloroisopropyl) ether	<0.054		0.38	0.054	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Bis(2-ethylhexyl) phthalate	<0.30		0.38	0.30	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Butyl benzyl phthalate	<0.038		0.38	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Carbazole	**0.056**	**J**	0.38	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Dibenzofuran	**0.077**	**J**	0.38	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Diethyl phthalate	<0.035		0.38	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Dimethyl phthalate	<0.016		0.38	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Di-n-butyl phthalate	<0.024		0.38	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Di-n-octyl phthalate	<0.53		0.75	0.53	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Hexachlorobutadiene	<0.043		0.38	0.043	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB11 (5-7.5)
Lab Sample ID: 500-255917-12
Date Collected: 08/29/24 14:15
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 87.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.80		1.5	0.80	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Hexachloroethane	<0.038		0.38	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Isophorone	<0.039		0.38	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Nitrobenzene	<0.024		0.075	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
N-Nitrosodiphenylamine	<0.045		0.38	0.045	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Pentachlorophenol	<0.19		1.5	0.19	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2
Phenol	<0.033		0.38	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 17:01	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*53*		*31 - 166*	*09/12/24 11:30*	*09/13/24 17:01*	*2*
Phenol-d5 (Surr)	*60*		*30 - 153*	*09/12/24 11:30*	*09/13/24 17:01*	*2*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*09/12/24 11:30*	*09/13/24 17:01*	*2*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/12/24 11:30*	*09/13/24 17:01*	*2*
2,4,6-Tribromophenol (Surr)	*34*		*31 - 143*	*09/12/24 11:30*	*09/13/24 17:01*	*2*
Terphenyl-d14 (Surr)	*63*		*42 - 157*	*09/12/24 11:30*	*09/13/24 17:01*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0010		0.0019	0.0010	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
4,4'-DDE	<0.00098		0.0019	0.00098	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
4,4'-DDT	<0.00090		0.0019	0.00090	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
Aldrin	<0.0013		0.0019	0.0013	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
alpha-BHC	<0.0011		0.0019	0.0011	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
alpha-Chlordane	<0.0010		0.0019	0.0010	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
beta-BHC	<0.0015		0.0019	0.0015	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
Chlordane (technical)	<0.0036		0.0075	0.0036	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
delta-BHC	<0.0045		0.0096	0.0045	mg/Kg	☼	09/11/24 07:33	09/16/24 18:09	5
Dieldrin	<0.00099		0.0019	0.00099	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
Endosulfan I	<0.0010		0.0019	0.0010	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
Endosulfan II	<0.0010		0.0019	0.0010	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
Endosulfan sulfate	<0.0053		0.0096	0.0053	mg/Kg	☼	09/11/24 07:33	09/16/24 18:09	5
Endrin	<0.00097		0.0019	0.00097	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
Endrin aldehyde	<0.0054		0.0096	0.0054	mg/Kg	☼	09/11/24 07:33	09/16/24 18:09	5
Endrin ketone	<0.00092		0.0019	0.00092	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
gamma-BHC (Lindane)	<0.00095		0.0019	0.00095	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
gamma-Chlordane	<0.0011		0.0019	0.0011	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
Heptachlor	<0.0010		0.0019	0.0010	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
Heptachlor epoxide	<0.0010		0.0019	0.0010	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
Methoxychlor	<0.0012		0.0093	0.0012	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1
Toxaphene	<0.0076		0.019	0.0076	mg/Kg	☼	09/11/24 07:33	09/16/24 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*33 - 148*	*09/11/24 07:33*	*09/16/24 18:09*	*5*
Tetrachloro-m-xylene	*65*		*30 - 121*	*09/11/24 07:33*	*09/16/24 18:09*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 01:45	1
PCB-1221	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 01:45	1

Client Sample ID: SB11 (5-7.5)
Lab Sample ID: 500-255917-12
Date Collected: 08/29/24 14:15
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 87.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 01:45	1
PCB-1242	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 01:45	1
PCB-1248	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 01:45	1
PCB-1254	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 01:45	1
PCB-1260	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 01:45	1
Polychlorinated biphenyls, Total	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*49 - 129*	*09/11/24 07:33*	*09/17/24 01:45*	*1*
DCB Decachlorobiphenyl	*119*		*37 - 121*	*09/11/24 07:33*	*09/17/24 01:45*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		20		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Antimony	<2.0		2.0		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Arsenic	**9.0**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Barium	**80**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Beryllium	**2.6**		0.80		mg/Kg	☼	09/16/24 09:08	09/17/24 15:09	2
Cadmium	**0.55**		0.20		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Calcium	**25000**	**B**	20		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Chromium	**13**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Cobalt	**9.1**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 15:09	2
Copper	**52**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Iron	**42000**		20		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Lead	**58**		0.50		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Magnesium	**7400**		10		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Manganese	**11000**	**B**	10		mg/Kg	☼	09/16/24 09:08	09/17/24 15:14	10
Nickel	**23**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Potassium	**940**		50		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Selenium	**4.3**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1
Silver	<1.0		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 15:09	2
Sodium	**1000**		200		mg/Kg	☼	09/16/24 09:08	09/17/24 15:09	2
Thallium	**49**		10		mg/Kg	☼	09/16/24 09:08	09/17/24 15:14	10
Vanadium	**28**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 15:09	2
Zinc	**230**		2.0		mg/Kg	☼	09/16/24 09:08	09/17/24 03:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.032**		0.018		mg/Kg	☼	09/17/24 17:05	09/18/24 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.31**		0.24		mg/Kg	☼	09/03/24 01:11	09/03/24 16:26	1
pH (SW846 9045D)	**8.67**		0.20		SU			09/05/24 12:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB12 (0-3)
Lab Sample ID: 500-255917-13
Date Collected: 08/29/24 09:23
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 87.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00093		0.0023	0.00093	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0023	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
1,1,2-Trichloroethane	<0.00086		0.0023	0.00086	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
1,1-Dichloroethane	<0.00087		0.0023	0.00087	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
1,1-Dichloroethene	<0.00095		0.0023	0.00095	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
1,2-Dichloroethane	<0.0015		0.0058	0.0015	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
1,2-Dichloropropane	<0.00059		0.0023	0.00059	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
2-Butanone (MEK)	<0.0025		0.0058	0.0025	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
2-Hexanone	<0.0035		0.0058	0.0035	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0058	0.0041	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Acetone	<0.0097		0.023	0.0097	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Benzene	<0.00072		0.0023	0.00072	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Bromodichloromethane	<0.00074		0.0023	0.00074	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Bromomethane	<0.0028		0.0058	0.0028	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Carbon disulfide	<0.0011		0.0058	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Carbon tetrachloride	<0.00078		0.0023	0.00078	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Chlorobenzene	<0.00097		0.0023	0.00097	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Chloroethane	<0.0019		0.0058	0.0019	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Chloroform	<0.0017		0.0023	0.0017	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Chloromethane	<0.0011		0.0058	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
cis-1,2-Dichloroethene	<0.00093		0.0023	0.00093	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Methyl tert-butyl ether	<0.00074		0.0023	0.00074	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Methylene Chloride	<0.0025		0.0058	0.0025	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Toluene	<0.00046		0.0023	0.00046	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Xylenes, Total	<0.00079		0.0046	0.00079	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
trans-1,2-Dichloroethene	<0.00087		0.0023	0.00087	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Trichloroethene	<0.00063		0.0023	0.00063	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1
Vinyl chloride	<0.00094		0.0023	0.00094	mg/Kg	☼	08/30/24 18:42	09/10/24 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*08/30/24 18:42*	*09/10/24 15:30*	*1*
4-Bromofluorobenzene (Surr)	*116*		*75 - 131*	*08/30/24 18:42*	*09/10/24 15:30*	*1*
Dibromofluoromethane	*97*		*75 - 126*	*08/30/24 18:42*	*09/10/24 15:30*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*08/30/24 18:42*	*09/10/24 15:30*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015		0.076	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Acenaphthylene	**0.074**	**J**	0.076	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Anthracene	**0.11**		0.076	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Benzo[a]anthracene	**0.26**		0.076	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Benzo[a]pyrene	**0.40**		0.076	0.073	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Benzo[b]fluoranthene	**0.77**		0.076	0.072	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Benzo[g,h,i]perylene	**0.49**		0.076	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB12 (0-3)
Lab Sample ID: 500-255917-13
Date Collected: 08/29/24 09:23
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 87.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.25**		0.076	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Chrysene	**0.35**		0.076	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Dibenz(a,h)anthracene	**0.11**		0.076	0.076	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Fluoranthene	**0.44**		0.076	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Fluorene	<0.022		0.076	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Indeno[1,2,3-cd]pyrene	**0.42**		0.076	0.074	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Naphthalene	**0.091**		0.076	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Phenanthrene	**0.49**		0.076	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Pyrene	**0.38**		0.076	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
1,2,4-Trichlorobenzene	<0.054		0.38	0.054	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
1,2-Dichlorobenzene	<0.031		0.38	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
1,3-Dichlorobenzene	<0.034		0.38	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
1,4-Dichlorobenzene	<0.036		0.38	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2,4,5-Trichlorophenol	<0.029		0.76	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2,4,6-Trichlorophenol	<0.026		0.76	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2,4-Dichlorophenol	<0.027		0.76	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2,4-Dimethylphenol	<0.17		0.76	0.17	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2,4-Dinitrophenol	<0.44		1.5	0.44	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2,4-Dinitrotoluene	<0.043		0.38	0.043	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2,6-Dinitrotoluene	<0.026		0.38	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2-Chloronaphthalene	<0.028		0.38	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2-Chlorophenol	<0.025		0.38	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2-Methylnaphthalene	**0.14**	**J**	0.15	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2-Methylphenol	<0.040		0.38	0.040	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2-Nitroaniline	<0.041		0.38	0.041	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
2-Nitrophenol	<0.052		0.76	0.052	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
3,3'-Dichlorobenzidine	<0.062		0.38	0.062	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
3 & 4 Methylphenol	<0.056		0.38	0.056	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
3-Nitroaniline	<0.035		0.76	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
4,6-Dinitro-2-methylphenol	<0.43		1.5	0.43	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
4-Bromophenyl phenyl ether	<0.052		0.38	0.052	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
4-Chloro-3-methylphenol	<0.030		0.76	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
4-Chloroaniline	<0.80		1.5	0.80	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
4-Chlorophenyl phenyl ether	<0.10		0.38	0.10	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
4-Nitroaniline	<0.056		0.76	0.056	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
4-Nitrophenol	<0.28		1.5	0.28	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Bis(2-chloroethoxy)methane	<0.028		0.38	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Bis(2-chloroethyl)ether	<0.035		0.38	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
bis(chloroisopropyl) ether	<0.055		0.38	0.055	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Bis(2-ethylhexyl) phthalate	<0.30		0.38	0.30	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Butyl benzyl phthalate	<0.038		0.38	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Carbazole	**0.053**	**J**	0.38	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Dibenzofuran	**0.061**	**J**	0.38	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Diethyl phthalate	<0.035		0.38	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Dimethyl phthalate	<0.017		0.38	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Di-n-butyl phthalate	<0.024		0.38	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Di-n-octyl phthalate	<0.53		0.76	0.53	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Hexachlorobenzene	<0.015		0.15	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Hexachlorobutadiene	<0.043		0.38	0.043	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2

Client Sample ID: SB12 (0-3)
Lab Sample ID: 500-255917-13
Date Collected: 08/29/24 09:23
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 87.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.81		1.5	0.81	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Hexachloroethane	<0.038		0.38	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Isophorone	<0.039		0.38	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Nitrobenzene	<0.024		0.076	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
N-Nitrosodiphenylamine	<0.045		0.38	0.045	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Pentachlorophenol	<0.19		1.5	0.19	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2
Phenol	<0.033		0.38	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 17:26	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*45*		*31 - 166*	*09/12/24 11:30*	*09/13/24 17:26*	*2*
Phenol-d5 (Surr)	*48*		*30 - 153*	*09/12/24 11:30*	*09/13/24 17:26*	*2*
Nitrobenzene-d5 (Surr)	*59*		*37 - 147*	*09/12/24 11:30*	*09/13/24 17:26*	*2*
2-Fluorobiphenyl (Surr)	*58*		*43 - 145*	*09/12/24 11:30*	*09/13/24 17:26*	*2*
2,4,6-Tribromophenol (Surr)	*33*		*31 - 143*	*09/12/24 11:30*	*09/13/24 17:26*	*2*
Terphenyl-d14 (Surr)	*52*		*42 - 157*	*09/12/24 11:30*	*09/13/24 17:26*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
4,4'-DDE	<0.0097		0.019	0.0097	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
4,4'-DDT	<0.0089		0.019	0.0089	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Chlordane (technical)	<0.036		0.074	0.036	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
delta-BHC	<0.0090		0.019	0.0090	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Dieldrin	<0.0098		0.019	0.0098	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Endrin	<0.0096		0.019	0.0096	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Endrin ketone	<0.0091		0.019	0.0091	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
gamma-BHC (Lindane)	<0.0093		0.019	0.0093	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Methoxychlor	<0.012		0.092	0.012	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10
Toxaphene	<0.075		0.19	0.075	mg/Kg	☼	09/11/24 07:33	09/13/24 16:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*221*	*S1+*	*33 - 148*	*09/11/24 07:33*	*09/13/24 16:18*	*10*
Tetrachloro-m-xylene	*61*		*30 - 121*	*09/11/24 07:33*	*09/13/24 16:18*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 02:00	1
PCB-1221	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 02:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB12 (0-3)
Lab Sample ID: 500-255917-13
Date Collected: 08/29/24 09:23
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 87.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 02:00	1
PCB-1242	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 02:00	1
PCB-1248	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 02:00	1
PCB-1254	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 02:00	1
PCB-1260	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 02:00	1
Polychlorinated biphenyls, Total	<0.019		0.019		mg/Kg	☼	09/11/24 07:33	09/17/24 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*49 - 129*	*09/11/24 07:33*	*09/17/24 02:00*	*1*
DCB Decachlorobiphenyl	*117*		*37 - 121*	*09/11/24 07:33*	*09/17/24 02:00*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		21		mg/Kg	☼	09/16/24 09:08	09/17/24 03:37	1
Antimony	<2.1		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 03:37	1
Arsenic	**12**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Barium	**160**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 03:37	1
Beryllium	**3.1**		0.83		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Cadmium	**0.97**		0.42		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Calcium	**88000**	**B**	42		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Chromium	**77**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 03:37	1
Cobalt	**7.0**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Copper	**65**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Iron	**81000**		42		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Lead	**150**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Magnesium	**17000**		10		mg/Kg	☼	09/16/24 09:08	09/17/24 03:37	1
Manganese	**3900**	**B**	2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Nickel	**34**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Potassium	**1200**		52		mg/Kg	☼	09/16/24 09:08	09/17/24 03:37	1
Selenium	**2.9**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Silver	<1.0		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Sodium	**670**		210		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Thallium	**17**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Vanadium	**54**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 15:18	2
Zinc	**350**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 03:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.91**		0.036		mg/Kg	☼	09/17/24 17:05	09/18/24 13:45	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.5**		0.24		mg/Kg	☼	09/03/24 01:11	09/03/24 16:28	1
pH (SW846 9045D)	**8.42**		0.20		SU			09/05/24 12:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB12 (7.5-10)
Lab Sample ID: 500-255917-14

Date Collected: 08/29/24 09:30
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 93.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00088		0.0022	0.00088	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
1,1-Dichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
1,1-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
2-Butanone (MEK)	<0.0024		0.0054	0.0024	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0054	0.0039	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Acetone	<0.0091		0.022	0.0091	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Benzene	<0.00068		0.0022	0.00068	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Bromodichloromethane	<0.00070		0.0022	0.00070	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Bromomethane	<0.0027		0.0054	0.0027	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Carbon disulfide	<0.0010		0.0054	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Carbon tetrachloride	<0.00074		0.0022	0.00074	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Chlorobenzene	<0.00092		0.0022	0.00092	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Chloromethane	<0.0011		0.0054	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
cis-1,2-Dichloroethene	<0.00088		0.0022	0.00088	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Methyl tert-butyl ether	<0.00070		0.0022	0.00070	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Styrene	<0.00098		0.0022	0.00098	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Xylenes, Total	<0.00074		0.0043	0.00074	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
trans-1,2-Dichloroethene	<0.00082		0.0022	0.00082	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Trichloroethene	<0.00059		0.0022	0.00059	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1
Vinyl chloride	<0.00089		0.0022	0.00089	mg/Kg	☼	08/30/24 18:42	09/10/24 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*08/30/24 18:42*	*09/10/24 15:54*	*1*
4-Bromofluorobenzene (Surr)	*111*		*75 - 131*	*08/30/24 18:42*	*09/10/24 15:54*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*08/30/24 18:42*	*09/10/24 15:54*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*08/30/24 18:42*	*09/10/24 15:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.034	0.0070	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Acenaphthylene	<0.0058		0.034	0.0058	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Anthracene	<0.0070		0.034	0.0070	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Benzo[a]anthracene	**0.017**	**J**	0.034	0.0073	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Benzo[a]pyrene	<0.033		0.034	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Benzo[b]fluoranthene	<0.033		0.034	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Benzo[g,h,i]perylene	**0.018**	**J**	0.034	0.0074	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB12 (7.5-10)
Lab Sample ID: 500-255917-14
Date Collected: 08/29/24 09:30
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 93.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.034	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Chrysene	**0.019**	**J**	0.034	0.0090	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Dibenz(a,h)anthracene	<0.034		0.034	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Fluoranthene	**0.019**	**J**	0.034	0.0080	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Fluorene	<0.010		0.034	0.010	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Indeno[1,2,3-cd]pyrene	<0.033		0.034	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Naphthalene	<0.0062		0.034	0.0062	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Phenanthrene	**0.048**		0.034	0.0075	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Pyrene	**0.019**	**J**	0.034	0.0094	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
1,2,4-Trichlorobenzene	<0.025		0.17	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
1,3-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2,4-Dimethylphenol	<0.077		0.34	0.077	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2,4-Dinitrophenol	<0.20		0.69	0.20	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2,4-Dinitrotoluene	<0.020		0.17	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2-Methylnaphthalene	**0.0076**	**J**	0.069	0.0069	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
2-Nitrophenol	<0.023		0.34	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
3-Nitroaniline	<0.016		0.34	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
4,6-Dinitro-2-methylphenol	<0.19		0.69	0.19	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
4-Chloroaniline	<0.36		0.69	0.36	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
4-Nitroaniline	<0.025		0.34	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
4-Nitrophenol	<0.13		0.69	0.13	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
bis(chloroisopropyl) ether	<0.025		0.17	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Carbazole	<0.014		0.17	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Diethyl phthalate	**0.020**	**J B**	0.17	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Dimethyl phthalate	<0.0075		0.17	0.0075	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Hexachlorobenzene	<0.0066		0.069	0.0066	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1

Client Sample ID: SB12 (7.5-10) | **Lab Sample ID: 500-255917-14**
Date Collected: 08/29/24 09:30 | **Matrix: Solid**
Date Received: 08/30/24 12:00 | **Percent Solids: 93.7**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.36		0.69	0.36	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
N-Nitrosodi-n-propylamine	<0.0068		0.069	0.0068	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Pentachlorophenol	<0.086		0.69	0.086	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*79*		*31 - 166*	*09/12/24 11:30*	*09/13/24 12:59*	*1*
Phenol-d5 (Surr)	*82*		*30 - 153*	*09/12/24 11:30*	*09/13/24 12:59*	*1*
Nitrobenzene-d5 (Surr)	*87*		*37 - 147*	*09/12/24 11:30*	*09/13/24 12:59*	*1*
2-Fluorobiphenyl (Surr)	*83*		*43 - 145*	*09/12/24 11:30*	*09/13/24 12:59*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*31 - 143*	*09/12/24 11:30*	*09/13/24 12:59*	*1*
Terphenyl-d14 (Surr)	*89*		*42 - 157*	*09/12/24 11:30*	*09/13/24 12:59*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00095		0.0018	0.00095	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
4,4'-DDE	<0.00091		0.0018	0.00091	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
4,4'-DDT	<0.00084		0.0018	0.00084	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Aldrin	<0.0012		0.0018	0.0012	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
alpha-BHC	<0.0010		0.0018	0.0010	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
alpha-Chlordane	<0.00095		0.0018	0.00095	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
beta-BHC	<0.0014		0.0018	0.0014	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Chlordane (technical)	<0.0034		0.0070	0.0034	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
delta-BHC	<0.00085		0.0018	0.00085	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Dieldrin	<0.00093		0.0018	0.00093	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Endosulfan I	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Endosulfan II	<0.00097		0.0018	0.00097	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Endosulfan sulfate	<0.00098		0.0018	0.00098	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Endrin	<0.00090		0.0018	0.00090	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Endrin aldehyde	<0.0010		0.0018	0.0010	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Endrin ketone	<0.00086		0.0018	0.00086	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
gamma-BHC (Lindane)	<0.00088		0.0018	0.00088	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Heptachlor	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Heptachlor epoxide	<0.00095		0.0018	0.00095	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Methoxychlor	<0.0012		0.0087	0.0012	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1
Toxaphene	<0.0071		0.018	0.0071	mg/Kg	☼	09/11/24 07:33	09/13/24 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*33 - 148*	*09/11/24 07:33*	*09/13/24 16:29*	*1*
Tetrachloro-m-xylene	*52*		*30 - 121*	*09/11/24 07:33*	*09/13/24 16:29*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 02:14	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 02:14	1

Client Sample ID: SB12 (7.5-10)
Lab Sample ID: 500-255917-14
Date Collected: 08/29/24 09:30
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 93.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 02:14	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 02:14	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 02:14	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 02:14	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 02:14	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/11/24 07:33	09/17/24 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*49 - 129*	*09/11/24 07:33*	*09/17/24 02:14*	*1*
DCB Decachlorobiphenyl	*80*		*37 - 121*	*09/11/24 07:33*	*09/17/24 02:14*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2100**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Antimony	<1.9		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Arsenic	**4.7**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Barium	**13**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Beryllium	<0.38		0.38		mg/Kg	☼	09/16/24 09:08	09/17/24 15:27	1
Cadmium	<0.19		0.19		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Calcium	**6600**	**B**	19		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Chromium	**7.6**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Cobalt	**2.8**		0.48		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Copper	**8.3**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Iron	**22000**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Lead	**14**		0.48		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Magnesium	**1700**		9.5		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Manganese	**350**	**B**	0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 15:27	1
Nickel	**5.7**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Potassium	**420**		48		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Selenium	<0.95		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Silver	<0.48		0.48		mg/Kg	☼	09/16/24 09:08	09/17/24 15:27	1
Sodium	<95		95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Thallium	<0.95		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Vanadium	**13**		0.48		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1
Zinc	**130**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 03:42	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/17/24 17:05	09/18/24 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.60**	**F1**	0.25		mg/Kg	☼	09/03/24 01:11	09/03/24 16:33	1
pH (SW846 9045D)	**8.01**		0.20		SU			09/05/24 12:33	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB13 (0-3)
Lab Sample ID: 500-255917-15
Date Collected: 08/29/24 10:45
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 93.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00075		0.0019	0.00075	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
1,1,2,2-Tetrachloroethane	<0.00092		0.0019	0.00092	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
1,1,2-Trichloroethane	<0.00069		0.0019	0.00069	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
1,1-Dichloroethane	<0.00070		0.0019	0.00070	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
1,1-Dichloroethene	<0.00076		0.0019	0.00076	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
1,2-Dichloroethane	<0.0012		0.0046	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
1,2-Dichloropropane	<0.00048		0.0019	0.00048	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
2-Hexanone	<0.0028		0.0046	0.0028	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
4-Methyl-2-pentanone (MIBK)	<0.0033		0.0046	0.0033	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Acetone	**0.0099**	**J**	0.019	0.0078	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Benzene	<0.00058		0.0019	0.00058	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Bromodichloromethane	<0.00060		0.0019	0.00060	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Bromoform	<0.0011		0.0019	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Bromomethane	<0.0023		0.0046	0.0023	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Carbon disulfide	**0.0012**	**J**	0.0046	0.00085	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Carbon tetrachloride	<0.00063		0.0019	0.00063	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Chlorobenzene	<0.00078		0.0019	0.00078	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Chloroethane	<0.0015		0.0046	0.0015	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Chloroform	<0.0013		0.0019	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Chloromethane	<0.00090		0.0046	0.00090	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
cis-1,2-Dichloroethene	<0.00075		0.0019	0.00075	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
1,3-Dichloropropene, Total	<0.00089		0.0019	0.00089	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Dibromochloromethane	<0.00086		0.0019	0.00086	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Ethylbenzene	<0.00098		0.0019	0.00098	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Methyl tert-butyl ether	<0.00060		0.0019	0.00060	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Methylene Chloride	<0.0020		0.0046	0.0020	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Styrene	<0.00083		0.0019	0.00083	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Tetrachloroethene	<0.0010		0.0019	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Toluene	<0.00037		0.0019	0.00037	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Xylenes, Total	<0.00064		0.0037	0.00064	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
trans-1,2-Dichloroethene	<0.00070		0.0019	0.00070	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Trichloroethene	<0.00050		0.0019	0.00050	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1
Vinyl chloride	<0.00076		0.0019	0.00076	mg/Kg	☼	08/30/24 18:42	09/10/24 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*08/30/24 18:42*	*09/10/24 16:18*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 131*	*08/30/24 18:42*	*09/10/24 16:18*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*08/30/24 18:42*	*09/10/24 16:18*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*08/30/24 18:42*	*09/10/24 16:18*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.014		0.070	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Acenaphthylene	**0.027**	**J**	0.070	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Anthracene	**0.039**	**J**	0.070	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Benzo[a]anthracene	**0.14**		0.070	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Benzo[a]pyrene	**0.16**		0.070	0.068	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Benzo[b]fluoranthene	**0.25**		0.070	0.067	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Benzo[g,h,i]perylene	**0.095**		0.070	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB13 (0-3)
Lab Sample ID: 500-255917-15
Date Collected: 08/29/24 10:45
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 93.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.082**		0.070	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Chrysene	**0.17**		0.070	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Dibenz(a,h)anthracene	<0.070		0.070	0.070	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Fluoranthene	**0.25**		0.070	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Fluorene	<0.021		0.070	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Indeno[1,2,3-cd]pyrene	**0.092**		0.070	0.069	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Naphthalene	**0.029**	**J**	0.070	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Phenanthrene	**0.22**		0.070	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Pyrene	**0.19**		0.070	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
1,2,4-Trichlorobenzene	<0.050		0.36	0.050	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
1,4-Dichlorobenzene	<0.033		0.36	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2,4,5-Trichlorophenol	<0.027		0.70	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2,4,6-Trichlorophenol	<0.024		0.70	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2,4-Dichlorophenol	<0.025		0.70	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2,4-Dimethylphenol	<0.16		0.70	0.16	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2,4-Dinitrotoluene	<0.040		0.36	0.040	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2-Chloronaphthalene	<0.026		0.36	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2-Methylnaphthalene	**0.067**	**J**	0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2-Methylphenol	<0.037		0.36	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
2-Nitrophenol	<0.048		0.70	0.048	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
3-Nitroaniline	<0.032		0.70	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
4-Bromophenyl phenyl ether	<0.048		0.36	0.048	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
4-Chloro-3-methylphenol	<0.027		0.70	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
4-Chloroaniline	<0.74		1.4	0.74	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
4-Chlorophenyl phenyl ether	<0.093		0.36	0.093	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
4-Nitroaniline	<0.052		0.70	0.052	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Bis(2-chloroethoxy)methane	<0.026		0.36	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Butyl benzyl phthalate	<0.035		0.36	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Carbazole	**0.031**	**J**	0.36	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Dibenzofuran	**0.031**	**J**	0.36	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Diethyl phthalate	<0.032		0.36	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Dimethyl phthalate	<0.015		0.36	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Di-n-butyl phthalate	<0.022		0.36	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Di-n-octyl phthalate	<0.49		0.70	0.49	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2

Client Sample ID: SB13 (0-3)
Lab Sample ID: 500-255917-15
Date Collected: 08/29/24 10:45
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 93.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.75		1.4	0.75	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Hexachloroethane	<0.035		0.36	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Isophorone	<0.036		0.36	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Nitrobenzene	<0.022		0.070	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 17:50	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*68*		*31 - 166*	*09/12/24 11:30*	*09/13/24 17:50*	*2*
Phenol-d5 (Surr)	*70*		*30 - 153*	*09/12/24 11:30*	*09/13/24 17:50*	*2*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*09/12/24 11:30*	*09/13/24 17:50*	*2*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*	*09/12/24 11:30*	*09/13/24 17:50*	*2*
2,4,6-Tribromophenol (Surr)	*29*	*S1-*	*31 - 143*	*09/12/24 11:30*	*09/13/24 17:50*	*2*
Terphenyl-d14 (Surr)	*70*		*42 - 157*	*09/12/24 11:30*	*09/13/24 17:50*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0046		0.0086	0.0046	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
4,4'-DDE	<0.0044		0.0086	0.0044	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
4,4'-DDT	<0.0040		0.0086	0.0040	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Aldrin	<0.0059		0.0086	0.0059	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
alpha-BHC	<0.0048		0.0086	0.0048	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
alpha-Chlordane	<0.0045		0.0086	0.0045	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
beta-BHC	<0.0068		0.0086	0.0068	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Chlordane (technical)	<0.016		0.034	0.016	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
delta-BHC	<0.0041		0.0086	0.0041	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Dieldrin	<0.0044		0.0086	0.0044	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Endosulfan I	<0.0046		0.0086	0.0046	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Endosulfan II	<0.0047		0.0086	0.0047	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Endosulfan sulfate	<0.0047		0.0086	0.0047	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Endrin	<0.0043		0.0086	0.0043	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Endrin aldehyde	<0.0048		0.0086	0.0048	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Endrin ketone	<0.0041		0.0086	0.0041	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
gamma-BHC (Lindane)	<0.0042		0.0086	0.0042	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
gamma-Chlordane	<0.0049		0.0086	0.0049	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Heptachlor	<0.0046		0.0086	0.0046	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Heptachlor epoxide	<0.0046		0.0086	0.0046	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Methoxychlor	<0.0056		0.042	0.0056	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5
Toxaphene	<0.034		0.084	0.034	mg/Kg	☼	09/11/24 07:33	09/13/24 16:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*313*	*S1+*	*33 - 148*	*09/11/24 07:33*	*09/13/24 16:41*	*5*
Tetrachloro-m-xylene	*108*		*30 - 121*	*09/11/24 07:33*	*09/13/24 16:41*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:29	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:29	1

Client Sample ID: SB13 (0-3)
Lab Sample ID: 500-255917-15
Date Collected: 08/29/24 10:45
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 93.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:29	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:29	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:29	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:29	1
PCB-1260	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:29	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*49 - 129*	*09/11/24 07:33*	*09/17/24 02:29*	*1*
DCB Decachlorobiphenyl	*133*	*S1+*	*37 - 121*	*09/11/24 07:33*	*09/17/24 02:29*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 03:46	1
Antimony	<3.9		3.9		mg/Kg	☼	09/16/24 09:08	09/17/24 15:32	2
Arsenic	**11**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 15:32	2
Barium	**300**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 15:45	20
Beryllium	**2.8**		0.78		mg/Kg	☼	09/16/24 09:08	09/17/24 15:32	2
Cadmium	**0.99**		0.39		mg/Kg	☼	09/16/24 09:08	09/17/24 15:32	2
Calcium	**170000**	**B**	390		mg/Kg	☼	09/16/24 09:08	09/17/24 15:45	20
Chromium	**860**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 15:45	20
Cobalt	**11**		0.97		mg/Kg	☼	09/16/24 09:08	09/17/24 15:32	2
Copper	**80**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 15:45	20
Iron	**130000**		390		mg/Kg	☼	09/16/24 09:08	09/17/24 15:45	20
Lead	**180**		9.7		mg/Kg	☼	09/16/24 09:08	09/17/24 15:45	20
Magnesium	**15000**		9.7		mg/Kg	☼	09/16/24 09:08	09/17/24 03:46	1
Manganese	**23000**	**B**	19		mg/Kg	☼	09/16/24 09:08	09/17/24 15:45	20
Nickel	**34**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 15:45	20
Potassium	**1300**		49		mg/Kg	☼	09/16/24 09:08	09/17/24 03:46	1
Selenium	**10**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 15:32	2
Silver	<0.97		0.97		mg/Kg	☼	09/16/24 09:08	09/17/24 15:32	2
Sodium	**540**		190		mg/Kg	☼	09/16/24 09:08	09/17/24 15:32	2
Thallium	**110**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 15:45	20
Vanadium	**230**		9.7		mg/Kg	☼	09/16/24 09:08	09/17/24 15:45	20
Zinc	**200**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 03:46	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.82**		0.034		mg/Kg	☼	09/17/24 17:05	09/18/24 13:47	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**12**		2.6		mg/Kg	☼	09/03/24 01:11	09/04/24 12:27	10
pH (SW846 9045D)	**10.22**		0.20		SU			09/05/24 12:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB13 (5-7.5)
Lab Sample ID: 500-255917-16
Date Collected: 08/29/24 10:54
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 89.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00088		0.0022	0.00088	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
1,1-Dichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
1,1-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
2-Butanone (MEK)	<0.0024		0.0054	0.0024	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0054	0.0039	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Acetone	<0.0091		0.022	0.0091	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Benzene	<0.00068		0.0022	0.00068	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Bromodichloromethane	<0.00070		0.0022	0.00070	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Bromomethane	<0.0027		0.0054	0.0027	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Carbon disulfide	**0.0020**	**J**	0.0054	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Carbon tetrachloride	<0.00074		0.0022	0.00074	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Chlorobenzene	<0.00092		0.0022	0.00092	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Chloromethane	<0.0011		0.0054	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
cis-1,2-Dichloroethene	<0.00088		0.0022	0.00088	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Methyl tert-butyl ether	<0.00070		0.0022	0.00070	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Styrene	<0.00098		0.0022	0.00098	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Xylenes, Total	<0.00074		0.0043	0.00074	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
trans-1,2-Dichloroethene	<0.00082		0.0022	0.00082	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Trichloroethene	<0.00059		0.0022	0.00059	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1
Vinyl chloride	<0.00089		0.0022	0.00089	mg/Kg	☼	08/30/24 18:42	09/10/24 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*08/30/24 18:42*	*09/10/24 16:42*	*1*
4-Bromofluorobenzene (Surr)	*114*		*75 - 131*	*08/30/24 18:42*	*09/10/24 16:42*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*08/30/24 18:42*	*09/10/24 16:42*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*08/30/24 18:42*	*09/10/24 16:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.035	0.0072	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Acenaphthylene	**0.013**	**J**	0.035	0.0060	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Anthracene	**0.027**	**J**	0.035	0.0072	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Benzo[a]anthracene	**0.11**		0.035	0.0075	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Benzo[a]pyrene	**0.093**		0.035	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Benzo[b]fluoranthene	**0.16**		0.035	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Benzo[g,h,i]perylene	**0.081**		0.035	0.0077	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB13 (5-7.5)
Lab Sample ID: 500-255917-16
Date Collected: 08/29/24 10:54
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 89.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.055**		0.035	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Chrysene	**0.13**		0.035	0.0093	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Fluoranthene	**0.17**		0.035	0.0082	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Indeno[1,2,3-cd]pyrene	**0.082**		0.035	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Naphthalene	**0.057**		0.035	0.0064	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Phenanthrene	**0.30**		0.035	0.0077	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Pyrene	**0.14**		0.035	0.0097	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2,4-Dimethylphenol	<0.079		0.35	0.079	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2,4-Dinitrophenol	<0.21		0.72	0.21	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2-Methylnaphthalene	**0.085**		0.072	0.0071	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
4,6-Dinitro-2-methylphenol	<0.20		0.72	0.20	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
4-Chloroaniline	<0.37		0.72	0.37	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
4-Nitrophenol	<0.13		0.72	0.13	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Dibenzofuran	**0.029**	**J**	0.18	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Diethyl phthalate	**0.021**	**J B**	0.18	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Hexachlorobenzene	<0.0068		0.072	0.0068	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB13 (5-7.5)
Lab Sample ID: 500-255917-16
Date Collected: 08/29/24 10:54
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 89.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.72	0.38	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
N-Nitrosodi-n-propylamine	<0.0070		0.072	0.0070	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Pentachlorophenol	<0.089		0.72	0.089	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*56*		*31 - 166*	*09/12/24 11:30*	*09/13/24 13:24*	*1*
Phenol-d5 (Surr)	*58*		*30 - 153*	*09/12/24 11:30*	*09/13/24 13:24*	*1*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*09/12/24 11:30*	*09/13/24 13:24*	*1*
2-Fluorobiphenyl (Surr)	*65*		*43 - 145*	*09/12/24 11:30*	*09/13/24 13:24*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*31 - 143*	*09/12/24 11:30*	*09/13/24 13:24*	*1*
Terphenyl-d14 (Surr)	*73*		*42 - 157*	*09/12/24 11:30*	*09/13/24 13:24*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00095		0.0018	0.00095	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
4,4'-DDE	<0.00091		0.0018	0.00091	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
4,4'-DDT	<0.00084		0.0018	0.00084	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
Aldrin	<0.0012		0.0018	0.0012	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
alpha-BHC	<0.00099		0.0018	0.00099	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
alpha-Chlordane	<0.00094		0.0018	0.00094	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
beta-BHC	<0.0014		0.0018	0.0014	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
Chlordane (technical)	<0.0034		0.0070	0.0034	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
delta-BHC	<0.0042		0.0089	0.0042	mg/Kg	☼	09/11/24 07:33	09/16/24 18:33	5
Dieldrin	<0.00092		0.0018	0.00092	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
Endosulfan I	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
Endosulfan II	<0.00097		0.0018	0.00097	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
Endosulfan sulfate	<0.0049		0.0089	0.0049	mg/Kg	☼	09/11/24 07:33	09/16/24 18:33	5
Endrin	<0.00090		0.0018	0.00090	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
Endrin aldehyde	<0.0050		0.0089	0.0050	mg/Kg	☼	09/11/24 07:33	09/16/24 18:33	5
Endrin ketone	<0.00086		0.0018	0.00086	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
gamma-BHC (Lindane)	<0.00088		0.0018	0.00088	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
Heptachlor	<0.00096		0.0018	0.00096	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
Heptachlor epoxide	<0.00095		0.0018	0.00095	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
Methoxychlor	<0.0012		0.0087	0.0012	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1
Toxaphene	<0.0071		0.017	0.0071	mg/Kg	☼	09/11/24 07:33	09/16/24 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*33 - 148*	*09/11/24 07:33*	*09/16/24 18:33*	*5*
Tetrachloro-m-xylene	*65*		*30 - 121*	*09/11/24 07:33*	*09/16/24 18:33*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:44	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:44	1

Client Sample ID: SB13 (5-7.5)
Lab Sample ID: 500-255917-16
Date Collected: 08/29/24 10:54
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 89.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:44	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:44	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:44	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:44	1
PCB-1260	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:44	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*49 - 129*	*09/11/24 07:33*	*09/17/24 02:44*	*1*
DCB Decachlorobiphenyl	*116*		*37 - 121*	*09/11/24 07:33*	*09/17/24 02:44*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9300**		22		mg/Kg	☼	09/16/24 09:08	09/17/24 04:00	1
Antimony	<2.2		2.2		mg/Kg	☼	09/16/24 09:08	09/17/24 04:00	1
Arsenic	**13**		2.2		mg/Kg	☼	09/16/24 09:08	09/17/24 15:49	2
Barium	**590**		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 04:00	1
Beryllium	**2.4**		0.87		mg/Kg	☼	09/16/24 09:08	09/17/24 15:49	2
Cadmium	**0.70**		0.44		mg/Kg	☼	09/16/24 09:08	09/17/24 15:49	2
Calcium	**57000**	**B**	44		mg/Kg	☼	09/16/24 09:08	09/17/24 15:49	2
Chromium	**31**		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 04:00	1
Cobalt	**6.2**		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 15:49	2
Copper	**3400**		22		mg/Kg	☼	09/16/24 09:08	09/17/24 15:54	20
Iron	**130000**		440		mg/Kg	☼	09/16/24 09:08	09/17/24 15:54	20
Lead	**920**		11		mg/Kg	☼	09/16/24 09:08	09/17/24 15:54	20
Magnesium	**11000**		11		mg/Kg	☼	09/16/24 09:08	09/17/24 04:00	1
Manganese	**3800**	**B**	2.2		mg/Kg	☼	09/16/24 09:08	09/17/24 15:49	2
Nickel	**19**		2.2		mg/Kg	☼	09/16/24 09:08	09/17/24 15:49	2
Potassium	**620**		55		mg/Kg	☼	09/16/24 09:08	09/17/24 04:00	1
Selenium	**3.3**		2.2		mg/Kg	☼	09/16/24 09:08	09/17/24 15:49	2
Silver	<1.1		1.1		mg/Kg	☼	09/16/24 09:08	09/17/24 15:49	2
Sodium	**320**		220		mg/Kg	☼	09/16/24 09:08	09/17/24 15:49	2
Thallium	**16**		2.2		mg/Kg	☼	09/16/24 09:08	09/17/24 15:49	2
Vanadium	**37**		11		mg/Kg	☼	09/16/24 09:08	09/17/24 15:54	20
Zinc	**560**		4.4		mg/Kg	☼	09/16/24 09:08	09/17/24 15:49	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.017		mg/Kg	☼	09/17/24 17:05	09/18/24 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.0**		0.26		mg/Kg	☼	09/03/24 01:11	09/03/24 16:40	1
pH (SW846 9045D)	**8.54**		0.20		SU			09/05/24 12:37	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB14 (0-3)
Date Collected: 08/29/24 12:09
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-17
Matrix: Solid
Percent Solids: 93.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00060		0.0015	0.00060	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
1,1,2,2-Tetrachloroethane	<0.00074		0.0015	0.00074	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
1,1,2-Trichloroethane	<0.00056		0.0015	0.00056	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
1,1-Dichloroethane	<0.00056		0.0015	0.00056	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
1,1-Dichloroethene	<0.00061		0.0015	0.00061	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
1,2-Dichloroethane	<0.00096		0.0037	0.00096	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
1,2-Dichloropropane	<0.00038		0.0015	0.00038	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
2-Butanone (MEK)	<0.0016		0.0037	0.0016	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
2-Hexanone	<0.0023		0.0037	0.0023	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
4-Methyl-2-pentanone (MIBK)	<0.0026		0.0037	0.0026	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Acetone	<0.0062		0.015	0.0062	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Benzene	<0.00047		0.0015	0.00047	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Bromodichloromethane	<0.00048		0.0015	0.00048	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Bromoform	<0.00087		0.0015	0.00087	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Bromomethane	<0.0018		0.0037	0.0018	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Carbon disulfide	<0.00068		0.0037	0.00068	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Carbon tetrachloride	<0.00051		0.0015	0.00051	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Chlorobenzene	<0.00063		0.0015	0.00063	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Chloroethane	<0.0012		0.0037	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Chloroform	<0.0011		0.0015	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Chloromethane	<0.00072		0.0037	0.00072	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
cis-1,2-Dichloroethene	<0.00060		0.0015	0.00060	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
1,3-Dichloropropene, Total	<0.00071		0.0015	0.00071	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Dibromochloromethane	<0.00069		0.0015	0.00069	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Ethylbenzene	<0.00078		0.0015	0.00078	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Methyl tert-butyl ether	<0.00048		0.0015	0.00048	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Methylene Chloride	<0.0016		0.0037	0.0016	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Styrene	<0.00067		0.0015	0.00067	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Tetrachloroethene	<0.00083		0.0015	0.00083	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Toluene	<0.00030		0.0015	0.00030	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Xylenes, Total	<0.00051		0.0030	0.00051	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
trans-1,2-Dichloroethene	<0.00056		0.0015	0.00056	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Trichloroethene	<0.00040		0.0015	0.00040	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1
Vinyl chloride	<0.00061		0.0015	0.00061	mg/Kg	☼	08/30/24 18:42	09/10/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*08/30/24 18:42*	*09/10/24 17:06*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*08/30/24 18:42*	*09/10/24 17:06*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*08/30/24 18:42*	*09/10/24 17:06*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*08/30/24 18:42*	*09/10/24 17:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.015**	**J**	0.070	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Acenaphthylene	**0.069**	**J**	0.070	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Anthracene	**0.095**		0.070	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Benzo[a]anthracene	**0.30**		0.070	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Benzo[a]pyrene	**0.28**		0.070	0.068	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Benzo[b]fluoranthene	**0.52**		0.070	0.067	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Benzo[g,h,i]perylene	**0.18**		0.070	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB14 (0-3)
Lab Sample ID: 500-255917-17
Date Collected: 08/29/24 12:09
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 93.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.14**		0.070	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Chrysene	**0.31**		0.070	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Dibenz(a,h)anthracene	<0.070		0.070	0.070	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Fluoranthene	**0.42**		0.070	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Fluorene	<0.021		0.070	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Indeno[1,2,3-cd]pyrene	**0.18**		0.070	0.069	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Naphthalene	**0.033**	J	0.070	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Phenanthrene	**0.40**		0.070	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Pyrene	**0.35**		0.070	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
1,2,4-Trichlorobenzene	<0.050		0.36	0.050	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
1,4-Dichlorobenzene	<0.033		0.36	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2,4,5-Trichlorophenol	<0.027		0.70	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2,4,6-Trichlorophenol	<0.024		0.70	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2,4-Dichlorophenol	<0.025		0.70	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2,4-Dimethylphenol	<0.16		0.70	0.16	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2,4-Dinitrotoluene	<0.040		0.36	0.040	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2-Chloronaphthalene	<0.026		0.36	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2-Methylnaphthalene	**0.059**	J	0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2-Methylphenol	<0.037		0.36	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
2-Nitrophenol	<0.048		0.70	0.048	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
3-Nitroaniline	<0.032		0.70	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
4-Bromophenyl phenyl ether	<0.048		0.36	0.048	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
4-Chloro-3-methylphenol	<0.027		0.70	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
4-Chloroaniline	<0.74		1.4	0.74	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
4-Chlorophenyl phenyl ether	<0.093		0.36	0.093	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
4-Nitroaniline	<0.052		0.70	0.052	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Bis(2-chloroethoxy)methane	<0.026		0.36	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Butyl benzyl phthalate	<0.035		0.36	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Carbazole	**0.039**	J	0.36	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Dibenzofuran	**0.032**	J	0.36	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Diethyl phthalate	<0.032		0.36	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Dimethyl phthalate	<0.015		0.36	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Di-n-butyl phthalate	<0.022		0.36	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Di-n-octyl phthalate	<0.49		0.70	0.49	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2

Client Sample ID: SB14 (0-3)
Lab Sample ID: 500-255917-17
Date Collected: 08/29/24 12:09
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 93.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.75		1.4	0.75	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Hexachloroethane	<0.035		0.36	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Isophorone	<0.036		0.36	0.036	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Nitrobenzene	<0.022		0.070	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/12/24 11:30	09/13/24 18:14	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*64*		*31 - 166*	*09/12/24 11:30*	*09/13/24 18:14*	*2*
Phenol-d5 (Surr)	*66*		*30 - 153*	*09/12/24 11:30*	*09/13/24 18:14*	*2*
Nitrobenzene-d5 (Surr)	*71*		*37 - 147*	*09/12/24 11:30*	*09/13/24 18:14*	*2*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/12/24 11:30*	*09/13/24 18:14*	*2*
2,4,6-Tribromophenol (Surr)	*53*		*31 - 143*	*09/12/24 11:30*	*09/13/24 18:14*	*2*
Terphenyl-d14 (Surr)	*71*		*42 - 157*	*09/12/24 11:30*	*09/13/24 18:14*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00092		0.0017	0.00092	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
4,4'-DDE	<0.00088		0.0017	0.00088	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
4,4'-DDT	<0.00081		0.0017	0.00081	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
alpha-BHC	<0.00096		0.0017	0.00096	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
alpha-Chlordane	<0.00091		0.0017	0.00091	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
Chlordane (technical)	<0.0032		0.0068	0.0032	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
delta-BHC	<0.0041		0.0086	0.0041	mg/Kg	☼	09/11/24 07:33	09/16/24 18:56	5
Dieldrin	<0.00089		0.0017	0.00089	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
Endosulfan I	<0.00092		0.0017	0.00092	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
Endosulfan sulfate	<0.0047		0.0086	0.0047	mg/Kg	☼	09/11/24 07:33	09/16/24 18:56	5
Endrin	<0.00087		0.0017	0.00087	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
Endrin aldehyde	<0.0049		0.0086	0.0049	mg/Kg	☼	09/11/24 07:33	09/16/24 18:56	5
Endrin ketone	<0.00083		0.0017	0.00083	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
gamma-BHC (Lindane)	<0.00085		0.0017	0.00085	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
gamma-Chlordane	<0.00098		0.0017	0.00098	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
Heptachlor	<0.00092		0.0017	0.00092	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
Heptachlor epoxide	<0.00092		0.0017	0.00092	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
Methoxychlor	<0.0011		0.0084	0.0011	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1
Toxaphene	<0.0068		0.017	0.0068	mg/Kg	☼	09/11/24 07:33	09/16/24 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*147*		*33 - 148*	*09/11/24 07:33*	*09/16/24 18:44*	*1*
DCB Decachlorobiphenyl	*354*	*S1+*	*33 - 148*	*09/11/24 07:33*	*09/16/24 18:56*	*5*
Tetrachloro-m-xylene	*84*		*30 - 121*	*09/11/24 07:33*	*09/16/24 18:44*	*1*
Tetrachloro-m-xylene	*76*		*30 - 121*	*09/11/24 07:33*	*09/16/24 18:56*	*5*

Client Sample ID: SB14 (0-3)
Lab Sample ID: 500-255917-17

Date Collected: 08/29/24 12:09
Matrix: Solid

Date Received: 08/30/24 12:00
Percent Solids: 93.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:59	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:59	1
PCB-1232	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:59	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:59	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:59	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:59	1
PCB-1260	**0.083**		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:59	1
Polychlorinated biphenyls, Total	**0.083**		0.017		mg/Kg	☼	09/11/24 07:33	09/17/24 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*49 - 129*	*09/11/24 07:33*	*09/17/24 02:59*	*1*
DCB Decachlorobiphenyl	*110*		*37 - 121*	*09/11/24 07:33*	*09/17/24 02:59*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		19		mg/Kg	☼	09/16/24 09:08	09/17/24 04:04	1
Antimony	**51**		3.8		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Arsenic	**11**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Barium	**150**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 04:04	1
Beryllium	**3.0**		0.76		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Cadmium	**3.6**		0.38		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Calcium	**56000**	**B**	19		mg/Kg	☼	09/16/24 09:08	09/17/24 04:04	1
Chromium	**110**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 04:04	1
Cobalt	**7.3**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Copper	**72**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Iron	**95000**		38		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Lead	**15000**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Magnesium	**9400**		9.5		mg/Kg	☼	09/16/24 09:08	09/17/24 04:04	1
Manganese	**3100**	**B**	1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Nickel	**34**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Potassium	**1200**		48		mg/Kg	☼	09/16/24 09:08	09/17/24 04:04	1
Selenium	**3.2**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Silver	<0.95		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Sodium	**530**		190		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Thallium	**14**		1.9		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Vanadium	**29**		0.95		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2
Zinc	**480**		3.8		mg/Kg	☼	09/16/24 09:08	09/17/24 15:59	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.017		mg/Kg	☼	09/17/24 17:05	09/18/24 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**22**		2.6		mg/Kg	☼	09/03/24 01:11	09/04/24 12:31	10
pH (SW846 9045D)	**8.60**		0.20		SU			09/05/24 12:40	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB14 (10-12.5)
Lab Sample ID: 500-255917-18
Date Collected: 08/29/24 12:23
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 77.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0012		0.0029	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0029	0.0014	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
1,1,2-Trichloroethane	<0.0011		0.0029	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
1,1-Dichloroethane	<0.0011		0.0029	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
1,1-Dichloroethene	<0.0012		0.0029	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
1,2-Dichloroethane	<0.0019		0.0072	0.0019	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
1,2-Dichloropropane	<0.00074		0.0029	0.00074	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
2-Butanone (MEK)	<0.0032		0.0072	0.0032	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
2-Hexanone	<0.0044		0.0072	0.0044	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0072	0.0051	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Acetone	<0.012		0.029	0.012	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Benzene	<0.00091		0.0029	0.00091	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Bromodichloromethane	<0.00092		0.0029	0.00092	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Bromoform	<0.0017		0.0029	0.0017	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Bromomethane	<0.0035		0.0072	0.0035	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Carbon disulfide	**0.0020**	**J**	0.0072	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Carbon tetrachloride	<0.00098		0.0029	0.00098	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Chlorobenzene	<0.0012		0.0029	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Chloroethane	<0.0024		0.0072	0.0024	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Chloroform	<0.0021		0.0029	0.0021	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Chloromethane	<0.0014		0.0072	0.0014	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
cis-1,2-Dichloroethene	<0.0012		0.0029	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
1,3-Dichloropropene, Total	<0.0014		0.0029	0.0014	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Dibromochloromethane	<0.0013		0.0029	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Ethylbenzene	<0.0015		0.0029	0.0015	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Methyl tert-butyl ether	<0.00093		0.0029	0.00093	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Methylene Chloride	<0.0031		0.0072	0.0031	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Styrene	<0.0013		0.0029	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Tetrachloroethene	<0.0016		0.0029	0.0016	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Toluene	<0.00058		0.0029	0.00058	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Xylenes, Total	<0.00099		0.0058	0.00099	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
trans-1,2-Dichloroethene	<0.0011		0.0029	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Trichloroethene	<0.00078		0.0029	0.00078	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1
Vinyl chloride	<0.0012		0.0029	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*08/30/24 18:42*	*09/10/24 17:30*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*08/30/24 18:42*	*09/10/24 17:30*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*08/30/24 18:42*	*09/10/24 17:30*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*08/30/24 18:42*	*09/10/24 17:30*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.12**		0.040	0.0082	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Acenaphthylene	**0.016**	**J**	0.040	0.0068	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Anthracene	**0.12**		0.040	0.0082	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Benzo[a]anthracene	**0.11**		0.040	0.0086	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Benzo[a]pyrene	**0.058**		0.040	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Benzo[b]fluoranthene	**0.070**		0.040	0.038	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Benzo[g,h,i]perylene	**0.050**		0.040	0.0087	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB14 (10-12.5)
Lab Sample ID: 500-255917-18
Date Collected: 08/29/24 12:23
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 77.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.024**	**J**	0.040	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Chrysene	**0.14**		0.040	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.040	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Fluoranthene	**0.19**		0.040	0.0094	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Fluorene	**0.11**		0.040	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Indeno[1,2,3-cd]pyrene	<0.039		0.040	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Naphthalene	**0.14**		0.040	0.0073	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Phenanthrene	**1.2**		0.040	0.0088	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Pyrene	**0.18**		0.040	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
1,2,4-Trichlorobenzene	<0.029		0.20	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
1,2-Dichlorobenzene	<0.016		0.20	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
1,3-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
1,4-Dichlorobenzene	<0.019		0.20	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2,4,5-Trichlorophenol	<0.015		0.40	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2,4,6-Trichlorophenol	<0.014		0.40	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2,4-Dichlorophenol	<0.014		0.40	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2,4-Dimethylphenol	**0.13**	**J**	0.40	0.090	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2,4-Dinitrophenol	<0.23		0.81	0.23	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2,4-Dinitrotoluene	<0.023		0.20	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2,6-Dinitrotoluene	<0.014		0.20	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2-Chloronaphthalene	<0.015		0.20	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2-Chlorophenol	<0.013		0.20	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2-Methylnaphthalene	**0.35**		0.081	0.0081	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2-Methylphenol	**0.028**	**J**	0.20	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2-Nitroaniline	<0.022		0.20	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
2-Nitrophenol	<0.027		0.40	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
3,3'-Dichlorobenzidine	<0.033		0.20	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
3 & 4 Methylphenol	**0.14**	**J**	0.20	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
3-Nitroaniline	<0.018		0.40	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
4,6-Dinitro-2-methylphenol	<0.23		0.81	0.23	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
4-Bromophenyl phenyl ether	<0.028		0.20	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
4-Chloro-3-methylphenol	<0.016		0.40	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
4-Chloroaniline	<0.42		0.81	0.42	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
4-Chlorophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
4-Nitroaniline	<0.030		0.40	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
4-Nitrophenol	<0.15		0.81	0.15	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Bis(2-chloroethoxy)methane	<0.015		0.20	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Bis(2-chloroethyl)ether	<0.019		0.20	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
bis(chloroisopropyl) ether	<0.029		0.20	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Bis(2-ethylhexyl) phthalate	<0.16		0.20	0.16	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Butyl benzyl phthalate	<0.020		0.20	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Carbazole	**0.071**	**J**	0.20	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Dibenzofuran	**0.12**	**J**	0.20	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Diethyl phthalate	<0.018		0.20	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Dimethyl phthalate	<0.0088		0.20	0.0088	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Di-n-butyl phthalate	<0.013		0.20	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Di-n-octyl phthalate	<0.28		0.40	0.28	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Hexachlorobenzene	<0.0077		0.081	0.0077	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Hexachlorobutadiene	<0.023		0.20	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1

Client Sample ID: SB14 (10-12.5)
Lab Sample ID: 500-255917-18

Date Collected: 08/29/24 12:23
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 77.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.43		0.81	0.43	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Hexachloroethane	<0.020		0.20	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Isophorone	<0.021		0.20	0.021	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Nitrobenzene	<0.013		0.040	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
N-Nitrosodi-n-propylamine	<0.0080		0.081	0.0080	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
N-Nitrosodiphenylamine	<0.024		0.20	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Pentachlorophenol	<0.10		0.81	0.10	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1
Phenol	**0.27**		0.20	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*65*		*31 - 166*	*09/12/24 11:30*	*09/13/24 13:48*	*1*
Phenol-d5 (Surr)	*70*		*30 - 153*	*09/12/24 11:30*	*09/13/24 13:48*	*1*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*09/12/24 11:30*	*09/13/24 13:48*	*1*
2-Fluorobiphenyl (Surr)	*73*		*43 - 145*	*09/12/24 11:30*	*09/13/24 13:48*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*31 - 143*	*09/12/24 11:30*	*09/13/24 13:48*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*09/12/24 11:30*	*09/13/24 13:48*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0011		0.0021	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
4,4'-DDE	<0.0011		0.0021	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
4,4'-DDT	<0.00099		0.0021	0.00099	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
Aldrin	<0.0014		0.0021	0.0014	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
alpha-BHC	<0.0012		0.0021	0.0012	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
alpha-Chlordane	<0.0011		0.0021	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
beta-BHC	<0.0017		0.0021	0.0017	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
Chlordane (technical)	<0.0039		0.0082	0.0039	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
delta-BHC	<0.0050		0.010	0.0050	mg/Kg	☼	09/04/24 15:38	09/10/24 16:18	5
Dieldrin	<0.0011		0.0021	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
Endosulfan I	<0.0011		0.0021	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
Endosulfan II	<0.0011		0.0021	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
Endosulfan sulfate	<0.0011		0.0021	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
Endrin	<0.0011		0.0021	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
Endrin aldehyde	<0.0059		0.010	0.0059	mg/Kg	☼	09/04/24 15:38	09/10/24 16:18	5
Endrin ketone	<0.0010		0.0021	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
gamma-BHC (Lindane)	<0.0010		0.0021	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
gamma-Chlordane	<0.0012		0.0021	0.0012	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
Heptachlor	<0.0011		0.0021	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
Heptachlor epoxide	<0.0011		0.0021	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
Methoxychlor	<0.0014		0.010	0.0014	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1
Toxaphene	<0.0083		0.021	0.0083	mg/Kg	☼	09/04/24 15:38	09/10/24 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*33 - 148*	*09/04/24 15:38*	*09/10/24 16:06*	*1*
DCB Decachlorobiphenyl	*138*		*33 - 148*	*09/04/24 15:38*	*09/10/24 16:18*	*5*
Tetrachloro-m-xylene	*52*		*30 - 121*	*09/04/24 15:38*	*09/10/24 16:06*	*1*
Tetrachloro-m-xylene	*61*		*30 - 121*	*09/04/24 15:38*	*09/10/24 16:18*	*5*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB14 (10-12.5)
Lab Sample ID: 500-255917-18

Date Collected: 08/29/24 12:23
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 77.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.021		0.021		mg/Kg	☼	09/04/24 15:38	09/17/24 03:14	1
PCB-1221	<0.021		0.021		mg/Kg	☼	09/04/24 15:38	09/17/24 03:14	1
PCB-1232	<0.021		0.021		mg/Kg	☼	09/04/24 15:38	09/17/24 03:14	1
PCB-1242	<0.021		0.021		mg/Kg	☼	09/04/24 15:38	09/17/24 03:14	1
PCB-1248	<0.021		0.021		mg/Kg	☼	09/04/24 15:38	09/17/24 03:14	1
PCB-1254	<0.021		0.021		mg/Kg	☼	09/04/24 15:38	09/17/24 03:14	1
PCB-1260	<0.021		0.021		mg/Kg	☼	09/04/24 15:38	09/17/24 03:14	1
Polychlorinated biphenyls, Total	<0.021		0.021		mg/Kg	☼	09/04/24 15:38	09/17/24 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*49 - 129*	*09/04/24 15:38*	*09/17/24 03:14*	*1*
DCB Decachlorobiphenyl	*59*		*37 - 121*	*09/04/24 15:38*	*09/17/24 03:14*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		24		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Antimony	<2.4		2.4		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Arsenic	**7.3**		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Barium	**120**		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Beryllium	**3.7**		2.4		mg/Kg	☼	09/16/24 09:08	09/17/24 16:07	5
Cadmium	**1.4**		0.24		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Calcium	**140000**	**B**	120		mg/Kg	☼	09/16/24 09:08	09/17/24 16:07	5
Chromium	**18**		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Cobalt	**5.6**		3.0		mg/Kg	☼	09/16/24 09:08	09/17/24 16:07	5
Copper	**18**		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Iron	**35000**		24		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Lead	**120**		3.0		mg/Kg	☼	09/16/24 09:08	09/17/24 16:07	5
Magnesium	**6600**		12		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Manganese	**2000**	**B**	6.1		mg/Kg	☼	09/16/24 09:08	09/17/24 16:07	5
Nickel	**21**		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Potassium	**1800**		61		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Selenium	**8.0**		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Silver	<3.0		3.0		mg/Kg	☼	09/16/24 09:08	09/17/24 16:07	5
Sodium	**910**		610		mg/Kg	☼	09/16/24 09:08	09/17/24 16:07	5
Thallium	**2.9**		1.2		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1
Vanadium	**30**		3.0		mg/Kg	☼	09/16/24 09:08	09/17/24 16:07	5
Zinc	**230**		2.4		mg/Kg	☼	09/16/24 09:08	09/17/24 04:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.061**		0.021		mg/Kg	☼	09/17/24 17:05	09/18/24 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**18**		2.7		mg/Kg	☼	09/03/24 16:00	09/04/24 12:36	10
pH (SW846 9045D)	**8.74**		0.20		SU			09/05/24 12:45	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB15 (0-3)
Lab Sample ID: 500-255917-19
Date Collected: 08/29/24 13:35
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 88.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00094		0.0023	0.00094	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0023	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
1,1,2-Trichloroethane	<0.00087		0.0023	0.00087	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
1,1-Dichloroethane	<0.00087		0.0023	0.00087	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
1,1-Dichloroethene	<0.00095		0.0023	0.00095	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
1,2-Dichloroethane	<0.0015		0.0058	0.0015	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
1,2-Dichloropropane	<0.00060		0.0023	0.00060	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
2-Butanone (MEK)	**0.0073**		0.0058	0.0025	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
2-Hexanone	<0.0035		0.0058	0.0035	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0058	0.0041	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Acetone	**0.015**	**J**	0.023	0.0097	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Benzene	<0.00073		0.0023	0.00073	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Bromodichloromethane	<0.00074		0.0023	0.00074	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Bromomethane	<0.0028		0.0058	0.0028	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Carbon disulfide	**0.0015**	**J**	0.0058	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Carbon tetrachloride	<0.00079		0.0023	0.00079	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Chlorobenzene	<0.00098		0.0023	0.00098	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Chloroethane	<0.0019		0.0058	0.0019	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Chloroform	<0.0017		0.0023	0.0017	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Chloromethane	<0.0011		0.0058	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
cis-1,2-Dichloroethene	<0.00093		0.0023	0.00093	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Methyl tert-butyl ether	<0.00075		0.0023	0.00075	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Methylene Chloride	<0.0025		0.0058	0.0025	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Toluene	<0.00046		0.0023	0.00046	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Xylenes, Total	<0.00079		0.0046	0.00079	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
trans-1,2-Dichloroethene	<0.00087		0.0023	0.00087	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Trichloroethene	<0.00063		0.0023	0.00063	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1
Vinyl chloride	<0.00094		0.0023	0.00094	mg/Kg	☼	08/30/24 18:42	09/10/24 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*08/30/24 18:42*	*09/10/24 17:54*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*08/30/24 18:42*	*09/10/24 17:54*	*1*
Dibromofluoromethane	*97*		*75 - 126*	*08/30/24 18:42*	*09/10/24 17:54*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*08/30/24 18:42*	*09/10/24 17:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015		0.074	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Acenaphthylene	**0.28**		0.074	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Anthracene	**0.30**		0.074	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Benzo[a]anthracene	**0.65**		0.074	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Benzo[a]pyrene	**1.2**		0.074	0.072	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Benzo[b]fluoranthene	**2.2**		0.074	0.071	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Benzo[g,h,i]perylene	**0.86**		0.074	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB15 (0-3)
Lab Sample ID: 500-255917-19
Date Collected: 08/29/24 13:35
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 88.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.73**		0.074	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Chrysene	**1.1**		0.074	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Dibenz(a,h)anthracene	**0.25**		0.074	0.074	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Fluoranthene	**0.60**		0.074	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Fluorene	**0.028**	**J**	0.074	0.022	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Indeno[1,2,3-cd]pyrene	**0.87**		0.074	0.073	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Naphthalene	**0.036**	**J**	0.074	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Phenanthrene	**0.22**		0.074	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Pyrene	**0.67**		0.074	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
1,2,4-Trichlorobenzene	<0.053		0.38	0.053	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
1,2-Dichlorobenzene	<0.030		0.38	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
1,3-Dichlorobenzene	<0.034		0.38	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
1,4-Dichlorobenzene	<0.035		0.38	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2,4,5-Trichlorophenol	<0.028		0.74	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2,4,6-Trichlorophenol	<0.025		0.74	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2,4-Dichlorophenol	<0.026		0.74	0.026	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2,4-Dimethylphenol	<0.17		0.74	0.17	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2,4-Dinitrophenol	<0.43		1.5	0.43	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2,4-Dinitrotoluene	<0.043		0.38	0.043	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2,6-Dinitrotoluene	<0.025		0.38	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2-Chloronaphthalene	<0.028		0.38	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2-Chlorophenol	<0.024		0.38	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2-Methylnaphthalene	**0.051**	**J**	0.15	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2-Methylphenol	<0.039		0.38	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2-Nitroaniline	<0.040		0.38	0.040	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
2-Nitrophenol	<0.051		0.74	0.051	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
3,3'-Dichlorobenzidine	<0.061		0.38	0.061	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
3 & 4 Methylphenol	<0.055		0.38	0.055	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
3-Nitroaniline	<0.034		0.74	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
4,6-Dinitro-2-methylphenol	<0.42		1.5	0.42	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
4-Bromophenyl phenyl ether	<0.051		0.38	0.051	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
4-Chloro-3-methylphenol	<0.029		0.74	0.029	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
4-Chloroaniline	<0.79		1.5	0.79	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
4-Chlorophenyl phenyl ether	<0.098		0.38	0.098	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
4-Nitroaniline	<0.055		0.74	0.055	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
4-Nitrophenol	<0.28		1.5	0.28	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Bis(2-chloroethoxy)methane	<0.028		0.38	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Bis(2-chloroethyl)ether	<0.035		0.38	0.035	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
bis(chloroisopropyl) ether	<0.054		0.38	0.054	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Bis(2-ethylhexyl) phthalate	**1.1**		0.38	0.29	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Butyl benzyl phthalate	<0.037		0.38	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Carbazole	**0.053**	**J**	0.38	0.030	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Dibenzofuran	**0.034**	**J**	0.38	0.027	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Diethyl phthalate	**0.051**	**J B**	0.38	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Dimethyl phthalate	<0.016		0.38	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Di-n-butyl phthalate	<0.024		0.38	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Di-n-octyl phthalate	<0.52		0.74	0.52	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Hexachlorobutadiene	<0.042		0.38	0.042	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2

Client Sample ID: SB15 (0-3)
Lab Sample ID: 500-255917-19
Date Collected: 08/29/24 13:35
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 88.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.79		1.5	0.79	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Hexachloroethane	<0.037		0.38	0.037	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Isophorone	<0.039		0.38	0.039	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Nitrobenzene	<0.024		0.074	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
N-Nitrosodiphenylamine	<0.044		0.38	0.044	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Pentachlorophenol	<0.19		1.5	0.19	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2
Phenol	<0.032		0.38	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 18:39	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*67*		*31 - 166*	*09/12/24 11:30*	*09/13/24 18:39*	*2*
Phenol-d5 (Surr)	*69*		*30 - 153*	*09/12/24 11:30*	*09/13/24 18:39*	*2*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*09/12/24 11:30*	*09/13/24 18:39*	*2*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/12/24 11:30*	*09/13/24 18:39*	*2*
2,4,6-Tribromophenol (Surr)	*52*		*31 - 143*	*09/12/24 11:30*	*09/13/24 18:39*	*2*
Terphenyl-d14 (Surr)	*71*		*42 - 157*	*09/12/24 11:30*	*09/13/24 18:39*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00099		0.0019	0.00099	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
4,4'-DDE	<0.00095		0.0019	0.00095	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
4,4'-DDT	<0.00087		0.0019	0.00087	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
Aldrin	<0.0013		0.0019	0.0013	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
alpha-BHC	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
alpha-Chlordane	<0.00098		0.0019	0.00098	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
beta-BHC	<0.0015		0.0019	0.0015	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
Chlordane (technical)	<0.0035		0.0073	0.0035	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
delta-BHC	<0.0044		0.0093	0.0044	mg/Kg	☼	09/04/24 15:38	09/10/24 16:41	5
Dieldrin	<0.00096		0.0019	0.00096	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
Endosulfan I	<0.00099		0.0019	0.00099	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
Endosulfan II	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
Endosulfan sulfate	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
Endrin	<0.00094		0.0019	0.00094	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
Endrin aldehyde	<0.0052		0.0093	0.0052	mg/Kg	☼	09/04/24 15:38	09/10/24 16:41	5
Endrin ketone	<0.00090		0.0019	0.00090	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
gamma-BHC (Lindane)	<0.00092		0.0019	0.00092	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
gamma-Chlordane	<0.0011		0.0019	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
Heptachlor	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
Heptachlor epoxide	<0.00099		0.0019	0.00099	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
Methoxychlor	<0.0012		0.0091	0.0012	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1
Toxaphene	<0.0074		0.018	0.0074	mg/Kg	☼	09/04/24 15:38	09/10/24 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*148*		*33 - 148*	*09/04/24 15:38*	*09/10/24 16:29*	*1*
DCB Decachlorobiphenyl	*728*	*S1+*	*33 - 148*	*09/04/24 15:38*	*09/10/24 16:41*	*5*
Tetrachloro-m-xylene	*61*		*30 - 121*	*09/04/24 15:38*	*09/10/24 16:29*	*1*
Tetrachloro-m-xylene	*74*		*30 - 121*	*09/04/24 15:38*	*09/10/24 16:41*	*5*

Client Sample ID: SB15 (0-3)
Lab Sample ID: 500-255917-19

Date Collected: 08/29/24 13:35
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 88.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 03:29	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 03:29	1
PCB-1232	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 03:29	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 03:29	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 03:29	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 03:29	1
PCB-1260	**0.049**		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 03:29	1
Polychlorinated biphenyls, Total	**0.049**		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/04/24 15:38*	*09/17/24 03:29*	*1*
DCB Decachlorobiphenyl	*62*		*37 - 121*	*09/04/24 15:38*	*09/17/24 03:29*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		21		mg/Kg	☼	09/16/24 09:08	09/17/24 04:14	1
Antimony	<2.1		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 04:14	1
Arsenic	**13**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Barium	**160**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 04:14	1
Beryllium	**3.4**		0.83		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Cadmium	**1.0**		0.42		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Calcium	**88000**	**B**	42		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Chromium	**39**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 04:14	1
Cobalt	**6.8**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Copper	**77**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Iron	**93000**		42		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Lead	**210**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Magnesium	**10000**		10		mg/Kg	☼	09/16/24 09:08	09/17/24 04:14	1
Manganese	**4100**	**B**	2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Nickel	**16**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Potassium	**1200**		52		mg/Kg	☼	09/16/24 09:08	09/17/24 04:14	1
Selenium	**4.2**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Silver	<1.0		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Sodium	**440**		210		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Thallium	**18**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Vanadium	**28**		1.0		mg/Kg	☼	09/16/24 09:08	09/17/24 16:12	2
Zinc	**390**		2.1		mg/Kg	☼	09/16/24 09:08	09/17/24 04:14	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.017		mg/Kg	☼	09/17/24 17:05	09/18/24 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**16**	**F2**	2.5		mg/Kg	☼	09/03/24 16:00	09/04/24 12:44	10
pH (SW846 9045D)	**8.46**		0.20		SU			09/05/24 12:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB15 (7.5-10)
Lab Sample ID: 500-255917-20

Date Collected: 08/29/24 13:53
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00090		0.0022	0.00090	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
1,1,2-Trichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
1,1-Dichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
1,1-Dichloroethene	<0.00091		0.0022	0.00091	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
1,2-Dichloroethane	<0.0014		0.0056	0.0014	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
2-Butanone (MEK)	<0.0024		0.0056	0.0024	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Acetone	<0.0093		0.022	0.0093	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Benzene	<0.00070		0.0022	0.00070	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Bromodichloromethane	<0.00071		0.0022	0.00071	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Bromomethane	<0.0027		0.0056	0.0027	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Carbon disulfide	<0.0010		0.0056	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Carbon tetrachloride	<0.00076		0.0022	0.00076	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Chlorobenzene	<0.00094		0.0022	0.00094	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
cis-1,2-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Methyl tert-butyl ether	<0.00072		0.0022	0.00072	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Styrene	<0.0010		0.0022	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Toluene	<0.00045		0.0022	0.00045	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Xylenes, Total	<0.00076		0.0044	0.00076	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
trans-1,2-Dichloroethene	<0.00084		0.0022	0.00084	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Trichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1
Vinyl chloride	<0.00091		0.0022	0.00091	mg/Kg	☼	08/30/24 18:42	09/10/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*08/30/24 18:42*	*09/10/24 18:18*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*08/30/24 18:42*	*09/10/24 18:18*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*08/30/24 18:42*	*09/10/24 18:18*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*08/30/24 18:42*	*09/10/24 18:18*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.019**	**J**	0.034	0.0069	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Acenaphthylene	**0.017**	**J**	0.034	0.0058	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Anthracene	**0.053**		0.034	0.0070	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Benzo[a]anthracene	**0.30**		0.034	0.0072	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Benzo[a]pyrene	**0.28**		0.034	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Benzo[b]fluoranthene	**0.56**		0.034	0.032	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Benzo[g,h,i]perylene	**0.26**		0.034	0.0074	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB15 (7.5-10)
Lab Sample ID: 500-255917-20
Date Collected: 08/29/24 13:53
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.21**		0.034	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Chrysene	**0.42**		0.034	0.0090	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Dibenz(a,h)anthracene	**0.057**		0.034	0.034	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Fluoranthene	**0.76**		0.034	0.0079	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Fluorene	**0.011**	**J**	0.034	0.010	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Indeno[1,2,3-cd]pyrene	**0.25**		0.034	0.033	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Naphthalene	**0.025**	**J**	0.034	0.0062	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Phenanthrene	**0.32**		0.034	0.0074	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Pyrene	**0.61**		0.034	0.0093	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2,4-Dimethylphenol	<0.076		0.34	0.076	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2,4-Dinitrophenol	<0.20		0.69	0.20	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2-Methylnaphthalene	**0.022**	**J**	0.069	0.0068	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
2-Nitrophenol	<0.023		0.34	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
3-Nitroaniline	<0.016		0.34	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
4,6-Dinitro-2-methylphenol	<0.19		0.69	0.19	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
4-Chloroaniline	<0.36		0.69	0.36	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
4-Nitroaniline	<0.025		0.34	0.025	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
4-Nitrophenol	<0.13		0.69	0.13	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Bis(2-ethylhexyl) phthalate	**0.25**		0.17	0.13	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Carbazole	**0.035**	**J**	0.17	0.013	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Dibenzofuran	**0.023**	**J**	0.17	0.012	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Diethyl phthalate	**0.019**	**J B**	0.17	0.016	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Dimethyl phthalate	<0.0074		0.17	0.0074	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Di-n-butyl phthalate	**0.017**	**J**	0.17	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Hexachlorobenzene	<0.0065		0.069	0.0065	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1

Client Sample ID: SB15 (7.5-10) | **Lab Sample ID: 500-255917-20**
Date Collected: 08/29/24 13:53 | **Matrix: Solid**
Date Received: 08/30/24 12:00 | **Percent Solids: 91.8**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.36		0.69	0.36	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
N-Nitrosodi-n-propylamine	<0.0067		0.069	0.0067	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Pentachlorophenol	<0.085		0.69	0.085	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/12/24 11:30	09/13/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*73*		*31 - 166*	*09/12/24 11:30*	*09/13/24 14:12*	*1*
Phenol-d5 (Surr)	*75*		*30 - 153*	*09/12/24 11:30*	*09/13/24 14:12*	*1*
Nitrobenzene-d5 (Surr)	*79*		*37 - 147*	*09/12/24 11:30*	*09/13/24 14:12*	*1*
2-Fluorobiphenyl (Surr)	*74*		*43 - 145*	*09/12/24 11:30*	*09/13/24 14:12*	*1*
2,4,6-Tribromophenol (Surr)	*31*		*31 - 143*	*09/12/24 11:30*	*09/13/24 14:12*	*1*
Terphenyl-d14 (Surr)	*80*		*42 - 157*	*09/12/24 11:30*	*09/13/24 14:12*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00094		0.0018	0.00094	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
4,4'-DDE	<0.00090		0.0018	0.00090	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
4,4'-DDT	<0.00083		0.0018	0.00083	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
Aldrin	<0.0012		0.0018	0.0012	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
alpha-BHC	<0.00098		0.0018	0.00098	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
alpha-Chlordane	<0.00093		0.0018	0.00093	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
beta-BHC	<0.0014		0.0018	0.0014	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
Chlordane (technical)	<0.0033		0.0069	0.0033	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
delta-BHC	<0.0042		0.0088	0.0042	mg/Kg	☼	09/04/24 15:38	09/10/24 17:04	5
Dieldrin	<0.00091		0.0018	0.00091	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
Endosulfan I	<0.00094		0.0018	0.00094	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
Endosulfan II	<0.00096		0.0018	0.00096	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
Endosulfan sulfate	<0.00097		0.0018	0.00097	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
Endrin	<0.00089		0.0018	0.00089	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
Endrin aldehyde	<0.0050		0.0088	0.0050	mg/Kg	☼	09/04/24 15:38	09/10/24 17:04	5
Endrin ketone	<0.00085		0.0018	0.00085	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
gamma-BHC (Lindane)	<0.00087		0.0018	0.00087	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
Heptachlor	<0.00095		0.0018	0.00095	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
Heptachlor epoxide	<0.00094		0.0018	0.00094	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
Methoxychlor	<0.0011		0.0086	0.0011	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1
Toxaphene	<0.0070		0.017	0.0070	mg/Kg	☼	09/04/24 15:38	09/10/24 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*33 - 148*	*09/04/24 15:38*	*09/10/24 16:53*	*1*
DCB Decachlorobiphenyl	*251*	*S1+*	*33 - 148*	*09/04/24 15:38*	*09/10/24 17:04*	*5*
Tetrachloro-m-xylene	*57*		*30 - 121*	*09/04/24 15:38*	*09/10/24 16:53*	*1*
Tetrachloro-m-xylene	*62*		*30 - 121*	*09/04/24 15:38*	*09/10/24 17:04*	*5*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB15 (7.5-10)
Lab Sample ID: 500-255917-20

Date Collected: 08/29/24 13:53
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:44	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:44	1
PCB-1232	**0.039**		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:44	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:44	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:44	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:44	1
PCB-1260	**0.021**		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:44	1
Polychlorinated biphenyls, Total	**0.060**		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*49 - 129*	*09/04/24 15:38*	*09/17/24 03:44*	*1*
DCB Decachlorobiphenyl	*52*		*37 - 121*	*09/04/24 15:38*	*09/17/24 03:44*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8400**		20		mg/Kg	☼	09/16/24 09:08	09/17/24 04:18	1
Antimony	<2.0		2.0		mg/Kg	☼	09/16/24 09:08	09/17/24 04:18	1
Arsenic	**8.1**		2.0		mg/Kg	☼	09/16/24 09:08	09/17/24 16:21	2
Barium	**79**		0.98		mg/Kg	☼	09/16/24 09:08	09/17/24 04:18	1
Beryllium	**2.2**		0.78		mg/Kg	☼	09/16/24 09:08	09/17/24 16:21	2
Cadmium	**1.1**		0.39		mg/Kg	☼	09/16/24 09:08	09/17/24 16:21	2
Calcium	**83000**	**B**	39		mg/Kg	☼	09/16/24 09:08	09/17/24 16:21	2
Chromium	**53**		0.98		mg/Kg	☼	09/16/24 09:08	09/17/24 04:18	1
Cobalt	**5.5**		0.98		mg/Kg	☼	09/16/24 09:08	09/17/24 16:21	2
Copper	**37**		20		mg/Kg	☼	09/16/24 09:08	09/17/24 16:25	20
Iron	**120000**		390		mg/Kg	☼	09/16/24 09:08	09/17/24 16:25	20
Lead	**230**		9.8		mg/Kg	☼	09/16/24 09:08	09/17/24 16:25	20
Magnesium	**17000**		9.8		mg/Kg	☼	09/16/24 09:08	09/17/24 04:18	1
Manganese	**2300**	**B**	2.0		mg/Kg	☼	09/16/24 09:08	09/17/24 16:21	2
Nickel	**22**		20		mg/Kg	☼	09/16/24 09:08	09/17/24 16:25	20
Potassium	**720**		49		mg/Kg	☼	09/16/24 09:08	09/17/24 04:18	1
Selenium	**3.3**		2.0		mg/Kg	☼	09/16/24 09:08	09/17/24 16:21	2
Silver	<0.98		0.98		mg/Kg	☼	09/16/24 09:08	09/17/24 16:21	2
Sodium	**410**		200		mg/Kg	☼	09/16/24 09:08	09/17/24 16:21	2
Thallium	**9.5**		2.0		mg/Kg	☼	09/16/24 09:08	09/17/24 16:21	2
Vanadium	**36**		9.8		mg/Kg	☼	09/16/24 09:08	09/17/24 16:25	20
Zinc	**160**		2.0		mg/Kg	☼	09/16/24 09:08	09/17/24 04:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.069**		0.016		mg/Kg	☼	09/17/24 17:05	09/18/24 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.4**		0.23		mg/Kg	☼	09/03/24 16:00	09/04/24 11:18	1
pH (SW846 9045D)	**9.25**		0.20		SU			09/05/24 12:50	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB16 (0-3)
Lab Sample ID: 500-255917-21
Date Collected: 08/29/24 15:03
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 94.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00072		0.0018	0.00072	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
1,1,2,2-Tetrachloroethane	<0.00089		0.0018	0.00089	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
1,1,2-Trichloroethane	<0.00067		0.0018	0.00067	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
1,1-Dichloroethane	<0.00067		0.0018	0.00067	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
1,1-Dichloroethene	<0.00073		0.0018	0.00073	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
1,2-Dichloroethane	<0.0012		0.0045	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
2-Hexanone	<0.0027		0.0045	0.0027	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
4-Methyl-2-pentanone (MIBK)	<0.0032		0.0045	0.0032	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Acetone	<0.0075		0.018	0.0075	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Benzene	<0.00056		0.0018	0.00056	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Bromodichloromethane	<0.00057		0.0018	0.00057	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Bromoform	<0.0010		0.0018	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Bromomethane	<0.0022		0.0045	0.0022	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Carbon disulfide	<0.00082		0.0045	0.00082	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Carbon tetrachloride	<0.00061		0.0018	0.00061	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Chlorobenzene	<0.00075		0.0018	0.00075	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Chloroethane	<0.0015		0.0045	0.0015	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Chloroform	<0.0013		0.0018	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Chloromethane	<0.00086		0.0045	0.00086	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
cis-1,2-Dichloroethene	<0.00072		0.0018	0.00072	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
1,3-Dichloropropene, Total	<0.00086		0.0018	0.00086	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Dibromochloromethane	<0.00083		0.0018	0.00083	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Ethylbenzene	<0.00094		0.0018	0.00094	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Methyl tert-butyl ether	<0.00058		0.0018	0.00058	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Methylene Chloride	<0.0019		0.0045	0.0019	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Styrene	<0.00080		0.0018	0.00080	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Tetrachloroethene	<0.0010		0.0018	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Toluene	<0.00036		0.0018	0.00036	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Xylenes, Total	<0.00061		0.0036	0.00061	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
trans-1,2-Dichloroethene	<0.00067		0.0018	0.00067	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Trichloroethene	<0.00049		0.0018	0.00049	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1
Vinyl chloride	<0.00073		0.0018	0.00073	mg/Kg	☼	08/30/24 18:42	09/10/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*08/30/24 18:42*	*09/10/24 18:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*	*08/30/24 18:42*	*09/10/24 18:42*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*08/30/24 18:42*	*09/10/24 18:42*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*08/30/24 18:42*	*09/10/24 18:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.034	0.0069	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Acenaphthylene	<0.0058		0.034	0.0058	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Anthracene	**0.013**	**J**	0.034	0.0070	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Benzo[a]anthracene	**0.097**		0.034	0.0072	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Benzo[a]pyrene	**0.13**		0.034	0.033	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Benzo[b]fluoranthene	**0.19**		0.034	0.032	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Benzo[g,h,i]perylene	**0.13**		0.034	0.0074	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB16 (0-3)
Lab Sample ID: 500-255917-21
Date Collected: 08/29/24 15:03
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 94.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.12**		0.034	0.013	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Chrysene	**0.14**		0.034	0.0090	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Dibenz(a,h)anthracene	**0.037**		0.034	0.034	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Fluoranthene	**0.11**		0.034	0.0079	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Fluorene	<0.010		0.034	0.010	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Indeno[1,2,3-cd]pyrene	**0.12**		0.034	0.033	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Naphthalene	**0.013**	**J**	0.034	0.0062	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Phenanthrene	**0.048**		0.034	0.0074	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Pyrene	**0.11**		0.034	0.0093	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2,4-Dimethylphenol	<0.076		0.34	0.076	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2,4-Dinitrophenol	<0.20		0.69	0.20	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2-Methylnaphthalene	<0.0068		0.069	0.0068	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
2-Nitrophenol	<0.023		0.34	0.023	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
3-Nitroaniline	<0.016		0.34	0.016	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
4,6-Dinitro-2-methylphenol	<0.19		0.69	0.19	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
4-Chloroaniline	<0.36		0.69	0.36	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
4-Nitroaniline	<0.025		0.34	0.025	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
4-Nitrophenol	<0.13		0.69	0.13	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Bis(2-ethylhexyl) phthalate	**0.34**		0.17	0.13	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Carbazole	<0.013		0.17	0.013	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Dimethyl phthalate	<0.0074		0.17	0.0074	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Hexachlorobenzene	<0.0065		0.069	0.0065	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1

Client Sample ID: SB16 (0-3)
Lab Sample ID: 500-255917-21
Date Collected: 08/29/24 15:03
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 94.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.36		0.69	0.36	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
N-Nitrosodi-n-propylamine	<0.0067		0.069	0.0067	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Pentachlorophenol	<0.085		0.69	0.085	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/12/24 10:51	09/13/24 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*60*		*31 - 166*	*09/12/24 10:51*	*09/13/24 21:00*	*1*
Phenol-d5 (Surr)	*60*		*30 - 153*	*09/12/24 10:51*	*09/13/24 21:00*	*1*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*09/12/24 10:51*	*09/13/24 21:00*	*1*
2-Fluorobiphenyl (Surr)	*63*		*43 - 145*	*09/12/24 10:51*	*09/13/24 21:00*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*31 - 143*	*09/12/24 10:51*	*09/13/24 21:00*	*1*
Terphenyl-d14 (Surr)	*83*		*42 - 157*	*09/12/24 10:51*	*09/13/24 21:00*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00094		0.0018	0.00094	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
4,4'-DDE	<0.00090		0.0018	0.00090	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
4,4'-DDT	<0.00083		0.0018	0.00083	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Aldrin	<0.0012		0.0018	0.0012	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
alpha-BHC	<0.00098		0.0018	0.00098	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
alpha-Chlordane	<0.00093		0.0018	0.00093	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
beta-BHC	<0.0014		0.0018	0.0014	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Chlordane (technical)	<0.0033		0.0069	0.0033	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
delta-BHC	<0.00083		0.0018	0.00083	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Dieldrin	<0.00091		0.0018	0.00091	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Endosulfan I	<0.00094		0.0018	0.00094	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Endosulfan II	<0.00096		0.0018	0.00096	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Endosulfan sulfate	<0.00096		0.0018	0.00096	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Endrin	<0.00089		0.0018	0.00089	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Endrin aldehyde	<0.00099		0.0018	0.00099	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Endrin ketone	<0.00085		0.0018	0.00085	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
gamma-BHC (Lindane)	<0.00087		0.0018	0.00087	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Heptachlor	<0.00094		0.0018	0.00094	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Heptachlor epoxide	<0.00094		0.0018	0.00094	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Methoxychlor	<0.0011		0.0086	0.0011	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1
Toxaphene	<0.0070		0.017	0.0070	mg/Kg	☼	09/04/24 15:38	09/09/24 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*33 - 148*	*09/04/24 15:38*	*09/09/24 18:45*	*1*
Tetrachloro-m-xylene	*65*		*30 - 121*	*09/04/24 15:38*	*09/09/24 18:45*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:59	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:59	1

Client Sample ID: SB16 (0-3)
Lab Sample ID: 500-255917-21
Date Collected: 08/29/24 15:03
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 94.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:59	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:59	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:59	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:59	1
PCB-1260	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:59	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg	☼	09/04/24 15:38	09/17/24 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/04/24 15:38*	*09/17/24 03:59*	*1*
DCB Decachlorobiphenyl	*60*		*37 - 121*	*09/04/24 15:38*	*09/17/24 03:59*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6500**		21		mg/Kg	☼	09/16/24 09:05	09/17/24 01:54	1
Antimony	**2.9**		2.1		mg/Kg	☼	09/16/24 09:05	09/17/24 01:54	1
Arsenic	**12**		1.0		mg/Kg	☼	09/16/24 09:05	09/17/24 01:54	1
Barium	**68**		1.0		mg/Kg	☼	09/16/24 09:05	09/17/24 01:54	1
Beryllium	<4.2		4.2		mg/Kg	☼	09/16/24 09:05	09/17/24 15:04	10
Cadmium	<2.1		2.1		mg/Kg	☼	09/16/24 09:05	09/17/24 15:04	10
Calcium	**85000**		42		mg/Kg	☼	09/16/24 09:05	09/17/24 14:59	2
Chromium	**200**		2.1		mg/Kg	☼	09/16/24 09:05	09/17/24 14:59	2
Cobalt	**8.2**		5.2		mg/Kg	☼	09/16/24 09:05	09/17/24 15:04	10
Copper	**94**		10		mg/Kg	☼	09/16/24 09:05	09/17/24 15:04	10
Iron	**180000**		210		mg/Kg	☼	09/16/24 09:05	09/17/24 15:04	10
Lead	**94**		5.2		mg/Kg	☼	09/16/24 09:05	09/17/24 15:04	10
Magnesium	**9800**		21		mg/Kg	☼	09/16/24 09:05	09/17/24 14:59	2
Manganese	**2800**		2.1		mg/Kg	☼	09/16/24 09:05	09/17/24 14:59	2
Nickel	**50**		10		mg/Kg	☼	09/16/24 09:05	09/17/24 15:04	10
Potassium	**460**		100		mg/Kg	☼	09/16/24 09:05	09/17/24 14:59	2
Selenium	<2.1		2.1		mg/Kg	☼	09/16/24 09:05	09/17/24 14:59	2
Silver	<1.0		1.0		mg/Kg	☼	09/16/24 09:05	09/17/24 14:59	2
Sodium	**1300**		1000		mg/Kg	☼	09/16/24 09:05	09/17/24 15:04	10
Thallium	**11**		10		mg/Kg	☼	09/16/24 09:05	09/17/24 15:04	10
Vanadium	**63**		5.2		mg/Kg	☼	09/16/24 09:05	09/17/24 15:04	10
Zinc	**140**		2.1		mg/Kg	☼	09/16/24 09:05	09/17/24 01:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.016		mg/Kg	☼	09/17/24 17:05	09/18/24 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**3.7**		0.22		mg/Kg	☼	09/03/24 16:00	09/04/24 11:20	1
pH (SW846 9045D)	**9.98**		0.20		SU			09/05/24 12:52	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB16 (3-5)
Lab Sample ID: 500-255917-22
Date Collected: 08/29/24 15:09
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00083		0.0021	0.00083	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0021	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
1,1,2-Trichloroethane	<0.00077		0.0021	0.00077	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
1,1-Dichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
1,1-Dichloroethene	<0.00085		0.0021	0.00085	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
1,2-Dichloroethane	<0.0013		0.0051	0.0013	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
1,2-Dichloropropane	<0.00053		0.0021	0.00053	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
2-Butanone (MEK)	<0.0023		0.0051	0.0023	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
2-Hexanone	<0.0031		0.0051	0.0031	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0051	0.0037	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Acetone	<0.0086		0.021	0.0086	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Benzene	<0.00065		0.0021	0.00065	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Bromodichloromethane	<0.00066		0.0021	0.00066	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Bromomethane	<0.0025		0.0051	0.0025	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Carbon disulfide	<0.00095		0.0051	0.00095	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Carbon tetrachloride	<0.00070		0.0021	0.00070	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Chlorobenzene	<0.00087		0.0021	0.00087	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Chloroethane	<0.0017		0.0051	0.0017	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Chloromethane	<0.0010		0.0051	0.0010	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
cis-1,2-Dichloroethene	<0.00083		0.0021	0.00083	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
1,3-Dichloropropene, Total	<0.00099		0.0021	0.00099	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Dibromochloromethane	<0.00095		0.0021	0.00095	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Methyl tert-butyl ether	<0.00066		0.0021	0.00066	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Methylene Chloride	<0.0022		0.0051	0.0022	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Styrene	<0.00093		0.0021	0.00093	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Toluene	<0.00041		0.0021	0.00041	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Xylenes, Total	<0.00071		0.0041	0.00071	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
trans-1,2-Dichloroethene	<0.00078		0.0021	0.00078	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Trichloroethene	<0.00056		0.0021	0.00056	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1
Vinyl chloride	<0.00084		0.0021	0.00084	mg/Kg	☼	08/30/24 18:42	09/10/24 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*08/30/24 18:42*	*09/10/24 19:06*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*08/30/24 18:42*	*09/10/24 19:06*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*08/30/24 18:42*	*09/10/24 19:06*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*08/30/24 18:42*	*09/10/24 19:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.016**	**J**	0.035	0.0072	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Acenaphthylene	<0.0060		0.035	0.0060	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Anthracene	**0.049**		0.035	0.0072	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Benzo[a]anthracene	**0.28**		0.035	0.0075	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Benzo[a]pyrene	**0.24**		0.035	0.034	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Benzo[b]fluoranthene	**0.42**		0.035	0.034	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Benzo[g,h,i]perylene	**0.20**		0.035	0.0077	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB16 (3-5)
Lab Sample ID: 500-255917-22
Date Collected: 08/29/24 15:09
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.29**		0.035	0.013	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Chrysene	**0.43**		0.035	0.0093	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Dibenz(a,h)anthracene	**0.068**		0.035	0.035	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Fluoranthene	**0.61**		0.035	0.0082	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Indeno[1,2,3-cd]pyrene	**0.19**		0.035	0.034	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Naphthalene	**0.017**	**J**	0.035	0.0064	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Phenanthrene	**0.25**		0.035	0.0077	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Pyrene	**0.54**		0.035	0.0097	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2,4-Dimethylphenol	<0.079		0.35	0.079	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2,4-Dinitrophenol	<0.20		0.72	0.20	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2-Methylnaphthalene	**0.017**	**J**	0.072	0.0071	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
4,6-Dinitro-2-methylphenol	<0.20		0.72	0.20	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
4-Chloroaniline	<0.37		0.72	0.37	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
4-Nitrophenol	<0.13		0.72	0.13	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Carbazole	**0.026**	**J**	0.18	0.014	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Hexachlorobenzene	<0.0068		0.072	0.0068	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1

Client Sample ID: SB16 (3-5)
Lab Sample ID: 500-255917-22
Date Collected: 08/29/24 15:09
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.72	0.38	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
N-Nitrosodi-n-propylamine	<0.0070		0.072	0.0070	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Pentachlorophenol	<0.089		0.72	0.089	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/12/24 10:51	09/13/24 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*50*		*31 - 166*	*09/12/24 10:51*	*09/13/24 21:25*	*1*
Phenol-d5 (Surr)	*50*		*30 - 153*	*09/12/24 10:51*	*09/13/24 21:25*	*1*
Nitrobenzene-d5 (Surr)	*47*		*37 - 147*	*09/12/24 10:51*	*09/13/24 21:25*	*1*
2-Fluorobiphenyl (Surr)	*52*		*43 - 145*	*09/12/24 10:51*	*09/13/24 21:25*	*1*
2,4,6-Tribromophenol (Surr)	*38*		*31 - 143*	*09/12/24 10:51*	*09/13/24 21:25*	*1*
Terphenyl-d14 (Surr)	*79*		*42 - 157*	*09/12/24 10:51*	*09/13/24 21:25*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00098		0.0018	0.00098	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
4,4'-DDE	<0.00094		0.0018	0.00094	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
4,4'-DDT	<0.00086		0.0018	0.00086	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
Aldrin	<0.0013		0.0018	0.0013	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
alpha-BHC	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
alpha-Chlordane	<0.00097		0.0018	0.00097	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
beta-BHC	<0.0015		0.0018	0.0015	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
Chlordane (technical)	<0.0035		0.0072	0.0035	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
delta-BHC	<0.0044		0.0092	0.0044	mg/Kg	☼	09/04/24 15:38	09/10/24 17:27	5
Dieldrin	<0.00095		0.0018	0.00095	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
Endosulfan I	<0.00098		0.0018	0.00098	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
Endosulfan II	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
Endosulfan sulfate	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
Endrin	<0.00093		0.0018	0.00093	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
Endrin aldehyde	<0.0052		0.0092	0.0052	mg/Kg	☼	09/04/24 15:38	09/10/24 17:27	5
Endrin ketone	<0.00089		0.0018	0.00089	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
gamma-BHC (Lindane)	<0.00091		0.0018	0.00091	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
Heptachlor	<0.00098		0.0018	0.00098	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
Heptachlor epoxide	<0.00098		0.0018	0.00098	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
Methoxychlor	<0.0012		0.0090	0.0012	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1
Toxaphene	<0.0073		0.018	0.0073	mg/Kg	☼	09/04/24 15:38	09/10/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*33 - 148*	*09/04/24 15:38*	*09/10/24 17:16*	*1*
DCB Decachlorobiphenyl	*47*		*33 - 148*	*09/04/24 15:38*	*09/10/24 17:27*	*5*
Tetrachloro-m-xylene	*54*		*30 - 121*	*09/04/24 15:38*	*09/10/24 17:16*	*1*
Tetrachloro-m-xylene	*45*		*30 - 121*	*09/04/24 15:38*	*09/10/24 17:27*	*5*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB16 (3-5)
Lab Sample ID: 500-255917-22

Date Collected: 08/29/24 15:09
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 04:13	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 04:13	1
PCB-1232	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 04:13	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 04:13	1
PCB-1248	**0.097**		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 04:13	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 04:13	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 04:13	1
Polychlorinated biphenyls, Total	**0.097**		0.018		mg/Kg	☼	09/04/24 15:38	09/17/24 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*49 - 129*	*09/04/24 15:38*	*09/17/24 04:13*	*1*
DCB Decachlorobiphenyl	*56*		*37 - 121*	*09/04/24 15:38*	*09/17/24 04:13*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6300**		20		mg/Kg	☼	09/16/24 09:05	09/17/24 01:59	1
Antimony	<2.0		2.0		mg/Kg	☼	09/16/24 09:05	09/17/24 01:59	1
Arsenic	**10**		0.99		mg/Kg	☼	09/16/24 09:05	09/17/24 01:59	1
Barium	**71**		0.99		mg/Kg	☼	09/16/24 09:05	09/17/24 01:59	1
Beryllium	<4.0		4.0		mg/Kg	☼	09/16/24 09:05	09/17/24 15:21	10
Cadmium	**2.5**		2.0		mg/Kg	☼	09/16/24 09:05	09/17/24 15:21	10
Calcium	**110000**		40		mg/Kg	☼	09/16/24 09:05	09/17/24 15:17	2
Chromium	**190**		2.0		mg/Kg	☼	09/16/24 09:05	09/17/24 15:17	2
Cobalt	<5.0		5.0		mg/Kg	☼	09/16/24 09:05	09/17/24 15:21	10
Copper	**45**		9.9		mg/Kg	☼	09/16/24 09:05	09/17/24 15:21	10
Iron	**160000**		200		mg/Kg	☼	09/16/24 09:05	09/17/24 15:21	10
Lead	**230**		5.0		mg/Kg	☼	09/16/24 09:05	09/17/24 15:21	10
Magnesium	**17000**		20		mg/Kg	☼	09/16/24 09:05	09/17/24 15:17	2
Manganese	**6100**		9.9		mg/Kg	☼	09/16/24 09:05	09/17/24 15:21	10
Nickel	**20**		9.9		mg/Kg	☼	09/16/24 09:05	09/17/24 15:21	10
Potassium	**560**		99		mg/Kg	☼	09/16/24 09:05	09/17/24 15:17	2
Selenium	<9.9		9.9		mg/Kg	☼	09/16/24 09:05	09/17/24 15:21	10
Silver	<0.99		0.99		mg/Kg	☼	09/16/24 09:05	09/17/24 15:17	2
Sodium	<990		990		mg/Kg	☼	09/16/24 09:05	09/17/24 15:21	10
Thallium	**20**		9.9		mg/Kg	☼	09/16/24 09:05	09/17/24 15:21	10
Vanadium	**130**		5.0		mg/Kg	☼	09/16/24 09:05	09/17/24 15:21	10
Zinc	**520**		2.0		mg/Kg	☼	09/16/24 09:05	09/17/24 01:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.065**		0.017		mg/Kg	☼	09/17/24 17:05	09/18/24 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**9.8**		2.6		mg/Kg	☼	09/03/24 16:00	09/04/24 12:58	10
pH (SW846 9045D)	**8.83**		0.20		SU			09/05/24 12:54	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 784328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	5035	
500-255917-2	SB6 (3-5)	Total/NA	Solid	5035	
500-255917-3	SB7 (0-3)	Total/NA	Solid	5035	
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	5035	
500-255917-5	SB8 (0-3)	Total/NA	Solid	5035	

Prep Batch: 784330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	5035	
500-255917-7	SB9 (0-3)	Total/NA	Solid	5035	
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	5035	
500-255917-9	SB10 (0-3)	Total/NA	Solid	5035	
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	5035	
500-255917-11	SB11 (0-3)	Total/NA	Solid	5035	
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	5035	
500-255917-13	SB12 (0-3)	Total/NA	Solid	5035	
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	5035	
500-255917-15	SB13 (0-3)	Total/NA	Solid	5035	
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	5035	
500-255917-17	SB14 (0-3)	Total/NA	Solid	5035	
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	5035	
500-255917-19	SB15 (0-3)	Total/NA	Solid	5035	
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	5035	
500-255917-21	SB16 (0-3)	Total/NA	Solid	5035	
500-255917-22	SB16 (3-5)	Total/NA	Solid	5035	

Analysis Batch: 784960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	8260D	784328
500-255917-2	SB6 (3-5)	Total/NA	Solid	8260D	784328
500-255917-3	SB7 (0-3)	Total/NA	Solid	8260D	784328
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	8260D	784328
500-255917-5	SB8 (0-3)	Total/NA	Solid	8260D	784328
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	8260D	784330
500-255917-7	SB9 (0-3)	Total/NA	Solid	8260D	784330
MB 500-784960/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-784960/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-784960/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 785246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	8260D	784330
500-255917-9	SB10 (0-3)	Total/NA	Solid	8260D	784330
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	8260D	784330
500-255917-11	SB11 (0-3)	Total/NA	Solid	8260D	784330
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	8260D	784330
500-255917-13	SB12 (0-3)	Total/NA	Solid	8260D	784330
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	8260D	784330
500-255917-15	SB13 (0-3)	Total/NA	Solid	8260D	784330
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	8260D	784330
500-255917-17	SB14 (0-3)	Total/NA	Solid	8260D	784330

GC/MS VOA (Continued)

Analysis Batch: 785246 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	8260D	784330
500-255917-19	SB15 (0-3)	Total/NA	Solid	8260D	784330
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	8260D	784330
500-255917-21	SB16 (0-3)	Total/NA	Solid	8260D	784330
500-255917-22	SB16 (3-5)	Total/NA	Solid	8260D	784330
MB 500-785246/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785246/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-785246/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 785733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-21	SB16 (0-3)	Total/NA	Solid	3546	
500-255917-22	SB16 (3-5)	Total/NA	Solid	3546	
MB 500-785733/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-785733/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 785749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	3546	
500-255917-2	SB6 (3-5)	Total/NA	Solid	3546	
500-255917-3	SB7 (0-3)	Total/NA	Solid	3546	
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	3546	
500-255917-5	SB8 (0-3)	Total/NA	Solid	3546	
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	3546	
500-255917-7	SB9 (0-3)	Total/NA	Solid	3546	
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	3546	
500-255917-9	SB10 (0-3)	Total/NA	Solid	3546	
500-255917-10 - DL	SB10 (5-7.5)	Total/NA	Solid	3546	
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	3546	
500-255917-11	SB11 (0-3)	Total/NA	Solid	3546	
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	3546	
500-255917-13	SB12 (0-3)	Total/NA	Solid	3546	
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	3546	
500-255917-15	SB13 (0-3)	Total/NA	Solid	3546	
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	3546	
500-255917-17	SB14 (0-3)	Total/NA	Solid	3546	
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	3546	
500-255917-19	SB15 (0-3)	Total/NA	Solid	3546	
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	3546	
MB 500-785749/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-785749/2-A	Lab Control Sample	Total/NA	Solid	3546	
500-255917-1 MS	SB6 (0-3)	Total/NA	Solid	3546	
500-255917-1 MSD	SB6 (0-3)	Total/NA	Solid	3546	

Analysis Batch: 785926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-21	SB16 (0-3)	Total/NA	Solid	8270E	785733
500-255917-22	SB16 (3-5)	Total/NA	Solid	8270E	785733
MB 500-785733/1-A	Method Blank	Total/NA	Solid	8270E	785733

GC/MS Semi VOA (Continued)

Analysis Batch: 785926 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-785733/2-A	Lab Control Sample	Total/NA	Solid	8270E	785733

Analysis Batch: 785935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	8270E	785749
500-255917-2	SB6 (3-5)	Total/NA	Solid	8270E	785749
500-255917-3	SB7 (0-3)	Total/NA	Solid	8270E	785749
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	8270E	785749
500-255917-5	SB8 (0-3)	Total/NA	Solid	8270E	785749
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	8270E	785749
500-255917-7	SB9 (0-3)	Total/NA	Solid	8270E	785749
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	8270E	785749
500-255917-9	SB10 (0-3)	Total/NA	Solid	8270E	785749
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	8270E	785749
500-255917-11	SB11 (0-3)	Total/NA	Solid	8270E	785749
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	8270E	785749
500-255917-13	SB12 (0-3)	Total/NA	Solid	8270E	785749
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	8270E	785749
500-255917-15	SB13 (0-3)	Total/NA	Solid	8270E	785749
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	8270E	785749
500-255917-17	SB14 (0-3)	Total/NA	Solid	8270E	785749
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	8270E	785749
500-255917-19	SB15 (0-3)	Total/NA	Solid	8270E	785749
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	8270E	785749
MB 500-785749/1-A	Method Blank	Total/NA	Solid	8270E	785749
LCS 500-785749/2-A	Lab Control Sample	Total/NA	Solid	8270E	785749
500-255917-1 MS	SB6 (0-3)	Total/NA	Solid	8270E	785749
500-255917-1 MSD	SB6 (0-3)	Total/NA	Solid	8270E	785749

Analysis Batch: 786129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-10 - DL	SB10 (5-7.5)	Total/NA	Solid	8270E	785749

GC Semi VOA

Prep Batch: 784522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	3541	
500-255917-19	SB15 (0-3)	Total/NA	Solid	3541	
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	3541	
500-255917-21	SB16 (0-3)	Total/NA	Solid	3541	
500-255917-22	SB16 (3-5)	Total/NA	Solid	3541	
MB 500-784522/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-784522/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-784522/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 784635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-784522/1-A	Method Blank	Total/NA	Solid	8081B	784522
LCS 500-784522/2-A	Lab Control Sample	Total/NA	Solid	8081B	784522

GC Semi VOA

Analysis Batch: 785070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-21	SB16 (0-3)	Total/NA	Solid	8081B	784522

Analysis Batch: 785109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-784522/1-A	Method Blank	Total/NA	Solid	8082A	784522
LCS 500-784522/3-A	Lab Control Sample	Total/NA	Solid	8082A	784522

Analysis Batch: 785339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	8081B	784522
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	8081B	784522
500-255917-19	SB15 (0-3)	Total/NA	Solid	8081B	784522
500-255917-19	SB15 (0-3)	Total/NA	Solid	8081B	784522
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	8081B	784522
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	8081B	784522
500-255917-22	SB16 (3-5)	Total/NA	Solid	8081B	784522
500-255917-22	SB16 (3-5)	Total/NA	Solid	8081B	784522

Prep Batch: 785442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	3541	
500-255917-2	SB6 (3-5)	Total/NA	Solid	3541	
500-255917-3	SB7 (0-3)	Total/NA	Solid	3541	
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	3541	
500-255917-5	SB8 (0-3)	Total/NA	Solid	3541	
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	3541	
500-255917-7	SB9 (0-3)	Total/NA	Solid	3541	
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	3541	
500-255917-9	SB10 (0-3)	Total/NA	Solid	3541	
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	3541	
500-255917-11	SB11 (0-3)	Total/NA	Solid	3541	
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	3541	
500-255917-13	SB12 (0-3)	Total/NA	Solid	3541	
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	3541	
500-255917-15	SB13 (0-3)	Total/NA	Solid	3541	
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	3541	
500-255917-17	SB14 (0-3)	Total/NA	Solid	3541	
MB 500-785442/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-785442/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-785442/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-255917-1 MS	SB6 (0-3)	Total/NA	Solid	3541	
500-255917-1 MS	SB6 (0-3)	Total/NA	Solid	3541	
500-255917-1 MSD	SB6 (0-3)	Total/NA	Solid	3541	
500-255917-1 MSD	SB6 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 785901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	8082A	785442
500-255917-2	SB6 (3-5)	Total/NA	Solid	8082A	785442
500-255917-3	SB7 (0-3)	Total/NA	Solid	8082A	785442
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	8082A	785442

GC Semi VOA (Continued)

Analysis Batch: 785901 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-5	SB8 (0-3)	Total/NA	Solid	8082A	785442
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	8082A	785442
500-255917-7	SB9 (0-3)	Total/NA	Solid	8082A	785442
MB 500-785442/1-A	Method Blank	Total/NA	Solid	8082A	785442
LCS 500-785442/3-A	Lab Control Sample	Total/NA	Solid	8082A	785442
500-255917-1 MS	SB6 (0-3)	Total/NA	Solid	8082A	785442
500-255917-1 MSD	SB6 (0-3)	Total/NA	Solid	8082A	785442

Analysis Batch: 785965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	8081B	785442
500-255917-3	SB7 (0-3)	Total/NA	Solid	8081B	785442
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	8081B	785442
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	8081B	785442
500-255917-7	SB9 (0-3)	Total/NA	Solid	8081B	785442
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	8081B	785442
500-255917-9	SB10 (0-3)	Total/NA	Solid	8081B	785442
500-255917-13	SB12 (0-3)	Total/NA	Solid	8081B	785442
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	8081B	785442
500-255917-15	SB13 (0-3)	Total/NA	Solid	8081B	785442
MB 500-785442/1-A	Method Blank	Total/NA	Solid	8081B	785442
LCS 500-785442/2-A	Lab Control Sample	Total/NA	Solid	8081B	785442
500-255917-1 MS	SB6 (0-3)	Total/NA	Solid	8081B	785442
500-255917-1 MSD	SB6 (0-3)	Total/NA	Solid	8081B	785442

Analysis Batch: 786207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-5	SB8 (0-3)	Total/NA	Solid	8081B	785442
500-255917-5	SB8 (0-3)	Total/NA	Solid	8081B	785442
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	8081B	785442
500-255917-11	SB11 (0-3)	Total/NA	Solid	8081B	785442
500-255917-11	SB11 (0-3)	Total/NA	Solid	8081B	785442
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	8081B	785442
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	8081B	785442
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	8081B	785442
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	8081B	785442
500-255917-17	SB14 (0-3)	Total/NA	Solid	8081B	785442
500-255917-17	SB14 (0-3)	Total/NA	Solid	8081B	785442
MB 500-785442/1-A	Method Blank	Total/NA	Solid	8081B	785442
LCS 500-785442/2-A	Lab Control Sample	Total/NA	Solid	8081B	785442

Analysis Batch: 786269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	8082A	785442
500-255917-9	SB10 (0-3)	Total/NA	Solid	8082A	785442
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	8082A	785442
500-255917-11	SB11 (0-3)	Total/NA	Solid	8082A	785442
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	8082A	785442
500-255917-13	SB12 (0-3)	Total/NA	Solid	8082A	785442
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	8082A	785442
500-255917-15	SB13 (0-3)	Total/NA	Solid	8082A	785442

GC Semi VOA (Continued)

Analysis Batch: 786269 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	8082A	785442
500-255917-17	SB14 (0-3)	Total/NA	Solid	8082A	785442
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	8082A	784522
500-255917-19	SB15 (0-3)	Total/NA	Solid	8082A	784522
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	8082A	784522
500-255917-21	SB16 (0-3)	Total/NA	Solid	8082A	784522
500-255917-22	SB16 (3-5)	Total/NA	Solid	8082A	784522

Analysis Batch: 786422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-2	SB6 (3-5)	Total/NA	Solid	8081B	785442
500-255917-2	SB6 (3-5)	Total/NA	Solid	8081B	785442

Metals

Prep Batch: 786196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-21	SB16 (0-3)	Total/NA	Solid	3050B	
500-255917-22	SB16 (3-5)	Total/NA	Solid	3050B	
MB 500-786196/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786196/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 786197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	3050B	
500-255917-2	SB6 (3-5)	Total/NA	Solid	3050B	
500-255917-3	SB7 (0-3)	Total/NA	Solid	3050B	
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	3050B	
500-255917-5	SB8 (0-3)	Total/NA	Solid	3050B	
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	3050B	
500-255917-7	SB9 (0-3)	Total/NA	Solid	3050B	
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	3050B	
500-255917-9	SB10 (0-3)	Total/NA	Solid	3050B	
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	3050B	
500-255917-11	SB11 (0-3)	Total/NA	Solid	3050B	
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	3050B	
500-255917-13	SB12 (0-3)	Total/NA	Solid	3050B	
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	3050B	
500-255917-15	SB13 (0-3)	Total/NA	Solid	3050B	
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	3050B	
500-255917-17	SB14 (0-3)	Total/NA	Solid	3050B	
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	3050B	
500-255917-19	SB15 (0-3)	Total/NA	Solid	3050B	
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	3050B	
MB 500-786197/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786197/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-255917-1 MS	SB6 (0-3)	Total/NA	Solid	3050B	
500-255917-1 MSD	SB6 (0-3)	Total/NA	Solid	3050B	
500-255917-1 DU	SB6 (0-3)	Total/NA	Solid	3050B	

Metals

Analysis Batch: 786380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	6010D	786197
500-255917-2	SB6 (3-5)	Total/NA	Solid	6010D	786197
500-255917-3	SB7 (0-3)	Total/NA	Solid	6010D	786197
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	6010D	786197
500-255917-5	SB8 (0-3)	Total/NA	Solid	6010D	786197
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	6010D	786197
500-255917-7	SB9 (0-3)	Total/NA	Solid	6010D	786197
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	6010D	786197
500-255917-9	SB10 (0-3)	Total/NA	Solid	6010D	786197
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	6010D	786197
500-255917-11	SB11 (0-3)	Total/NA	Solid	6010D	786197
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	6010D	786197
500-255917-13	SB12 (0-3)	Total/NA	Solid	6010D	786197
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	6010D	786197
500-255917-15	SB13 (0-3)	Total/NA	Solid	6010D	786197
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	6010D	786197
500-255917-17	SB14 (0-3)	Total/NA	Solid	6010D	786197
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	6010D	786197
500-255917-19	SB15 (0-3)	Total/NA	Solid	6010D	786197
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	6010D	786197
MB 500-786197/1-A	Method Blank	Total/NA	Solid	6010D	786197
LCS 500-786197/2-A	Lab Control Sample	Total/NA	Solid	6010D	786197
500-255917-1 MS	SB6 (0-3)	Total/NA	Solid	6010D	786197
500-255917-1 MSD	SB6 (0-3)	Total/NA	Solid	6010D	786197
500-255917-1 DU	SB6 (0-3)	Total/NA	Solid	6010D	786197

Analysis Batch: 786388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-21	SB16 (0-3)	Total/NA	Solid	6010D	786196
500-255917-22	SB16 (3-5)	Total/NA	Solid	6010D	786196
MB 500-786196/1-A	Method Blank	Total/NA	Solid	6010D	786196
LCS 500-786196/2-A	Lab Control Sample	Total/NA	Solid	6010D	786196

Prep Batch: 786466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	7471B	
500-255917-2	SB6 (3-5)	Total/NA	Solid	7471B	
500-255917-3	SB7 (0-3)	Total/NA	Solid	7471B	
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	7471B	
500-255917-5	SB8 (0-3)	Total/NA	Solid	7471B	
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	7471B	
500-255917-7	SB9 (0-3)	Total/NA	Solid	7471B	
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	7471B	
500-255917-9	SB10 (0-3)	Total/NA	Solid	7471B	
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	7471B	
500-255917-11	SB11 (0-3)	Total/NA	Solid	7471B	
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	7471B	
500-255917-13	SB12 (0-3)	Total/NA	Solid	7471B	
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	7471B	
500-255917-15	SB13 (0-3)	Total/NA	Solid	7471B	
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 786466 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-17	SB14 (0-3)	Total/NA	Solid	7471B	
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	7471B	
500-255917-19	SB15 (0-3)	Total/NA	Solid	7471B	
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	7471B	
MB 500-786466/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-786466/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-255917-8 MS	SB9 (7.5-10)	Total/NA	Solid	7471B	
500-255917-8 MSD	SB9 (7.5-10)	Total/NA	Solid	7471B	
500-255917-8 DU	SB9 (7.5-10)	Total/NA	Solid	7471B	

Prep Batch: 786494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-21	SB16 (0-3)	Total/NA	Solid	7471B	
500-255917-22	SB16 (3-5)	Total/NA	Solid	7471B	
MB 500-786494/11-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-786494/12-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 786584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	6010D	786197
500-255917-1	SB6 (0-3)	Total/NA	Solid	6010D	786197
500-255917-2	SB6 (3-5)	Total/NA	Solid	6010D	786197
500-255917-2	SB6 (3-5)	Total/NA	Solid	6010D	786197
500-255917-3	SB7 (0-3)	Total/NA	Solid	6010D	786197
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	6010D	786197
500-255917-5	SB8 (0-3)	Total/NA	Solid	6010D	786197
500-255917-5	SB8 (0-3)	Total/NA	Solid	6010D	786197
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	6010D	786197
500-255917-7	SB9 (0-3)	Total/NA	Solid	6010D	786197
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	6010D	786197
500-255917-9	SB10 (0-3)	Total/NA	Solid	6010D	786197
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	6010D	786197
500-255917-11	SB11 (0-3)	Total/NA	Solid	6010D	786197
500-255917-11	SB11 (0-3)	Total/NA	Solid	6010D	786197
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	6010D	786197
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	6010D	786197
500-255917-13	SB12 (0-3)	Total/NA	Solid	6010D	786197
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	6010D	786197
500-255917-15	SB13 (0-3)	Total/NA	Solid	6010D	786197
500-255917-15	SB13 (0-3)	Total/NA	Solid	6010D	786197
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	6010D	786197
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	6010D	786197
500-255917-17	SB14 (0-3)	Total/NA	Solid	6010D	786197
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	6010D	786197
500-255917-19	SB15 (0-3)	Total/NA	Solid	6010D	786197
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	6010D	786197
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	6010D	786197
MB 500-786197/1-A	Method Blank	Total/NA	Solid	6010D	786197
LCS 500-786197/2-A	Lab Control Sample	Total/NA	Solid	6010D	786197
500-255917-1 MS	SB6 (0-3)	Total/NA	Solid	6010D	786197
500-255917-1 MS	SB6 (0-3)	Total/NA	Solid	6010D	786197

Metals (Continued)

Analysis Batch: 786584 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1 MSD	SB6 (0-3)	Total/NA	Solid	6010D	786197
500-255917-1 MSD	SB6 (0-3)	Total/NA	Solid	6010D	786197
500-255917-1 DU	SB6 (0-3)	Total/NA	Solid	6010D	786197
500-255917-1 DU	SB6 (0-3)	Total/NA	Solid	6010D	786197

Analysis Batch: 786591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-21	SB16 (0-3)	Total/NA	Solid	6010D	786196
500-255917-21	SB16 (0-3)	Total/NA	Solid	6010D	786196
500-255917-22	SB16 (3-5)	Total/NA	Solid	6010D	786196
500-255917-22	SB16 (3-5)	Total/NA	Solid	6010D	786196
MB 500-786196/1-A	Method Blank	Total/NA	Solid	6010D	786196
LCS 500-786196/2-A	Lab Control Sample	Total/NA	Solid	6010D	786196

Analysis Batch: 786635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	7471B	786466
500-255917-2	SB6 (3-5)	Total/NA	Solid	7471B	786466
500-255917-3	SB7 (0-3)	Total/NA	Solid	7471B	786466
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	7471B	786466
500-255917-5	SB8 (0-3)	Total/NA	Solid	7471B	786466
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	7471B	786466
500-255917-7	SB9 (0-3)	Total/NA	Solid	7471B	786466
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	7471B	786466
500-255917-9	SB10 (0-3)	Total/NA	Solid	7471B	786466
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	7471B	786466
500-255917-11	SB11 (0-3)	Total/NA	Solid	7471B	786466
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	7471B	786466
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	7471B	786466
MB 500-786466/12-A	Method Blank	Total/NA	Solid	7471B	786466
LCS 500-786466/13-A	Lab Control Sample	Total/NA	Solid	7471B	786466
500-255917-8 MS	SB9 (7.5-10)	Total/NA	Solid	7471B	786466
500-255917-8 MSD	SB9 (7.5-10)	Total/NA	Solid	7471B	786466
500-255917-8 DU	SB9 (7.5-10)	Total/NA	Solid	7471B	786466

Analysis Batch: 786700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-13	SB12 (0-3)	Total/NA	Solid	7471B	786466
500-255917-15	SB13 (0-3)	Total/NA	Solid	7471B	786466
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	7471B	786466
500-255917-17	SB14 (0-3)	Total/NA	Solid	7471B	786466
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	7471B	786466
500-255917-19	SB15 (0-3)	Total/NA	Solid	7471B	786466
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	7471B	786466
500-255917-21	SB16 (0-3)	Total/NA	Solid	7471B	786494
500-255917-22	SB16 (3-5)	Total/NA	Solid	7471B	786494
MB 500-786466/12-A	Method Blank	Total/NA	Solid	7471B	786466
MB 500-786494/11-A	Method Blank	Total/NA	Solid	7471B	786494
LCS 500-786466/13-A	Lab Control Sample	Total/NA	Solid	7471B	786466
LCS 500-786494/12-A	Lab Control Sample	Total/NA	Solid	7471B	786494

General Chemistry

Prep Batch: 625847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-2	SB6 (3-5)	Total/NA	Solid	9030B	
500-255917-9	SB10 (0-3)	Total/NA	Solid	9030B	
MB 240-625847/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-625847/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 625911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-2	SB6 (3-5)	Total/NA	Solid	9034	625847
500-255917-9	SB10 (0-3)	Total/NA	Solid	9034	625847
MB 240-625847/1-A	Method Blank	Total/NA	Solid	9034	625847
LCS 240-625847/2-A	Lab Control Sample	Total/NA	Solid	9034	625847

Prep Batch: 784233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	9010C	
500-255917-2	SB6 (3-5)	Total/NA	Solid	9010C	
500-255917-3	SB7 (0-3)	Total/NA	Solid	9010C	
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	9010C	
500-255917-5	SB8 (0-3)	Total/NA	Solid	9010C	
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	9010C	
500-255917-7	SB9 (0-3)	Total/NA	Solid	9010C	
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	9010C	
500-255917-9	SB10 (0-3)	Total/NA	Solid	9010C	
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	9010C	
500-255917-11	SB11 (0-3)	Total/NA	Solid	9010C	
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	9010C	
500-255917-13	SB12 (0-3)	Total/NA	Solid	9010C	
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	9010C	
500-255917-15	SB13 (0-3)	Total/NA	Solid	9010C	
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	9010C	
500-255917-17	SB14 (0-3)	Total/NA	Solid	9010C	
MB 500-784233/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-784233/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-255917-3 MS	SB7 (0-3)	Total/NA	Solid	9010C	
500-255917-3 MSD	SB7 (0-3)	Total/NA	Solid	9010C	
500-255917-14 MS	SB12 (7.5-10)	Total/NA	Solid	9010C	
500-255917-14 MSD	SB12 (7.5-10)	Total/NA	Solid	9010C	

Prep Batch: 784292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	9010C	
500-255917-19	SB15 (0-3)	Total/NA	Solid	9010C	
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	9010C	
500-255917-21	SB16 (0-3)	Total/NA	Solid	9010C	
500-255917-22	SB16 (3-5)	Total/NA	Solid	9010C	
MB 500-784292/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-784292/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-255917-19 MS	SB15 (0-3)	Total/NA	Solid	9010C	
500-255917-19 MSD	SB15 (0-3)	Total/NA	Solid	9010C	

General Chemistry

Analysis Batch: 784377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	9012B	784233
500-255917-2	SB6 (3-5)	Total/NA	Solid	9012B	784233
500-255917-3	SB7 (0-3)	Total/NA	Solid	9012B	784233
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	9012B	784233
500-255917-5	SB8 (0-3)	Total/NA	Solid	9012B	784233
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	9012B	784233
500-255917-7	SB9 (0-3)	Total/NA	Solid	9012B	784233
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	9012B	784233
500-255917-9	SB10 (0-3)	Total/NA	Solid	9012B	784233
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	9012B	784233
500-255917-11	SB11 (0-3)	Total/NA	Solid	9012B	784233
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	9012B	784233
500-255917-13	SB12 (0-3)	Total/NA	Solid	9012B	784233
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	9012B	784233
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	9012B	784233
MB 500-784233/1-A	Method Blank	Total/NA	Solid	9012B	784233
LCS 500-784233/2-A	Lab Control Sample	Total/NA	Solid	9012B	784233
500-255917-3 MS	SB7 (0-3)	Total/NA	Solid	9012B	784233
500-255917-3 MSD	SB7 (0-3)	Total/NA	Solid	9012B	784233
500-255917-14 MS	SB12 (7.5-10)	Total/NA	Solid	9012B	784233
500-255917-14 MSD	SB12 (7.5-10)	Total/NA	Solid	9012B	784233

Analysis Batch: 784511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-15	SB13 (0-3)	Total/NA	Solid	9012B	784233
500-255917-17	SB14 (0-3)	Total/NA	Solid	9012B	784233
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	9012B	784292
500-255917-19	SB15 (0-3)	Total/NA	Solid	9012B	784292
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	9012B	784292
500-255917-21	SB16 (0-3)	Total/NA	Solid	9012B	784292
500-255917-22	SB16 (3-5)	Total/NA	Solid	9012B	784292
MB 500-784292/1-A	Method Blank	Total/NA	Solid	9012B	784292
LCS 500-784292/2-A	Lab Control Sample	Total/NA	Solid	9012B	784292
500-255917-19 MS	SB15 (0-3)	Total/NA	Solid	9012B	784292
500-255917-19 MSD	SB15 (0-3)	Total/NA	Solid	9012B	784292

Analysis Batch: 784728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	9045D	
500-255917-2	SB6 (3-5)	Total/NA	Solid	9045D	
500-255917-3	SB7 (0-3)	Total/NA	Solid	9045D	
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	9045D	
500-255917-5	SB8 (0-3)	Total/NA	Solid	9045D	
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	9045D	
500-255917-7	SB9 (0-3)	Total/NA	Solid	9045D	
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	9045D	
500-255917-9	SB10 (0-3)	Total/NA	Solid	9045D	
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	9045D	
500-255917-11	SB11 (0-3)	Total/NA	Solid	9045D	
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	9045D	
500-255917-13	SB12 (0-3)	Total/NA	Solid	9045D	

General Chemistry (Continued)

Analysis Batch: 784728 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	9045D	
500-255917-15	SB13 (0-3)	Total/NA	Solid	9045D	
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	9045D	
500-255917-17	SB14 (0-3)	Total/NA	Solid	9045D	
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	9045D	
500-255917-19	SB15 (0-3)	Total/NA	Solid	9045D	
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	9045D	
500-255917-21	SB16 (0-3)	Total/NA	Solid	9045D	
500-255917-22	SB16 (3-5)	Total/NA	Solid	9045D	
LCS 500-784728/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-784728/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-255917-10 DU	SB10 (5-7.5)	Total/NA	Solid	9045D	

Analysis Batch: 785771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	Total/NA	Solid	Moisture	
500-255917-2	SB6 (3-5)	Total/NA	Solid	Moisture	
500-255917-3	SB7 (0-3)	Total/NA	Solid	Moisture	
500-255917-4	SB7 (10-12.5)	Total/NA	Solid	Moisture	
500-255917-5	SB8 (0-3)	Total/NA	Solid	Moisture	
500-255917-6	SB8 (5-7.5)	Total/NA	Solid	Moisture	
500-255917-7	SB9 (0-3)	Total/NA	Solid	Moisture	
500-255917-8	SB9 (7.5-10)	Total/NA	Solid	Moisture	
500-255917-9	SB10 (0-3)	Total/NA	Solid	Moisture	
500-255917-10	SB10 (5-7.5)	Total/NA	Solid	Moisture	
500-255917-11	SB11 (0-3)	Total/NA	Solid	Moisture	
500-255917-12	SB11 (5-7.5)	Total/NA	Solid	Moisture	
500-255917-13	SB12 (0-3)	Total/NA	Solid	Moisture	
500-255917-14	SB12 (7.5-10)	Total/NA	Solid	Moisture	
500-255917-15	SB13 (0-3)	Total/NA	Solid	Moisture	
500-255917-16	SB13 (5-7.5)	Total/NA	Solid	Moisture	
500-255917-7 DU	SB9 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 785782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-17	SB14 (0-3)	Total/NA	Solid	Moisture	
500-255917-18	SB14 (10-12.5)	Total/NA	Solid	Moisture	
500-255917-19	SB15 (0-3)	Total/NA	Solid	Moisture	
500-255917-20	SB15 (7.5-10)	Total/NA	Solid	Moisture	
500-255917-21	SB16 (0-3)	Total/NA	Solid	Moisture	
500-255917-22	SB16 (3-5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-255917-1	SB6 (0-3)	120	120	109	110
500-255917-2	SB6 (3-5)	114	130	108	107
500-255917-3	SB7 (0-3)	118	127 *3	114	127 S1+
500-255917-4	SB7 (10-12.5)	118	115	112	105
500-255917-5	SB8 (0-3)	112	108	107	100
500-255917-6	SB8 (5-7.5)	112	99	108	98
500-255917-7	SB9 (0-3)	117	121	112	112
500-255917-8	SB9 (7.5-10)	111	97	100	102
500-255917-9	SB10 (0-3)	111	109	102	98
500-255917-10	SB10 (5-7.5)	107	100	96	100
500-255917-11	SB11 (0-3)	96	106	94	106
500-255917-12	SB11 (5-7.5)	105	124 *3	104	106
500-255917-13	SB12 (0-3)	106	116	97	106
500-255917-14	SB12 (7.5-10)	103	111	96	102
500-255917-15	SB13 (0-3)	104	112	94	104
500-255917-16	SB13 (5-7.5)	107	114	95	104
500-255917-17	SB14 (0-3)	109	103	103	105
500-255917-18	SB14 (10-12.5)	98	106	95	102
500-255917-19	SB15 (0-3)	104	104	97	103
500-255917-20	SB15 (7.5-10)	106	103	95	103
500-255917-21	SB16 (0-3)	103	102	95	101
500-255917-22	SB16 (3-5)	107	100	100	100
LCS 500-784960/4	Lab Control Sample	106	92	99	98
LCS 500-785246/4	Lab Control Sample	104	98	95	101
LCSD 500-784960/5	Lab Control Sample Dup	104	94	102	97
LCSD 500-785246/5	Lab Control Sample Dup	107	95	95	103
MB 500-784960/7	Method Blank	95	98	101	96
MB 500-785246/7	Method Blank	107	102	101	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-255917-1	SB6 (0-3)	60	61	61	59	40	53
500-255917-1 MS	SB6 (0-3)	59	61	63	57	40	53
500-255917-1 MSD	SB6 (0-3)	60	63	62	62	38	58
500-255917-2	SB6 (3-5)	75	77	82	77	64	86
500-255917-3	SB7 (0-3)	54	59	61	62	44	59
500-255917-4	SB7 (10-12.5)	84	86	89	79	63	89
500-255917-5	SB8 (0-3)	67	67	70	72	64	72
500-255917-6	SB8 (5-7.5)	72	71	75	71	56	80
500-255917-7	SB9 (0-3)	54	62	64	68	42	66

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-255917-8	SB9 (7.5-10)	80	78	85	79	65	86
500-255917-9	SB10 (0-3)	63	65	65	67	55	64
500-255917-10	SB10 (5-7.5)	68	72	71	73	54	109
500-255917-10 - DL	SB10 (5-7.5)	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
500-255917-11	SB11 (0-3)	61	64	66	67	57	66
500-255917-12	SB11 (5-7.5)	53	60	76	72	34	63
500-255917-13	SB12 (0-3)	45	48	59	58	33	52
500-255917-14	SB12 (7.5-10)	79	82	87	83	60	89
500-255917-15	SB13 (0-3)	68	70	72	71	29 S1-	70
500-255917-16	SB13 (5-7.5)	56	58	66	65	42	73
500-255917-17	SB14 (0-3)	64	66	71	69	53	71
500-255917-18	SB14 (10-12.5)	65	70	70	73	66	81
500-255917-19	SB15 (0-3)	67	69	72	72	52	71
500-255917-20	SB15 (7.5-10)	73	75	79	74	31	80
500-255917-21	SB16 (0-3)	60	60	60	63	42	83
500-255917-22	SB16 (3-5)	50	50	47	52	38	79
LCS 500-785733/2-A	Lab Control Sample	80	76	76	76	86	84
LCS 500-785749/2-A	Lab Control Sample	89	87	94	87	70	86
MB 500-785733/1-A	Method Blank	84	81	80	82	84	92
MB 500-785749/1-A	Method Blank	81	82	87	79	60	80

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (33-148)	TCX2 (30-121)
500-255917-1	SB6 (0-3)	231 S1+	66
500-255917-1 MS	SB6 (0-3)	226 S1+	67
500-255917-1 MSD	SB6 (0-3)	217 S1+	146 S1+
500-255917-2	SB6 (3-5)	118	96
500-255917-3	SB7 (0-3)	453 S1+	87
500-255917-4	SB7 (10-12.5)	83	60
500-255917-5	SB8 (0-3)	97	51
500-255917-6	SB8 (5-7.5)	78	58
500-255917-7	SB9 (0-3)	221 S1+	66
500-255917-8	SB9 (7.5-10)	96	52
500-255917-9	SB10 (0-3)	0 S1-	0 S1-
500-255917-10	SB10 (5-7.5)	3654 S1+	125 S1+
500-255917-11	SB11 (0-3)	693 S1+	81
500-255917-13	SB12 (0-3)	221 S1+	61
500-255917-14	SB12 (7.5-10)	100	52
500-255917-15	SB13 (0-3)	313 S1+	108

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (33-148)	TCX2 (30-121)
500-255917-16	SB13 (5-7.5)	103	65
500-255917-17	SB14 (0-3)	354 S1+	76
500-255917-18	SB14 (10-12.5)	138	61
500-255917-19	SB15 (0-3)	728 S1+	74
500-255917-20	SB15 (7.5-10)	251 S1+	62
LCS 500-785442/2-A	Lab Control Sample	87	72
MB 500-785442/1-A	Method Blank	92	68

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (33-148)	TCX1 (30-121)
500-255917-5	SB8 (0-3)	59	52
500-255917-12	SB11 (5-7.5)	91	65
500-255917-17	SB14 (0-3)	147	84
500-255917-18	SB14 (10-12.5)	96	52
500-255917-19	SB15 (0-3)	148	61
500-255917-20	SB15 (7.5-10)	87	57
500-255917-21	SB16 (0-3)	89	65
500-255917-22	SB16 (3-5)	78	54
500-255917-22	SB16 (3-5)	47	45
LCS 500-784522/2-A	Lab Control Sample	84	73
LCS 500-785442/2-A	Lab Control Sample	79	66
MB 500-784522/1-A	Method Blank	89	68
MB 500-785442/1-A	Method Blank	93	73

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (49-129)	DCBP2 (37-121)
500-255917-1	SB6 (0-3)	72	52
500-255917-1 MS	SB6 (0-3)	73	48
500-255917-1 MSD	SB6 (0-3)	72	51
500-255917-2	SB6 (3-5)	85	50
500-255917-3	SB7 (0-3)	73	55
500-255917-4	SB7 (10-12.5)	84	61
500-255917-5	SB8 (0-3)	50	39
500-255917-6	SB8 (5-7.5)	67	48
500-255917-7	SB9 (0-3)	68	48
LCS 500-784522/3-A	Lab Control Sample	59	67

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
LCS 500-785442/3-A	Lab Control Sample	66	74
MB 500-784522/1-A	Method Blank	58	69
MB 500-785442/1-A	Method Blank	61	67

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-255917-8	SB9 (7.5-10)	50	86
500-255917-9	SB10 (0-3)	79	98
500-255917-10	SB10 (5-7.5)	72	853 S1+
500-255917-11	SB11 (0-3)	57	86
500-255917-12	SB11 (5-7.5)	70	119
500-255917-13	SB12 (0-3)	88	117
500-255917-14	SB12 (7.5-10)	57	80
500-255917-15	SB13 (0-3)	66	133 S1+
500-255917-16	SB13 (5-7.5)	80	116
500-255917-17	SB14 (0-3)	81	110
500-255917-18	SB14 (10-12.5)	50	59
500-255917-19	SB15 (0-3)	59	62
500-255917-20	SB15 (7.5-10)	52	52
500-255917-21	SB16 (0-3)	59	60
500-255917-22	SB16 (3-5)	56	56

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-255917-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-784960/7
Matrix: Solid
Analysis Batch: 784960

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/08/24 14:14	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/08/24 14:14	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/08/24 14:14	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/08/24 14:14	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/08/24 14:14	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/08/24 14:14	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/08/24 14:14	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/08/24 14:14	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/08/24 14:14	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/08/24 14:14	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/08/24 14:14	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/08/24 14:14	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/08/24 14:14	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/08/24 14:14	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/08/24 14:14	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/08/24 14:14	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/08/24 14:14	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/08/24 14:14	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/08/24 14:14	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/08/24 14:14	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/08/24 14:14	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/08/24 14:14	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/08/24 14:14	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/08/24 14:14	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/08/24 14:14	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/08/24 14:14	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/08/24 14:14	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/08/24 14:14	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/08/24 14:14	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/08/24 14:14	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/08/24 14:14	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/08/24 14:14	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/08/24 14:14	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/08/24 14:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*		*09/08/24 14:14*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*		*09/08/24 14:14*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*09/08/24 14:14*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*		*09/08/24 14:14*	*1*

Lab Sample ID: LCS 500-784960/4
Matrix: Solid
Analysis Batch: 784960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0569		mg/Kg		114	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0574		mg/Kg		115	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-784960/4
Matrix: Solid
Analysis Batch: 784960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0564		mg/Kg		113	70 - 125
1,1-Dichloroethane	0.0500	0.0546		mg/Kg		109	70 - 125
1,1-Dichloroethene	0.0500	0.0545		mg/Kg		109	70 - 120
1,2-Dichloroethane	0.0500	0.0588		mg/Kg		118	70 - 130
1,2-Dichloropropane	0.0500	0.0552		mg/Kg		110	70 - 125
2-Butanone (MEK)	0.0500	0.0658		mg/Kg		132	47 - 138
2-Hexanone	0.0500	0.0658		mg/Kg		132	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0667		mg/Kg		133	50 - 148
Acetone	0.0500	0.0611		mg/Kg		122	40 - 150
Benzene	0.0500	0.0554		mg/Kg		111	70 - 125
Bromodichloromethane	0.0500	0.0605		mg/Kg		121	67 - 129
Bromoform	0.0500	0.0676		mg/Kg		135	68 - 136
Bromomethane	0.0500	0.0514		mg/Kg		103	70 - 130
Carbon disulfide	0.0500	0.0521		mg/Kg		104	70 - 129
Carbon tetrachloride	0.0500	0.0589		mg/Kg		118	75 - 125
Chlorobenzene	0.0500	0.0550		mg/Kg		110	50 - 150
Chloroethane	0.0500	0.0497		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0565		mg/Kg		113	57 - 135
Chloromethane	0.0500	0.0492		mg/Kg		98	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0568		mg/Kg		114	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0583		mg/Kg		117	70 - 125
Dibromochloromethane	0.0500	0.0621		mg/Kg		124	69 - 125
Ethylbenzene	0.0500	0.0571		mg/Kg		114	61 - 136
Methyl tert-butyl ether	0.0500	0.0615		mg/Kg		123	50 - 140
Methylene Chloride	0.0500	0.0495		mg/Kg		99	70 - 126
Styrene	0.0500	0.0617		mg/Kg		123	70 - 125
Tetrachloroethene	0.0500	0.0555		mg/Kg		111	70 - 124
Toluene	0.0500	0.0556		mg/Kg		111	70 - 125
Xylenes, Total	0.100	0.115		mg/Kg		115	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0554		mg/Kg		111	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0599		mg/Kg		120	70 - 125
Trichloroethene	0.0500	0.0549		mg/Kg		110	70 - 125
Vinyl chloride	0.0500	0.0472		mg/Kg		94	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*
Dibromofluoromethane	*99*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 124*

Lab Sample ID: LCSD 500-784960/5
Matrix: Solid
Analysis Batch: 784960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0583		mg/Kg		117	70 - 128	2	30
1,1,2,2-Tetrachloroethane	0.0500	0.0611		mg/Kg		122	70 - 122	6	30
1,1,2-Trichloroethane	0.0500	0.0613		mg/Kg		123	70 - 125	8	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-784960/5
Matrix: Solid
Analysis Batch: 784960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	0.0500	0.0571		mg/Kg		114	70 - 125	4	30
1,1-Dichloroethene	0.0500	0.0566		mg/Kg		113	70 - 120	4	30
1,2-Dichloroethane	0.0500	0.0596		mg/Kg		119	70 - 130	1	30
1,2-Dichloropropane	0.0500	0.0593		mg/Kg		119	70 - 125	7	30
2-Butanone (MEK)	0.0500	0.0682		mg/Kg		136	47 - 138	4	30
2-Hexanone	0.0500	0.0667		mg/Kg		133	48 - 146	1	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0672		mg/Kg		134	50 - 148	1	30
Acetone	0.0500	0.0611		mg/Kg		122	40 - 150	0	30
Benzene	0.0500	0.0575		mg/Kg		115	70 - 125	4	30
Bromodichloromethane	0.0500	0.0617		mg/Kg		123	67 - 129	2	30
Bromoform	0.0500	0.0724	*+	mg/Kg		145	68 - 136	7	30
Bromomethane	0.0500	0.0546		mg/Kg		109	70 - 130	6	30
Carbon disulfide	0.0500	0.0544		mg/Kg		109	70 - 129	4	30
Carbon tetrachloride	0.0500	0.0591		mg/Kg		118	75 - 125	0	30
Chlorobenzene	0.0500	0.0579		mg/Kg		116	50 - 150	5	30
Chloroethane	0.0500	0.0488		mg/Kg		98	75 - 125	2	30
Chloroform	0.0500	0.0583		mg/Kg		117	57 - 135	3	30
Chloromethane	0.0500	0.0500		mg/Kg		100	70 - 125	2	30
cis-1,2-Dichloroethene	0.0500	0.0574		mg/Kg		115	70 - 125	1	30
cis-1,3-Dichloropropene	0.0500	0.0596		mg/Kg		119	70 - 125	2	30
Dibromochloromethane	0.0500	0.0647	*+	mg/Kg		129	69 - 125	4	30
Ethylbenzene	0.0500	0.0585		mg/Kg		117	61 - 136	2	30
Methyl tert-butyl ether	0.0500	0.0626		mg/Kg		125	50 - 140	2	30
Methylene Chloride	0.0500	0.0512		mg/Kg		102	70 - 126	3	30
Styrene	0.0500	0.0652	*+	mg/Kg		130	70 - 125	6	30
Tetrachloroethene	0.0500	0.0578		mg/Kg		116	70 - 124	4	30
Toluene	0.0500	0.0586		mg/Kg		117	70 - 125	5	30
Xylenes, Total	0.100	0.120		mg/Kg		120	53 - 147	4	30
trans-1,2-Dichloroethene	0.0500	0.0567		mg/Kg		113	70 - 125	2	30
trans-1,3-Dichloropropene	0.0500	0.0617		mg/Kg		123	70 - 125	3	30
Trichloroethene	0.0500	0.0584		mg/Kg		117	70 - 125	6	30
Vinyl chloride	0.0500	0.0481		mg/Kg		96	70 - 125	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*
Dibromofluoromethane	*102*		*75 - 126*
Toluene-d8 (Surr)	*97*		*75 - 124*

Lab Sample ID: MB 500-785246/7
Matrix: Solid
Analysis Batch: 785246

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/10/24 11:03	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/10/24 11:03	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/10/24 11:03	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/10/24 11:03	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-785246/7
Matrix: Solid
Analysis Batch: 785246

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/10/24 11:03	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/10/24 11:03	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/10/24 11:03	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/10/24 11:03	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/10/24 11:03	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/10/24 11:03	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/10/24 11:03	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/10/24 11:03	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/10/24 11:03	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/10/24 11:03	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/10/24 11:03	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/10/24 11:03	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/10/24 11:03	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/10/24 11:03	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/10/24 11:03	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/10/24 11:03	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/10/24 11:03	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/10/24 11:03	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/10/24 11:03	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/10/24 11:03	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/10/24 11:03	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/10/24 11:03	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/10/24 11:03	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/10/24 11:03	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/10/24 11:03	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/10/24 11:03	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/10/24 11:03	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/10/24 11:03	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/10/24 11:03	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/10/24 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*		*09/10/24 11:03*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*		*09/10/24 11:03*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*09/10/24 11:03*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*		*09/10/24 11:03*	*1*

Lab Sample ID: LCS 500-785246/4
Matrix: Solid
Analysis Batch: 785246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0454		mg/Kg		91	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0407		mg/Kg		81	70 - 122
1,1,2-Trichloroethane	0.0500	0.0411		mg/Kg		82	70 - 125
1,1-Dichloroethane	0.0500	0.0402		mg/Kg		80	70 - 125
1,1-Dichloroethene	0.0500	0.0420		mg/Kg		84	70 - 120
1,2-Dichloroethane	0.0500	0.0448		mg/Kg		90	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785246/4
Matrix: Solid
Analysis Batch: 785246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0433		mg/Kg		87	70 - 125
2-Butanone (MEK)	0.0500	0.0433		mg/Kg		87	47 - 138
2-Hexanone	0.0500	0.0483		mg/Kg		97	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0452		mg/Kg		90	50 - 148
Acetone	0.0500	0.0447		mg/Kg		89	40 - 150
Benzene	0.0500	0.0429		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0449		mg/Kg		90	67 - 129
Bromoform	0.0500	0.0426		mg/Kg		85	68 - 136
Bromomethane	0.0500	0.0485		mg/Kg		97	70 - 130
Carbon disulfide	0.0500	0.0426		mg/Kg		85	70 - 129
Carbon tetrachloride	0.0500	0.0465		mg/Kg		93	75 - 125
Chlorobenzene	0.0500	0.0426		mg/Kg		85	50 - 150
Chloroethane	0.0500	0.0453		mg/Kg		91	75 - 125
Chloroform	0.0500	0.0416		mg/Kg		83	57 - 135
Chloromethane	0.0500	0.0467		mg/Kg		93	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0405		mg/Kg		81	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0448		mg/Kg		90	70 - 125
Dibromochloromethane	0.0500	0.0432		mg/Kg		86	69 - 125
Ethylbenzene	0.0500	0.0440		mg/Kg		88	61 - 136
Methyl tert-butyl ether	0.0500	0.0432		mg/Kg		86	50 - 140
Methylene Chloride	0.0500	0.0366		mg/Kg		73	70 - 126
Styrene	0.0500	0.0440		mg/Kg		88	70 - 125
Tetrachloroethene	0.0500	0.0459		mg/Kg		92	70 - 124
Toluene	0.0500	0.0436		mg/Kg		87	70 - 125
Xylenes, Total	0.100	0.0888		mg/Kg		89	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0418		mg/Kg		84	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0450		mg/Kg		90	70 - 125
Trichloroethene	0.0500	0.0434		mg/Kg		87	70 - 125
Vinyl chloride	0.0500	0.0503		mg/Kg		101	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*
Dibromofluoromethane	*95*		*75 - 126*
Toluene-d8 (Surr)	*101*		*75 - 124*

Lab Sample ID: LCSD 500-785246/5
Matrix: Solid
Analysis Batch: 785246

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0469		mg/Kg		94	70 - 128	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0420		mg/Kg		84	70 - 122	3	30
1,1,2-Trichloroethane	0.0500	0.0449		mg/Kg		90	70 - 125	9	30
1,1-Dichloroethane	0.0500	0.0417		mg/Kg		83	70 - 125	4	30
1,1-Dichloroethene	0.0500	0.0429		mg/Kg		86	70 - 120	2	30
1,2-Dichloroethane	0.0500	0.0470		mg/Kg		94	70 - 130	5	30
1,2-Dichloropropane	0.0500	0.0427		mg/Kg		85	70 - 125	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-785246/5
Matrix: Solid
Analysis Batch: 785246

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			0.0500	0.0517		mg/Kg		103	47 - 138	18	30
2-Hexanone			0.0500	0.0533		mg/Kg		107	48 - 146	10	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0496		mg/Kg		99	50 - 148	9	30
Acetone			0.0500	0.0473		mg/Kg		95	40 - 150	6	30
Benzene			0.0500	0.0439		mg/Kg		88	70 - 125	2	30
Bromodichloromethane			0.0500	0.0472		mg/Kg		94	67 - 129	5	30
Bromoform			0.0500	0.0441		mg/Kg		88	68 - 136	3	30
Bromomethane			0.0500	0.0480		mg/Kg		96	70 - 130	1	30
Carbon disulfide			0.0500	0.0428		mg/Kg		86	70 - 129	0	30
Carbon tetrachloride			0.0500	0.0472		mg/Kg		94	75 - 125	2	30
Chlorobenzene			0.0500	0.0439		mg/Kg		88	50 - 150	3	30
Chloroethane			0.0500	0.0471		mg/Kg		94	75 - 125	4	30
Chloroform			0.0500	0.0417		mg/Kg		83	57 - 135	0	30
Chloromethane			0.0500	0.0464		mg/Kg		93	70 - 125	1	30
cis-1,2-Dichloroethene			0.0500	0.0420		mg/Kg		84	70 - 125	4	30
cis-1,3-Dichloropropene			0.0500	0.0466		mg/Kg		93	70 - 125	4	30
Dibromochloromethane			0.0500	0.0463		mg/Kg		93	69 - 125	7	30
Ethylbenzene			0.0500	0.0460		mg/Kg		92	61 - 136	4	30
Methyl tert-butyl ether			0.0500	0.0457		mg/Kg		91	50 - 140	6	30
Methylene Chloride			0.0500	0.0383		mg/Kg		77	70 - 126	5	30
Styrene			0.0500	0.0469		mg/Kg		94	70 - 125	6	30
Tetrachloroethene			0.0500	0.0469		mg/Kg		94	70 - 124	2	30
Toluene			0.0500	0.0445		mg/Kg		89	70 - 125	2	30
Xylenes, Total			0.100	0.0908		mg/Kg		91	53 - 147	2	30
trans-1,2-Dichloroethene			0.0500	0.0420		mg/Kg		84	70 - 125	1	30
trans-1,3-Dichloropropene			0.0500	0.0482		mg/Kg		96	70 - 125	7	30
Trichloroethene			0.0500	0.0450		mg/Kg		90	70 - 125	4	30
Vinyl chloride			0.0500	0.0508		mg/Kg		102	70 - 125	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*
Dibromofluoromethane	*95*		*75 - 126*
Toluene-d8 (Surr)	*103*		*75 - 124*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-785733/1-A
Matrix: Solid
Analysis Batch: 785926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/12/24 10:51	09/13/24 10:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-785733/1-A
Matrix: Solid
Analysis Batch: 785926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/12/24 10:51	09/13/24 10:48	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-255917-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-785733/1-A
Matrix: Solid
Analysis Batch: 785926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/12/24 10:51	09/13/24 10:48	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/12/24 10:51	09/13/24 10:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*84*		*31 - 166*	*09/12/24 10:51*	*09/13/24 10:48*	*1*
Phenol-d5 (Surr)	*81*		*30 - 153*	*09/12/24 10:51*	*09/13/24 10:48*	*1*
Nitrobenzene-d5 (Surr)	*80*		*37 - 147*	*09/12/24 10:51*	*09/13/24 10:48*	*1*
2-Fluorobiphenyl (Surr)	*82*		*43 - 145*	*09/12/24 10:51*	*09/13/24 10:48*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*31 - 143*	*09/12/24 10:51*	*09/13/24 10:48*	*1*
Terphenyl-d14 (Surr)	*92*		*42 - 157*	*09/12/24 10:51*	*09/13/24 10:48*	*1*

Lab Sample ID: LCS 500-785733/2-A
Matrix: Solid
Analysis Batch: 785926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.69		mg/Kg		81	63 - 109
Acenaphthylene	3.33	2.79		mg/Kg		84	61 - 115
Anthracene	3.33	2.81		mg/Kg		84	68 - 120
Benzo[a]anthracene	3.33	2.81		mg/Kg		84	70 - 121
Benzo[a]pyrene	3.33	3.05		mg/Kg		91	73 - 132
Benzo[b]fluoranthene	3.33	2.85		mg/Kg		86	68 - 123
Benzo[g,h,i]perylene	3.33	3.16		mg/Kg		95	65 - 126
Benzo[k]fluoranthene	3.33	3.24		mg/Kg		97	64 - 128
Chrysene	3.33	2.87		mg/Kg		86	70 - 123
Dibenz(a,h)anthracene	3.33	3.05		mg/Kg		91	66 - 125
Fluoranthene	3.33	2.89		mg/Kg		87	66 - 123
Fluorene	3.33	2.69		mg/Kg		81	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.00		mg/Kg		90	66 - 131
Naphthalene	3.33	2.70		mg/Kg		81	54 - 98
Phenanthrene	3.33	2.82		mg/Kg		84	65 - 115
Pyrene	3.33	2.90		mg/Kg		87	71 - 128
1,2,4-Trichlorobenzene	3.33	2.66		mg/Kg		80	49 - 100
1,2-Dichlorobenzene	3.33	2.49		mg/Kg		75	47 - 94
1,3-Dichlorobenzene	3.33	2.46		mg/Kg		74	47 - 92
1,4-Dichlorobenzene	3.33	2.41		mg/Kg		72	46 - 92
2,4,5-Trichlorophenol	3.33	2.90		mg/Kg		87	48 - 121
2,4,6-Trichlorophenol	3.33	2.78		mg/Kg		83	50 - 121
2,4-Dichlorophenol	3.33	2.76		mg/Kg		83	51 - 109
2,4-Dimethylphenol	3.33	2.94		mg/Kg		88	48 - 93
2,4-Dinitrophenol	6.67	4.46		mg/Kg		67	10 - 130
2,4-Dinitrotoluene	3.33	2.98		mg/Kg		89	65 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-785733/2-A
Matrix: Solid
Analysis Batch: 785926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	3.33	2.94		mg/Kg		88	66 - 117
2-Chloronaphthalene	3.33	2.64		mg/Kg		79	60 - 107
2-Chlorophenol	3.33	2.65		mg/Kg		80	50 - 102
2-Methylnaphthalene	3.33	2.46		mg/Kg		74	58 - 103
2-Methylphenol	3.33	2.60		mg/Kg		78	50 - 104
2-Nitroaniline	3.33	2.70		mg/Kg		81	61 - 126
2-Nitrophenol	3.33	2.86		mg/Kg		86	41 - 114
3,3'-Dichlorobenzidine	3.33	2.50		mg/Kg		75	36 - 131
3 & 4 Methylphenol	3.33	2.56		mg/Kg		77	49 - 109
3-Nitroaniline	3.33	2.49		mg/Kg		75	44 - 124
4,6-Dinitro-2-methylphenol	6.67	5.01		mg/Kg		75	36 - 138
4-Bromophenyl phenyl ether	3.33	2.90		mg/Kg		87	57 - 124
4-Chloro-3-methylphenol	3.33	2.65		mg/Kg		80	57 - 113
4-Chloroaniline	3.33	2.43		mg/Kg		73	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.72		mg/Kg		82	60 - 112
4-Nitroaniline	3.33	2.71		mg/Kg		81	60 - 115
4-Nitrophenol	6.67	5.28		mg/Kg		79	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.59		mg/Kg		78	54 - 102
Bis(2-chloroethyl)ether	3.33	2.56		mg/Kg		77	49 - 99
bis(chloroisopropyl) ether	3.33	2.45		mg/Kg		73	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	2.95		mg/Kg		88	70 - 139
Butyl benzyl phthalate	3.33	2.95		mg/Kg		89	65 - 140
Carbazole	3.33	2.70		mg/Kg		81	68 - 120
Dibenzofuran	3.33	2.58		mg/Kg		77	64 - 112
Diethyl phthalate	3.33	2.67		mg/Kg		80	66 - 115
Dimethyl phthalate	3.33	2.68		mg/Kg		81	65 - 114
Di-n-butyl phthalate	3.33	2.83		mg/Kg		85	69 - 125
Di-n-octyl phthalate	3.33	2.78		mg/Kg		83	61 - 131
Hexachlorobenzene	3.33	2.89		mg/Kg		87	52 - 126
Hexachlorobutadiene	3.33	2.75		mg/Kg		83	42 - 103
Hexachlorocyclopentadiene	3.33	3.13		mg/Kg		94	10 - 100
Hexachloroethane	3.33	2.48		mg/Kg		74	45 - 95
Isophorone	3.33	2.58		mg/Kg		77	47 - 108
Nitrobenzene	3.33	2.71		mg/Kg		81	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.46		mg/Kg		74	48 - 110
N-Nitrosodiphenylamine	3.33	2.72		mg/Kg		82	67 - 112
Pentachlorophenol	6.67	5.74		mg/Kg		86	32 - 128
Phenol	3.33	2.60		mg/Kg		78	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*80*		*31 - 166*
Phenol-d5 (Surr)	*76*		*30 - 153*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*
2-Fluorobiphenyl (Surr)	*76*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*86*		*31 - 143*
Terphenyl-d14 (Surr)	*84*		*42 - 157*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-785749/1-A
Matrix: Solid
Analysis Batch: 785935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/12/24 11:30	09/13/24 10:34	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-785749/1-A
Matrix: Solid
Analysis Batch: 785935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	<0.013		0.17	0.013	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Diethyl phthalate	0.0186	J	0.17	0.015	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/12/24 11:30	09/13/24 10:34	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/12/24 11:30	09/13/24 10:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*81*		*31 - 166*	*09/12/24 11:30*	*09/13/24 10:34*	*1*
Phenol-d5 (Surr)	*82*		*30 - 153*	*09/12/24 11:30*	*09/13/24 10:34*	*1*
Nitrobenzene-d5 (Surr)	*87*		*37 - 147*	*09/12/24 11:30*	*09/13/24 10:34*	*1*
2-Fluorobiphenyl (Surr)	*79*		*43 - 145*	*09/12/24 11:30*	*09/13/24 10:34*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*31 - 143*	*09/12/24 11:30*	*09/13/24 10:34*	*1*
Terphenyl-d14 (Surr)	*80*		*42 - 157*	*09/12/24 11:30*	*09/13/24 10:34*	*1*

Lab Sample ID: LCS 500-785749/2-A
Matrix: Solid
Analysis Batch: 785935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.94		mg/Kg		88	63 - 109
Acenaphthylene	3.33	3.15		mg/Kg		94	61 - 115
Anthracene	3.33	3.08		mg/Kg		92	68 - 120
Benzo[a]anthracene	3.33	2.91		mg/Kg		87	70 - 121
Benzo[a]pyrene	3.33	3.18		mg/Kg		95	73 - 132
Benzo[b]fluoranthene	3.33	3.13		mg/Kg		94	68 - 123
Benzo[g,h,i]perylene	3.33	3.27		mg/Kg		98	65 - 126
Benzo[k]fluoranthene	3.33	3.18		mg/Kg		95	64 - 128
Chrysene	3.33	2.94		mg/Kg		88	70 - 123
Dibenz(a,h)anthracene	3.33	3.16		mg/Kg		95	66 - 125
Fluoranthene	3.33	2.93		mg/Kg		88	66 - 123
Fluorene	3.33	2.93		mg/Kg		88	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.22		mg/Kg		97	66 - 131
Naphthalene	3.33	2.85		mg/Kg		85	54 - 98
Phenanthrene	3.33	3.03		mg/Kg		91	65 - 115
Pyrene	3.33	3.14		mg/Kg		94	71 - 128
1,2,4-Trichlorobenzene	3.33	2.57		mg/Kg		77	49 - 100
1,2-Dichlorobenzene	3.33	2.67		mg/Kg		80	47 - 94

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-255917-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-785749/2-A
Matrix: Solid
Analysis Batch: 785935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	3.33	2.64		mg/Kg		79	47 - 92
1,4-Dichlorobenzene	3.33	2.61		mg/Kg		78	46 - 92
2,4,5-Trichlorophenol	3.33	2.76		mg/Kg		83	48 - 121
2,4,6-Trichlorophenol	3.33	2.61		mg/Kg		78	50 - 121
2,4-Dichlorophenol	3.33	2.70		mg/Kg		81	51 - 109
2,4-Dimethylphenol	3.33	3.07		mg/Kg		92	48 - 93
2,4-Dinitrophenol	6.67	3.92		mg/Kg		59	10 - 130
2,4-Dinitrotoluene	3.33	3.08		mg/Kg		93	65 - 120
2,6-Dinitrotoluene	3.33	3.05		mg/Kg		91	66 - 117
2-Chloronaphthalene	3.33	2.89		mg/Kg		87	60 - 107
2-Chlorophenol	3.33	2.87		mg/Kg		86	50 - 102
2-Methylnaphthalene	3.33	2.47		mg/Kg		74	58 - 103
2-Methylphenol	3.33	2.90		mg/Kg		87	50 - 104
2-Nitroaniline	3.33	3.57		mg/Kg		107	61 - 126
2-Nitrophenol	3.33	2.84		mg/Kg		85	41 - 114
3,3'-Dichlorobenzidine	3.33	2.63		mg/Kg		79	36 - 131
3 & 4 Methylphenol	3.33	2.96		mg/Kg		89	49 - 109
3-Nitroaniline	3.33	2.96		mg/Kg		89	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.72		mg/Kg		71	36 - 138
4-Bromophenyl phenyl ether	3.33	2.61		mg/Kg		78	57 - 124
4-Chloro-3-methylphenol	3.33	2.92		mg/Kg		87	57 - 113
4-Chloroaniline	3.33	2.58		mg/Kg		77	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.78		mg/Kg		83	60 - 112
4-Nitroaniline	3.33	2.90		mg/Kg		87	60 - 115
4-Nitrophenol	6.67	6.12		mg/Kg		92	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.98		mg/Kg		90	54 - 102
Bis(2-chloroethyl)ether	3.33	3.06		mg/Kg		92	49 - 99
bis(chloroisopropyl) ether	3.33	3.45		mg/Kg		104	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.58		mg/Kg		107	70 - 139
Butyl benzyl phthalate	3.33	3.40		mg/Kg		102	65 - 140
Carbazole	3.33	3.01		mg/Kg		90	68 - 120
Dibenzofuran	3.33	2.82		mg/Kg		84	64 - 112
Diethyl phthalate	3.33	3.10		mg/Kg		93	66 - 115
Dimethyl phthalate	3.33	2.98		mg/Kg		89	65 - 114
Di-n-butyl phthalate	3.33	3.21		mg/Kg		96	69 - 125
Di-n-octyl phthalate	3.33	3.32		mg/Kg		100	61 - 131
Hexachlorobenzene	3.33	2.84		mg/Kg		85	52 - 126
Hexachlorobutadiene	3.33	2.56		mg/Kg		77	42 - 103
Hexachlorocyclopentadiene	3.33	2.58		mg/Kg		77	10 - 100
Hexachloroethane	3.33	3.09		mg/Kg		93	45 - 95
Isophorone	3.33	3.00		mg/Kg		90	47 - 108
Nitrobenzene	3.33	3.32		mg/Kg		100	52 - 105
N-Nitrosodi-n-propylamine	3.33	3.15		mg/Kg		95	48 - 110
N-Nitrosodiphenylamine	3.33	2.73		mg/Kg		82	67 - 112
Pentachlorophenol	6.67	3.69		mg/Kg		55	32 - 128
Phenol	3.33	3.23		mg/Kg		97	52 - 110

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-785749/2-A
Matrix: Solid
Analysis Batch: 785935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785749

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*89*		*31 - 166*
Phenol-d5 (Surr)	*87*		*30 - 153*
Nitrobenzene-d5 (Surr)	*94*		*37 - 147*
2-Fluorobiphenyl (Surr)	*87*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*70*		*31 - 143*
Terphenyl-d14 (Surr)	*86*		*42 - 157*

Lab Sample ID: 500-255917-1 MS
Matrix: Solid
Analysis Batch: 785935

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 785749

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.041	J F1	3.50	2.02	F1	mg/Kg	☼	57	65 - 124
Acenaphthylene	0.016	J F1	3.50	2.14	F1	mg/Kg	☼	61	68 - 120
Anthracene	0.046	J F1	3.50	2.09	F1	mg/Kg	☼	58	70 - 114
Benzo[a]anthracene	0.34	F1	3.50	2.13	F1	mg/Kg	☼	51	67 - 122
Benzo[a]pyrene	0.64	F1	3.50	2.35	F1	mg/Kg	☼	49	65 - 133
Benzo[b]fluoranthene	0.88	F1	3.50	2.69	F1	mg/Kg	☼	52	69 - 129
Benzo[g,h,i]perylene	0.40	F1	3.50	1.62	F1	mg/Kg	☼	35	72 - 131
Benzo[k]fluoranthene	0.33	F1	3.50	2.45	F1	mg/Kg	☼	61	68 - 127
Chrysene	0.40	F1	3.50	2.14	F1	mg/Kg	☼	50	63 - 120
Dibenz(a,h)anthracene	0.095	F1	3.50	1.53	F1	mg/Kg	☼	41	64 - 131
Fluoranthene	0.47	F1	3.50	2.35	F1	mg/Kg	☼	54	62 - 120
Fluorene	<0.021	F1	3.50	2.04	F1	mg/Kg	☼	58	62 - 120
Indeno[1,2,3-cd]pyrene	0.44	F1	3.50	2.08	F1	mg/Kg	☼	47	68 - 130
Naphthalene	0.044	J F1	3.50	2.05	F1	mg/Kg	☼	57	63 - 110
Phenanthrene	0.25	F1	3.50	2.20	F1	mg/Kg	☼	56	62 - 120
Pyrene	0.42	F1	3.50	2.24	F1	mg/Kg	☼	52	61 - 128
1,2,4-Trichlorobenzene	<0.050	F1	3.50	1.75	F1	mg/Kg	☼	50	66 - 117
1,2-Dichlorobenzene	<0.029	F1	3.50	1.80	F1	mg/Kg	☼	51	62 - 110
1,3-Dichlorobenzene	<0.032	F1	3.50	1.72	F1	mg/Kg	☼	49	60 - 110
1,4-Dichlorobenzene	<0.033	F1	3.50	1.71	F1	mg/Kg	☼	49	61 - 110
2,4,5-Trichlorophenol	<0.026		3.50	1.83		mg/Kg	☼	52	50 - 120
2,4,6-Trichlorophenol	<0.024	F1	3.50	1.63	F1	mg/Kg	☼	47	57 - 120
2,4-Dichlorophenol	<0.025	F1	3.50	1.99	F1	mg/Kg	☼	57	58 - 120
2,4-Dimethylphenol	<0.16		3.50	2.28		mg/Kg	☼	65	60 - 110
2,4-Dinitrophenol	<0.41	F1	6.99	<0.40	F1	mg/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<0.040	F1	3.50	1.96	F1	mg/Kg	☼	56	69 - 124
2,6-Dinitrotoluene	<0.024	F1	3.50	2.08	F1	mg/Kg	☼	59	70 - 123
2-Chloronaphthalene	<0.026	F1	3.50	1.96	F1	mg/Kg	☼	56	69 - 114
2-Chlorophenol	<0.023	F1	3.50	2.08	F1	mg/Kg	☼	60	64 - 110
2-Methylnaphthalene	0.047	J F1	3.50	1.79	F1	mg/Kg	☼	50	69 - 112
2-Methylphenol	<0.037		3.50	2.12		mg/Kg	☼	61	60 - 120
2-Nitroaniline	<0.038		3.50	2.39		mg/Kg	☼	69	57 - 124
2-Nitrophenol	<0.048	F1	3.50	1.65	F1	mg/Kg	☼	47	60 - 120
3,3'-Dichlorobenzidine	<0.057		3.50	1.45		mg/Kg	☼	41	35 - 128
3 & 4 Methylphenol	<0.051		3.50	2.10		mg/Kg	☼	60	57 - 120
3-Nitroaniline	<0.032		3.50	2.08		mg/Kg	☼	60	40 - 122

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-255917-1 MS
Matrix: Solid
Analysis Batch: 785935

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 785749

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-2-methylphenol	<0.40	F1	6.99	<0.39	F1	mg/Kg	☼	0	10 - 110
4-Bromophenyl phenyl ether	<0.048	F1	3.50	1.87	F1	mg/Kg	☼	54	68 - 118
4-Chloro-3-methylphenol	<0.027	F1	3.50	2.21	F1	mg/Kg	☼	63	65 - 122
4-Chloroaniline	<0.74		3.50	1.78		mg/Kg	☼	51	30 - 150
4-Chlorophenyl phenyl ether	<0.092	F1	3.50	2.06	F1	mg/Kg	☼	59	62 - 119
4-Nitroaniline	<0.052	F1	3.50	1.79	F1	mg/Kg	☼	51	60 - 160
4-Nitrophenol	<0.26		6.99	3.09		mg/Kg	☼	44	30 - 122
Bis(2-chloroethoxy)methane	<0.026		3.50	2.10		mg/Kg	☼	60	60 - 112
Bis(2-chloroethyl)ether	<0.032		3.50	2.36		mg/Kg	☼	68	55 - 111
bis(chloroisopropyl) ether	<0.050		3.50	2.33		mg/Kg	☼	67	40 - 124
Bis(2-ethylhexyl) phthalate	<0.28		3.50	2.55		mg/Kg	☼	73	72 - 131
Butyl benzyl phthalate	<0.035	F1	3.50	2.44	F1	mg/Kg	☼	70	71 - 129
Carbazole	0.033	J F1	3.50	2.22	F1	mg/Kg	☼	63	65 - 142
Dibenzofuran	0.032	J F1	3.50	2.00	F1	mg/Kg	☼	56	66 - 115
Diethyl phthalate	<0.032		3.50	2.25		mg/Kg	☼	64	58 - 120
Dimethyl phthalate	<0.015	F1	3.50	2.13	F1	mg/Kg	☼	61	69 - 116
Di-n-butyl phthalate	<0.022		3.50	2.42		mg/Kg	☼	69	65 - 120
Di-n-octyl phthalate	<0.49		3.50	2.65		mg/Kg	☼	76	68 - 134
Hexachlorobenzene	<0.013	F1	3.50	1.39	F1	mg/Kg	☼	40	63 - 124
Hexachlorobutadiene	<0.040	F1	3.50	1.73	F1	mg/Kg	☼	50	56 - 120
Hexachlorocyclopentadiene	<0.75	F1	3.50	<0.74	F1	mg/Kg	☼	0	10 - 133
Hexachloroethane	<0.035	F1	3.50	1.62	F1	mg/Kg	☼	46	60 - 114
Isophorone	<0.036		3.50	2.11		mg/Kg	☼	60	55 - 110
Nitrobenzene	<0.022		3.50	2.30		mg/Kg	☼	66	60 - 116
N-Nitrosodi-n-propylamine	<0.014		3.50	2.18		mg/Kg	☼	62	56 - 118
N-Nitrosodiphenylamine	<0.042	F1	3.50	2.10	F1	mg/Kg	☼	60	65 - 112
Pentachlorophenol	<0.18	F1 F2	6.99	0.808	J F1	mg/Kg	☼	12	13 - 112
Phenol	<0.031		3.50	2.23		mg/Kg	☼	64	56 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*59*		*31 - 166*
Phenol-d5 (Surr)	*61*		*30 - 153*
Nitrobenzene-d5 (Surr)	*63*		*37 - 147*
2-Fluorobiphenyl (Surr)	*57*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*40*		*31 - 143*
Terphenyl-d14 (Surr)	*53*		*42 - 157*

Lab Sample ID: 500-255917-1 MSD
Matrix: Solid
Analysis Batch: 785935

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 785749

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.041	J F1	3.45	2.22	F1	mg/Kg	☼	63	65 - 124	10	30
Acenaphthylene	0.016	J F1	3.45	2.30	F1	mg/Kg	☼	66	68 - 120	7	30
Anthracene	0.046	J F1	3.45	2.36	F1	mg/Kg	☼	67	70 - 114	12	30
Benzo[a]anthracene	0.34	F1	3.45	2.48	F1	mg/Kg	☼	62	67 - 122	15	30
Benzo[a]pyrene	0.64	F1	3.45	2.91		mg/Kg	☼	66	65 - 133	21	30
Benzo[b]fluoranthene	0.88	F1	3.45	3.38		mg/Kg	☼	73	69 - 129	23	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-255917-1 MSD
Client Sample ID: SB6 (0-3)
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 785935
Prep Batch: 785749

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	0.40	F1	3.45	2.12	F1	mg/Kg	☼	50	72 - 131	27	30
Benzo[k]fluoranthene	0.33	F1	3.45	2.81		mg/Kg	☼	72	68 - 127	14	30
Chrysene	0.40	F1	3.45	2.45	F1	mg/Kg	☼	60	63 - 120	13	30
Dibenz(a,h)anthracene	0.095	F1	3.45	1.95	F1	mg/Kg	☼	54	64 - 131	24	30
Fluoranthene	0.47	F1	3.45	2.76		mg/Kg	☼	66	62 - 120	16	30
Fluorene	<0.021	F1	3.45	2.23		mg/Kg	☼	65	62 - 120	9	30
Indeno[1,2,3-cd]pyrene	0.44	F1	3.45	2.63	F1	mg/Kg	☼	64	68 - 130	24	30
Naphthalene	0.044	J F1	3.45	2.02	F1	mg/Kg	☼	57	63 - 110	1	30
Phenanthrene	0.25	F1	3.45	2.53		mg/Kg	☼	66	62 - 120	14	30
Pyrene	0.42	F1	3.45	2.57		mg/Kg	☼	62	61 - 128	13	30
1,2,4-Trichlorobenzene	<0.050	F1	3.45	1.83	F1	mg/Kg	☼	53	66 - 117	5	30
1,2-Dichlorobenzene	<0.029	F1	3.45	1.86	F1	mg/Kg	☼	54	62 - 110	4	30
1,3-Dichlorobenzene	<0.032	F1	3.45	1.75	F1	mg/Kg	☼	51	60 - 110	2	30
1,4-Dichlorobenzene	<0.033	F1	3.45	1.76	F1	mg/Kg	☼	51	61 - 110	3	30
2,4,5-Trichlorophenol	<0.026		3.45	1.99		mg/Kg	☼	58	50 - 120	8	30
2,4,6-Trichlorophenol	<0.024	F1	3.45	1.57	F1	mg/Kg	☼	46	57 - 120	3	30
2,4-Dichlorophenol	<0.025	F1	3.45	2.05		mg/Kg	☼	60	58 - 120	3	30
2,4-Dimethylphenol	<0.16		3.45	2.16		mg/Kg	☼	63	60 - 110	6	30
2,4-Dinitrophenol	<0.41	F1	6.89	<0.40	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.040	F1	3.45	2.13	F1	mg/Kg	☼	62	69 - 124	8	30
2,6-Dinitrotoluene	<0.024	F1	3.45	2.21	F1	mg/Kg	☼	64	70 - 123	6	30
2-Chloronaphthalene	<0.026	F1	3.45	2.15	F1	mg/Kg	☼	62	69 - 114	9	30
2-Chlorophenol	<0.023	F1	3.45	2.09	F1	mg/Kg	☼	61	64 - 110	0	30
2-Methylnaphthalene	0.047	J F1	3.45	1.85	F1	mg/Kg	☼	52	69 - 112	3	30
2-Methylphenol	<0.037		3.45	2.20		mg/Kg	☼	64	60 - 120	4	30
2-Nitroaniline	<0.038		3.45	2.63		mg/Kg	☼	76	57 - 124	9	30
2-Nitrophenol	<0.048	F1	3.45	1.71	F1	mg/Kg	☼	49	60 - 120	3	30
3,3'-Dichlorobenzidine	<0.057		3.45	1.87		mg/Kg	☼	54	35 - 128	25	30
3 & 4 Methylphenol	<0.051		3.45	2.20		mg/Kg	☼	64	57 - 120	5	30
3-Nitroaniline	<0.032		3.45	2.38		mg/Kg	☼	69	40 - 122	13	30
4,6-Dinitro-2-methylphenol	<0.40	F1	6.89	<0.39	F1	mg/Kg	☼	0	10 - 110	NC	30
4-Bromophenyl phenyl ether	<0.048	F1	3.45	2.14	F1	mg/Kg	☼	62	68 - 118	14	30
4-Chloro-3-methylphenol	<0.027	F1	3.45	2.24		mg/Kg	☼	65	65 - 122	1	30
4-Chloroaniline	<0.74		3.45	1.74		mg/Kg	☼	51	30 - 150	2	30
4-Chlorophenyl phenyl ether	<0.092	F1	3.45	2.16		mg/Kg	☼	63	62 - 119	5	30
4-Nitroaniline	<0.052	F1	3.45	2.24		mg/Kg	☼	65	60 - 160	22	30
4-Nitrophenol	<0.26		6.89	3.91		mg/Kg	☼	57	30 - 122	23	30
Bis(2-chloroethoxy)methane	<0.026		3.45	2.13		mg/Kg	☼	62	60 - 112	1	30
Bis(2-chloroethyl)ether	<0.032		3.45	2.30		mg/Kg	☼	67	55 - 111	3	30
bis(chloroisopropyl) ether	<0.050		3.45	2.38		mg/Kg	☼	69	40 - 124	2	30
Bis(2-ethylhexyl) phthalate	<0.28		3.45	2.68		mg/Kg	☼	78	72 - 131	5	30
Butyl benzyl phthalate	<0.035	F1	3.45	2.57		mg/Kg	☼	75	71 - 129	5	30
Carbazole	0.033	J F1	3.45	2.37		mg/Kg	☼	68	65 - 142	6	30
Dibenzofuran	0.032	J F1	3.45	2.16	F1	mg/Kg	☼	62	66 - 115	8	30
Diethyl phthalate	<0.032		3.45	2.33		mg/Kg	☼	68	58 - 120	3	30
Dimethyl phthalate	<0.015	F1	3.45	2.27	F1	mg/Kg	☼	66	69 - 116	7	30
Di-n-butyl phthalate	<0.022		3.45	2.54		mg/Kg	☼	74	65 - 120	5	30
Di-n-octyl phthalate	<0.49		3.45	3.03		mg/Kg	☼	88	68 - 134	13	30
Hexachlorobenzene	<0.013	F1	3.45	1.88	F1	mg/Kg	☼	55	63 - 124	30	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-255917-1 MSD
Matrix: Solid
Analysis Batch: 785935

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 785749

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobutadiene	<0.040	F1	3.45	1.84	F1	mg/Kg	☼	53	56 - 120	6	30
Hexachlorocyclopentadiene	<0.75	F1	3.45	<0.73	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.035	F1	3.45	1.88	F1	mg/Kg	☼	55	60 - 114	15	30
Isophorone	<0.036		3.45	2.19		mg/Kg	☼	63	55 - 110	4	30
Nitrobenzene	<0.022		3.45	2.20		mg/Kg	☼	64	60 - 116	5	30
N-Nitrosodi-n-propylamine	<0.014		3.45	2.20		mg/Kg	☼	64	56 - 118	1	30
N-Nitrosodiphenylamine	<0.042	F1	3.45	2.27		mg/Kg	☼	66	65 - 112	8	30
Pentachlorophenol	<0.18	F1 F2	6.89	0.302	J F1 F2	mg/Kg	☼	4	13 - 112	91	30
Phenol	<0.031		3.45	2.32		mg/Kg	☼	67	56 - 122	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*60*		*31 - 166*
Phenol-d5 (Surr)	*63*		*30 - 153*
Nitrobenzene-d5 (Surr)	*62*		*37 - 147*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*38*		*31 - 143*
Terphenyl-d14 (Surr)	*58*		*42 - 157*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-784522/1-A
Matrix: Solid
Analysis Batch: 784635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/04/24 15:38	09/05/24 11:03	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/04/24 15:38	09/05/24 11:03	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-784522/1-A
Matrix: Solid
Analysis Batch: 784635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784522

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		33 - 148	09/04/24 15:38	09/05/24 11:03	1
Tetrachloro-m-xylene	68		30 - 121	09/04/24 15:38	09/05/24 11:03	1

Lab Sample ID: LCS 500-784522/2-A
Matrix: Solid
Analysis Batch: 784635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0106		mg/Kg		79	47 - 137
4,4'-DDE	0.0133	0.0115		mg/Kg		86	50 - 130
4,4'-DDT	0.0133	0.0105		mg/Kg		79	46 - 143
Aldrin	0.0133	0.0105		mg/Kg		78	52 - 122
alpha-BHC	0.0133	0.0109		mg/Kg		82	50 - 123
beta-BHC	0.0133	0.0105		mg/Kg		79	44 - 140
delta-BHC	0.0133	0.0110		mg/Kg		82	57 - 125
Dieldrin	0.0133	0.0110		mg/Kg		82	51 - 133
Endosulfan I	0.0133	0.00905		mg/Kg		68	30 - 120
Endosulfan II	0.0133	0.00910		mg/Kg		68	30 - 120
Endosulfan sulfate	0.0133	0.0112		mg/Kg		84	42 - 150
Endrin	0.0133	0.0106		mg/Kg		79	43 - 144
Endrin aldehyde	0.0133	0.00967		mg/Kg		73	39 - 131
Endrin ketone	0.0133	0.0105		mg/Kg		79	51 - 135
gamma-BHC (Lindane)	0.0133	0.0112		mg/Kg		84	50 - 122
Heptachlor	0.0133	0.0106		mg/Kg		80	53 - 129
Heptachlor epoxide	0.0133	0.0108		mg/Kg		81	50 - 139
Methoxychlor	0.0133	0.00996		mg/Kg		75	45 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	84		33 - 148
Tetrachloro-m-xylene	73		30 - 121

Lab Sample ID: MB 500-785442/1-A
Matrix: Solid
Analysis Batch: 785965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785442

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/11/24 07:33	09/13/24 13:11	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-255917-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-785442/1-A
Matrix: Solid
Analysis Batch: 785965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785442

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/11/24 07:33	09/13/24 13:11	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/11/24 07:33	09/13/24 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*33 - 148*	*09/11/24 07:33*	*09/13/24 13:11*	*1*
Tetrachloro-m-xylene	*68*		*30 - 121*	*09/11/24 07:33*	*09/13/24 13:11*	*1*

Lab Sample ID: MB 500-785442/1-A
Matrix: Solid
Analysis Batch: 786207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785442

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/11/24 07:33	09/16/24 12:08	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/11/24 07:33	09/16/24 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*33 - 148*	*09/11/24 07:33*	*09/16/24 12:08*	*1*
Tetrachloro-m-xylene	*73*		*30 - 121*	*09/11/24 07:33*	*09/16/24 12:08*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-785442/2-A
Matrix: Solid
Analysis Batch: 785965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0101		mg/Kg		76	47 - 137
4,4'-DDE	0.0133	0.0112		mg/Kg		84	50 - 130
4,4'-DDT	0.0133	0.00974		mg/Kg		73	46 - 143
Aldrin	0.0133	0.0120		mg/Kg		90	52 - 122
alpha-BHC	0.0133	0.0107		mg/Kg		80	50 - 123
beta-BHC	0.0133	0.00986		mg/Kg		74	44 - 140
delta-BHC	0.0133	0.0107		mg/Kg		80	57 - 125
Dieldrin	0.0133	0.0118		mg/Kg		88	51 - 133
Endosulfan I	0.0133	0.00908		mg/Kg		68	30 - 120
Endosulfan II	0.0133	0.00924		mg/Kg		69	30 - 120
Endosulfan sulfate	0.0133	0.0101		mg/Kg		76	42 - 150
Endrin	0.0133	0.0102		mg/Kg		77	43 - 144
Endrin aldehyde	0.0133	0.00943		mg/Kg		71	39 - 131
Endrin ketone	0.0133	0.0101		mg/Kg		76	51 - 135
gamma-BHC (Lindane)	0.0133	0.0104		mg/Kg		78	50 - 122
Heptachlor	0.0133	0.0100		mg/Kg		75	53 - 129
Heptachlor epoxide	0.0133	0.0114		mg/Kg		86	50 - 139
Methoxychlor	0.0133	0.0130		mg/Kg		97	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*87*		*33 - 148*
Tetrachloro-m-xylene	*72*		*30 - 121*

Lab Sample ID: LCS 500-785442/2-A
Matrix: Solid
Analysis Batch: 786207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.00861		mg/Kg		65	47 - 137
4,4'-DDE	0.0133	0.0128		mg/Kg		96	50 - 130
4,4'-DDT	0.0133	0.00783		mg/Kg		59	46 - 143
Aldrin	0.0133	0.00979		mg/Kg		73	52 - 122
alpha-BHC	0.0133	0.00994		mg/Kg		75	50 - 123
beta-BHC	0.0133	0.0101		mg/Kg		76	44 - 140
Dieldrin	0.0133	0.0116		mg/Kg		87	51 - 133
Endosulfan I	0.0133	0.0101		mg/Kg		76	30 - 120
Endosulfan II	0.0133	0.00904		mg/Kg		68	30 - 120
Endrin	0.0133	0.0104		mg/Kg		78	43 - 144
Endrin ketone	0.0133	0.00937		mg/Kg		70	51 - 135
gamma-BHC (Lindane)	0.0133	0.00940		mg/Kg		70	50 - 122
Heptachlor	0.0133	0.0102		mg/Kg		76	53 - 129
Heptachlor epoxide	0.0133	0.0118		mg/Kg		88	50 - 139
Methoxychlor	0.0133	0.00850		mg/Kg		64	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*79*		*33 - 148*
Tetrachloro-m-xylene	*66*		*30 - 121*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-255917-1 MS
Matrix: Solid
Analysis Batch: 785965

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 785442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.0095	F2	0.0143	0.0157	J	mg/Kg	☼	110	47 - 137
4,4'-DDE	<0.0091	F1	0.0143	0.0354	F1	mg/Kg	☼	247	50 - 130
4,4'-DDT	<0.0084	F2	0.0143	0.0139	J	mg/Kg	☼	97	46 - 143
Aldrin	<0.012	F1	0.0143	0.0686	F1	mg/Kg	☼	479	52 - 122
alpha-BHC	<0.0099	F1	0.0143	<0.010	F1	mg/Kg	☼	0	50 - 123
beta-BHC	<0.014	F2	0.0143	<0.015		mg/Kg	☼	NC	44 - 140
delta-BHC	<0.0084	F1	0.0143	0.0257	F1	mg/Kg	☼	179	57 - 125
Dieldrin	<0.0092	F1	0.0143	0.0244	F1	mg/Kg	☼	170	51 - 133
Endosulfan I	<0.0095	F1	0.0143	0.0433	F1	mg/Kg	☼	302	30 - 120
Endosulfan II	<0.0096		0.0143	0.0115	J	mg/Kg	☼	80	30 - 120
Endosulfan sulfate	<0.0097	F2	0.0143	0.0108	J	mg/Kg	☼	76	42 - 150
Endrin	<0.0090	F2	0.0143	0.0148	J	mg/Kg	☼	103	43 - 144
Endrin aldehyde	<0.010	F1 F2	0.0143	<0.010	F1	mg/Kg	☼	0	39 - 131
Endrin ketone	<0.0086		0.0143	0.00963	J	mg/Kg	☼	67	51 - 135
gamma-BHC (Lindane)	<0.0088	F1	0.0143	0.00900	J F1	mg/Kg	☼	0	50 - 122
Heptachlor	<0.0095	F1	0.0143	0.0282	F1	mg/Kg	☼	197	53 - 129
Heptachlor epoxide	<0.0095	F1	0.0143	<0.0098	F1	mg/Kg	☼	0	50 - 139
Methoxychlor	<0.012	F1	0.0143	0.0211	J F1	mg/Kg	☼	147	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*226*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*67*		*30 - 121*

Lab Sample ID: 500-255917-1 MSD
Matrix: Solid
Analysis Batch: 785965

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 785442

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.0095	F2	0.0143	0.0110	J F2	mg/Kg	☼	77	47 - 137	35	30
4,4'-DDE	<0.0091	F1	0.0143	0.0277	F1	mg/Kg	☼	193	50 - 130	24	30
4,4'-DDT	<0.0084	F2	0.0143	0.0130	J	mg/Kg	☼	91	46 - 143	7	30
Aldrin	<0.012	F1	0.0143	0.0595	F1	mg/Kg	☼	415	52 - 122	14	30
alpha-BHC	<0.0099	F1	0.0143	<0.010	F1	mg/Kg	☼	0	50 - 123	NC	30
beta-BHC	<0.014	F2	0.0143	0.0274		mg/Kg	☼	NC	44 - 140	NC	30
delta-BHC	<0.0084	F1	0.0143	0.0238	F1	mg/Kg	☼	166	57 - 125	7	30
Dieldrin	<0.0092	F1	0.0143	0.0198	F1	mg/Kg	☼	138	51 - 133	21	30
Endosulfan I	<0.0095	F1	0.0143	0.0333	F1	mg/Kg	☼	232	30 - 120	26	30
Endosulfan II	<0.0096		0.0143	0.0130	J	mg/Kg	☼	91	30 - 120	12	30
Endosulfan sulfate	<0.0097	F2	0.0143	0.0111	J	mg/Kg	☼	77	42 - 150	2	30
Endrin	<0.0090	F2	0.0143	0.0108	J F2	mg/Kg	☼	75	43 - 144	31	30
Endrin aldehyde	<0.010	F1 F2	0.0143	0.0108	J	mg/Kg	☼	75	39 - 131	NC	30
Endrin ketone	<0.0086		0.0143	0.0107	J	mg/Kg	☼	75	51 - 135	11	30
gamma-BHC (Lindane)	<0.0088	F1	0.0143	0.0116	J	mg/Kg	☼	81	50 - 122	NC	30
Heptachlor	<0.0095	F1	0.0143	0.0291	F1	mg/Kg	☼	203	53 - 129	3	30
Heptachlor epoxide	<0.0095	F1	0.0143	1.45	E F1	mg/Kg	☼	10118	50 - 139	NC	30
Methoxychlor	<0.012	F1	0.0143	0.0204	J	mg/Kg	☼	142	45 - 144	3	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-255917-1 MSD
Matrix: Solid
Analysis Batch: 785965

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 785442

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*217*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*146*	*S1+*	*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-784522/1-A
Matrix: Solid
Analysis Batch: 785109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
PCB-1221	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
PCB-1232	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
PCB-1242	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
PCB-1248	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
PCB-1254	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
PCB-1260	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/04/24 15:38	09/09/24 13:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*49 - 129*	*09/04/24 15:38*	*09/09/24 13:59*	*1*
DCB Decachlorobiphenyl	*69*		*37 - 121*	*09/04/24 15:38*	*09/09/24 13:59*	*1*

Lab Sample ID: LCS 500-784522/3-A
Matrix: Solid
Analysis Batch: 785109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.115		mg/Kg		69	57 - 120
PCB-1260	0.167	0.122		mg/Kg		73	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*59*		*49 - 129*
DCB Decachlorobiphenyl	*67*		*37 - 121*

Lab Sample ID: MB 500-785442/1-A
Matrix: Solid
Analysis Batch: 785901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785442

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/11/24 07:33	09/13/24 11:31	1
PCB-1221	<0.017		0.017		mg/Kg		09/11/24 07:33	09/13/24 11:31	1
PCB-1232	<0.017		0.017		mg/Kg		09/11/24 07:33	09/13/24 11:31	1
PCB-1242	<0.017		0.017		mg/Kg		09/11/24 07:33	09/13/24 11:31	1
PCB-1248	<0.017		0.017		mg/Kg		09/11/24 07:33	09/13/24 11:31	1
PCB-1254	<0.017		0.017		mg/Kg		09/11/24 07:33	09/13/24 11:31	1
PCB-1260	<0.017		0.017		mg/Kg		09/11/24 07:33	09/13/24 11:31	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/11/24 07:33	09/13/24 11:31	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-785442/1-A
Matrix: Solid
Analysis Batch: 785901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785442

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		49 - 129	09/11/24 07:33	09/13/24 11:31	1
DCB Decachlorobiphenyl	67		37 - 121	09/11/24 07:33	09/13/24 11:31	1

Lab Sample ID: LCS 500-785442/3-A
Matrix: Solid
Analysis Batch: 785901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.131		mg/Kg		79	57 - 120
PCB-1260	0.167	0.132		mg/Kg		79	61 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	66		49 - 129
DCB Decachlorobiphenyl	74		37 - 121

Lab Sample ID: 500-255917-1 MS
Matrix: Solid
Analysis Batch: 785901

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 785442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.017		0.173	0.120		mg/Kg	☼	69	57 - 120
PCB-1260	<0.017		0.173	0.110		mg/Kg	☼	64	61 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	73		49 - 129
DCB Decachlorobiphenyl	48		37 - 121

Lab Sample ID: 500-255917-1 MSD
Matrix: Solid
Analysis Batch: 785901

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 785442

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.017		0.174	0.120		mg/Kg	☼	69	57 - 120	0	30
PCB-1260	<0.017		0.174	0.113		mg/Kg	☼	65	61 - 125	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	72		49 - 129
DCB Decachlorobiphenyl	51		37 - 121

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-786196/1-A
Matrix: Solid
Analysis Batch: 786388

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Antimony	<2.0		2.0		mg/Kg		09/16/24 09:05	09/17/24 00:34	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-786196/1-A
Matrix: Solid
Analysis Batch: 786388

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.0		1.0		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Barium	<1.0		1.0		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Beryllium	<0.40		0.40		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Cadmium	<0.20		0.20		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Calcium	<20		20		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Chromium	<1.0		1.0		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Cobalt	<0.50		0.50		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Copper	<1.0		1.0		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Lead	<0.50		0.50		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Nickel	<1.0		1.0		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Potassium	<50		50		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Selenium	<1.0		1.0		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Silver	<0.50		0.50		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Vanadium	<0.50		0.50		mg/Kg		09/16/24 09:05	09/17/24 00:34	1
Zinc	<2.0		2.0		mg/Kg		09/16/24 09:05	09/17/24 00:34	1

Lab Sample ID: MB 500-786196/1-A
Matrix: Solid
Analysis Batch: 786591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<20		20		mg/Kg		09/16/24 09:05	09/17/24 14:42	1
Magnesium	<10		10		mg/Kg		09/16/24 09:05	09/17/24 14:42	1
Manganese	<1.0		1.0		mg/Kg		09/16/24 09:05	09/17/24 14:42	1
Sodium	<100		100		mg/Kg		09/16/24 09:05	09/17/24 14:42	1
Thallium	<1.0		1.0		mg/Kg		09/16/24 09:05	09/17/24 14:42	1

Lab Sample ID: LCS 500-786196/2-A
Matrix: Solid
Analysis Batch: 786388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	196		mg/Kg		98	80 - 120
Antimony	50.0	46.6		mg/Kg		93	80 - 120
Arsenic	10.0	9.53		mg/Kg		95	80 - 120
Barium	200	201		mg/Kg		101	80 - 120
Beryllium	5.00	4.70		mg/Kg		94	80 - 120
Cadmium	5.00	4.65		mg/Kg		93	80 - 120
Calcium	1000	992		mg/Kg		99	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Cobalt	50.0	48.6		mg/Kg		97	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Lead	10.0	10.1		mg/Kg		101	80 - 120
Nickel	50.0	50.0		mg/Kg		100	80 - 120
Potassium	1000	1040		mg/Kg		104	80 - 120
Selenium	10.0	8.94		mg/Kg		89	80 - 120
Silver	5.00	4.27		mg/Kg		85	80 - 120
Vanadium	50.0	47.2		mg/Kg		94	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-786196/2-A
Matrix: Solid
Analysis Batch: 786591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	100	103		mg/Kg		103	80 - 120
Magnesium	1000	1010		mg/Kg		101	80 - 120
Manganese	50.0	50.0		mg/Kg		100	80 - 120
Sodium	1000	1100		mg/Kg		110	80 - 120
Thallium	10.0	9.48		mg/Kg		95	80 - 120

Lab Sample ID: MB 500-786197/1-A
Matrix: Solid
Analysis Batch: 786380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Antimony	<2.0		2.0		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Arsenic	<1.0		1.0		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Barium	<1.0		1.0		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Beryllium	<0.40		0.40		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Cadmium	<0.20		0.20		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Chromium	<1.0		1.0		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Cobalt	<0.50		0.50		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Copper	<1.0		1.0		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Iron	<20		20		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Lead	<0.50		0.50		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Magnesium	<10		10		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Manganese	1.99		1.0		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Nickel	<1.0		1.0		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Potassium	<50		50		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Selenium	<1.0		1.0		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Silver	<0.50		0.50		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Thallium	<1.0		1.0		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Vanadium	<0.50		0.50		mg/Kg		09/16/24 09:08	09/17/24 01:57	1
Zinc	<2.0		2.0		mg/Kg		09/16/24 09:08	09/17/24 01:57	1

Lab Sample ID: MB 500-786197/1-A
Matrix: Solid
Analysis Batch: 786584

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	26.8		20		mg/Kg		09/16/24 09:08	09/17/24 12:47	1
Sodium	<100		100		mg/Kg		09/16/24 09:08	09/17/24 12:47	1

Lab Sample ID: LCS 500-786197/2-A
Matrix: Solid
Analysis Batch: 786380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	203		mg/Kg		101	80 - 120
Antimony	50.0	49.7		mg/Kg		99	80 - 120
Arsenic	10.0	10.2		mg/Kg		102	80 - 120
Barium	200	200		mg/Kg		100	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-786197/2-A
Matrix: Solid
Analysis Batch: 786380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	5.00	4.50		mg/Kg		90	80 - 120
Cadmium	5.00	4.89		mg/Kg		98	80 - 120
Chromium	20.0	20.4		mg/Kg		102	80 - 120
Cobalt	50.0	50.0		mg/Kg		100	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Iron	100	113		mg/Kg		113	80 - 120
Lead	10.0	10.3		mg/Kg		103	80 - 120
Magnesium	1000	964		mg/Kg		96	80 - 120
Manganese	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	50.4		mg/Kg		101	80 - 120
Potassium	1000	1010		mg/Kg		101	80 - 120
Selenium	10.0	9.54		mg/Kg		95	80 - 120
Silver	5.00	4.16		mg/Kg		83	80 - 120
Thallium	10.0	10.0		mg/Kg		100	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	48.9		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-786197/2-A
Matrix: Solid
Analysis Batch: 786584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	1000	1050		mg/Kg		105	80 - 120
Sodium	1000	1020		mg/Kg		102	80 - 120

Lab Sample ID: 500-255917-1 MS
Matrix: Solid
Analysis Batch: 786380

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	14000		215	13900	4	mg/Kg	☼	176	75 - 125
Barium	170		215	338		mg/Kg	☼	77	75 - 125
Magnesium	33000		1080	31200	4	mg/Kg	☼	-199	75 - 125
Potassium	750	F1	1080	1520	F1	mg/Kg	☼	71	75 - 125
Zinc	140	F1	53.9	136	F1	mg/Kg	☼	2	75 - 125

Lab Sample ID: 500-255917-1 MS
Matrix: Solid
Analysis Batch: 786584

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	22	F1	53.9	30.4	F1	mg/Kg	☼	15	75 - 125
Arsenic	14		10.8	26.9		mg/Kg	☼	125	75 - 125
Beryllium	4.1	F2	5.39	10.3		mg/Kg	☼	115	75 - 125
Cadmium	1.1	F2	5.39	7.02		mg/Kg	☼	110	75 - 125
Calcium	160000	B	1080	162000	4	mg/Kg	☼	254	75 - 125
Cobalt	12	F2	53.9	74.0		mg/Kg	☼	115	75 - 125
Copper	66	F1 F2	26.9	118	F1	mg/Kg	☼	196	75 - 125
Iron	140000	F2	108	179000	4	mg/Kg	☼	34819	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-255917-1 MS
Matrix: Solid
Analysis Batch: 786584

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	70		10.8	81.5	4	mg/Kg	☼	110	75 - 125
Nickel	610		53.9	659	4	mg/Kg	☼	88	75 - 125
Selenium	11		10.8	22.3		mg/Kg	☼	103	75 - 125
Silver	<2.6	F1 F2	5.39	4.53		mg/Kg	☼	84	75 - 125
Sodium	640		1080	1920		mg/Kg	☼	120	75 - 125
Vanadium	240	F2	53.9	284	4	mg/Kg	☼	76	75 - 125
Zinc	160	F1	53.9	171	F1	mg/Kg	☼	28	75 - 125

Lab Sample ID: 500-255917-1 MS
Matrix: Solid
Analysis Batch: 786584

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	3900	F2	21.5	2640	4	mg/Kg	☼	-5837	75 - 125
Manganese	24000	B	53.9	18200	4	mg/Kg	☼	-11134	75 - 125
Thallium	110		10.8	94.0	4	mg/Kg	☼	-156	75 - 125

Lab Sample ID: 500-255917-1 MSD
Matrix: Solid
Analysis Batch: 786380

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	14000		183	14000	4	mg/Kg	☼	267	75 - 125	1	20
Barium	170		183	321		mg/Kg	☼	82	75 - 125	5	20
Magnesium	33000		916	28900	4	mg/Kg	☼	-489	75 - 125	8	20
Potassium	750	F1	916	1560		mg/Kg	☼	88	75 - 125	3	20
Zinc	140	F1	45.8	148	F1	mg/Kg	☼	28	75 - 125	8	20

Lab Sample ID: 500-255917-1 MSD
Matrix: Solid
Analysis Batch: 786584

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	22	F1	45.8	35.9	F1	mg/Kg	☼	30	75 - 125	17	20
Arsenic	14		9.16	24.6		mg/Kg	☼	121	75 - 125	9	20
Beryllium	4.1	F2	4.58	8.18	F2	mg/Kg	☼	89	75 - 125	23	20
Cadmium	1.1	F2	4.58	5.65	F2	mg/Kg	☼	100	75 - 125	22	20
Calcium	160000	B	916	143000	4	mg/Kg	☼	-1787	75 - 125	12	20
Cobalt	12	F2	45.8	58.1	F2	mg/Kg	☼	100	75 - 125	24	20
Copper	66	F1 F2	22.9	92.4	F2	mg/Kg	☼	117	75 - 125	25	20
Iron	140000	F2	91.6	130000	4 F2	mg/Kg	☼	-13266	75 - 125	32	20
Lead	70		9.16	86.0	4	mg/Kg	☼	179	75 - 125	5	20
Nickel	610		45.8	712	4	mg/Kg	☼	218	75 - 125	8	20
Selenium	11		9.16	18.3		mg/Kg	☼	77	75 - 125	20	20
Silver	<2.6	F1 F2	4.58	3.38	F1 F2	mg/Kg	☼	74	75 - 125	29	20
Sodium	640		916	1660		mg/Kg	☼	112	75 - 125	15	20
Vanadium	240	F2	45.8	214	4 F2	mg/Kg	☼	-65	75 - 125	28	20
Zinc	160	F1	45.8	167	F1	mg/Kg	☼	25	75 - 125	2	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-255917-1 MSD
Matrix: Solid
Analysis Batch: 786584

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	24000	B	45.8	17500	4	mg/Kg	☼	-1465 4	75 - 125	4	20
Thallium	110		9.16	89.0	4	mg/Kg	☼	-237	75 - 125	5	20

Lab Sample ID: 500-255917-1 DU
Matrix: Solid
Analysis Batch: 786380

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	14000		13300		mg/Kg	☼	2	20
Barium	170		153		mg/Kg	☼	12	20
Magnesium	33000		30200		mg/Kg	☼	10	20
Potassium	750	F1	435	F3	mg/Kg	☼	54	20
Zinc	140	F1	77.3	F3	mg/Kg	☼	54	20

Lab Sample ID: 500-255917-1 DU
Matrix: Solid
Analysis Batch: 786584

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	22	F1	16.6	F5	mg/Kg	☼	29	20
Arsenic	14		10.2	F5	mg/Kg	☼	28	20
Beryllium	4.1	F2	3.63		mg/Kg	☼	12	20
Cadmium	1.1	F2	<1.0		mg/Kg	☼	NC	20
Calcium	160000	B	160000		mg/Kg	☼	0	20
Cobalt	12	F2	11.1		mg/Kg	☼	10	20
Copper	66	F1 F2	57.0		mg/Kg	☼	14	20
Iron	140000	F2	148000		mg/Kg	☼	4	20
Lead	70		80.3		mg/Kg	☼	14	20
Nickel	610		476	F3	mg/Kg	☼	25	20
Selenium	11		12.5		mg/Kg	☼	10	20
Silver	<2.6	F1 F2	<2.5		mg/Kg	☼	NC	20
Sodium	640		<510		mg/Kg	☼	NC	20
Vanadium	240	F2	248		mg/Kg	☼	2	20
Zinc	160	F1	89.7	F3	mg/Kg	☼	54	20

Lab Sample ID: 500-255917-1 DU
Matrix: Solid
Analysis Batch: 786584

Client Sample ID: SB6 (0-3)
Prep Type: Total/NA
Prep Batch: 786197

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium	3900	F2	2830	F3	mg/Kg	☼	32	20
Manganese	24000	B	22200		mg/Kg	☼	9	20
Thallium	110		99.4		mg/Kg	☼	11	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-786466/12-A
Matrix: Solid
Analysis Batch: 786635
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/17/24 17:05	09/18/24 08:48	1

Lab Sample ID: MB 500-786466/12-A
Matrix: Solid
Analysis Batch: 786700
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/17/24 17:05	09/18/24 11:49	1

Lab Sample ID: LCS 500-786466/13-A
Matrix: Solid
Analysis Batch: 786635
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.168		mg/Kg		101	80 - 120

Lab Sample ID: LCS 500-786466/13-A
Matrix: Solid
Analysis Batch: 786700
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.172		mg/Kg		103	80 - 120

Lab Sample ID: 500-255917-8 MS
Matrix: Solid
Analysis Batch: 786635
Client Sample ID: SB9 (7.5-10)
Prep Type: Total/NA
Prep Batch: 786466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.016		0.0808	0.0924		mg/Kg	☼	114	75 - 125

Lab Sample ID: 500-255917-8 MSD
Matrix: Solid
Analysis Batch: 786635
Client Sample ID: SB9 (7.5-10)
Prep Type: Total/NA
Prep Batch: 786466

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.016		0.0800	0.0908		mg/Kg	☼	113	75 - 125	2	20

Lab Sample ID: 500-255917-8 DU
Matrix: Solid
Analysis Batch: 786635
Client Sample ID: SB9 (7.5-10)
Prep Type: Total/NA
Prep Batch: 786466

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.016		<0.016		mg/Kg	☼	NC	20

Lab Sample ID: MB 500-786494/11-A
Matrix: Solid
Analysis Batch: 786700
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/17/24 17:05	09/18/24 13:01	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: LCS 500-786494/12-A
Matrix: Solid
Analysis Batch: 786700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786494

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.167	0.169		mg/Kg		102	80 - 120		

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-784233/1-A
Matrix: Solid
Analysis Batch: 784377

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/03/24 01:11	09/03/24 14:59	1

Lab Sample ID: LCS 500-784233/2-A
Matrix: Solid
Analysis Batch: 784377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784233

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			2.40	2.43		mg/Kg		101	85 - 115		

Lab Sample ID: 500-255917-3 MS
Matrix: Solid
Analysis Batch: 784377

Client Sample ID: SB7 (0-3)
Prep Type: Total/NA
Prep Batch: 784233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	1.6		2.58	3.85		mg/Kg	☼	88	75 - 125		

Lab Sample ID: 500-255917-3 MSD
Matrix: Solid
Analysis Batch: 784377

Client Sample ID: SB7 (0-3)
Prep Type: Total/NA
Prep Batch: 784233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	1.6		2.42	4.06		mg/Kg	☼	102	75 - 125	5	20

Lab Sample ID: 500-255917-14 MS
Matrix: Solid
Analysis Batch: 784377

Client Sample ID: SB12 (7.5-10)
Prep Type: Total/NA
Prep Batch: 784233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.60	F1	2.27	2.21	F1	mg/Kg	☼	71	75 - 125		

Lab Sample ID: 500-255917-14 MSD
Matrix: Solid
Analysis Batch: 784377

Client Sample ID: SB12 (7.5-10)
Prep Type: Total/NA
Prep Batch: 784233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.60	F1	2.37	2.44		mg/Kg	☼	77	75 - 125	10	20

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: MB 500-784292/1-A
Matrix: Solid
Analysis Batch: 784511

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/03/24 16:00	09/04/24 11:07	1

Lab Sample ID: LCS 500-784292/2-A
Matrix: Solid
Analysis Batch: 784511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.42		mg/Kg		101	85 - 115

Lab Sample ID: 500-255917-19 MS
Matrix: Solid
Analysis Batch: 784511

Client Sample ID: SB15 (0-3)
Prep Type: Total/NA
Prep Batch: 784292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	16	F2	2.70	25.0	4	mg/Kg	☼	350	75 - 125

Lab Sample ID: 500-255917-19 MSD
Matrix: Solid
Analysis Batch: 784511

Client Sample ID: SB15 (0-3)
Prep Type: Total/NA
Prep Batch: 784292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	16	F2	2.59	18.0	4 F2	mg/Kg	☼	96	75 - 125	32	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-625847/1-A
Matrix: Solid
Analysis Batch: 625911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/05/24 07:21	09/05/24 10:07	1

Lab Sample ID: LCS 240-625847/2-A
Matrix: Solid
Analysis Batch: 625911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	81.3	78.7		mg/Kg		97	56 - 120

Method: 9045D - pH

Lab Sample ID: 500-255917-10 DU
Matrix: Solid
Analysis Batch: 784728

Client Sample ID: SB10 (5-7.5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.96		10.06		SU		1	5

Client Sample ID: SB6 (0-3)

Lab Sample ID: 500-255917-1

Date Collected: 08/29/24 09:47

Matrix: Solid

Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 11:56
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB6 (0-3)

Lab Sample ID: 500-255917-1

Date Collected: 08/29/24 09:47

Matrix: Solid

Date Received: 08/30/24 12:00

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784328		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	784960	W1T	EET CHI	09/08/24 19:59
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		2	785935	H7CM	EET CHI	09/13/24 19:03
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		10	785965	H7CM	EET CHI	09/13/24 13:35
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 16:43
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 02:15
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		5	786584	SJ	EET CHI	09/17/24 13:05
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		20	786584	SJ	EET CHI	09/17/24 13:09
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 08:51
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		1	784377	AC	EET CHI	09/03/24 15:08

Client Sample ID: SB6 (3-5)

Lab Sample ID: 500-255917-2

Date Collected: 08/29/24 09:58

Matrix: Solid

Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 11:59
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB6 (3-5)

Lab Sample ID: 500-255917-2

Date Collected: 08/29/24 09:58

Matrix: Solid

Date Received: 08/30/24 12:00

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784328		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	784960	W1T	EET CHI	09/08/24 20:24
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		1	785935	H7CM	EET CHI	09/13/24 11:22

Client Sample ID: SB6 (3-5)

Date Collected: 08/29/24 09:58
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-2

Matrix: Solid
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		5	786422	H7CM	EET CHI	09/17/24 15:10
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		10	786422	H7CM	EET CHI	09/17/24 15:21
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 17:28
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 02:38
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		2	786584	SJ	EET CHI	09/17/24 13:58
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		20	786584	SJ	EET CHI	09/17/24 14:02
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 08:53
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		10	784377	AC	EET CHI	09/03/24 16:47
Total/NA	Prep	9030B			625847	BLW	EET CLE	09/05/24 07:21
Total/NA	Analysis	9034		1	625911	BLW	EET CLE	09/05/24 13:16

Client Sample ID: SB7 (0-3)

Date Collected: 08/29/24 10:36
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:01
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB7 (0-3)

Date Collected: 08/29/24 10:36
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-3

Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784328		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	784960	W1T	EET CHI	09/08/24 20:49
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		2	785935	H7CM	EET CHI	09/13/24 14:36
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		10	785965	H7CM	EET CHI	09/13/24 14:21
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 17:43
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 02:43
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786584	SJ	EET CHI	09/17/24 14:07

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-255917-1

Client Sample ID: SB7 (0-3)
Date Collected: 08/29/24 10:36
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-3
Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 08:55
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		1	784377	AC	EET CHI	09/03/24 15:11

Client Sample ID: SB7 (10-12.5)
Date Collected: 08/29/24 10:42
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:03
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB7 (10-12.5)
Date Collected: 08/29/24 10:42
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-4
Matrix: Solid
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784328		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	784960	W1T	EET CHI	09/08/24 21:13
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		1	785935	H7CM	EET CHI	09/13/24 11:47
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		1	785965	H7CM	EET CHI	09/13/24 14:33
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 17:58
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 02:48
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786584	SJ	EET CHI	09/17/24 14:11
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 08:57
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		1	784377	AC	EET CHI	09/03/24 15:20

Client Sample ID: SB8 (0-3)
Date Collected: 08/29/24 12:36
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:06
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB8 (0-3)
Lab Sample ID: 500-255917-5

Date Collected: 08/29/24 12:36
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784328		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	784960	W1T	EET CHI	09/08/24 21:38
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		2	785935	H7CM	EET CHI	09/13/24 15:00
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		1	786207	H7CM	EET CHI	09/16/24 16:59
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		5	786207	H7CM	EET CHI	09/16/24 17:11
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 18:13
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 02:52
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		2	786584	SJ	EET CHI	09/17/24 14:16
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		10	786584	SJ	EET CHI	09/17/24 14:20
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 08:59
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		10	784377	AC	EET CHI	09/03/24 16:53

Client Sample ID: SB8 (5-7.5)
Lab Sample ID: 500-255917-6

Date Collected: 08/29/24 12:45
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:08
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB8 (5-7.5)
Lab Sample ID: 500-255917-6

Date Collected: 08/29/24 12:45
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	784960	W1T	EET CHI	09/08/24 22:03
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		1	785935	H7CM	EET CHI	09/13/24 12:11
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		1	785965	H7CM	EET CHI	09/13/24 14:56
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 18:28
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 03:06

Client Sample ID: SB8 (5-7.5)

Lab Sample ID: 500-255917-6
Date Collected: 08/29/24 12:45
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786584	SJ	EET CHI	09/17/24 14:25
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 09:01
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		1	784377	AC	EET CHI	09/03/24 16:16

Client Sample ID: SB9 (0-3)

Lab Sample ID: 500-255917-7
Date Collected: 08/29/24 13:06
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:11
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB9 (0-3)

Lab Sample ID: 500-255917-7
Date Collected: 08/29/24 13:06
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	784960	W1T	EET CHI	09/08/24 22:27
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		2	785935	H7CM	EET CHI	09/13/24 15:25
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		10	785965	H7CM	EET CHI	09/13/24 15:08
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	785901	SB	EET CHI	09/13/24 18:43
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 03:10
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		2	786584	SJ	EET CHI	09/17/24 14:29
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 09:03
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		10	784377	AC	EET CHI	09/03/24 16:57

Client Sample ID: SB9 (7.5-10)

Lab Sample ID: 500-255917-8
Date Collected: 08/29/24 13:15
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:13
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB9 (7.5-10)
Lab Sample ID: 500-255917-8

Date Collected: 08/29/24 13:15
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 13:30
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		1	785935	H7CM	EET CHI	09/13/24 12:35
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		1	785965	H7CM	EET CHI	09/13/24 15:19
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 00:45
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 03:15
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786584	SJ	EET CHI	09/17/24 14:38
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 09:09
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		1	784377	AC	EET CHI	09/03/24 16:19

Client Sample ID: SB10 (0-3)
Lab Sample ID: 500-255917-9

Date Collected: 08/29/24 13:39
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:18
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB10 (0-3)
Lab Sample ID: 500-255917-9

Date Collected: 08/29/24 13:39
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 13:54
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		2	785935	H7CM	EET CHI	09/13/24 15:49
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		20	785965	H7CM	EET CHI	09/13/24 15:31
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 01:00
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 03:19
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		5	786584	SJ	EET CHI	09/17/24 14:51
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 09:16

Client Sample ID: SB10 (0-3)
Lab Sample ID: 500-255917-9
Date Collected: 08/29/24 13:39
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		10	784377	AC	EET CHI	09/03/24 17:01
Total/NA	Prep	9030B			625847	BLW	EET CLE	09/05/24 07:21
Total/NA	Analysis	9034		1	625911	BLW	EET CLE	09/05/24 13:16

Client Sample ID: SB10 (5-7.5)
Lab Sample ID: 500-255917-10
Date Collected: 08/29/24 13:47
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:21
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB10 (5-7.5)
Lab Sample ID: 500-255917-10
Date Collected: 08/29/24 13:47
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 14:18
Total/NA	Prep	3546	DL		785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E	DL	100	786129	WS	EET CHI	09/16/24 15:18
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		2	785935	H7CM	EET CHI	09/13/24 16:13
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		10	786207	H7CM	EET CHI	09/16/24 17:23
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 01:15
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 03:23
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		5	786584	SJ	EET CHI	09/17/24 14:56
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 09:18
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		1	784377	AC	EET CHI	09/03/24 16:23

Client Sample ID: SB11 (0-3)
Lab Sample ID: 500-255917-11
Date Collected: 08/29/24 14:01
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:26
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB11 (0-3)
Lab Sample ID: 500-255917-11

Date Collected: 08/29/24 14:01
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 14:42
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		2	785935	H7CM	EET CHI	09/13/24 16:38
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		1	786207	H7CM	EET CHI	09/16/24 17:34
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		5	786207	H7CM	EET CHI	09/16/24 17:46
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 01:30
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 03:28
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		2	786584	SJ	EET CHI	09/17/24 15:00
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		10	786584	SJ	EET CHI	09/17/24 15:05
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 09:20
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		1	784377	AC	EET CHI	09/03/24 16:24

Client Sample ID: SB11 (5-7.5)
Lab Sample ID: 500-255917-12

Date Collected: 08/29/24 14:15
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:28
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB11 (5-7.5)
Lab Sample ID: 500-255917-12

Date Collected: 08/29/24 14:15
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 15:06
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		2	785935	H7CM	EET CHI	09/13/24 17:01
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		1	786207	H7CM	EET CHI	09/16/24 17:58
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		5	786207	H7CM	EET CHI	09/16/24 18:09
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 01:45

Client Sample ID: SB11 (5-7.5)

Lab Sample ID: 500-255917-12

Date Collected: 08/29/24 14:15

Matrix: Solid

Date Received: 08/30/24 12:00

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 03:33
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		2	786584	SJ	EET CHI	09/17/24 15:09
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		10	786584	SJ	EET CHI	09/17/24 15:14
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 09:22
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		1	784377	AC	EET CHI	09/03/24 16:26

Client Sample ID: SB12 (0-3)

Lab Sample ID: 500-255917-13

Date Collected: 08/29/24 09:23

Matrix: Solid

Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:30
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB12 (0-3)

Lab Sample ID: 500-255917-13

Date Collected: 08/29/24 09:23

Matrix: Solid

Date Received: 08/30/24 12:00

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 15:30
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		2	785935	H7CM	EET CHI	09/13/24 17:26
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		10	785965	H7CM	EET CHI	09/13/24 16:18
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 02:00
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 03:37
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		2	786584	SJ	EET CHI	09/17/24 15:18
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		2	786700	MJG	EET CHI	09/18/24 13:45
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		1	784377	AC	EET CHI	09/03/24 16:28

Client Sample ID: SB12 (7.5-10)
Lab Sample ID: 500-255917-14
Date Collected: 08/29/24 09:30
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:33
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB12 (7.5-10)
Lab Sample ID: 500-255917-14
Date Collected: 08/29/24 09:30
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 15:54
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		1	785935	H7CM	EET CHI	09/13/24 12:59
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		1	785965	H7CM	EET CHI	09/13/24 16:29
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 02:14
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 03:42
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786584	SJ	EET CHI	09/17/24 15:27
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786635	MJG	EET CHI	09/18/24 09:25
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		1	784377	AC	EET CHI	09/03/24 16:33

Client Sample ID: SB13 (0-3)
Lab Sample ID: 500-255917-15
Date Collected: 08/29/24 10:45
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:35
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB13 (0-3)
Lab Sample ID: 500-255917-15
Date Collected: 08/29/24 10:45
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 16:18
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		2	785935	H7CM	EET CHI	09/13/24 17:50
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		5	785965	H7CM	EET CHI	09/13/24 16:41

Client Sample ID: SB13 (0-3)

Lab Sample ID: 500-255917-15

Date Collected: 08/29/24 10:45

Matrix: Solid

Date Received: 08/30/24 12:00

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 02:29
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 03:46
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		2	786584	SJ	EET CHI	09/17/24 15:32
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		20	786584	SJ	EET CHI	09/17/24 15:45
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		2	786700	MJG	EET CHI	09/18/24 13:47
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		10	784511	AC	EET CHI	09/04/24 12:27

Client Sample ID: SB13 (5-7.5)

Lab Sample ID: 500-255917-16

Date Collected: 08/29/24 10:54

Matrix: Solid

Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:37
Total/NA	Analysis	Moisture		1	785771	DG	EET CHI	09/12/24 13:45

Client Sample ID: SB13 (5-7.5)

Lab Sample ID: 500-255917-16

Date Collected: 08/29/24 10:54

Matrix: Solid

Date Received: 08/30/24 12:00

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 16:42
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		1	785935	H7CM	EET CHI	09/13/24 13:24
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		1	786207	H7CM	EET CHI	09/16/24 18:21
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		5	786207	H7CM	EET CHI	09/16/24 18:33
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 02:44
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 04:00
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		2	786584	SJ	EET CHI	09/17/24 15:49
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		20	786584	SJ	EET CHI	09/17/24 15:54
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786700	MJG	EET CHI	09/18/24 11:52

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-255917-1

Client Sample ID: SB13 (5-7.5)

Lab Sample ID: 500-255917-16
Date Collected: 08/29/24 10:54
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		1	784377	AC	EET CHI	09/03/24 16:40

Client Sample ID: SB14 (0-3)

Lab Sample ID: 500-255917-17
Date Collected: 08/29/24 12:09
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:40
Total/NA	Analysis	Moisture		1	785782	DG	EET CHI	09/12/24 14:29

Client Sample ID: SB14 (0-3)

Lab Sample ID: 500-255917-17
Date Collected: 08/29/24 12:09
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 17:06
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		2	785935	H7CM	EET CHI	09/13/24 18:14
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		1	786207	H7CM	EET CHI	09/16/24 18:44
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8081B		5	786207	H7CM	EET CHI	09/16/24 18:56
Total/NA	Prep	3541			785442	FRG	EET CHI	09/11/24 07:33 - 09/11/24 12:00 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 02:59
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 04:04
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		2	786584	SJ	EET CHI	09/17/24 15:59
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786700	MJG	EET CHI	09/18/24 11:54
Total/NA	Prep	9010C			784233	AC	EET CHI	09/03/24 01:11 - 09/03/24 01:41 [1]
Total/NA	Analysis	9012B		10	784511	AC	EET CHI	09/04/24 12:31

Client Sample ID: SB14 (10-12.5)

Lab Sample ID: 500-255917-18
Date Collected: 08/29/24 12:23
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:45
Total/NA	Analysis	Moisture		1	785782	DG	EET CHI	09/12/24 14:29

Client Sample ID: SB14 (10-12.5)

Lab Sample ID: 500-255917-18

Date Collected: 08/29/24 12:23

Matrix: Solid

Date Received: 08/30/24 12:00

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 17:30
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		1	785935	H7CM	EET CHI	09/13/24 13:48
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	785339	H7CM	EET CHI	09/10/24 16:06
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		5	785339	H7CM	EET CHI	09/10/24 16:18
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 03:14
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 04:09
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		5	786584	SJ	EET CHI	09/17/24 16:07
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786700	MJG	EET CHI	09/18/24 11:56
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		10	784511	AC	EET CHI	09/04/24 12:36

Client Sample ID: SB15 (0-3)

Lab Sample ID: 500-255917-19

Date Collected: 08/29/24 13:35

Matrix: Solid

Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:47
Total/NA	Analysis	Moisture		1	785782	DG	EET CHI	09/12/24 14:29

Client Sample ID: SB15 (0-3)

Lab Sample ID: 500-255917-19

Date Collected: 08/29/24 13:35

Matrix: Solid

Date Received: 08/30/24 12:00

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 17:54
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		2	785935	H7CM	EET CHI	09/13/24 18:39
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	785339	H7CM	EET CHI	09/10/24 16:29
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		5	785339	H7CM	EET CHI	09/10/24 16:41
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 03:29
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 04:14

Client Sample ID: SB15 (0-3)
Lab Sample ID: 500-255917-19

Date Collected: 08/29/24 13:35
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		2	786584	SJ	EET CHI	09/17/24 16:12
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786700	MJG	EET CHI	09/18/24 11:58
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		10	784511	AC	EET CHI	09/04/24 12:44

Client Sample ID: SB15 (7.5-10)
Lab Sample ID: 500-255917-20

Date Collected: 08/29/24 13:53
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:50
Total/NA	Analysis	Moisture		1	785782	DG	EET CHI	09/12/24 14:29

Client Sample ID: SB15 (7.5-10)
Lab Sample ID: 500-255917-20

Date Collected: 08/29/24 13:53
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 18:18
Total/NA	Prep	3546			785749	EK	EET CHI	09/12/24 11:30
Total/NA	Analysis	8270E		1	785935	H7CM	EET CHI	09/13/24 14:12
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	785339	H7CM	EET CHI	09/10/24 16:53
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		5	785339	H7CM	EET CHI	09/10/24 17:04
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 03:44
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		1	786380	SJ	EET CHI	09/17/24 04:18
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		2	786584	SJ	EET CHI	09/17/24 16:21
Total/NA	Prep	3050B			786197	BDE	EET CHI	09/16/24 09:08 - 09/16/24 15:08 [1]
Total/NA	Analysis	6010D		20	786584	SJ	EET CHI	09/17/24 16:25
Total/NA	Prep	7471B			786466	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786700	MJG	EET CHI	09/18/24 12:00
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:18

Client Sample ID: SB16 (0-3)
Lab Sample ID: 500-255917-21

Date Collected: 08/29/24 15:03
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:52
Total/NA	Analysis	Moisture		1	785782	DG	EET CHI	09/12/24 14:29

Client Sample ID: SB16 (0-3)
Lab Sample ID: 500-255917-21

Date Collected: 08/29/24 15:03
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 18:42
Total/NA	Prep	3546			785733	EK	EET CHI	09/12/24 10:51
Total/NA	Analysis	8270E		1	785926	WS	EET CHI	09/13/24 21:00
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	785070	SB	EET CHI	09/09/24 18:45
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 03:59
Total/NA	Prep	3050B			786196	BDE	EET CHI	09/16/24 09:05 - 09/16/24 15:05 [1]
Total/NA	Analysis	6010D		2	786591	SJ	EET CHI	09/17/24 14:59
Total/NA	Prep	3050B			786196	BDE	EET CHI	09/16/24 09:05 - 09/16/24 15:05 [1]
Total/NA	Analysis	6010D		10	786591	SJ	EET CHI	09/17/24 15:04
Total/NA	Prep	3050B			786196	BDE	EET CHI	09/16/24 09:05 - 09/16/24 15:05 [1]
Total/NA	Analysis	6010D		1	786388	RB	EET CHI	09/17/24 01:54
Total/NA	Prep	7471B			786494	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786700	MJG	EET CHI	09/18/24 13:41
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:20

Client Sample ID: SB16 (3-5)
Lab Sample ID: 500-255917-22

Date Collected: 08/29/24 15:09
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784728	LP	EET CHI	09/05/24 12:54
Total/NA	Analysis	Moisture		1	785782	DG	EET CHI	09/12/24 14:29

Client Sample ID: SB16 (3-5)
Lab Sample ID: 500-255917-22

Date Collected: 08/29/24 15:09
Matrix: Solid
Date Received: 08/30/24 12:00
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784330		EET CHI	08/30/24 18:42
Total/NA	Analysis	8260D		1	785246	SW1	EET CHI	09/10/24 19:06
Total/NA	Prep	3546			785733	EK	EET CHI	09/12/24 10:51
Total/NA	Analysis	8270E		1	785926	WS	EET CHI	09/13/24 21:25

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB16 (3-5)
Date Collected: 08/29/24 15:09
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-22
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		1	785339	H7CM	EET CHI	09/10/24 17:16
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8081B		5	785339	H7CM	EET CHI	09/10/24 17:27
Total/NA	Prep	3541			784522	SV	EET CHI	09/04/24 15:38 - 09/04/24 23:44 [1]
Total/NA	Analysis	8082A		1	786269	H7CM	EET CHI	09/17/24 04:13
Total/NA	Prep	3050B			786196	BDE	EET CHI	09/16/24 09:05 - 09/16/24 15:05 [1]
Total/NA	Analysis	6010D		2	786591	SJ	EET CHI	09/17/24 15:17
Total/NA	Prep	3050B			786196	BDE	EET CHI	09/16/24 09:05 - 09/16/24 15:05 [1]
Total/NA	Analysis	6010D		10	786591	SJ	EET CHI	09/17/24 15:21
Total/NA	Prep	3050B			786196	BDE	EET CHI	09/16/24 09:05 - 09/16/24 15:05 [1]
Total/NA	Analysis	6010D		1	786388	RB	EET CHI	09/17/24 01:59
Total/NA	Prep	7471B			786494	MJG	EET CHI	09/17/24 17:05
Total/NA	Analysis	7471B		1	786700	MJG	EET CHI	09/18/24 13:43
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		10	784511	AC	EET CHI	09/04/24 12:58

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	10-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	09-09-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record 719717

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager Jake Hartsock	Site Contact	Date	COC No 1
Company Name Pioneer	Tel/Email. jhartsock@pioneereesc.com	Lab Contact	Carrier:	1 of 2 COCs
Address 2743 W. 31st St.	Analysis Turnaround Time			Sampler
City/State/Zip Chicago, IL 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name 8080 S. Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO# 24-0124-103	☐ 1 day			500-255917

500-255917 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL, pH	Sample Specific Notes
1	SB6 (0-3)	8/29/24	9:47am	G	S	4			X	
2	SB6 (3 5)	↓	9:58am	↓	↓	↓			X	
3	SB7 (0 3)	↓	10:36am	↓	↓	↓			X	
4	SB7 (10-12.5)	↓	10:42am	↓	↓	↓			X	
5	SB8 (0-3)	↓	12:36pm	↓	↓	↓			X	
6	SB8 (5-7.5)	↓	12:45pm	↓	↓	↓			X	
7	SB9 (0 3)	↓	1:06pm	↓	↓	↓			X	
8	SB9 (7.5-10)	↓	1:15pm	↓	↓	↓			X	
9	SB10 (0-3)	↓	1:39pm	↓	↓	↓			X	
10	SB10 (5-7.5)	↓	1:47pm	↓	↓	↓			X	
11	SB11 (0-3)	↓	2:01pm	↓	↓	↓			X	
12	SB11 (5-7.5)	↓	2:15pm	↓	↓	↓			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.9+1.6 48qt.

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____		
Relinquished by: [signature]	Company: Pioneer	Date/Time: 8/30/24	Received by: [signature]	Company: EETA	Date/Time: 8/30/24 1030
Relinquished by: [signature]	Company: EETA 8/30/24	Date/Time: 1200	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Stephanie Hernandez	Company: EETA	Date/Time: 8/30/24 1200

Chain of Custody Record

670145 eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:
Company Name PIONEER	Tel/Email:	Lab Contact:	Carrier:
Address SA pg 1	Analysis Turnaround Time		
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS		
Phone	TAT if different from Below _____		
Fax	☒ 2 weeks		
Project Name	☐ 1 week		
Site	☐ 2 days		
P O #	☐ 1 day		

COC No 2 of 2 COCs

Sampler

For Lab Use Only:
Walk-in Client
Lab Sampling

Job / SDG No 500-255917

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL	PH	Sample Specific Notes
13	SB12 (0-3)	8/29/24	923	G	SO	4		X			
14	SB12 (7.5-10)		930								
15	SB13 (0-3)		1045								
16	SB13 (5-7.5)		1054								
17	SB14 (0-3)		1209								
18	SB14 (10-12.5)		1229								
19	SB15 (0-3)		135								
20	SB15 (7.5-10)		153								
21	SB16 (0-3)		303								
22	SB16 (3-5)		309								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ | Therm ID No _____

Relinquished by	Company PIONEER	Date/Time 8/30/24	Received by	Company EETA	Date/Time 8/30/24 1030
Relinquished by	Company EETA 8/30/24	Date/Time 1200	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by Stephanie Hernandez	Company EETA	Date/Time 8/30/24 1200

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192228.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-255917 1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 9/16/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

E186

Special Instructions/Note:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers
			Preservation Code:					
SB6 (3-5) (500-255917-2)	8/29/24	09:58 Central	G	Solid			X	1
SB10 (0-3) (500-255917-9)	8/29/24	13:39 Central	G	Solid			X	1

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested. I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	4/4/24 16:00	ET	MALISSA LOAR	4.5.24 9:30	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____

Barberton Facility

Client EDR Chicago Site Name _____ Cooler unpacked by: MALISSA LOAR

Cooler Received on 9-5-24 Opened on 9-5-24

FedEx. 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 22 Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 22 (CF -0.1 °C) Observed Cooler Temp 3.9 °C Corrected Cooler Temp 3.8 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity_____	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3 Shippers' packing slip attached to the cooler(s)?	Yes	No
4 Did custody papers accompany the sample(s)?	Yes	No
5 Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7 Did all bottles arrive in good condition (Unbroken)?	Yes	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9 For each sample, does the COC specify preservatives (Y/N),# of containers(Y/N), and sample type of grab/comp(Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	Yes	No
11 Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC442471
14. Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
17 Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

_____

_____

_____

_____

19 SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen _____

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193726.1
Client Contact: Shipping/Receiving	Phone:	E-Mai: Jim Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-255917-2
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/17/2024			Preservation Codes.
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/1311T_M (MOD) TCLP RCRA Metals	7470A/1311T_Hg TCLP Mercury	6010D/1311T_M (MOD) a) 1 element, including prep	6020B/1311T_M TCLP RCRA Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:									EOS4
SB6 (0-3) (500-255917 1)	8/29/24	09:47 Central	G	Solid			X	X			1	
SB13 (0-3) (500-255917-15)	8/29/24	10:45 Central	G	Solid					X		1	
SB13 (5-7.5) (500-255917 16)	8/29/24	10:54 Central	G	Solid				X		X	1	
SB14 (0-3) (500-255917 17)	8/29/24	12:09 Central	G	Solid				X		X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Stephanie Hernandez	10/21/24 1600		KATHARINE MARTIN	10/21/24 920 10/22/24	EUL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler unpacked by: ICM

Cooler Received on 10/12/24 Opened on 10/12/24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☒ See Multiple Cooler Form

IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/(N)), # of containers ((Y)/N), and sample type of grab/comp ((Y)/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen

Login # : ____________

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: ______	2.7	3.0	Wet Ice [circled] Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE 11OCT24
ACTWGT: 68.00 LB MAN
CAD: 0675858/CAFE3854

BILL SENDER

Part # 159469-434 MTW EXP 02/25

TO **SAMPLE RECEIVING**
EUROFINS—CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396
REF: 257701 255852 917 256054 095 166 275

FedEx Express

E

2 of 4
MPS# 0263 7051 7621 1593
Mstr# 7051 7621 1582 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CAKA

44203
OH-US CLE

RT 448 1 12:00
FZ 447 1593 10:12

492

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-255917-1

Login Number: 255917
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 8:08:23 AM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256054-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 8:08:23 AM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256054-1 — Eurofins Chicago

Job Narrative
500-256054-1

Revision
The report being provided is a revision of the original report sent on 9/19/2024. The report (revision 2) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 12/10/2024 - Reason - The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/3/2024 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

Receipt Exceptions

TPH logged for sample SB21 (12.5-15) per client request.

Low level VOC vials placed in freezer on 8/30/24 at 17:07.

GC/MS VOA
Method 8260D: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: SB18 (7.5-10) (500-256054-4) and SB23 (0-3) (500-256054-13). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantized with this internal standard.

Method 8260D: Surrogate recovery for the following samples were outside the upper control limit: SB18 (7.5-10) (500-256054-4), SB22 (10-12.5) (500-256054-12) and SB23 (0-3) (500-256054-13). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The laboratory control sample (LCS) for preparation batch 500-784315 and analytical batch 500-785639 recovered outside control limits for the following analytes: Carbon Tetrachloride, 1,2-Dichloroethane, and 1,1,1-Trichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following sample was diluted due to the abundance of non-target analytes: SB22 (0-3) (500-256054-11). Elevated reporting limits (RLs) are provided.

Method 8260D: Elevated reporting limits are provided for the following sample(s). All low level vials yielded unusable data, and some low levels were all received broken. A 1/50 dilution had to be performed from the methanol vial.SB17 (0-3) (500-256054-1), SB18 (0-3) (500-256054-3), SB19 (0-3) (500-256054-5), SB20 (3-5) (500-256054-8) and SB21 (0-3) (500-256054-9)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-786139 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-786139 was outside the method criteria for the following analyte(s): 2-Nitroaniline, bis(chloroisopropyl) ether and Di-n-octyl phthalate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-785869 and analytical batch 500-786139 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB18 (0-3) (500-256054-3), SB20 (0-3) (500-256054-7) and SB23 (5-7.5) (500-256054-14). These results have been reported and qualified.

Job ID: 500-256054-1 (Continued) Eurofins Chicago

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB21 (12.5-15) (500-256054-10) and SB22 (0-3) (500-256054-11). Elevated reporting limits (RLs) are provided.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: SB18 (0-3) (500-256054-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1254 for the following sample: SB23 (0-3) (500-256054-13). The higher value(s) has been reported due to high ISTD recovery on the other column.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following samples were outside control limits: SB17 (5-7.5) (500-256054-2) and SB22 (0-3) (500-256054-11). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following samples were outside control limits: SB18 (0-3) (500-256054-3) and SB19 (0-3) (500-256054-5). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB21 (12.5-15) (500-256054-10). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside control limits: SB21 (0-3) (500-256054-9). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB17 (0-3) (500-256054-1), SB20 (3-5) (500-256054-8), SB21 (0-3) (500-256054-9), SB21 (12.5-15) (500-256054-10), (500-256054-D-1-E MS) and (500-256054-D-1-F MSD).

Method 8081B: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SB17 (0-3) (500-256054-1), SB20 (0-3) (500-256054-7), SB20 (3-5) (500-256054-8), SB21 (0-3) (500-256054-9), SB21 (12.5-15) (500-256054-10), SB23 (5-7.5) (500-256054-14), (500-256054-D-1-C MS) and (500-256054-D-1-D MSD).

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB17 (0-3) (500-256054-1), SB20 (0-3) (500-256054-7), SB20 (3-5) (500-256054-8), SB21 (0-3) (500-256054-9), SB21 (12.5-15) (500-256054-10), SB23 (5-7.5) (500-256054-14), (500-256054-D-1-C MS) and (500-256054-D-1-D MSD). Elevated reporting limits (RLs) are provided.

Method 8081B: The following samples required a dilution due to the nature of the sample matrix: SB17 (0-3) (500-256054-1), SB20 (0-3) (500-256054-7), SB20 (3-5) (500-256054-8), SB21 (0-3) (500-256054-9), SB21 (12.5-15) (500-256054-10), (500-256054-D-1-C MS) and (500-256054-D-1-D MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following samples were outside control limits: SB17 (0-3) (500-256054-1), SB20 (0-3) (500-256054-7), SB20 (3-5) (500-256054-8), SB21 (0-3) (500-256054-9), SB23 (5-7.5) (500-256054-14), (500-256054-D-1-C MS) and (500-256054-D-1-D MSD). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-785837 and analytical batch 500-786579 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: (500-256054-D-1-C MS) and (500-256054-D-1-D MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Job ID: 500-256054-1 (Continued) Eurofins Chicago

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-784292 and analytical batch 500-784511 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SB17 (0-3) — Lab Sample ID: 500-256054-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.046		0.031	0.015	mg/Kg	50	☼	8260D	Total/NA
Acenaphthylene	0.23	F1 F2	0.037	0.0062	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.26	F1	0.037	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.41	F1	0.037	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.60	F1 F2	0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.1	F1 F2	0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.44	F1 F2	0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.39	F1	0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.62	F1	0.037	0.0097	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.14	F1 F2	0.037	0.037	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.51		0.037	0.0085	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.022	J F1	0.037	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.48	F1 F2	0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.038	F1 F2	0.037	0.0066	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.25	F1	0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.70	F1	0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.054	J F1 F2	0.074	0.0074	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.091	J F1	0.18	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.025	J F1	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	11000		19		mg/Kg	1	☼	6010D	Total/NA
Barium	220		4.8		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.1		1.9		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.4		0.95		mg/Kg	5	☼	6010D	Total/NA
Calcium	74000		95		mg/Kg	5	☼	6010D	Total/NA
Chromium	43	F1 F2	0.95		mg/Kg	1	☼	6010D	Total/NA
Cobalt	7.0		0.48		mg/Kg	1	☼	6010D	Total/NA
Copper	35		4.8		mg/Kg	5	☼	6010D	Total/NA
Iron	140000		95		mg/Kg	5	☼	6010D	Total/NA
Lead	200		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	7600	F2	9.5		mg/Kg	1	☼	6010D	Total/NA
Manganese	7300		4.8		mg/Kg	5	☼	6010D	Total/NA
Nickel	17		4.8		mg/Kg	5	☼	6010D	Total/NA
Potassium	620		48		mg/Kg	1	☼	6010D	Total/NA
Sodium	360		95		mg/Kg	1	☼	6010D	Total/NA
Thallium	39	F1	4.8		mg/Kg	5	☼	6010D	Total/NA
Vanadium	43	F1 F2	2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	240		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.073		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.9		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.33		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB17 (5-7.5) — Lab Sample ID: 500-256054-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7900		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.1		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	69		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.6		0.44		mg/Kg	1	☼	6010D	Total/NA
Calcium	61000		22		mg/Kg	1	☼	6010D	Total/NA
Chromium	5.4		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.1		0.55		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB17 (5-7.5) (Continued)
Lab Sample ID: 500-256054-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	3700		22		mg/Kg	1	☼	6010D	Total/NA
Lead	2.7		0.55		mg/Kg	1	☼	6010D	Total/NA
Magnesium	20000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	180		1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	4.5		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	590		55		mg/Kg	1	☼	6010D	Total/NA
Sodium	240		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	12		0.55		mg/Kg	1	☼	6010D	Total/NA
Zinc	15		2.2		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	0.31		0.27		mg/Kg	1	☼	9012B	Total/NA
pH	9.87		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB18 (0-3)
Lab Sample ID: 500-256054-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.016		0.014	0.0069	mg/Kg	50	☼	8260D	Total/NA
Ethylbenzene	0.026		0.014	0.0097	mg/Kg	50	☼	8260D	Total/NA
Styrene	0.051	J	0.056	0.017	mg/Kg	50	☼	8260D	Total/NA
Toluene	0.069		0.014	0.012	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.13		0.028	0.013	mg/Kg	50	☼	8260D	Total/NA
Acenaphthene	0.14		0.036	0.0073	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.45		0.036	0.0061	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.85		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	4.5		0.036	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	4.0		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	6.1		0.036	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	2.7		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	2.1		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	5.5		0.036	0.0095	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.88		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.23		0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.9		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.31		0.036	0.0065	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	6.6		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Pyrene	9.3		0.036	0.0099	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.19		0.073	0.0072	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.33		0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.23		0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Dimethyl phthalate	0.25		0.18	0.0078	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene - DL	11		0.72	0.17	mg/Kg	20	☼	8270E	Total/NA
Aluminum	5500		19		mg/Kg	1	☼	6010D	Total/NA
Antimony	2.9		1.9		mg/Kg	1	☼	6010D	Total/NA
Barium	56		4.8		mg/Kg	5	☼	6010D	Total/NA
Calcium	180000		96		mg/Kg	5	☼	6010D	Total/NA
Chromium	1200		19		mg/Kg	20	☼	6010D	Total/NA
Cobalt	4.8		0.48		mg/Kg	1	☼	6010D	Total/NA
Copper	30		4.8		mg/Kg	5	☼	6010D	Total/NA
Iron	99000		96		mg/Kg	5	☼	6010D	Total/NA
Lead	76		2.4		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB18 (0-3) (Continued)
Lab Sample ID: 500-256054-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	21000		9.6		mg/Kg	1	☼	6010D	Total/NA
Manganese	21000		4.8		mg/Kg	5	☼	6010D	Total/NA
Nickel	18		4.8		mg/Kg	5	☼	6010D	Total/NA
Potassium	390		48		mg/Kg	1	☼	6010D	Total/NA
Selenium	10		4.8		mg/Kg	5	☼	6010D	Total/NA
Sodium	220		96		mg/Kg	1	☼	6010D	Total/NA
Thallium	110		4.8		mg/Kg	5	☼	6010D	Total/NA
Vanadium	670		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	66		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.083		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.2		0.23		mg/Kg	1	☼	9012B	Total/NA
pH	11.96		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB18 (7.5-10)
Lab Sample ID: 500-256054-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0027	J	0.0063	0.0012	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0017	J	0.0025	0.00051	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0016	J	0.0050	0.00086	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.015	J	0.038	0.0078	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.076		0.038	0.0065	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.080		0.038	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.14		0.038	0.0082	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.098		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.19		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.087		0.038	0.0083	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.069		0.038	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.17		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.34		0.038	0.0089	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.031	J	0.038	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.084		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.057		0.038	0.0070	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.47		0.038	0.0084	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.25		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.088		0.078	0.0077	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.028	J	0.19	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.050	J	0.19	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	6700		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.5		5.2		mg/Kg	5	☼	6010D	Total/NA
Barium	110		5.2		mg/Kg	5	☼	6010D	Total/NA
Calcium	23000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	19		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.3		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	42		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	74000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	62		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	6500		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	1100		1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	22		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	360		52		mg/Kg	1	☼	6010D	Total/NA
Sodium	200		100		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB18 (7.5-10) (Continued)
Lab Sample ID: 500-256054-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	7.8		5.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	25		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	180		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.045		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.54		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	8.15		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB19 (0-3)
Lab Sample ID: 500-256054-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.034		0.016	0.014	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.071		0.032	0.015	mg/Kg	50	☼	8260D	Total/NA
Acenaphthene	0.047		0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.17		0.035	0.0060	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.19		0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.75		0.035	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.83		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.4		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.55		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.49		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.88		0.035	0.0093	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.20		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	1.3		0.035	0.0082	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.036		0.035	0.010	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.61		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.070		0.035	0.0064	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.96		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Pyrene	1.2		0.035	0.0096	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.10		0.071	0.0071	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.062	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.055	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
PCB-1260	0.022		0.017		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.022		0.017		mg/Kg	1	☼	8082A	Total/NA
Aluminum	10000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.6		5.1		mg/Kg	5	☼	6010D	Total/NA
Barium	170		5.1		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.4		2.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.2		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	59000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	35		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.3		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	57		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	69000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	160		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	13000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	3500		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	17		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	930		51		mg/Kg	1	☼	6010D	Total/NA
Sodium	740		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	19		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	33		2.6		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB19 (0-3) (Continued) — Lab Sample ID: 500-256054-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	300		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.083		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	9.6		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	8.19		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB19 (5-7.5) — Lab Sample ID: 500-256054-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.016	J	0.033	0.0070	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.033	0.0071	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.013	J	0.033	0.0086	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.011	J	0.033	0.0076	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.012	J	0.033	0.0089	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.20		0.16	0.13	mg/Kg	1	☼	8270E	Total/NA
Aluminum	1800		17		mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.1		0.85		mg/Kg	1	☼	6010D	Total/NA
Barium	24		0.85		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.49		0.34		mg/Kg	1	☼	6010D	Total/NA
Calcium	11000		17		mg/Kg	1	☼	6010D	Total/NA
Chromium	2.4		0.85		mg/Kg	1	☼	6010D	Total/NA
Cobalt	0.78		0.43		mg/Kg	1	☼	6010D	Total/NA
Copper	1.3		0.85		mg/Kg	1	☼	6010D	Total/NA
Iron	4400		17		mg/Kg	1	☼	6010D	Total/NA
Lead	3.6		0.43		mg/Kg	1	☼	6010D	Total/NA
Magnesium	5300		8.5		mg/Kg	1	☼	6010D	Total/NA
Manganese	540		0.85		mg/Kg	1	☼	6010D	Total/NA
Nickel	1.8		0.85		mg/Kg	1	☼	6010D	Total/NA
Potassium	280		43		mg/Kg	1	☼	6010D	Total/NA
Sodium	130		85		mg/Kg	1	☼	6010D	Total/NA
Thallium	2.5		0.85		mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.3		0.43		mg/Kg	1	☼	6010D	Total/NA
Zinc	7.3		1.7		mg/Kg	1	☼	6010D	Total/NA
pH	9.04		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB20 (0-3) — Lab Sample ID: 500-256054-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0053		0.0046	0.00085	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00055	J	0.0018	0.00037	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.099		0.037	0.0075	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.027	J	0.037	0.0062	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.19		0.037	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	1.3		0.037	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	2.4		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	3.4		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	2.9		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.3		0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	1.9		0.037	0.0097	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.57		0.037	0.037	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	1.9		0.037	0.0085	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.048		0.037	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.7		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB20 (0-3) (Continued)
Lab Sample ID: 500-256054-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.053		0.037	0.0066	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.81		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Pyrene	1.7		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.069	J	0.074	0.0074	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.12	J	0.18	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.072	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	15000		20		mg/Kg	1	☼	6010D	Total/NA
Barium	190		5.1		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.8		2.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	160000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	450		5.1		mg/Kg	5	☼	6010D	Total/NA
Cobalt	3.8		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	35		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	89000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	53		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	26000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	12000		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	18		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	980		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	6.0		5.1		mg/Kg	5	☼	6010D	Total/NA
Sodium	620		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	61		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	210		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	90		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.049		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.9		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	11.09		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB20 (3-5)
Lab Sample ID: 500-256054-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.017	J	0.019	0.016	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.031	J	0.038	0.018	mg/Kg	50	☼	8260D	Total/NA
Acenaphthene	0.38		0.038	0.0078	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.40		0.038	0.0065	mg/Kg	1	☼	8270E	Total/NA
Anthracene	1.3		0.038	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	2.8		0.038	0.0082	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	2.6		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	3.8		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.5		0.038	0.0083	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.4		0.038	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	3.1		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.54		0.038	0.038	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	7.1		0.038	0.0089	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.64		0.038	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.7		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.46		0.038	0.0070	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	7.8		0.038	0.0084	mg/Kg	1	☼	8270E	Total/NA
Pyrene	5.8		0.038	0.011	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.31		0.078	0.0077	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.16	J	0.19	0.15	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB20 (3-5) (Continued)
Lab Sample ID: 500-256054-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbazole	0.76		0.19	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.54		0.19	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	11000		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.7		5.4		mg/Kg	5	☼	6010D	Total/NA
Barium	130		5.4		mg/Kg	5	☼	6010D	Total/NA
Calcium	51000		22		mg/Kg	1	☼	6010D	Total/NA
Chromium	57		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	7.7		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	48		5.4		mg/Kg	5	☼	6010D	Total/NA
Iron	76000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	100		2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	11000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	3500		5.4		mg/Kg	5	☼	6010D	Total/NA
Nickel	22		5.4		mg/Kg	5	☼	6010D	Total/NA
Potassium	1200		54		mg/Kg	1	☼	6010D	Total/NA
Sodium	420		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	19		5.4		mg/Kg	5	☼	6010D	Total/NA
Vanadium	65		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	210		2.2		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.089		0.020		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	6.8	F1	1.3		mg/Kg	5	☼	9012B	Total/NA
pH	8.76		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB21 (0-3)
Lab Sample ID: 500-256054-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.017		0.016	0.011	mg/Kg	50	☼	8260D	Total/NA
Toluene	0.015	J	0.016	0.013	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.050		0.031	0.015	mg/Kg	50	☼	8260D	Total/NA
Acenaphthene	0.28		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.18		0.036	0.0062	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.32		0.036	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	2.2		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	4.3		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	4.7		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	3.8		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	2.0		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	2.7		0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.83		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	2.8		0.036	0.0085	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.084		0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	3.7		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.076		0.036	0.0066	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	1.1		0.036	0.0080	mg/Kg	1	☼	8270E	Total/NA
Pyrene	2.9		0.036	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.083		0.074	0.0073	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.18		0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.060	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	18000		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.1		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	200		1.1		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB21 (0-3) (Continued)
Lab Sample ID: 500-256054-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	4.2		0.43		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.49		0.22		mg/Kg	1	☼	6010D	Total/NA
Calcium	170000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	150		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.7		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	24		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	44000		22		mg/Kg	1	☼	6010D	Total/NA
Lead	43		0.54		mg/Kg	1	☼	6010D	Total/NA
Magnesium	30000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	6600		5.4		mg/Kg	5	☼	6010D	Total/NA
Nickel	18		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1100		54		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	680		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	35		5.4		mg/Kg	5	☼	6010D	Total/NA
Vanadium	51		0.54		mg/Kg	1	☼	6010D	Total/NA
Zinc	120		2.2		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	1.9		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	9.84		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB21 (12.5-15)
Lab Sample ID: 500-256054-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.024		0.015	0.010	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.091		0.030	0.014	mg/Kg	50	☼	8260D	Total/NA
Acenaphthene	0.16		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.070	J	0.072	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.21		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.17		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.18		0.072	0.070	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.093		0.072	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.29		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.36		0.072	0.019	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.18		0.072	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.22		0.072	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.093		0.072	0.071	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.93		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	1.1		0.072	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.66		0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.067	J	0.37	0.026	mg/Kg	2	☼	8270E	Total/NA
Gasoline Range Organics (C6-C9)	13		1.2		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	2100		180		mg/Kg	20	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	2200		360		mg/Kg	20	☼	8015D	Total/NA
Aluminum	7400		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.3		0.99		mg/Kg	1	☼	6010D	Total/NA
Barium	710		0.99		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.9		0.40		mg/Kg	1	☼	6010D	Total/NA
Calcium	35000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	2.8		0.99		mg/Kg	1	☼	6010D	Total/NA
Copper	2.8		0.99		mg/Kg	1	☼	6010D	Total/NA
Iron	8600		20		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB21 (12.5-15) (Continued) — Lab Sample ID: 500-256054-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.9		0.50		mg/Kg	1	☼	6010D	Total/NA
Magnesium	20000		9.9		mg/Kg	1	☼	6010D	Total/NA
Manganese	660		0.99		mg/Kg	1	☼	6010D	Total/NA
Nickel	2.7		0.99		mg/Kg	1	☼	6010D	Total/NA
Potassium	560		50		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.2		0.99		mg/Kg	1	☼	6010D	Total/NA
Sodium	220		99		mg/Kg	1	☼	6010D	Total/NA
Thallium	3.3		0.99		mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.5		0.50		mg/Kg	1	☼	6010D	Total/NA
Zinc	17		2.0		mg/Kg	1	☼	6010D	Total/NA
Sulfide	240		34		mg/Kg	1	☼	9034	Total/NA
pH	8.95		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB22 (0-3) — Lab Sample ID: 500-256054-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.076		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.058	J	0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.11		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.17		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.21		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.22		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.17		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.087		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.31		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.33		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.12		0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.071	0.070	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.051	J	0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.44		0.071	0.020	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.043	J	0.36	0.026	mg/Kg	2	☼	8270E	Total/NA
Aluminum	11000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.5		0.95		mg/Kg	1	☼	6010D	Total/NA
Barium	110		0.95		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.3		0.38		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.57		0.19		mg/Kg	1	☼	6010D	Total/NA
Calcium	39000		19		mg/Kg	1	☼	6010D	Total/NA
Chromium	18		0.95		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.8		0.47		mg/Kg	1	☼	6010D	Total/NA
Copper	18		0.95		mg/Kg	1	☼	6010D	Total/NA
Iron	42000		19		mg/Kg	1	☼	6010D	Total/NA
Lead	54		0.47		mg/Kg	1	☼	6010D	Total/NA
Magnesium	23000		9.5		mg/Kg	1	☼	6010D	Total/NA
Manganese	910		0.95		mg/Kg	1	☼	6010D	Total/NA
Nickel	18		0.95		mg/Kg	1	☼	6010D	Total/NA
Potassium	1600		47		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.1		0.95		mg/Kg	1	☼	6010D	Total/NA
Sodium	360		95		mg/Kg	1	☼	6010D	Total/NA
Thallium	3.6		0.95		mg/Kg	1	☼	6010D	Total/NA
Vanadium	14		0.47		mg/Kg	1	☼	6010D	Total/NA
Zinc	470		1.9		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB22 (0-3) (Continued) — Lab Sample ID: 500-256054-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.044		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.1		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	8.43		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB22 (10-12.5) — Lab Sample ID: 500-256054-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0026	J	0.0043	0.00079	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.036		0.035	0.0071	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.014	J	0.035	0.0059	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.059		0.035	0.0081	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.022	J	0.035	0.010	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.073		0.035	0.0095	mg/Kg	1	☼	8270E	Total/NA
Aluminum	1600		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.1		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	4.8		1.0		mg/Kg	1	☼	6010D	Total/NA
Calcium	42000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	5.6		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.6		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	4.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	7700		20		mg/Kg	1	☼	6010D	Total/NA
Lead	2.1		0.51		mg/Kg	1	☼	6010D	Total/NA
Magnesium	23000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	260		1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	5.8		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	300		51		mg/Kg	1	☼	6010D	Total/NA
Sodium	110		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	12		0.51		mg/Kg	1	☼	6010D	Total/NA
Zinc	18		2.0		mg/Kg	1	☼	6010D	Total/NA
pH	8.42		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB23 (0-3) — Lab Sample ID: 500-256054-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.0012	J	0.0022	0.00090	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0016	J	0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.024	J	0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.048		0.035	0.0060	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.087		0.035	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.31		0.035	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.36		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.50		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.23		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.22		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.36		0.035	0.0094	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.060		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.56		0.035	0.0082	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.020	J	0.035	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.26		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.041		0.035	0.0064	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.44		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB23 (0-3) (Continued) — Lab Sample ID: 500-256054-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.49		0.035	0.0097	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.060	J	0.072	0.0071	mg/Kg	1	☼	8270E	Total/NA
3 & 4 Methylphenol	0.034	J	0.18	0.026	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.032	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.043	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Phenol	0.047	J	0.18	0.015	mg/Kg	1	☼	8270E	Total/NA
PCB-1254	0.034		0.018		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.034		0.018		mg/Kg	1	☼	8082A	Total/NA
Aluminum	7600		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.8		0.95		mg/Kg	1	☼	6010D	Total/NA
Barium	87		0.95		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.3		0.38		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.55		0.19		mg/Kg	1	☼	6010D	Total/NA
Calcium	46000		19		mg/Kg	1	☼	6010D	Total/NA
Chromium	47		0.95		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.4		0.47		mg/Kg	1	☼	6010D	Total/NA
Copper	41		0.95		mg/Kg	1	☼	6010D	Total/NA
Iron	47000		19		mg/Kg	1	☼	6010D	Total/NA
Lead	93		0.47		mg/Kg	1	☼	6010D	Total/NA
Magnesium	16000		9.5		mg/Kg	1	☼	6010D	Total/NA
Manganese	1400		0.95		mg/Kg	1	☼	6010D	Total/NA
Nickel	22		0.95		mg/Kg	1	☼	6010D	Total/NA
Potassium	1200		47		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.4		0.95		mg/Kg	1	☼	6010D	Total/NA
Sodium	350		95		mg/Kg	1	☼	6010D	Total/NA
Thallium	6.5		0.95		mg/Kg	1	☼	6010D	Total/NA
Vanadium	39		0.47		mg/Kg	1	☼	6010D	Total/NA
Zinc	160		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.080		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.93		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	8.55		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB23 (5-7.5) — Lab Sample ID: 500-256054-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0074		0.0049	0.0022	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.081		0.020	0.0083	mg/Kg	1	☼	8260D	Total/NA
Methylene Chloride	0.0033	J	0.0049	0.0021	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00050	J	0.0020	0.00040	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.094		0.034	0.0071	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.025	J	0.034	0.0059	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.24		0.034	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.63		0.034	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.62		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.82		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.41		0.034	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.33		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.77		0.034	0.0091	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.11		0.034	0.034	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	1.4		0.034	0.0081	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.086		0.034	0.010	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB23 (5-7.5) (Continued)
Lab Sample ID: 500-256054-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.38		0.034	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.041		0.034	0.0063	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	1.0		0.034	0.0075	mg/Kg	1	☼	8270E	Total/NA
Pyrene	1.1		0.034	0.0095	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.045	J	0.070	0.0070	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.11	J	0.17	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.054	J	0.17	0.012	mg/Kg	1	☼	8270E	Total/NA
PCB-1260	0.13		0.018		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.13		0.018		mg/Kg	1	☼	8082A	Total/NA
Aluminum	5900		20		mg/Kg	1	☼	6010D	Total/NA
Barium	100		5.1		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.4		2.0		mg/Kg	5	☼	6010D	Total/NA
Cadmium	2.9		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	96000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	160		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	7.9		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	70		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	160000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	280		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	22000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	1900		1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	65		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	270		51		mg/Kg	1	☼	6010D	Total/NA
Sodium	160		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	14		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	31		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	660		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.12		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.82		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	9.62		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256054-1	SB17 (0-3)	Solid	08/30/24 09:08	09/03/24 11:50
500-256054-2	SB17 (5-7.5)	Solid	08/30/24 09:18	09/03/24 11:50
500-256054-3	SB18 (0-3)	Solid	08/30/24 10:04	09/03/24 11:50
500-256054-4	SB18 (7.5-10)	Solid	08/30/24 10:20	09/03/24 11:50
500-256054-5	SB19 (0-3)	Solid	08/30/24 11:08	09/03/24 11:50
500-256054-6	SB19 (5-7.5)	Solid	08/30/24 11:21	09/03/24 11:50
500-256054-7	SB20 (0-3)	Solid	08/30/24 12:09	09/03/24 11:50
500-256054-8	SB20 (3-5)	Solid	08/30/24 12:14	09/03/24 11:50
500-256054-9	SB21 (0-3)	Solid	08/30/24 13:00	09/03/24 11:50
500-256054-10	SB21 (12.5-15)	Solid	08/30/24 13:29	09/03/24 11:50
500-256054-11	SB22 (0-3)	Solid	08/30/24 14:04	09/03/24 11:50
500-256054-12	SB22 (10-12.5)	Solid	08/30/24 14:22	09/03/24 11:50
500-256054-13	SB23 (0-3)	Solid	08/30/24 15:09	09/03/24 11:50
500-256054-14	SB23 (5-7.5)	Solid	08/30/24 15:17	09/03/24 11:50

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB17 (0-3)
Lab Sample ID: 500-256054-1
Date Collected: 08/30/24 09:08
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 89.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.028	*+	0.062	0.028	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
1,1,2,2-Tetrachloroethane	<0.040		0.062	0.040	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
1,1,2-Trichloroethane	<0.045		0.062	0.045	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
1,1-Dichloroethane	<0.023		0.062	0.023	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
1,1-Dichloroethene	<0.030		0.062	0.030	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
1,2-Dichloroethane	<0.036	*+	0.062	0.036	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
1,2-Dichloropropane	<0.023		0.062	0.023	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
2-Butanone (MEK)	<0.19		0.31	0.19	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
2-Hexanone	<0.18		0.31	0.18	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
4-Methyl-2-pentanone (MIBK)	<0.17		0.31	0.17	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Acetone	<0.45		0.62	0.45	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Benzene	<0.0076		0.016	0.0076	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Bromodichloromethane	<0.035		0.062	0.035	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Bromoform	<0.060		0.062	0.060	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Bromomethane	<0.11		0.19	0.11	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Carbon disulfide	<0.067		0.12	0.067	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Carbon tetrachloride	<0.026	*+	0.062	0.026	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Chlorobenzene	<0.026		0.062	0.026	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Chloroethane	<0.029		0.31	0.029	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Chloroform	<0.057		0.12	0.057	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Chloromethane	<0.049		0.31	0.049	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
cis-1,2-Dichloroethene	<0.026		0.062	0.026	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
1,3-Dichloropropene, Total	<0.039		0.062	0.039	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Dibromochloromethane	<0.051		0.062	0.051	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Ethylbenzene	<0.011		0.016	0.011	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Methyl tert-butyl ether	<0.027		0.062	0.027	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Methylene Chloride	<0.13		0.31	0.13	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Styrene	<0.019		0.062	0.019	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Tetrachloroethene	<0.024		0.062	0.024	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Toluene	<0.013		0.016	0.013	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Xylenes, Total	**0.046**		0.031	0.015	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
trans-1,2-Dichloroethene	<0.027		0.062	0.027	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Trichloroethene	<0.0092		0.031	0.0092	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50
Vinyl chloride	<0.029		0.062	0.029	mg/Kg	☼	08/30/24 09:08	09/12/24 14:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 126*	*08/30/24 09:08*	*09/12/24 14:34*	*50*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*	*08/30/24 09:08*	*09/12/24 14:34*	*50*
Dibromofluoromethane	*98*		*75 - 120*	*08/30/24 09:08*	*09/12/24 14:34*	*50*
Toluene-d8 (Surr)	*85*		*75 - 120*	*08/30/24 09:08*	*09/12/24 14:34*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075	F1 F2	0.037	0.0075	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Acenaphthylene	**0.23**	**F1 F2**	0.037	0.0062	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Anthracene	**0.26**	**F1**	0.037	0.0075	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Benzo[a]anthracene	**0.41**	**F1**	0.037	0.0078	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Benzo[a]pyrene	**0.60**	**F1 F2**	0.037	0.035	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Benzo[b]fluoranthene	**1.1**	**F1 F2**	0.037	0.035	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Benzo[g,h,i]perylene	**0.44**	**F1 F2**	0.037	0.0080	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB17 (0-3)
Lab Sample ID: 500-256054-1
Date Collected: 08/30/24 09:08
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.39**	**F1**	0.037	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Chrysene	**0.62**	**F1**	0.037	0.0097	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Dibenz(a,h)anthracene	**0.14**	**F1 F2**	0.037	0.037	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Fluoranthene	**0.51**		0.037	0.0085	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Fluorene	**0.022**	**J F1**	0.037	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Indeno[1,2,3-cd]pyrene	**0.48**	**F1 F2**	0.037	0.036	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Naphthalene	**0.038**	**F1 F2**	0.037	0.0066	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Phenanthrene	**0.25**	**F1**	0.037	0.0080	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Pyrene	**0.70**	**F1**	0.037	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
1,2,4-Trichlorobenzene	<0.026	F1 F2	0.18	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
1,2-Dichlorobenzene	<0.015	F1 F2	0.18	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
1,3-Dichlorobenzene	<0.017	F1 F2	0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
1,4-Dichlorobenzene	<0.017	F1 F2	0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2,4,6-Trichlorophenol	<0.013	F1 F2	0.37	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2,4-Dichlorophenol	<0.013	F1 F2	0.37	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2,4-Dimethylphenol	<0.082	F1 F2	0.37	0.082	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2,4-Dinitrophenol	<0.21	F1	0.74	0.21	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2,4-Dinitrotoluene	<0.021	F1	0.18	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2,6-Dinitrotoluene	<0.013	F1	0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2-Chloronaphthalene	<0.014	F1 F2	0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2-Chlorophenol	<0.012	F1 F2	0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2-Methylnaphthalene	**0.054**	**J F1 F2**	0.074	0.0074	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2-Methylphenol	<0.019	F1 F2	0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
2-Nitrophenol	<0.025	F1 F2	0.37	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
3,3'-Dichlorobenzidine	<0.030	F1 F2	0.18	0.030	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
3 & 4 Methylphenol	<0.027	F1 F2	0.18	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
4,6-Dinitro-2-methylphenol	<0.21	F1 F2	0.74	0.21	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
4-Bromophenyl phenyl ether	<0.025	F1	0.18	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
4-Chloro-3-methylphenol	<0.014	F1	0.37	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
4-Chloroaniline	<0.39	F2	0.74	0.39	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
4-Chlorophenyl phenyl ether	<0.048	F1	0.18	0.048	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
4-Nitroaniline	<0.027	F1	0.37	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Bis(2-chloroethoxy)methane	<0.014	F1 F2	0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Bis(2-chloroethyl)ether	<0.017	F1 F2	0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
bis(chloroisopropyl) ether	<0.026	F2	0.18	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Butyl benzyl phthalate	<0.018	F1	0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Carbazole	**0.091**	**J F1**	0.18	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Dibenzofuran	**0.025**	**J F1**	0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Dimethyl phthalate	<0.0080	F1	0.18	0.0080	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Hexachlorobenzene	<0.0070	F1	0.074	0.0070	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Hexachlorobutadiene	<0.021	F1 F2	0.18	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1

Client Sample ID: SB17 (0-3)
Date Collected: 08/30/24 09:08
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-1
Matrix: Solid
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39	F1	0.74	0.39	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Hexachloroethane	<0.018	F1 F2	0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Isophorone	<0.019	F1 F2	0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Nitrobenzene	<0.012	F1 F2	0.037	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
N-Nitrosodi-n-propylamine	<0.0073	F1 F2	0.074	0.0073	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
N-Nitrosodiphenylamine	<0.022	F1	0.18	0.022	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Pentachlorophenol	<0.092	F2	0.74	0.092	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1
Phenol	<0.016	F1 F2	0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*31 - 166*	*09/13/24 07:16*	*09/16/24 19:59*	*1*
Phenol-d5 (Surr)	*63*		*30 - 153*	*09/13/24 07:16*	*09/16/24 19:59*	*1*
Nitrobenzene-d5 (Surr)	*68*		*37 - 147*	*09/13/24 07:16*	*09/16/24 19:59*	*1*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/13/24 07:16*	*09/16/24 19:59*	*1*
2,4,6-Tribromophenol (Surr)	*53*		*31 - 143*	*09/13/24 07:16*	*09/16/24 19:59*	*1*
Terphenyl-d14 (Surr)	*70*		*42 - 157*	*09/13/24 07:16*	*09/16/24 19:59*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0050		0.0094	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
4,4'-DDE	<0.0048		0.0094	0.0048	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
4,4'-DDT	<0.0044		0.0094	0.0044	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
Aldrin	<0.0065		0.0094	0.0065	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
alpha-BHC	<0.0053		0.0094	0.0053	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
alpha-Chlordane	<0.0050		0.0094	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
beta-BHC	<0.0075		0.0094	0.0075	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
Chlordane (technical)	<0.018		0.037	0.018	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
delta-BHC	<0.018		0.038	0.018	mg/Kg	☼	09/12/24 17:29	09/18/24 18:41	20
Dieldrin	<0.0049		0.0094	0.0049	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
Endosulfan I	<0.0050		0.0094	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
Endosulfan II	<0.0051		0.0094	0.0051	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
Endosulfan sulfate	<0.021		0.038	0.021	mg/Kg	☼	09/12/24 17:29	09/18/24 18:41	20
Endrin	<0.0048		0.0094	0.0048	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
Endrin aldehyde	<0.021		0.038	0.021	mg/Kg	☼	09/12/24 17:29	09/18/24 18:41	20
Endrin ketone	<0.0045		0.0094	0.0045	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
gamma-BHC (Lindane)	<0.0046		0.0094	0.0046	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
gamma-Chlordane	<0.0054	F1 F2	0.0094	0.0054	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
Heptachlor	<0.0051		0.0094	0.0051	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
Heptachlor epoxide	<0.0050	F2	0.0094	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
Methoxychlor	<0.0061	F1 F2	0.046	0.0061	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5
Toxaphene	<0.037		0.092	0.037	mg/Kg	☼	09/12/24 17:29	09/18/24 18:30	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*265*	*S1+*	*33 - 148*	*09/12/24 17:29*	*09/18/24 18:30*	*5*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/12/24 17:29*	*09/18/24 18:41*	*20*
Tetrachloro-m-xylene	*63*		*30 - 121*	*09/12/24 17:29*	*09/18/24 18:30*	*5*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/12/24 17:29*	*09/18/24 18:41*	*20*

Client Sample ID: SB17 (0-3)
Date Collected: 08/30/24 09:08
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-1
Matrix: Solid
Percent Solids: 89.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 15:11	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 15:11	10
PCB-1232	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 15:11	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 15:11	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 15:11	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 15:11	10
PCB-1260	<0.18	F1	0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 15:11	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 15:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*49 - 129*	*09/12/24 17:29*	*09/18/24 15:11*	*10*
DCB Decachlorobiphenyl	*103*		*37 - 121*	*09/12/24 17:29*	*09/18/24 15:11*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		19		mg/Kg	☼	09/16/24 14:54	09/17/24 22:36	1
Antimony	<9.5	F1 F2	9.5		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Arsenic	<4.8	F1 F2	4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Barium	**220**		4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Beryllium	**3.1**		1.9		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Cadmium	**1.4**		0.95		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Calcium	**74000**		95		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Chromium	**43**	**F1 F2**	0.95		mg/Kg	☼	09/16/24 14:54	09/17/24 22:36	1
Cobalt	**7.0**		0.48		mg/Kg	☼	09/16/24 14:54	09/17/24 22:36	1
Copper	**35**		4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Iron	**140000**		95		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Lead	**200**		2.4		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Magnesium	**7600**	**F2**	9.5		mg/Kg	☼	09/16/24 14:54	09/17/24 22:36	1
Manganese	**7300**		4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Nickel	**17**		4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Potassium	**620**		48		mg/Kg	☼	09/16/24 14:54	09/17/24 22:36	1
Selenium	<4.8		4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Silver	<2.4		2.4		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Sodium	**360**		95		mg/Kg	☼	09/16/24 14:54	09/17/24 22:36	1
Thallium	**39**	**F1**	4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Vanadium	**43**	**F1 F2**	2.4		mg/Kg	☼	09/16/24 14:54	09/18/24 11:44	5
Zinc	**240**		1.9		mg/Kg	☼	09/16/24 14:54	09/17/24 22:36	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.073**		0.018		mg/Kg	☼	09/18/24 16:35	09/19/24 06:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.9**		0.25		mg/Kg	☼	09/03/24 16:00	09/04/24 11:29	1
pH (SW846 9045D)	**9.33**		0.20		SU			09/05/24 16:32	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB17 (5-7.5)
Date Collected: 08/30/24 09:18
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-2
Matrix: Solid
Percent Solids: 86.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0026	0.0010	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0026	0.0013	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
1,1,2-Trichloroethane	<0.00097		0.0026	0.00097	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
1,1-Dichloroethane	<0.00098		0.0026	0.00098	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
1,1-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
1,2-Dichloroethane	<0.0017		0.0065	0.0017	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
1,2-Dichloropropane	<0.00067		0.0026	0.00067	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
2-Butanone (MEK)	<0.0028		0.0065	0.0028	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
2-Hexanone	<0.0039		0.0065	0.0039	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0065	0.0046	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Acetone	<0.011		0.026	0.011	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Benzene	<0.00081		0.0026	0.00081	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Bromodichloromethane	<0.00083		0.0026	0.00083	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Bromoform	<0.0015		0.0026	0.0015	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Bromomethane	<0.0032		0.0065	0.0032	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Carbon disulfide	<0.0012		0.0065	0.0012	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Carbon tetrachloride	<0.00088		0.0026	0.00088	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Chlorobenzene	<0.0011		0.0026	0.0011	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Chloroethane	<0.0021		0.0065	0.0021	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Chloroform	<0.0019		0.0026	0.0019	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Chloromethane	<0.0013		0.0065	0.0013	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
cis-1,2-Dichloroethene	<0.0010		0.0026	0.0010	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
1,3-Dichloropropene, Total	<0.0012		0.0026	0.0012	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Dibromochloromethane	<0.0012		0.0026	0.0012	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Ethylbenzene	<0.0014		0.0026	0.0014	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Methyl tert-butyl ether	<0.00084		0.0026	0.00084	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Methylene Chloride	<0.0028		0.0065	0.0028	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Styrene	<0.0012		0.0026	0.0012	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Tetrachloroethene	<0.0015		0.0026	0.0015	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Toluene	<0.00052		0.0026	0.00052	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Xylenes, Total	<0.00089		0.0052	0.00089	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
trans-1,2-Dichloroethene	<0.00098		0.0026	0.00098	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Trichloroethene	<0.00070		0.0026	0.00070	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1
Vinyl chloride	<0.0011		0.0026	0.0011	mg/Kg	☼	08/30/24 09:18	09/10/24 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*08/30/24 09:18*	*09/10/24 11:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*	*08/30/24 09:18*	*09/10/24 11:55*	*1*
Dibromofluoromethane	*97*		*75 - 126*	*08/30/24 09:18*	*09/10/24 11:55*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*08/30/24 09:18*	*09/10/24 11:55*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0077		0.038	0.0077	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Acenaphthylene	<0.0064		0.038	0.0064	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Anthracene	<0.0077		0.038	0.0077	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Benzo[a]anthracene	<0.0080		0.038	0.0080	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Benzo[a]pyrene	<0.037		0.038	0.037	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Benzo[b]fluoranthene	<0.036		0.038	0.036	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Benzo[g,h,i]perylene	<0.0082		0.038	0.0082	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB17 (5-7.5)
Lab Sample ID: 500-256054-2
Date Collected: 08/30/24 09:18
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 86.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.014		0.038	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Chrysene	<0.010		0.038	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Fluoranthene	<0.0088		0.038	0.0088	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Fluorene	<0.011		0.038	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Indeno[1,2,3-cd]pyrene	<0.037		0.038	0.037	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Naphthalene	<0.0069		0.038	0.0069	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Phenanthrene	<0.0082		0.038	0.0082	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Pyrene	<0.010		0.038	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2,4,5-Trichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2,4,6-Trichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2,4-Dichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2,4-Dimethylphenol	<0.085		0.38	0.085	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2,4-Dinitrophenol	<0.22		0.77	0.22	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2,4-Dinitrotoluene	<0.022		0.19	0.022	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2-Methylnaphthalene	<0.0076		0.077	0.0076	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
2-Nitrophenol	<0.026		0.38	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
3 & 4 Methylphenol	<0.028		0.19	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
3-Nitroaniline	<0.017		0.38	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
4,6-Dinitro-2-methylphenol	<0.21		0.77	0.21	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
4-Chloro-3-methylphenol	<0.015		0.38	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
4-Chloroaniline	<0.40		0.77	0.40	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
4-Chlorophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
4-Nitroaniline	<0.028		0.38	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
4-Nitrophenol	<0.14		0.77	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Dibenzofuran	<0.013		0.19	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Dimethyl phthalate	<0.0082		0.19	0.0082	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Di-n-octyl phthalate	<0.26		0.38	0.26	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Hexachlorobenzene	<0.0073		0.077	0.0073	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB17 (5-7.5)
Lab Sample ID: 500-256054-2
Date Collected: 08/30/24 09:18
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 86.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.40		0.77	0.40	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Isophorone	<0.020		0.19	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Nitrobenzene	<0.012		0.038	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
N-Nitrosodi-n-propylamine	<0.0075		0.077	0.0075	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Pentachlorophenol	<0.095		0.77	0.095	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1
Phenol	<0.016		0.19	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*63*		*31 - 166*	*09/13/24 07:16*	*09/16/24 14:44*	*1*
Phenol-d5 (Surr)	*65*		*30 - 153*	*09/13/24 07:16*	*09/16/24 14:44*	*1*
Nitrobenzene-d5 (Surr)	*68*		*37 - 147*	*09/13/24 07:16*	*09/16/24 14:44*	*1*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*09/13/24 07:16*	*09/16/24 14:44*	*1*
2,4,6-Tribromophenol (Surr)	*45*		*31 - 143*	*09/13/24 07:16*	*09/16/24 14:44*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*09/13/24 07:16*	*09/16/24 14:44*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
4,4'-DDE	<0.00099		0.0019	0.00099	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
4,4'-DDT	<0.00091		0.0019	0.00091	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Aldrin	<0.0013		0.0019	0.0013	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
alpha-BHC	<0.0011		0.0019	0.0011	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
alpha-Chlordane	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
beta-BHC	<0.0016		0.0019	0.0016	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Chlordane (technical)	<0.0037		0.0076	0.0037	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
delta-BHC	<0.00092		0.0019	0.00092	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Dieldrin	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Endosulfan I	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Endosulfan II	<0.0011		0.0019	0.0011	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Endosulfan sulfate	<0.0011		0.0019	0.0011	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Endrin	<0.00098		0.0019	0.00098	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Endrin aldehyde	<0.0011		0.0019	0.0011	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Endrin ketone	<0.00094		0.0019	0.00094	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
gamma-BHC (Lindane)	<0.00096		0.0019	0.00096	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
gamma-Chlordane	<0.0011		0.0019	0.0011	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Heptachlor	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Heptachlor epoxide	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Methoxychlor	<0.0013		0.0095	0.0013	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1
Toxaphene	<0.0077		0.019	0.0077	mg/Kg	☼	09/12/24 17:29	09/17/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*33 - 148*	*09/12/24 17:29*	*09/17/24 17:41*	*1*
Tetrachloro-m-xylene	*83*		*30 - 121*	*09/12/24 17:29*	*09/17/24 17:41*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	09/12/24 17:29	09/17/24 21:48	1
PCB-1221	<0.019		0.019		mg/Kg	☼	09/12/24 17:29	09/17/24 21:48	1

Client Sample ID: SB17 (5-7.5)
Date Collected: 08/30/24 09:18
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-2
Matrix: Solid
Percent Solids: 86.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.019		0.019		mg/Kg	☼	09/12/24 17:29	09/17/24 21:48	1
PCB-1242	<0.019		0.019		mg/Kg	☼	09/12/24 17:29	09/17/24 21:48	1
PCB-1248	<0.019		0.019		mg/Kg	☼	09/12/24 17:29	09/17/24 21:48	1
PCB-1254	<0.019		0.019		mg/Kg	☼	09/12/24 17:29	09/17/24 21:48	1
PCB-1260	<0.019		0.019		mg/Kg	☼	09/12/24 17:29	09/17/24 21:48	1
Polychlorinated biphenyls, Total	<0.019		0.019		mg/Kg	☼	09/12/24 17:29	09/17/24 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*	*S1-*	*49 - 129*	*09/12/24 17:29*	*09/17/24 21:48*	*1*
DCB Decachlorobiphenyl	*52*		*37 - 121*	*09/12/24 17:29*	*09/17/24 21:48*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7900**		22		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Antimony	<2.2		2.2		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Arsenic	**2.1**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Barium	**69**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Beryllium	**1.6**		0.44		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Cadmium	<0.22		0.22		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Calcium	**61000**		22		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Chromium	**5.4**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Cobalt	**2.1**		0.55		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Copper	**2.8**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Iron	**3700**		22		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Lead	**2.7**		0.55		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Magnesium	**20000**		11		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Manganese	**180**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Nickel	**4.5**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Potassium	**590**		55		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Selenium	<1.1		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Silver	<0.55		0.55		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Sodium	**240**		110		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Thallium	**1.3**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Vanadium	**12**		0.55		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1
Zinc	**15**		2.2		mg/Kg	☼	09/16/24 14:54	09/17/24 23:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/18/24 16:35	09/19/24 07:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.31**		0.27		mg/Kg	☼	09/03/24 16:00	09/04/24 11:30	1
pH (SW846 9045D)	**9.87**		0.20		SU			09/05/24 16:34	1

Client Sample ID: SB18 (0-3)
Date Collected: 08/30/24 10:04
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-3
Matrix: Solid
Percent Solids: 90.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.025	*+	0.056	0.025	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
1,1,2,2-Tetrachloroethane	<0.036		0.056	0.036	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
1,1,2-Trichloroethane	<0.041		0.056	0.041	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
1,1-Dichloroethane	<0.021		0.056	0.021	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
1,1-Dichloroethene	<0.027		0.056	0.027	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
1,2-Dichloroethane	<0.033	*+	0.056	0.033	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
1,2-Dichloropropane	<0.021		0.056	0.021	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
2-Butanone (MEK)	<0.17		0.28	0.17	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
2-Hexanone	<0.17		0.28	0.17	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
4-Methyl-2-pentanone (MIBK)	<0.15		0.28	0.15	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Acetone	<0.41		0.56	0.41	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Benzene	**0.016**		0.014	0.0069	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Bromodichloromethane	<0.032		0.056	0.032	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Bromoform	<0.054		0.056	0.054	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Bromomethane	<0.10		0.17	0.10	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Carbon disulfide	<0.061		0.11	0.061	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Carbon tetrachloride	<0.023	*+	0.056	0.023	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Chlorobenzene	<0.023		0.056	0.023	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Chloroethane	<0.027		0.28	0.027	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Chloroform	<0.052		0.11	0.052	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Chloromethane	<0.044		0.28	0.044	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
cis-1,2-Dichloroethene	<0.023		0.056	0.023	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
1,3-Dichloropropene, Total	<0.036		0.056	0.036	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Dibromochloromethane	<0.047		0.056	0.047	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Ethylbenzene	**0.026**		0.014	0.0097	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Methyl tert-butyl ether	<0.024		0.056	0.024	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Methylene Chloride	<0.12		0.28	0.12	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Styrene	**0.051**	**J**	0.056	0.017	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Tetrachloroethene	<0.022		0.056	0.022	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Toluene	**0.069**		0.014	0.012	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Xylenes, Total	**0.13**		0.028	0.013	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
trans-1,2-Dichloroethene	<0.025		0.056	0.025	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Trichloroethene	<0.0084		0.028	0.0084	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50
Vinyl chloride	<0.027		0.056	0.027	mg/Kg	☼	08/30/24 10:04	09/12/24 14:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*	*08/30/24 10:04*	*09/12/24 14:59*	*50*
4-Bromofluorobenzene (Surr)	*85*		*72 - 124*	*08/30/24 10:04*	*09/12/24 14:59*	*50*
Dibromofluoromethane	*96*		*75 - 120*	*08/30/24 10:04*	*09/12/24 14:59*	*50*
Toluene-d8 (Surr)	*87*		*75 - 120*	*08/30/24 10:04*	*09/12/24 14:59*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.14**		0.036	0.0073	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Acenaphthylene	**0.45**		0.036	0.0061	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Anthracene	**0.85**		0.036	0.0074	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Benzo[a]anthracene	**4.5**		0.036	0.0077	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Benzo[a]pyrene	**4.0**		0.036	0.035	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Benzo[b]fluoranthene	**6.1**		0.036	0.034	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Benzo[g,h,i]perylene	**2.7**		0.036	0.0078	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB18 (0-3)
Lab Sample ID: 500-256054-3
Date Collected: 08/30/24 10:04
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 90.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**2.1**		0.036	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Chrysene	**5.5**		0.036	0.0095	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Dibenz(a,h)anthracene	**0.88**		0.036	0.036	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Fluorene	**0.23**		0.036	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Indeno[1,2,3-cd]pyrene	**2.9**		0.036	0.035	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Naphthalene	**0.31**		0.036	0.0065	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Phenanthrene	**6.6**		0.036	0.0079	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Pyrene	**9.3**		0.036	0.0099	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2,4-Dimethylphenol	<0.081		0.36	0.081	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2-Methylnaphthalene	**0.19**		0.073	0.0072	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
2-Nitrophenol	<0.024		0.36	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
3-Nitroaniline	<0.016		0.36	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Carbazole	**0.33**		0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Dibenzofuran	**0.23**		0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Dimethyl phthalate	**0.25**		0.18	0.0078	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Hexachlorobenzene	<0.0069		0.073	0.0069	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Hexachlorocyclopentadiene	<0.38		0.73	0.38	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB18 (0-3)
Lab Sample ID: 500-256054-3
Date Collected: 08/30/24 10:04
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 90.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
N-Nitrosodi-n-propylamine	<0.0071		0.073	0.0071	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Pentachlorophenol	<0.090		0.73	0.090	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*34*		*31 - 166*	*09/13/24 07:16*	*09/16/24 15:08*	*1*
Phenol-d5 (Surr)	*66*		*30 - 153*	*09/13/24 07:16*	*09/16/24 15:08*	*1*
Nitrobenzene-d5 (Surr)	*71*		*37 - 147*	*09/13/24 07:16*	*09/16/24 15:08*	*1*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/13/24 07:16*	*09/16/24 15:08*	*1*
2,4,6-Tribromophenol (Surr)	*4*	*S1-*	*31 - 143*	*09/13/24 07:16*	*09/16/24 15:08*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*09/13/24 07:16*	*09/16/24 15:08*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**11**		0.72	0.17	mg/Kg	☼	09/13/24 07:16	09/17/24 14:11	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*0*	*S1-*	*31 - 166*	*09/13/24 07:16*	*09/17/24 14:11*	*20*
Phenol-d5 (Surr)	*0*	*S1-*	*30 - 153*	*09/13/24 07:16*	*09/17/24 14:11*	*20*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*37 - 147*	*09/13/24 07:16*	*09/17/24 14:11*	*20*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*43 - 145*	*09/13/24 07:16*	*09/17/24 14:11*	*20*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/13/24 07:16*	*09/17/24 14:11*	*20*
Terphenyl-d14 (Surr)	*0*	*S1-*	*42 - 157*	*09/13/24 07:16*	*09/17/24 14:11*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
4,4'-DDE	<0.00096		0.0019	0.00096	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
4,4'-DDT	<0.00088		0.0019	0.00088	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
Aldrin	<0.0013		0.0019	0.0013	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
alpha-BHC	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
alpha-Chlordane	<0.00099		0.0019	0.00099	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
beta-BHC	<0.0015		0.0019	0.0015	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
Chlordane (technical)	<0.0035		0.0074	0.0035	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
delta-BHC	<0.00089		0.0019	0.00089	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
Dieldrin	<0.00097		0.0019	0.00097	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
Endosulfan I	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
Endosulfan II	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
Endosulfan sulfate	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
Endrin	<0.00095		0.0019	0.00095	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
Endrin aldehyde	<0.0011		0.0019	0.0011	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
Endrin ketone	<0.00090		0.0019	0.00090	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
gamma-BHC (Lindane)	<0.00092		0.0019	0.00092	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
gamma-Chlordane	<0.0011		0.0019	0.0011	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
Heptachlor	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
Heptachlor epoxide	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1

Client Sample ID: SB18 (0-3)
Lab Sample ID: 500-256054-3
Date Collected: 08/30/24 10:04
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 90.9

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.0012		0.0091	0.0012	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1
Toxaphene	<0.0074		0.018	0.0074	mg/Kg	☼	09/12/24 17:29	09/17/24 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*329*	*S1+*	*33 - 148*	*09/12/24 17:29*	*09/17/24 17:53*	*1*
Tetrachloro-m-xylene	*80*		*30 - 121*	*09/12/24 17:29*	*09/17/24 17:53*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:03	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:03	1
PCB-1232	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:03	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:03	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:03	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:03	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:03	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*09/12/24 17:29*	*09/17/24 22:03*	*1*
DCB Decachlorobiphenyl	*73*		*37 - 121*	*09/12/24 17:29*	*09/17/24 22:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5500**		19		mg/Kg	☼	09/16/24 14:54	09/17/24 23:12	1
Antimony	**2.9**		1.9		mg/Kg	☼	09/16/24 14:54	09/17/24 23:12	1
Arsenic	<4.8		4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Barium	**56**		4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Beryllium	<1.9		1.9		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Cadmium	<0.96		0.96		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Calcium	**180000**		96		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Chromium	**1200**		19		mg/Kg	☼	09/16/24 14:54	09/19/24 13:38	20
Cobalt	**4.8**		0.48		mg/Kg	☼	09/16/24 14:54	09/17/24 23:12	1
Copper	**30**		4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Iron	**99000**		96		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Lead	**76**		2.4		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Magnesium	**21000**		9.6		mg/Kg	☼	09/16/24 14:54	09/17/24 23:12	1
Manganese	**21000**		4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Nickel	**18**		4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Potassium	**390**		48		mg/Kg	☼	09/16/24 14:54	09/17/24 23:12	1
Selenium	**10**		4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Silver	<2.4		2.4		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Sodium	**220**		96		mg/Kg	☼	09/16/24 14:54	09/17/24 23:12	1
Thallium	**110**		4.8		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Vanadium	**670**		2.4		mg/Kg	☼	09/16/24 14:54	09/18/24 12:06	5
Zinc	**66**		1.9		mg/Kg	☼	09/16/24 14:54	09/17/24 23:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.083**		0.017		mg/Kg	☼	09/18/24 16:35	09/19/24 07:09	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB18 (0-3)
Lab Sample ID: 500-256054-3
Date Collected: 08/30/24 10:04
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 90.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	1.2		0.23		mg/Kg	☼	09/03/24 16:00	09/04/24 11:32	1
pH (SW846 9045D)	11.96		0.20		SU			09/05/24 16:36	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB18 (7.5-10)
Lab Sample ID: 500-256054-4
Date Collected: 08/30/24 10:20
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 86.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0025	0.0010	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
1,1,2,2-Tetrachloroethane	<0.0013	*3	0.0025	0.0013	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
1,1,2-Trichloroethane	<0.00094		0.0025	0.00094	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
1,1-Dichloroethane	<0.00095		0.0025	0.00095	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
1,2-Dichloroethane	<0.0016		0.0063	0.0016	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
1,2-Dichloropropane	<0.00065		0.0025	0.00065	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
2-Butanone (MEK)	<0.0028		0.0063	0.0028	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
2-Hexanone	<0.0038		0.0063	0.0038	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0063	0.0045	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Acetone	<0.011		0.025	0.011	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Benzene	<0.00079		0.0025	0.00079	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Bromodichloromethane	<0.00081		0.0025	0.00081	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Bromoform	<0.0015		0.0025	0.0015	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Bromomethane	<0.0031		0.0063	0.0031	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Carbon disulfide	**0.0027**	**J**	0.0063	0.0012	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Carbon tetrachloride	<0.00086		0.0025	0.00086	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Chlorobenzene	<0.0011		0.0025	0.0011	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Chloroethane	<0.0021		0.0063	0.0021	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Chloromethane	<0.0012		0.0063	0.0012	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
cis-1,2-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Dibromochloromethane	<0.0012		0.0025	0.0012	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Methyl tert-butyl ether	<0.00081		0.0025	0.00081	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Methylene Chloride	<0.0027		0.0063	0.0027	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Styrene	<0.0011		0.0025	0.0011	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Toluene	**0.0017**	**J**	0.0025	0.00051	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Xylenes, Total	**0.0016**	**J**	0.0050	0.00086	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
trans-1,2-Dichloroethene	<0.00095		0.0025	0.00095	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Trichloroethene	<0.00069		0.0025	0.00069	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	08/30/24 10:20	09/10/24 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*08/30/24 10:20*	*09/10/24 12:44*	*1*
4-Bromofluorobenzene (Surr)	*149*	*3 S1+	*75 - 131*	*08/30/24 10:20*	*09/10/24 12:44*	*1*
Dibromofluoromethane	*112*		*75 - 126*	*08/30/24 10:20*	*09/10/24 12:44*	*1*
Toluene-d8 (Surr)	*130*	*S1+	*75 - 124*	*08/30/24 10:20*	*09/10/24 12:44*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.015**	**J**	0.038	0.0078	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Acenaphthylene	**0.076**		0.038	0.0065	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Anthracene	**0.080**		0.038	0.0079	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Benzo[a]anthracene	**0.14**		0.038	0.0082	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Benzo[a]pyrene	**0.098**		0.038	0.037	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Benzo[b]fluoranthene	**0.19**		0.038	0.037	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Benzo[g,h,i]perylene	**0.087**		0.038	0.0083	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB18 (7.5-10)
Lab Sample ID: 500-256054-4
Date Collected: 08/30/24 10:20
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 86.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.069**		0.038	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Chrysene	**0.17**		0.038	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Fluoranthene	**0.34**		0.038	0.0089	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Fluorene	**0.031**	**J**	0.038	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Indeno[1,2,3-cd]pyrene	**0.084**		0.038	0.037	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Naphthalene	**0.057**		0.038	0.0070	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Phenanthrene	**0.47**		0.038	0.0084	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Pyrene	**0.25**		0.038	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
1,2-Dichlorobenzene	<0.016		0.19	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2,4,5-Trichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2,4,6-Trichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2,4-Dichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2,4-Dimethylphenol	<0.086		0.38	0.086	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2,4-Dinitrophenol	<0.22		0.78	0.22	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2,4-Dinitrotoluene	<0.022		0.19	0.022	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2-Methylnaphthalene	**0.088**		0.078	0.0077	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2-Nitroaniline	<0.021		0.19	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
2-Nitrophenol	<0.026		0.38	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
3 & 4 Methylphenol	<0.028		0.19	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
3-Nitroaniline	<0.017		0.38	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
4,6-Dinitro-2-methylphenol	<0.22		0.78	0.22	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
4-Chloro-3-methylphenol	<0.015		0.38	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
4-Chloroaniline	<0.40		0.78	0.40	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
4-Chlorophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
4-Nitroaniline	<0.028		0.38	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
4-Nitrophenol	<0.14		0.78	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Bis(2-chloroethyl)ether	<0.018		0.19	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
bis(chloroisopropyl) ether	<0.028		0.19	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Carbazole	**0.028**	**J**	0.19	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Dibenzofuran	**0.050**	**J**	0.19	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Diethyl phthalate	<0.018		0.19	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Dimethyl phthalate	<0.0084		0.19	0.0084	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Di-n-octyl phthalate	<0.27		0.38	0.27	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Hexachlorobenzene	<0.0074		0.078	0.0074	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Hexachlorobutadiene	<0.022		0.19	0.022	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1

Client Sample ID: SB18 (7.5-10)
Lab Sample ID: 500-256054-4
Date Collected: 08/30/24 10:20
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 86.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.41		0.78	0.41	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Isophorone	<0.020		0.19	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Nitrobenzene	<0.012		0.038	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
N-Nitrosodi-n-propylamine	<0.0076		0.078	0.0076	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
N-Nitrosodiphenylamine	<0.023		0.19	0.023	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Pentachlorophenol	<0.096		0.78	0.096	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1
Phenol	<0.017		0.19	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*47*		*31 - 166*	*09/13/24 07:16*	*09/16/24 15:32*	*1*
Phenol-d5 (Surr)	*57*		*30 - 153*	*09/13/24 07:16*	*09/16/24 15:32*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*09/13/24 07:16*	*09/16/24 15:32*	*1*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/13/24 07:16*	*09/16/24 15:32*	*1*
2,4,6-Tribromophenol (Surr)	*31*		*31 - 143*	*09/13/24 07:16*	*09/16/24 15:32*	*1*
Terphenyl-d14 (Surr)	*68*		*42 - 157*	*09/13/24 07:16*	*09/16/24 15:32*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00099		0.0019	0.00099	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
4,4'-DDE	<0.00095		0.0019	0.00095	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
4,4'-DDT	<0.00087		0.0019	0.00087	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Aldrin	<0.0013		0.0019	0.0013	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
alpha-BHC	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
alpha-Chlordane	<0.00098		0.0019	0.00098	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
beta-BHC	<0.0015		0.0019	0.0015	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Chlordane (technical)	<0.0035		0.0073	0.0035	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
delta-BHC	<0.00088		0.0019	0.00088	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Dieldrin	<0.00096		0.0019	0.00096	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Endosulfan I	<0.00099		0.0019	0.00099	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Endosulfan II	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Endosulfan sulfate	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Endrin	<0.00094		0.0019	0.00094	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Endrin aldehyde	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Endrin ketone	<0.00089		0.0019	0.00089	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
gamma-BHC (Lindane)	<0.00091		0.0019	0.00091	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
gamma-Chlordane	<0.0011		0.0019	0.0011	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Heptachlor	<0.00099		0.0019	0.00099	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Heptachlor epoxide	<0.00099		0.0019	0.00099	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Methoxychlor	<0.0012		0.0090	0.0012	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1
Toxaphene	<0.0073		0.018	0.0073	mg/Kg	☼	09/12/24 17:29	09/17/24 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*109*		*33 - 148*	*09/12/24 17:29*	*09/17/24 18:04*	*1*
Tetrachloro-m-xylene	*75*		*30 - 121*	*09/12/24 17:29*	*09/17/24 18:04*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:18	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:18	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256054-1

Client Sample ID: SB18 (7.5-10)

Date Collected: 08/30/24 10:20
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-4

Matrix: Solid
Percent Solids: 86.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:18	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:18	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:18	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:18	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:18	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*49 - 129*	*09/12/24 17:29*	*09/17/24 22:18*	*1*
DCB Decachlorobiphenyl	*69*		*37 - 121*	*09/12/24 17:29*	*09/17/24 22:18*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6700**		21		mg/Kg	☼	09/16/24 14:54	09/17/24 23:17	1
Antimony	<2.1		2.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:17	1
Arsenic	**8.5**		5.2		mg/Kg	☼	09/16/24 14:54	09/18/24 12:11	5
Barium	**110**		5.2		mg/Kg	☼	09/16/24 14:54	09/18/24 12:11	5
Beryllium	<2.1		2.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:11	5
Cadmium	<1.0		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 12:11	5
Calcium	**23000**		21		mg/Kg	☼	09/16/24 14:54	09/17/24 23:17	1
Chromium	**19**		1.0		mg/Kg	☼	09/16/24 14:54	09/17/24 23:17	1
Cobalt	**6.3**		0.52		mg/Kg	☼	09/16/24 14:54	09/17/24 23:17	1
Copper	**42**		5.2		mg/Kg	☼	09/16/24 14:54	09/18/24 12:11	5
Iron	**74000**		100		mg/Kg	☼	09/16/24 14:54	09/18/24 12:11	5
Lead	**62**		2.6		mg/Kg	☼	09/16/24 14:54	09/18/24 12:11	5
Magnesium	**6500**		10		mg/Kg	☼	09/16/24 14:54	09/17/24 23:17	1
Manganese	**1100**		1.0		mg/Kg	☼	09/16/24 14:54	09/17/24 23:17	1
Nickel	**22**		5.2		mg/Kg	☼	09/16/24 14:54	09/18/24 12:11	5
Potassium	**360**		52		mg/Kg	☼	09/16/24 14:54	09/17/24 23:17	1
Selenium	<5.2		5.2		mg/Kg	☼	09/16/24 14:54	09/18/24 12:11	5
Silver	<2.6		2.6		mg/Kg	☼	09/16/24 14:54	09/18/24 12:11	5
Sodium	**200**		100		mg/Kg	☼	09/16/24 14:54	09/17/24 23:17	1
Thallium	**7.8**		5.2		mg/Kg	☼	09/16/24 14:54	09/18/24 12:11	5
Vanadium	**25**		2.6		mg/Kg	☼	09/16/24 14:54	09/18/24 12:11	5
Zinc	**180**		2.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.045**		0.017		mg/Kg	☼	09/18/24 16:35	09/19/24 07:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.54**		0.26		mg/Kg	☼	09/03/24 16:00	09/04/24 11:34	1
pH (SW846 9045D)	**8.15**		0.20		SU			09/05/24 16:39	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB19 (0-3)
Lab Sample ID: 500-256054-5
Date Collected: 08/30/24 11:08
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 93.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.029	*+	0.065	0.029	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
1,1,2,2-Tetrachloroethane	<0.042		0.065	0.042	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
1,1,2-Trichloroethane	<0.047		0.065	0.047	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
1,1-Dichloroethane	<0.024		0.065	0.024	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
1,1-Dichloroethene	<0.031		0.065	0.031	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
1,2-Dichloroethane	<0.037	*+	0.065	0.037	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
1,2-Dichloropropane	<0.024		0.065	0.024	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
2-Butanone (MEK)	<0.20		0.32	0.20	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
2-Hexanone	<0.19		0.32	0.19	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
4-Methyl-2-pentanone (MIBK)	<0.17		0.32	0.17	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Acetone	<0.47		0.65	0.47	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Benzene	<0.0080		0.016	0.0080	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Bromodichloromethane	<0.037		0.065	0.037	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Bromoform	<0.062		0.065	0.062	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Bromomethane	<0.12		0.19	0.12	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Carbon disulfide	<0.070		0.13	0.070	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Carbon tetrachloride	<0.027	*+	0.065	0.027	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Chlorobenzene	<0.027		0.065	0.027	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Chloroethane	<0.030		0.32	0.030	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Chloroform	<0.060		0.13	0.060	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Chloromethane	<0.051		0.32	0.051	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
cis-1,2-Dichloroethene	<0.027		0.065	0.027	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
1,3-Dichloropropene, Total	<0.041		0.065	0.041	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Dibromochloromethane	<0.054		0.065	0.054	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Ethylbenzene	<0.011		0.016	0.011	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Methyl tert-butyl ether	<0.028		0.065	0.028	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Methylene Chloride	<0.14		0.32	0.14	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Styrene	<0.020		0.065	0.020	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Tetrachloroethene	<0.025		0.065	0.025	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Toluene	**0.034**		0.016	0.014	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Xylenes, Total	**0.071**		0.032	0.015	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
trans-1,2-Dichloroethene	<0.028		0.065	0.028	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Trichloroethene	<0.0096		0.032	0.0096	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50
Vinyl chloride	<0.030		0.065	0.030	mg/Kg	☼	08/30/24 11:08	09/12/24 15:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*	*08/30/24 11:08*	*09/12/24 15:51*	*50*
4-Bromofluorobenzene (Surr)	*85*		*72 - 124*	*08/30/24 11:08*	*09/12/24 15:51*	*50*
Dibromofluoromethane	*95*		*75 - 120*	*08/30/24 11:08*	*09/12/24 15:51*	*50*
Toluene-d8 (Surr)	*86*		*75 - 120*	*08/30/24 11:08*	*09/12/24 15:51*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.047**		0.035	0.0072	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Acenaphthylene	**0.17**		0.035	0.0060	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Anthracene	**0.19**		0.035	0.0072	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Benzo[a]anthracene	**0.75**		0.035	0.0075	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Benzo[a]pyrene	**0.83**		0.035	0.034	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Benzo[b]fluoranthene	**1.4**		0.035	0.034	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Benzo[g,h,i]perylene	**0.55**		0.035	0.0077	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB19 (0-3)
Lab Sample ID: 500-256054-5
Date Collected: 08/30/24 11:08
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 93.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.49**		0.035	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Chrysene	**0.88**		0.035	0.0093	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Dibenz(a,h)anthracene	**0.20**		0.035	0.035	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Fluoranthene	**1.3**		0.035	0.0082	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Fluorene	**0.036**		0.035	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Indeno[1,2,3-cd]pyrene	**0.61**		0.035	0.034	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Naphthalene	**0.070**		0.035	0.0064	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Phenanthrene	**0.96**		0.035	0.0077	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Pyrene	**1.2**		0.035	0.0096	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2,4-Dimethylphenol	<0.079		0.35	0.079	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2,4-Dinitrophenol	<0.20		0.71	0.20	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2-Methylnaphthalene	**0.10**		0.071	0.0071	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
4,6-Dinitro-2-methylphenol	<0.20		0.71	0.20	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
4-Chloroaniline	<0.37		0.71	0.37	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
4-Nitrophenol	<0.13		0.71	0.13	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Carbazole	**0.062**	**J**	0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Dibenzofuran	**0.055**	**J**	0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Hexachlorobenzene	<0.0068		0.071	0.0068	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB19 (0-3)
Lab Sample ID: 500-256054-5
Date Collected: 08/30/24 11:08
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 93.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.71	0.37	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
N-Nitrosodi-n-propylamine	<0.0070		0.071	0.0070	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Pentachlorophenol	<0.088		0.71	0.088	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*56*		*31 - 166*	*09/13/24 07:16*	*09/16/24 15:57*	*1*
Phenol-d5 (Surr)	*60*		*30 - 153*	*09/13/24 07:16*	*09/16/24 15:57*	*1*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*09/13/24 07:16*	*09/16/24 15:57*	*1*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*09/13/24 07:16*	*09/16/24 15:57*	*1*
2,4,6-Tribromophenol (Surr)	*47*		*31 - 143*	*09/13/24 07:16*	*09/16/24 15:57*	*1*
Terphenyl-d14 (Surr)	*68*		*42 - 157*	*09/13/24 07:16*	*09/16/24 15:57*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00092		0.0017	0.00092	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
4,4'-DDE	<0.00088		0.0017	0.00088	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
4,4'-DDT	<0.00081		0.0017	0.00081	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
alpha-BHC	<0.00096		0.0017	0.00096	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
alpha-Chlordane	<0.00091		0.0017	0.00091	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Chlordane (technical)	<0.0032		0.0068	0.0032	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
delta-BHC	<0.00082		0.0017	0.00082	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Dieldrin	<0.00089		0.0017	0.00089	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Endosulfan I	<0.00092		0.0017	0.00092	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Endosulfan II	<0.00094		0.0017	0.00094	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Endosulfan sulfate	<0.00094		0.0017	0.00094	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Endrin	<0.00087		0.0017	0.00087	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Endrin aldehyde	<0.00097		0.0017	0.00097	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Endrin ketone	<0.00083		0.0017	0.00083	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
gamma-BHC (Lindane)	<0.00085		0.0017	0.00085	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
gamma-Chlordane	<0.00098		0.0017	0.00098	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Heptachlor	<0.00092		0.0017	0.00092	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Heptachlor epoxide	<0.00092		0.0017	0.00092	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Methoxychlor	<0.0011		0.0084	0.0011	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1
Toxaphene	<0.0068		0.017	0.0068	mg/Kg	☼	09/12/24 17:29	09/17/24 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*710*	*S1+*	*33 - 148*	*09/12/24 17:29*	*09/17/24 18:16*	*1*
Tetrachloro-m-xylene	*60*		*30 - 121*	*09/12/24 17:29*	*09/17/24 18:16*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/12/24 17:29	09/18/24 15:56	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/12/24 17:29	09/18/24 15:56	1

Client Sample ID: SB19 (0-3)
Lab Sample ID: 500-256054-5
Date Collected: 08/30/24 11:08
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 93.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/12/24 17:29	09/18/24 15:56	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/12/24 17:29	09/18/24 15:56	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/12/24 17:29	09/18/24 15:56	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/12/24 17:29	09/18/24 15:56	1
PCB-1260	**0.022**		0.017		mg/Kg	☼	09/12/24 17:29	09/18/24 15:56	1
Polychlorinated biphenyls, Total	**0.022**		0.017		mg/Kg	☼	09/12/24 17:29	09/18/24 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*49 - 129*	*09/12/24 17:29*	*09/18/24 15:56*	*1*
DCB Decachlorobiphenyl	*65*		*37 - 121*	*09/12/24 17:29*	*09/18/24 15:56*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		21		mg/Kg	☼	09/16/24 14:54	09/17/24 23:21	1
Antimony	<2.1		2.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:21	1
Arsenic	**6.6**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Barium	**170**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Beryllium	**3.4**		2.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Cadmium	**1.2**		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Calcium	**59000**		21		mg/Kg	☼	09/16/24 14:54	09/17/24 23:21	1
Chromium	**35**		1.0		mg/Kg	☼	09/16/24 14:54	09/17/24 23:21	1
Cobalt	**5.3**		0.51		mg/Kg	☼	09/16/24 14:54	09/17/24 23:21	1
Copper	**57**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Iron	**69000**		100		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Lead	**160**		2.6		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Magnesium	**13000**		10		mg/Kg	☼	09/16/24 14:54	09/17/24 23:21	1
Manganese	**3500**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Nickel	**17**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Potassium	**930**		51		mg/Kg	☼	09/16/24 14:54	09/17/24 23:21	1
Selenium	<5.1		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Silver	<2.6		2.6		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Sodium	**740**		100		mg/Kg	☼	09/16/24 14:54	09/17/24 23:21	1
Thallium	**19**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Vanadium	**33**		2.6		mg/Kg	☼	09/16/24 14:54	09/18/24 12:15	5
Zinc	**300**		2.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.083**		0.016		mg/Kg	☼	09/18/24 16:35	09/19/24 07:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**9.6**		1.3		mg/Kg	☼	09/03/24 16:00	09/04/24 13:03	5
pH (SW846 9045D)	**8.19**		0.20		SU			09/05/24 16:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB19 (5-7.5)
Lab Sample ID: 500-256054-6
Date Collected: 08/30/24 11:21
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 98.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00088		0.0022	0.00088	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
1,1-Dichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
1,1-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
2-Butanone (MEK)	<0.0024		0.0054	0.0024	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0054	0.0038	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Acetone	<0.0091		0.022	0.0091	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Benzene	<0.00068		0.0022	0.00068	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Bromodichloromethane	<0.00069		0.0022	0.00069	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Bromomethane	<0.0027		0.0054	0.0027	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Carbon disulfide	<0.0010		0.0054	0.0010	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Carbon tetrachloride	<0.00074		0.0022	0.00074	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Chlorobenzene	<0.00091		0.0022	0.00091	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Chloromethane	<0.0010		0.0054	0.0010	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
cis-1,2-Dichloroethene	<0.00087		0.0022	0.00087	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Methyl tert-butyl ether	<0.00070		0.0022	0.00070	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Styrene	<0.00097		0.0022	0.00097	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Xylenes, Total	<0.00074		0.0043	0.00074	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
trans-1,2-Dichloroethene	<0.00082		0.0022	0.00082	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Trichloroethene	<0.00059		0.0022	0.00059	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1
Vinyl chloride	<0.00088		0.0022	0.00088	mg/Kg	☼	08/30/24 11:21	09/10/24 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*08/30/24 11:21*	*09/10/24 13:09*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*08/30/24 11:21*	*09/10/24 13:09*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*08/30/24 11:21*	*09/10/24 13:09*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*08/30/24 11:21*	*09/10/24 13:09*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.033	0.0067	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Anthracene	<0.0067		0.033	0.0067	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Benzo[a]anthracene	**0.016**	**J**	0.033	0.0070	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Benzo[b]fluoranthene	<0.031		0.033	0.031	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Benzo[g,h,i]perylene	**0.023**	**J**	0.033	0.0071	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB19 (5-7.5)
Lab Sample ID: 500-256054-6
Date Collected: 08/30/24 11:21
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 98.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.012		0.033	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Chrysene	**0.013**	**J**	0.033	0.0086	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Fluoranthene	**0.011**	**J**	0.033	0.0076	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Fluorene	<0.0097		0.033	0.0097	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Naphthalene	<0.0059		0.033	0.0059	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Phenanthrene	<0.0071		0.033	0.0071	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Pyrene	**0.012**	**J**	0.033	0.0089	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
1,2,4-Trichlorobenzene	<0.023		0.16	0.023	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
1,2-Dichlorobenzene	<0.013		0.16	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
1,3-Dichlorobenzene	<0.015		0.16	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
1,4-Dichlorobenzene	<0.016		0.16	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2,4,5-Trichlorophenol	<0.012		0.33	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2,4-Dimethylphenol	<0.073		0.33	0.073	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2,4-Dinitrophenol	<0.19		0.66	0.19	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2,4-Dinitrotoluene	<0.019		0.16	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2,6-Dinitrotoluene	<0.011		0.16	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2-Chloronaphthalene	<0.012		0.16	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2-Chlorophenol	<0.011		0.16	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2-Methylnaphthalene	<0.0066		0.066	0.0066	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2-Methylphenol	<0.017		0.16	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2-Nitroaniline	<0.018		0.16	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
2-Nitrophenol	<0.022		0.33	0.022	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
3,3'-Dichlorobenzidine	<0.027		0.16	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
3 & 4 Methylphenol	<0.024		0.16	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
4,6-Dinitro-2-methylphenol	<0.18		0.66	0.18	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
4-Bromophenyl phenyl ether	<0.022		0.16	0.022	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
4-Chloroaniline	<0.34		0.66	0.34	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
4-Chlorophenyl phenyl ether	<0.043		0.16	0.043	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
4-Nitroaniline	<0.024		0.33	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
4-Nitrophenol	<0.12		0.66	0.12	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Bis(2-chloroethoxy)methane	<0.012		0.16	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Bis(2-chloroethyl)ether	<0.015		0.16	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
bis(chloroisopropyl) ether	<0.024		0.16	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Bis(2-ethylhexyl) phthalate	**0.20**		0.16	0.13	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Butyl benzyl phthalate	<0.016		0.16	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Carbazole	<0.013		0.16	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Dibenzofuran	<0.012		0.16	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Diethyl phthalate	<0.015		0.16	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Dimethyl phthalate	<0.0071		0.16	0.0071	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Di-n-butyl phthalate	<0.010		0.16	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Hexachlorobenzene	<0.0063		0.066	0.0063	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Hexachlorobutadiene	<0.018		0.16	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB19 (5-7.5)
Lab Sample ID: 500-256054-6
Date Collected: 08/30/24 11:21
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 98.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.66	0.35	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Hexachloroethane	<0.016		0.16	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Isophorone	<0.017		0.16	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Nitrobenzene	<0.010		0.033	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
N-Nitrosodi-n-propylamine	<0.0065		0.066	0.0065	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
N-Nitrosodiphenylamine	<0.019		0.16	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Pentachlorophenol	<0.082		0.66	0.082	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1
Phenol	<0.014		0.16	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*77*		*31 - 166*	*09/13/24 07:16*	*09/16/24 16:21*	*1*
Phenol-d5 (Surr)	*76*		*30 - 153*	*09/13/24 07:16*	*09/16/24 16:21*	*1*
Nitrobenzene-d5 (Surr)	*80*		*37 - 147*	*09/13/24 07:16*	*09/16/24 16:21*	*1*
2-Fluorobiphenyl (Surr)	*76*		*43 - 145*	*09/13/24 07:16*	*09/16/24 16:21*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*31 - 143*	*09/13/24 07:16*	*09/16/24 16:21*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*09/13/24 07:16*	*09/16/24 16:21*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00087		0.0016	0.00087	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
4,4'-DDE	<0.00083		0.0016	0.00083	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
4,4'-DDT	<0.00077		0.0016	0.00077	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Aldrin	<0.0011		0.0016	0.0011	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
alpha-BHC	<0.00091		0.0016	0.00091	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
alpha-Chlordane	<0.00087		0.0016	0.00087	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
beta-BHC	<0.0013		0.0016	0.0013	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Chlordane (technical)	<0.0031		0.0064	0.0031	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
delta-BHC	<0.00077		0.0016	0.00077	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Dieldrin	<0.00085		0.0016	0.00085	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Endosulfan I	<0.00087		0.0016	0.00087	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Endosulfan II	<0.00089		0.0016	0.00089	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Endosulfan sulfate	<0.00090		0.0016	0.00090	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Endrin	<0.00083		0.0016	0.00083	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Endrin aldehyde	<0.00092		0.0016	0.00092	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Endrin ketone	<0.00079		0.0016	0.00079	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
gamma-BHC (Lindane)	<0.00081		0.0016	0.00081	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
gamma-Chlordane	<0.00093		0.0016	0.00093	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Heptachlor	<0.00088		0.0016	0.00088	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Heptachlor epoxide	<0.00087		0.0016	0.00087	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Methoxychlor	<0.0011		0.0080	0.0011	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1
Toxaphene	<0.0065		0.016	0.0065	mg/Kg	☼	09/12/24 17:29	09/17/24 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*33 - 148*	*09/12/24 17:29*	*09/17/24 18:28*	*1*
Tetrachloro-m-xylene	*81*		*30 - 121*	*09/12/24 17:29*	*09/17/24 18:28*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.016		0.016		mg/Kg	☼	09/12/24 17:29	09/17/24 22:48	1
PCB-1221	<0.016		0.016		mg/Kg	☼	09/12/24 17:29	09/17/24 22:48	1

Client Sample ID: SB19 (5-7.5)
Lab Sample ID: 500-256054-6
Date Collected: 08/30/24 11:21
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 98.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.016		0.016		mg/Kg	☼	09/12/24 17:29	09/17/24 22:48	1
PCB-1242	<0.016		0.016		mg/Kg	☼	09/12/24 17:29	09/17/24 22:48	1
PCB-1248	<0.016		0.016		mg/Kg	☼	09/12/24 17:29	09/17/24 22:48	1
PCB-1254	<0.016		0.016		mg/Kg	☼	09/12/24 17:29	09/17/24 22:48	1
PCB-1260	<0.016		0.016		mg/Kg	☼	09/12/24 17:29	09/17/24 22:48	1
Polychlorinated biphenyls, Total	<0.016		0.016		mg/Kg	☼	09/12/24 17:29	09/17/24 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*49 - 129*	*09/12/24 17:29*	*09/17/24 22:48*	*1*
DCB Decachlorobiphenyl	*79*		*37 - 121*	*09/12/24 17:29*	*09/17/24 22:48*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1800**		17		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Antimony	<1.7		1.7		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Arsenic	**1.1**		0.85		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Barium	**24**		0.85		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Beryllium	**0.49**		0.34		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Cadmium	<0.17		0.17		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Calcium	**11000**		17		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Chromium	**2.4**		0.85		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Cobalt	**0.78**		0.43		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Copper	**1.3**		0.85		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Iron	**4400**		17		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Lead	**3.6**		0.43		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Magnesium	**5300**		8.5		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Manganese	**540**		0.85		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Nickel	**1.8**		0.85		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Potassium	**280**		43		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Selenium	<0.85		0.85		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Silver	<0.43		0.43		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Sodium	**130**		85		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Thallium	**2.5**		0.85		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Vanadium	**4.3**		0.43		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1
Zinc	**7.3**		1.7		mg/Kg	☼	09/16/24 14:54	09/17/24 23:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/18/24 16:35	09/19/24 07:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24		mg/Kg	☼	09/03/24 16:00	09/04/24 11:37	1
pH (SW846 9045D)	**9.04**		0.20		SU			09/05/24 16:46	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB20 (0-3)
Lab Sample ID: 500-256054-7
Date Collected: 08/30/24 12:09
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 88.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00075		0.0018	0.00075	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
1,1,2,2-Tetrachloroethane	<0.00091		0.0018	0.00091	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
1,1,2-Trichloroethane	<0.00069		0.0018	0.00069	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
1,1-Dichloroethane	<0.00069		0.0018	0.00069	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
1,1-Dichloroethene	<0.00076		0.0018	0.00076	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
1,2-Dichloroethane	<0.0012		0.0046	0.0012	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
1,2-Dichloropropane	<0.00048		0.0018	0.00048	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
2-Hexanone	<0.0028		0.0046	0.0028	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
4-Methyl-2-pentanone (MIBK)	<0.0033		0.0046	0.0033	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Acetone	<0.0077		0.018	0.0077	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Benzene	<0.00058		0.0018	0.00058	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Bromodichloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Bromoform	<0.0011		0.0018	0.0011	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Bromomethane	<0.0023		0.0046	0.0023	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Carbon disulfide	**0.0053**		0.0046	0.00085	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Carbon tetrachloride	<0.00063		0.0018	0.00063	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Chlorobenzene	<0.00078		0.0018	0.00078	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Chloroethane	<0.0015		0.0046	0.0015	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Chloroform	<0.0013		0.0018	0.0013	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Chloromethane	<0.00089		0.0046	0.00089	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
cis-1,2-Dichloroethene	<0.00074		0.0018	0.00074	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
1,3-Dichloropropene, Total	<0.00088		0.0018	0.00088	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Dibromochloromethane	<0.00085		0.0018	0.00085	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Ethylbenzene	<0.00097		0.0018	0.00097	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Methyl tert-butyl ether	<0.00059		0.0018	0.00059	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Methylene Chloride	<0.0020		0.0046	0.0020	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Styrene	<0.00083		0.0018	0.00083	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Tetrachloroethene	<0.0010		0.0018	0.0010	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Toluene	**0.00055**	**J**	0.0018	0.00037	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Xylenes, Total	<0.00063		0.0037	0.00063	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
trans-1,2-Dichloroethene	<0.00070		0.0018	0.00070	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Trichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1
Vinyl chloride	<0.00075		0.0018	0.00075	mg/Kg	☼	08/30/24 12:09	09/10/24 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*08/30/24 12:09*	*09/10/24 13:34*	*1*
4-Bromofluorobenzene (Surr)	*129*		*75 - 131*	*08/30/24 12:09*	*09/10/24 13:34*	*1*
Dibromofluoromethane	*77*		*75 - 126*	*08/30/24 12:09*	*09/10/24 13:34*	*1*
Toluene-d8 (Surr)	*116*		*75 - 124*	*08/30/24 12:09*	*09/10/24 13:34*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.099**		0.037	0.0075	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Acenaphthylene	**0.027**	**J**	0.037	0.0062	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Anthracene	**0.19**		0.037	0.0075	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Benzo[a]anthracene	**1.3**		0.037	0.0078	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Benzo[a]pyrene	**2.4**		0.037	0.035	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Benzo[b]fluoranthene	**3.4**		0.037	0.035	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Benzo[g,h,i]perylene	**2.9**		0.037	0.0080	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB20 (0-3)
Lab Sample ID: 500-256054-7
Date Collected: 08/30/24 12:09
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 88.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.3**		0.037	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Chrysene	**1.9**		0.037	0.0097	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Dibenz(a,h)anthracene	**0.57**		0.037	0.037	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Fluoranthene	**1.9**		0.037	0.0085	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Fluorene	**0.048**		0.037	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Indeno[1,2,3-cd]pyrene	**2.7**		0.037	0.036	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Naphthalene	**0.053**		0.037	0.0066	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Phenanthrene	**0.81**		0.037	0.0080	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Pyrene	**1.7**		0.037	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
1,3-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2,4-Dimethylphenol	<0.082		0.37	0.082	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2,6-Dinitrotoluene	<0.013		0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2-Methylnaphthalene	**0.069**	**J**	0.074	0.0074	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
4-Chloro-3-methylphenol	<0.014		0.37	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
4-Chloroaniline	<0.39		0.74	0.39	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
4-Nitroaniline	<0.027		0.37	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Carbazole	**0.12**	**J**	0.18	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Dibenzofuran	**0.072**	**J**	0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Dimethyl phthalate	<0.0080		0.18	0.0080	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB20 (0-3)
Lab Sample ID: 500-256054-7
Date Collected: 08/30/24 12:09
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 88.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
N-Nitrosodi-n-propylamine	<0.0073		0.074	0.0073	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Pentachlorophenol	<0.092		0.74	0.092	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*60*		*31 - 166*	*09/13/24 07:16*	*09/16/24 16:45*	*1*
Phenol-d5 (Surr)	*73*		*30 - 153*	*09/13/24 07:16*	*09/16/24 16:45*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*09/13/24 07:16*	*09/16/24 16:45*	*1*
2-Fluorobiphenyl (Surr)	*74*		*43 - 145*	*09/13/24 07:16*	*09/16/24 16:45*	*1*
2,4,6-Tribromophenol (Surr)	*12*	*S1-*	*31 - 143*	*09/13/24 07:16*	*09/16/24 16:45*	*1*
Terphenyl-d14 (Surr)	*80*		*42 - 157*	*09/13/24 07:16*	*09/16/24 16:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0050		0.0094	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
4,4'-DDE	<0.0048		0.0094	0.0048	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
4,4'-DDT	<0.0044		0.0094	0.0044	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
Aldrin	<0.0065		0.0094	0.0065	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
alpha-BHC	<0.0052		0.0094	0.0052	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
alpha-Chlordane	<0.0050		0.0094	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
beta-BHC	<0.0075		0.0094	0.0075	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
Chlordane (technical)	<0.018		0.037	0.018	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
delta-BHC	<0.018		0.038	0.018	mg/Kg	☼	09/12/24 17:29	09/18/24 19:51	20
Dieldrin	<0.0049		0.0094	0.0049	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
Endosulfan I	<0.0050		0.0094	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
Endosulfan II	<0.0051		0.0094	0.0051	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
Endosulfan sulfate	<0.021		0.038	0.021	mg/Kg	☼	09/12/24 17:29	09/18/24 19:51	20
Endrin	<0.0048		0.0094	0.0048	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
Endrin aldehyde	<0.021		0.038	0.021	mg/Kg	☼	09/12/24 17:29	09/18/24 19:51	20
Endrin ketone	<0.0045		0.0094	0.0045	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
gamma-BHC (Lindane)	<0.0046		0.0094	0.0046	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
gamma-Chlordane	<0.0054		0.0094	0.0054	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
Heptachlor	<0.0050		0.0094	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
Heptachlor epoxide	<0.0050		0.0094	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
Methoxychlor	<0.0061		0.046	0.0061	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5
Toxaphene	<0.037		0.092	0.037	mg/Kg	☼	09/12/24 17:29	09/18/24 19:40	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*464*	*S1+*	*33 - 148*	*09/12/24 17:29*	*09/18/24 19:40*	*5*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/12/24 17:29*	*09/18/24 19:51*	*20*
Tetrachloro-m-xylene	*57*		*30 - 121*	*09/12/24 17:29*	*09/18/24 19:40*	*5*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/12/24 17:29*	*09/18/24 19:51*	*20*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB20 (0-3)
Date Collected: 08/30/24 12:09
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-7
Matrix: Solid
Percent Solids: 88.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 23:03	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 23:03	1
PCB-1232	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 23:03	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 23:03	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 23:03	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 23:03	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 23:03	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/17/24 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*49 - 129*	*09/12/24 17:29*	*09/17/24 23:03*	*1*
DCB Decachlorobiphenyl	*53*		*37 - 121*	*09/12/24 17:29*	*09/17/24 23:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		20		mg/Kg	☼	09/16/24 14:54	09/17/24 23:30	1
Antimony	<2.0		2.0		mg/Kg	☼	09/16/24 14:54	09/17/24 23:30	1
Arsenic	<5.1		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Barium	**190**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Beryllium	**3.8**		2.0		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Cadmium	<1.0		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Calcium	**160000**		100		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Chromium	**450**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Cobalt	**3.8**		0.51		mg/Kg	☼	09/16/24 14:54	09/17/24 23:30	1
Copper	**35**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Iron	**89000**		100		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Lead	**53**		2.5		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Magnesium	**26000**		10		mg/Kg	☼	09/16/24 14:54	09/17/24 23:30	1
Manganese	**12000**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Nickel	**18**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Potassium	**980**		51		mg/Kg	☼	09/16/24 14:54	09/17/24 23:30	1
Selenium	**6.0**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Silver	<0.51		0.51		mg/Kg	☼	09/16/24 14:54	09/17/24 23:30	1
Sodium	**620**		100		mg/Kg	☼	09/16/24 14:54	09/17/24 23:30	1
Thallium	**61**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Vanadium	**210**		2.5		mg/Kg	☼	09/16/24 14:54	09/18/24 12:20	5
Zinc	**90**		2.0		mg/Kg	☼	09/16/24 14:54	09/17/24 23:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.049**		0.018		mg/Kg	☼	09/18/24 16:35	09/19/24 07:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.9**		0.26		mg/Kg	☼	09/03/24 16:00	09/04/24 11:39	1
pH (SW846 9045D)	**11.09**		0.20		SU			09/05/24 16:49	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB20 (3-5)
Lab Sample ID: 500-256054-8
Date Collected: 08/30/24 12:14
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 84.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.034	*+	0.075	0.034	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
1,1,2,2-Tetrachloroethane	<0.049		0.075	0.049	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
1,1,2-Trichloroethane	<0.055		0.075	0.055	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
1,1-Dichloroethane	<0.027		0.075	0.027	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
1,1-Dichloroethene	<0.036		0.075	0.036	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
1,2-Dichloroethane	<0.044	*+	0.075	0.044	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
1,2-Dichloropropane	<0.028		0.075	0.028	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
2-Butanone (MEK)	<0.23		0.38	0.23	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
2-Hexanone	<0.22		0.38	0.22	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
4-Methyl-2-pentanone (MIBK)	<0.20		0.38	0.20	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Acetone	<0.55		0.75	0.55	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Benzene	<0.0093		0.019	0.0093	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Bromodichloromethane	<0.043		0.075	0.043	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Bromoform	<0.073		0.075	0.073	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Bromomethane	<0.14		0.23	0.14	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Carbon disulfide	<0.081		0.15	0.081	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Carbon tetrachloride	<0.031	*+	0.075	0.031	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Chlorobenzene	<0.031		0.075	0.031	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Chloroethane	<0.035		0.38	0.035	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Chloroform	<0.069		0.15	0.069	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Chloromethane	<0.059		0.38	0.059	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
cis-1,2-Dichloroethene	<0.031		0.075	0.031	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
1,3-Dichloropropene, Total	<0.048		0.075	0.048	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Dibromochloromethane	<0.063		0.075	0.063	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Ethylbenzene	<0.013		0.019	0.013	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Methyl tert-butyl ether	<0.033		0.075	0.033	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Methylene Chloride	<0.16		0.38	0.16	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Styrene	<0.023		0.075	0.023	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Tetrachloroethene	<0.029		0.075	0.029	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Toluene	**0.017**	**J**	0.019	0.016	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Xylenes, Total	**0.031**	**J**	0.038	0.018	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
trans-1,2-Dichloroethene	<0.033		0.075	0.033	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Trichloroethene	<0.011		0.038	0.011	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50
Vinyl chloride	<0.035		0.075	0.035	mg/Kg	☼	08/30/24 12:14	09/12/24 16:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*	*08/30/24 12:14*	*09/12/24 16:17*	*50*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*	*08/30/24 12:14*	*09/12/24 16:17*	*50*
Dibromofluoromethane	*99*		*75 - 120*	*08/30/24 12:14*	*09/12/24 16:17*	*50*
Toluene-d8 (Surr)	*86*		*75 - 120*	*08/30/24 12:14*	*09/12/24 16:17*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.38**		0.038	0.0078	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Acenaphthylene	**0.40**		0.038	0.0065	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Anthracene	**1.3**		0.038	0.0079	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Benzo[a]anthracene	**2.8**		0.038	0.0082	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Benzo[a]pyrene	**2.6**		0.038	0.037	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Benzo[b]fluoranthene	**3.8**		0.038	0.037	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Benzo[g,h,i]perylene	**1.5**		0.038	0.0083	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB20 (3-5)
Lab Sample ID: 500-256054-8
Date Collected: 08/30/24 12:14
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 84.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.4**		0.038	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Chrysene	**3.1**		0.038	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Dibenz(a,h)anthracene	**0.54**		0.038	0.038	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Fluoranthene	**7.1**		0.038	0.0089	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Fluorene	**0.64**		0.038	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Indeno[1,2,3-cd]pyrene	**1.7**		0.038	0.037	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Naphthalene	**0.46**		0.038	0.0070	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Phenanthrene	**7.8**		0.038	0.0084	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Pyrene	**5.8**		0.038	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
1,2,4-Trichlorobenzene	<0.028		0.19	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
1,2-Dichlorobenzene	<0.016		0.19	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2,4,5-Trichlorophenol	<0.015		0.38	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2,4,6-Trichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2,4-Dichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2,4-Dimethylphenol	<0.086		0.38	0.086	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2,4-Dinitrophenol	<0.22		0.78	0.22	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2,4-Dinitrotoluene	<0.022		0.19	0.022	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2-Methylnaphthalene	**0.31**		0.078	0.0077	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2-Nitroaniline	<0.021		0.19	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
2-Nitrophenol	<0.026		0.38	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
3 & 4 Methylphenol	<0.028		0.19	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
3-Nitroaniline	<0.018		0.38	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
4,6-Dinitro-2-methylphenol	<0.22		0.78	0.22	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
4-Chloro-3-methylphenol	<0.015		0.38	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
4-Chloroaniline	<0.40		0.78	0.40	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
4-Chlorophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
4-Nitroaniline	<0.028		0.38	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
4-Nitrophenol	<0.14		0.78	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Bis(2-chloroethyl)ether	<0.018		0.19	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
bis(chloroisopropyl) ether	<0.028		0.19	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Bis(2-ethylhexyl) phthalate	**0.16**	**J**	0.19	0.15	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Carbazole	**0.76**		0.19	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Dibenzofuran	**0.54**		0.19	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Diethyl phthalate	<0.018		0.19	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Dimethyl phthalate	<0.0084		0.19	0.0084	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Di-n-octyl phthalate	<0.27		0.38	0.27	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Hexachlorobenzene	<0.0074		0.078	0.0074	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Hexachlorobutadiene	<0.022		0.19	0.022	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB20 (3-5)
Lab Sample ID: 500-256054-8
Date Collected: 08/30/24 12:14
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 84.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.41		0.78	0.41	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Isophorone	<0.020		0.19	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Nitrobenzene	<0.012		0.038	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
N-Nitrosodi-n-propylamine	<0.0076		0.078	0.0076	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
N-Nitrosodiphenylamine	<0.023		0.19	0.023	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Pentachlorophenol	<0.096		0.78	0.096	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1
Phenol	<0.017		0.19	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*61*		*31 - 166*	*09/13/24 07:16*	*09/16/24 17:10*	*1*
Phenol-d5 (Surr)	*67*		*30 - 153*	*09/13/24 07:16*	*09/16/24 17:10*	*1*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*	*09/13/24 07:16*	*09/16/24 17:10*	*1*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*	*09/13/24 07:16*	*09/16/24 17:10*	*1*
2,4,6-Tribromophenol (Surr)	*32*		*31 - 143*	*09/13/24 07:16*	*09/16/24 17:10*	*1*
Terphenyl-d14 (Surr)	*76*		*42 - 157*	*09/13/24 07:16*	*09/16/24 17:10*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
4,4'-DDT	<0.0095		0.020	0.0095	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
alpha-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
Chlordane (technical)	<0.038		0.080	0.038	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
delta-BHC	<0.048		0.10	0.048	mg/Kg	☼	09/12/24 17:29	09/18/24 20:15	50
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
Endosulfan sulfate	<0.055		0.10	0.055	mg/Kg	☼	09/12/24 17:29	09/18/24 20:15	50
Endrin	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
Endrin aldehyde	<0.057		0.10	0.057	mg/Kg	☼	09/12/24 17:29	09/18/24 20:15	50
Endrin ketone	<0.0097		0.020	0.0097	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
gamma-BHC (Lindane)	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
gamma-Chlordane	<0.012		0.020	0.012	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
Heptachlor epoxide	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
Methoxychlor	<0.013		0.099	0.013	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10
Toxaphene	<0.080		0.20	0.080	mg/Kg	☼	09/12/24 17:29	09/18/24 20:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*256*	*S1+*	*33 - 148*	*09/12/24 17:29*	*09/18/24 20:03*	*10*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/12/24 17:29*	*09/18/24 20:15*	*50*
Tetrachloro-m-xylene	*46*		*30 - 121*	*09/12/24 17:29*	*09/18/24 20:03*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/12/24 17:29*	*09/18/24 20:15*	*50*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB20 (3-5)
Date Collected: 08/30/24 12:14
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-8
Matrix: Solid
Percent Solids: 84.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.20		0.20		mg/Kg	☼	09/12/24 17:29	09/18/24 16:11	10
PCB-1221	<0.20		0.20		mg/Kg	☼	09/12/24 17:29	09/18/24 16:11	10
PCB-1232	<0.20		0.20		mg/Kg	☼	09/12/24 17:29	09/18/24 16:11	10
PCB-1242	<0.20		0.20		mg/Kg	☼	09/12/24 17:29	09/18/24 16:11	10
PCB-1248	<0.20		0.20		mg/Kg	☼	09/12/24 17:29	09/18/24 16:11	10
PCB-1254	<0.20		0.20		mg/Kg	☼	09/12/24 17:29	09/18/24 16:11	10
PCB-1260	<0.20		0.20		mg/Kg	☼	09/12/24 17:29	09/18/24 16:11	10
Polychlorinated biphenyls, Total	<0.20		0.20		mg/Kg	☼	09/12/24 17:29	09/18/24 16:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*49 - 129*	*09/12/24 17:29*	*09/18/24 16:11*	*10*
DCB Decachlorobiphenyl	*108*		*37 - 121*	*09/12/24 17:29*	*09/18/24 16:11*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		22		mg/Kg	☼	09/16/24 14:54	09/17/24 23:35	1
Antimony	<2.2		2.2		mg/Kg	☼	09/16/24 14:54	09/17/24 23:35	1
Arsenic	**5.7**		5.4		mg/Kg	☼	09/16/24 14:54	09/18/24 12:24	5
Barium	**130**		5.4		mg/Kg	☼	09/16/24 14:54	09/18/24 12:24	5
Beryllium	<2.2		2.2		mg/Kg	☼	09/16/24 14:54	09/18/24 12:24	5
Cadmium	<1.1		1.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:24	5
Calcium	**51000**		22		mg/Kg	☼	09/16/24 14:54	09/17/24 23:35	1
Chromium	**57**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:35	1
Cobalt	**7.7**		0.54		mg/Kg	☼	09/16/24 14:54	09/17/24 23:35	1
Copper	**48**		5.4		mg/Kg	☼	09/16/24 14:54	09/18/24 12:24	5
Iron	**76000**		110		mg/Kg	☼	09/16/24 14:54	09/18/24 12:24	5
Lead	**100**		2.7		mg/Kg	☼	09/16/24 14:54	09/18/24 12:24	5
Magnesium	**11000**		11		mg/Kg	☼	09/16/24 14:54	09/17/24 23:35	1
Manganese	**3500**		5.4		mg/Kg	☼	09/16/24 14:54	09/18/24 12:24	5
Nickel	**22**		5.4		mg/Kg	☼	09/16/24 14:54	09/18/24 12:24	5
Potassium	**1200**		54		mg/Kg	☼	09/16/24 14:54	09/17/24 23:35	1
Selenium	<5.4		5.4		mg/Kg	☼	09/16/24 14:54	09/18/24 12:24	5
Silver	<0.54		0.54		mg/Kg	☼	09/16/24 14:54	09/17/24 23:35	1
Sodium	**420**		110		mg/Kg	☼	09/16/24 14:54	09/17/24 23:35	1
Thallium	**19**		5.4		mg/Kg	☼	09/16/24 14:54	09/18/24 12:24	5
Vanadium	**65**		2.7		mg/Kg	☼	09/16/24 14:54	09/18/24 12:24	5
Zinc	**210**		2.2		mg/Kg	☼	09/16/24 14:54	09/17/24 23:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.089**		0.020		mg/Kg	☼	09/18/24 16:35	09/19/24 07:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**6.8**	**F1**	1.3		mg/Kg	☼	09/03/24 16:00	09/04/24 13:07	5
pH (SW846 9045D)	**8.76**		0.20		SU			09/05/24 16:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21 (0-3)
Lab Sample ID: 500-256054-9
Date Collected: 08/30/24 13:00
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 90.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.028	*+	0.062	0.028	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
1,1,2,2-Tetrachloroethane	<0.040		0.062	0.040	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
1,1,2-Trichloroethane	<0.045		0.062	0.045	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
1,1-Dichloroethane	<0.023		0.062	0.023	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
1,1-Dichloroethene	<0.030		0.062	0.030	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
1,2-Dichloroethane	<0.036	*+	0.062	0.036	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
1,2-Dichloropropane	<0.023		0.062	0.023	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
2-Butanone (MEK)	<0.19		0.31	0.19	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
2-Hexanone	<0.18		0.31	0.18	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
4-Methyl-2-pentanone (MIBK)	<0.17		0.31	0.17	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Acetone	<0.45		0.62	0.45	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Benzene	<0.0076		0.016	0.0076	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Bromodichloromethane	<0.035		0.062	0.035	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Bromoform	<0.060		0.062	0.060	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Bromomethane	<0.11		0.19	0.11	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Carbon disulfide	<0.067		0.12	0.067	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Carbon tetrachloride	<0.026	*+	0.062	0.026	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Chlorobenzene	<0.025		0.062	0.025	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Chloroethane	<0.029		0.31	0.029	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Chloroform	<0.057		0.12	0.057	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Chloromethane	<0.049		0.31	0.049	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
cis-1,2-Dichloroethene	<0.026		0.062	0.026	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
1,3-Dichloropropene, Total	<0.039		0.062	0.039	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Dibromochloromethane	<0.051		0.062	0.051	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Ethylbenzene	**0.017**		0.016	0.011	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Methyl tert-butyl ether	<0.027		0.062	0.027	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Methylene Chloride	<0.13		0.31	0.13	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Styrene	<0.019		0.062	0.019	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Tetrachloroethene	<0.024		0.062	0.024	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Toluene	**0.015**	**J**	0.016	0.013	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Xylenes, Total	**0.050**		0.031	0.015	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
trans-1,2-Dichloroethene	<0.027		0.062	0.027	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Trichloroethene	<0.0092		0.031	0.0092	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50
Vinyl chloride	<0.029		0.062	0.029	mg/Kg	☼	08/30/24 13:00	09/12/24 16:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*08/30/24 13:00*	*09/12/24 16:42*	*50*
4-Bromofluorobenzene (Surr)	*86*		*72 - 124*	*08/30/24 13:00*	*09/12/24 16:42*	*50*
Dibromofluoromethane	*96*		*75 - 120*	*08/30/24 13:00*	*09/12/24 16:42*	*50*
Toluene-d8 (Surr)	*86*		*75 - 120*	*08/30/24 13:00*	*09/12/24 16:42*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.28**		0.036	0.0074	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Acenaphthylene	**0.18**		0.036	0.0062	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Anthracene	**0.32**		0.036	0.0075	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Benzo[a]anthracene	**2.2**		0.036	0.0078	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Benzo[a]pyrene	**4.3**		0.036	0.035	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Benzo[b]fluoranthene	**4.7**		0.036	0.035	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Benzo[g,h,i]perylene	**3.8**		0.036	0.0079	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21 (0-3)
Lab Sample ID: 500-256054-9
Date Collected: 08/30/24 13:00
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 90.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**2.0**		0.036	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Chrysene	**2.7**		0.036	0.0096	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Dibenz(a,h)anthracene	**0.83**		0.036	0.036	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Fluoranthene	**2.8**		0.036	0.0085	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Fluorene	**0.084**		0.036	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Indeno[1,2,3-cd]pyrene	**3.7**		0.036	0.036	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Naphthalene	**0.076**		0.036	0.0066	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Phenanthrene	**1.1**		0.036	0.0080	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Pyrene	**2.9**		0.036	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
1,3-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2,4-Dimethylphenol	<0.082		0.36	0.082	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2-Methylnaphthalene	**0.083**		0.074	0.0073	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
4-Chloroaniline	<0.38		0.74	0.38	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Carbazole	**0.18**		0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Dibenzofuran	**0.060**	**J**	0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Dimethyl phthalate	<0.0079		0.18	0.0079	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Di-n-octyl phthalate	<0.26		0.36	0.26	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1

Client Sample ID: SB21 (0-3)
Lab Sample ID: 500-256054-9
Date Collected: 08/30/24 13:00
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 90.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Nitrobenzene	<0.012		0.036	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
N-Nitrosodi-n-propylamine	<0.0072		0.074	0.0072	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Pentachlorophenol	<0.091		0.74	0.091	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*60*		*31 - 166*	*09/13/24 07:16*	*09/16/24 17:34*	*1*
Phenol-d5 (Surr)	*62*		*30 - 153*	*09/13/24 07:16*	*09/16/24 17:34*	*1*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/13/24 07:16*	*09/16/24 17:34*	*1*
2-Fluorobiphenyl (Surr)	*66*		*43 - 145*	*09/13/24 07:16*	*09/16/24 17:34*	*1*
2,4,6-Tribromophenol (Surr)	*47*		*31 - 143*	*09/13/24 07:16*	*09/16/24 17:34*	*1*
Terphenyl-d14 (Surr)	*70*		*42 - 157*	*09/13/24 07:16*	*09/16/24 17:34*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0050		0.0093	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
4,4'-DDE	<0.0048		0.0093	0.0048	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
4,4'-DDT	<0.0044		0.0093	0.0044	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
Aldrin	<0.0064		0.0093	0.0064	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
alpha-BHC	<0.0052		0.0093	0.0052	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
alpha-Chlordane	<0.0050		0.0093	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
beta-BHC	<0.0075		0.0093	0.0075	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
Chlordane (technical)	<0.018		0.037	0.018	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
delta-BHC	<0.018		0.037	0.018	mg/Kg	☼	09/12/24 17:29	09/18/24 20:38	20
Dieldrin	<0.0048		0.0093	0.0048	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
Endosulfan I	<0.0050		0.0093	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
Endosulfan II	<0.0051		0.0093	0.0051	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
Endosulfan sulfate	<0.021		0.037	0.021	mg/Kg	☼	09/12/24 17:29	09/18/24 20:38	20
Endrin	<0.0047		0.0093	0.0047	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
Endrin aldehyde	<0.021		0.037	0.021	mg/Kg	☼	09/12/24 17:29	09/18/24 20:38	20
Endrin ketone	<0.0045		0.0093	0.0045	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
gamma-BHC (Lindane)	<0.0046		0.0093	0.0046	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
gamma-Chlordane	<0.0053		0.0093	0.0053	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
Heptachlor	<0.0050		0.0093	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
Heptachlor epoxide	<0.0050		0.0093	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
Methoxychlor	<0.0061		0.046	0.0061	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5
Toxaphene	<0.037		0.092	0.037	mg/Kg	☼	09/12/24 17:29	09/18/24 20:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*1052*	*S1+*	*33 - 148*	*09/12/24 17:29*	*09/18/24 20:26*	*5*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/12/24 17:29*	*09/18/24 20:38*	*20*
Tetrachloro-m-xylene	*57*		*30 - 121*	*09/12/24 17:29*	*09/18/24 20:26*	*5*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/12/24 17:29*	*09/18/24 20:38*	*20*

Client Sample ID: SB21 (0-3)
Lab Sample ID: 500-256054-9

Date Collected: 08/30/24 13:00
Matrix: Solid

Date Received: 09/03/24 11:50
Percent Solids: 90.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:26	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:26	10
PCB-1232	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:26	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:26	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:26	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:26	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:26	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*49 - 129*	*09/12/24 17:29*	*09/18/24 16:26*	*10*
DCB Decachlorobiphenyl	*166*	*S1+*	*37 - 121*	*09/12/24 17:29*	*09/18/24 16:26*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18000**		22		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Antimony	<2.2		2.2		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Arsenic	**3.1**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Barium	**200**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Beryllium	**4.2**		0.43		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Cadmium	**0.49**		0.22		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Calcium	**170000**		110		mg/Kg	☼	09/16/24 14:54	09/18/24 12:38	5
Chromium	**150**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Cobalt	**2.7**		0.54		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Copper	**24**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Iron	**44000**		22		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Lead	**43**		0.54		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Magnesium	**30000**		11		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Manganese	**6600**		5.4		mg/Kg	☼	09/16/24 14:54	09/18/24 12:38	5
Nickel	**18**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Potassium	**1100**		54		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Selenium	**3.8**		1.1		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Silver	<0.54		0.54		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Sodium	**680**		110		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Thallium	**35**		5.4		mg/Kg	☼	09/16/24 14:54	09/18/24 12:38	5
Vanadium	**51**		0.54		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1
Zinc	**120**		2.2		mg/Kg	☼	09/16/24 14:54	09/17/24 23:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/18/24 16:35	09/19/24 07:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.9**		0.26		mg/Kg	☼	09/03/24 16:00	09/04/24 11:50	1
pH (SW846 9045D)	**9.84**		0.20		SU			09/05/24 16:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21 (12.5-15)
Lab Sample ID: 500-256054-10
Date Collected: 08/30/24 13:29
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 88.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.027	*+	0.061	0.027	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
1,1,2,2-Tetrachloroethane	<0.039		0.061	0.039	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
1,1,2-Trichloroethane	<0.044		0.061	0.044	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
1,1-Dichloroethane	<0.022		0.061	0.022	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
1,1-Dichloroethene	<0.029		0.061	0.029	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
1,2-Dichloroethane	<0.035	*+	0.061	0.035	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
1,2-Dichloropropane	<0.023		0.061	0.023	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
2-Butanone (MEK)	<0.19		0.30	0.19	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
2-Hexanone	<0.18		0.30	0.18	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
4-Methyl-2-pentanone (MIBK)	<0.16		0.30	0.16	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Acetone	<0.44		0.61	0.44	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Benzene	<0.0074		0.015	0.0074	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Bromodichloromethane	<0.034		0.061	0.034	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Bromoform	<0.058		0.061	0.058	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Bromomethane	<0.11		0.18	0.11	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Carbon disulfide	<0.065		0.12	0.065	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Carbon tetrachloride	<0.025	*+	0.061	0.025	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Chlorobenzene	<0.025		0.061	0.025	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Chloroethane	<0.028		0.30	0.028	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Chloroform	<0.056		0.12	0.056	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Chloromethane	<0.048		0.30	0.048	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
cis-1,2-Dichloroethene	<0.025		0.061	0.025	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
1,3-Dichloropropene, Total	<0.038		0.061	0.038	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Dibromochloromethane	<0.050		0.061	0.050	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Ethylbenzene	**0.024**		0.015	0.010	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Methyl tert-butyl ether	<0.026		0.061	0.026	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Methylene Chloride	<0.13		0.30	0.13	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Styrene	<0.019		0.061	0.019	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Tetrachloroethene	<0.024		0.061	0.024	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Toluene	<0.013		0.015	0.013	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Xylenes, Total	**0.091**		0.030	0.014	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
trans-1,2-Dichloroethene	<0.027		0.061	0.027	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Trichloroethene	<0.0090		0.030	0.0090	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50
Vinyl chloride	<0.028		0.061	0.028	mg/Kg	☼	08/30/24 13:29	09/12/24 17:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*08/30/24 13:29*	*09/12/24 17:08*	*50*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*	*08/30/24 13:29*	*09/12/24 17:08*	*50*
Dibromofluoromethane	*98*		*75 - 120*	*08/30/24 13:29*	*09/12/24 17:08*	*50*
Toluene-d8 (Surr)	*86*		*75 - 120*	*08/30/24 13:29*	*09/12/24 17:08*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.16**		0.072	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Acenaphthylene	**0.070**	**J**	0.072	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Anthracene	**0.21**		0.072	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Benzo[a]anthracene	**0.17**		0.072	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Benzo[a]pyrene	**0.18**		0.072	0.070	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Benzo[b]fluoranthene	**0.093**		0.072	0.069	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Benzo[g,h,i]perylene	**0.29**		0.072	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21 (12.5-15)
Lab Sample ID: 500-256054-10
Date Collected: 08/30/24 13:29
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 88.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.028		0.072	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Chrysene	**0.36**		0.072	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Dibenz(a,h)anthracene	<0.072		0.072	0.072	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Fluoranthene	**0.18**		0.072	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Fluorene	**0.22**		0.072	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Indeno[1,2,3-cd]pyrene	**0.093**		0.072	0.071	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Naphthalene	<0.013		0.072	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Phenanthrene	**0.93**		0.072	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Pyrene	**1.1**		0.072	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
1,2,4-Trichlorobenzene	<0.052		0.37	0.052	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
1,3-Dichlorobenzene	<0.033		0.37	0.033	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
1,4-Dichlorobenzene	<0.034		0.37	0.034	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2,4,5-Trichlorophenol	<0.027		0.72	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2,4,6-Trichlorophenol	<0.025		0.72	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2,4-Dichlorophenol	<0.026		0.72	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2,4-Dimethylphenol	<0.16		0.72	0.16	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2,4-Dinitrotoluene	<0.041		0.37	0.041	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2-Chloronaphthalene	<0.027		0.37	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2-Chlorophenol	<0.023		0.37	0.023	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2-Methylnaphthalene	**0.66**		0.15	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2-Methylphenol	<0.038		0.37	0.038	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2-Nitroaniline	<0.039		0.37	0.039	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
2-Nitrophenol	<0.049		0.72	0.049	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
3,3'-Dichlorobenzidine	<0.059		0.37	0.059	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
3 & 4 Methylphenol	<0.053		0.37	0.053	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
3-Nitroaniline	<0.033		0.72	0.033	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
4-Bromophenyl phenyl ether	<0.050		0.37	0.050	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
4-Chloro-3-methylphenol	<0.028		0.72	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
4-Chloroaniline	<0.76		1.5	0.76	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
4-Chlorophenyl phenyl ether	<0.095		0.37	0.095	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
4-Nitroaniline	<0.054		0.72	0.054	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Bis(2-chloroethoxy)methane	<0.027		0.37	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Bis(2-chloroethyl)ether	<0.033		0.37	0.033	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
bis(chloroisopropyl) ether	<0.052		0.37	0.052	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Bis(2-ethylhexyl) phthalate	<0.28		0.37	0.28	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Butyl benzyl phthalate	<0.036		0.37	0.036	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Carbazole	<0.029		0.37	0.029	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Dibenzofuran	**0.067**	**J**	0.37	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Diethyl phthalate	<0.033		0.37	0.033	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Di-n-butyl phthalate	<0.023		0.37	0.023	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Di-n-octyl phthalate	<0.51		0.72	0.51	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Hexachlorobutadiene	<0.041		0.37	0.041	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2

Client Sample ID: SB21 (12.5-15)
Date Collected: 08/30/24 13:29
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-10
Matrix: Solid
Percent Solids: 88.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.77		1.5	0.77	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Hexachloroethane	<0.036		0.37	0.036	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Isophorone	<0.037		0.37	0.037	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Nitrobenzene	<0.023		0.072	0.023	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
N-Nitrosodiphenylamine	<0.043		0.37	0.043	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2
Phenol	<0.032		0.37	0.032	mg/Kg	☼	09/13/24 07:16	09/16/24 17:58	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*47*		*31 - 166*	*09/13/24 07:16*	*09/16/24 17:58*	*2*
Phenol-d5 (Surr)	*48*		*30 - 153*	*09/13/24 07:16*	*09/16/24 17:58*	*2*
Nitrobenzene-d5 (Surr)	*50*		*37 - 147*	*09/13/24 07:16*	*09/16/24 17:58*	*2*
2-Fluorobiphenyl (Surr)	*53*		*43 - 145*	*09/13/24 07:16*	*09/16/24 17:58*	*2*
2,4,6-Tribromophenol (Surr)	*43*		*31 - 143*	*09/13/24 07:16*	*09/16/24 17:58*	*2*
Terphenyl-d14 (Surr)	*54*		*42 - 157*	*09/13/24 07:16*	*09/16/24 17:58*	*2*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	**13**		1.2		mg/Kg	☼	08/30/24 13:29	09/06/24 03:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*70 - 130*	*08/30/24 13:29*	*09/06/24 03:18*	*50*
4-Bromofluorobenzene	*103*		*60 - 130*	*08/30/24 13:29*	*09/06/24 03:18*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2100**		180		mg/Kg	☼	09/09/24 07:38	09/11/24 00:46	20
Oil Range Organics (C28-C36)	**2200**		360		mg/Kg	☼	09/09/24 07:38	09/11/24 00:46	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*09/09/24 07:38*	*09/11/24 00:46*	*20*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*09/09/24 07:38*	*09/11/24 00:46*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0049		0.0092	0.0049	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
4,4'-DDE	<0.0047		0.0092	0.0047	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
4,4'-DDT	<0.0043		0.0092	0.0043	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
Aldrin	<0.0063		0.0092	0.0063	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
alpha-BHC	<0.0051		0.0092	0.0051	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
alpha-Chlordane	<0.0049		0.0092	0.0049	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
beta-BHC	<0.0074		0.0092	0.0074	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
Chlordane (technical)	<0.017		0.036	0.017	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
delta-BHC	<0.017		0.037	0.017	mg/Kg	☼	09/12/24 17:29	09/18/24 21:01	20
Dieldrin	<0.0048		0.0092	0.0048	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
Endosulfan I	<0.0049		0.0092	0.0049	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
Endosulfan II	<0.0050		0.0092	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
Endosulfan sulfate	<0.020		0.037	0.020	mg/Kg	☼	09/12/24 17:29	09/18/24 21:01	20
Endrin	<0.0047		0.0092	0.0047	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
Endrin aldehyde	<0.021		0.037	0.021	mg/Kg	☼	09/12/24 17:29	09/18/24 21:01	20

Client Sample ID: SB21 (12.5-15)
Date Collected: 08/30/24 13:29
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-10
Matrix: Solid
Percent Solids: 88.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	<0.0044		0.0092	0.0044	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
gamma-BHC (Lindane)	<0.0045		0.0092	0.0045	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
gamma-Chlordane	<0.0053		0.0092	0.0053	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
Heptachlor	<0.0049		0.0092	0.0049	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
Heptachlor epoxide	<0.0049		0.0092	0.0049	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
Methoxychlor	<0.0060		0.045	0.0060	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5
Toxaphene	<0.037		0.090	0.037	mg/Kg	☼	09/12/24 17:29	09/18/24 20:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*33 - 148*	*09/12/24 17:29*	*09/18/24 20:50*	*5*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/12/24 17:29*	*09/18/24 21:01*	*20*
Tetrachloro-m-xylene	*52*		*30 - 121*	*09/12/24 17:29*	*09/18/24 20:50*	*5*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/12/24 17:29*	*09/18/24 21:01*	*20*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:41	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:41	10
PCB-1232	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:41	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:41	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:41	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:41	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:41	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/12/24 17:29	09/18/24 16:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*49 - 129*	*09/12/24 17:29*	*09/18/24 16:41*	*10*
DCB Decachlorobiphenyl	*110*		*37 - 121*	*09/12/24 17:29*	*09/18/24 16:41*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7400**		20		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Antimony	<2.0		2.0		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Arsenic	**2.3**		0.99		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Barium	**710**		0.99		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Beryllium	**1.9**		0.40		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Cadmium	<0.20		0.20		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Calcium	**35000**		20		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Chromium	**2.8**		0.99		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Cobalt	<0.50		0.50		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Copper	**2.8**		0.99		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Iron	**8600**		20		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Lead	**3.9**		0.50		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Magnesium	**20000**		9.9		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Manganese	**660**		0.99		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Nickel	**2.7**		0.99		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Potassium	**560**		50		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Selenium	**1.2**		0.99		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Silver	<0.50		0.50		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Sodium	**220**		99		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21 (12.5-15)
Lab Sample ID: 500-256054-10
Date Collected: 08/30/24 13:29
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 88.4

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	3.3		0.99		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Vanadium	5.5		0.50		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1
Zinc	17		2.0		mg/Kg	☼	09/16/24 14:54	09/17/24 23:53	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/18/24 16:35	09/19/24 07:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26		mg/Kg	☼	09/03/24 16:00	09/04/24 11:52	1
Sulfide (SW846 9034)	240		34		mg/Kg	☼	09/05/24 07:21	09/05/24 13:16	1
pH (SW846 9045D)	8.95		0.20		SU			09/05/24 16:56	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB22 (0-3)
Lab Sample ID: 500-256054-11
Date Collected: 08/30/24 14:04
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 90.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.024	*+	0.054	0.024	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
1,1,2,2-Tetrachloroethane	<0.035		0.054	0.035	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
1,1,2-Trichloroethane	<0.040		0.054	0.040	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
1,1-Dichloroethane	<0.020		0.054	0.020	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
1,1-Dichloroethene	<0.026		0.054	0.026	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
1,2-Dichloroethane	<0.031	*+	0.054	0.031	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
1,2-Dichloropropane	<0.020		0.054	0.020	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
2-Butanone (MEK)	<0.17		0.27	0.17	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
2-Hexanone	<0.16		0.27	0.16	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
4-Methyl-2-pentanone (MIBK)	<0.15		0.27	0.15	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Acetone	<0.39		0.54	0.39	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Benzene	<0.0067		0.014	0.0067	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Bromodichloromethane	<0.031		0.054	0.031	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Bromoform	<0.052		0.054	0.052	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Bromomethane	<0.097		0.16	0.097	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Carbon disulfide	<0.058		0.11	0.058	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Carbon tetrachloride	<0.023	*+	0.054	0.023	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Chlorobenzene	<0.022		0.054	0.022	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Chloroethane	<0.026		0.27	0.026	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Chloroform	<0.050		0.11	0.050	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Chloromethane	<0.043		0.27	0.043	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
cis-1,2-Dichloroethene	<0.023		0.054	0.023	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
1,3-Dichloropropene, Total	<0.034		0.054	0.034	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Dibromochloromethane	<0.045		0.054	0.045	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Ethylbenzene	<0.0093		0.014	0.0093	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Methyl tert-butyl ether	<0.023		0.054	0.023	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Methylene Chloride	<0.12		0.27	0.12	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Styrene	<0.017		0.054	0.017	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Tetrachloroethene	<0.021		0.054	0.021	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Toluene	<0.011		0.014	0.011	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Xylenes, Total	<0.013		0.027	0.013	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
trans-1,2-Dichloroethene	<0.024		0.054	0.024	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Trichloroethene	<0.0081		0.027	0.0081	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50
Vinyl chloride	<0.025		0.054	0.025	mg/Kg	☼	08/30/24 14:04	09/12/24 17:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*08/30/24 14:04*	*09/12/24 17:34*	*50*
4-Bromofluorobenzene (Surr)	*83*		*72 - 124*	*08/30/24 14:04*	*09/12/24 17:34*	*50*
Dibromofluoromethane	*97*		*75 - 120*	*08/30/24 14:04*	*09/12/24 17:34*	*50*
Toluene-d8 (Surr)	*85*		*75 - 120*	*08/30/24 14:04*	*09/12/24 17:34*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.076**		0.071	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Acenaphthylene	**0.058**	**J**	0.071	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Anthracene	**0.11**		0.071	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Benzo[a]anthracene	**0.17**		0.071	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Benzo[a]pyrene	**0.21**		0.071	0.069	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Benzo[b]fluoranthene	**0.22**		0.071	0.068	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Benzo[g,h,i]perylene	**0.17**		0.071	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB22 (0-3)
Lab Sample ID: 500-256054-11
Date Collected: 08/30/24 14:04
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 90.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.087**		0.071	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Chrysene	**0.31**		0.071	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Dibenz(a,h)anthracene	<0.071		0.071	0.071	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Fluoranthene	**0.33**		0.071	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Fluorene	**0.12**		0.071	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Indeno[1,2,3-cd]pyrene	**0.11**		0.071	0.070	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Naphthalene	<0.013		0.071	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Phenanthrene	**0.051**	**J**	0.071	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Pyrene	**0.44**		0.071	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2-Methylnaphthalene	<0.014		0.15	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2-Nitroaniline	<0.039		0.36	0.039	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
2-Nitrophenol	<0.049		0.71	0.049	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
3,3'-Dichlorobenzidine	<0.059		0.36	0.059	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
3 & 4 Methylphenol	<0.053		0.36	0.053	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
3-Nitroaniline	<0.033		0.71	0.033	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
4,6-Dinitro-2-methylphenol	<0.40		1.5	0.40	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
4-Chloroaniline	<0.75		1.5	0.75	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
bis(chloroisopropyl) ether	<0.052		0.36	0.052	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Carbazole	<0.028		0.36	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Dibenzofuran	**0.043**	**J**	0.36	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2

Client Sample ID: SB22 (0-3)
Lab Sample ID: 500-256054-11
Date Collected: 08/30/24 14:04
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 90.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76		1.5	0.76	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
N-Nitrosodiphenylamine	<0.043		0.36	0.043	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/13/24 07:16	09/16/24 18:22	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*56*		*31 - 166*	*09/13/24 07:16*	*09/16/24 18:22*	*2*
Phenol-d5 (Surr)	*56*		*30 - 153*	*09/13/24 07:16*	*09/16/24 18:22*	*2*
Nitrobenzene-d5 (Surr)	*58*		*37 - 147*	*09/13/24 07:16*	*09/16/24 18:22*	*2*
2-Fluorobiphenyl (Surr)	*59*		*43 - 145*	*09/13/24 07:16*	*09/16/24 18:22*	*2*
2,4,6-Tribromophenol (Surr)	*53*		*31 - 143*	*09/13/24 07:16*	*09/16/24 18:22*	*2*
Terphenyl-d14 (Surr)	*60*		*42 - 157*	*09/13/24 07:16*	*09/16/24 18:22*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00097		0.0018	0.00097	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
4,4'-DDE	<0.00093		0.0018	0.00093	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
4,4'-DDT	<0.00086		0.0018	0.00086	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Aldrin	<0.0013		0.0018	0.0013	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
alpha-BHC	<0.0010		0.0018	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
alpha-Chlordane	<0.00096		0.0018	0.00096	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
beta-BHC	<0.0015		0.0018	0.0015	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Chlordane (technical)	<0.0034		0.0072	0.0034	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
delta-BHC	<0.00086		0.0018	0.00086	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Dieldrin	<0.00094		0.0018	0.00094	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Endosulfan I	<0.00098		0.0018	0.00098	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Endosulfan II	<0.00099		0.0018	0.00099	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Endosulfan sulfate	<0.0010		0.0018	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Endrin	<0.00092		0.0018	0.00092	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Endrin aldehyde	<0.0010		0.0018	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Endrin ketone	<0.00088		0.0018	0.00088	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
gamma-BHC (Lindane)	<0.00090		0.0018	0.00090	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Heptachlor	<0.00098		0.0018	0.00098	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Heptachlor epoxide	<0.00097		0.0018	0.00097	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Methoxychlor	<0.0012		0.0089	0.0012	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1
Toxaphene	<0.0072		0.018	0.0072	mg/Kg	☼	09/12/24 17:29	09/17/24 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*33 - 148*	*09/12/24 17:29*	*09/17/24 19:26*	*1*
Tetrachloro-m-xylene	*71*		*30 - 121*	*09/12/24 17:29*	*09/17/24 19:26*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:02	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:02	1

Client Sample ID: SB22 (0-3)
Date Collected: 08/30/24 14:04
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-11
Matrix: Solid
Percent Solids: 90.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:02	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:02	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:02	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:02	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:02	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*39*	*S1-*	*49 - 129*	*09/12/24 17:29*	*09/18/24 00:02*	*1*
DCB Decachlorobiphenyl	*41*		*37 - 121*	*09/12/24 17:29*	*09/18/24 00:02*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		19		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Antimony	<1.9		1.9		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Arsenic	**4.5**		0.95		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Barium	**110**		0.95		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Beryllium	**2.3**		0.38		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Cadmium	**0.57**		0.19		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Calcium	**39000**		19		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Chromium	**18**		0.95		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Cobalt	**3.8**		0.47		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Copper	**18**		0.95		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Iron	**42000**		19		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Lead	**54**		0.47		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Magnesium	**23000**		9.5		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Manganese	**910**		0.95		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Nickel	**18**		0.95		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Potassium	**1600**		47		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Selenium	**1.1**		0.95		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Silver	<0.47		0.47		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Sodium	**360**		95		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Thallium	**3.6**		0.95		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Vanadium	**14**		0.47		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1
Zinc	**470**		1.9		mg/Kg	☼	09/16/24 14:54	09/17/24 23:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.044**		0.017		mg/Kg	☼	09/18/24 16:35	09/19/24 07:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.1**		0.25		mg/Kg	☼	09/03/24 16:00	09/04/24 11:54	1
pH (SW846 9045D)	**8.43**		0.20		SU			09/05/24 16:59	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB22 (10-12.5)
Lab Sample ID: 500-256054-12
Date Collected: 08/30/24 14:22
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 92.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00070		0.0017	0.00070	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
1,1,2,2-Tetrachloroethane	<0.00085		0.0017	0.00085	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
1,1,2-Trichloroethane	<0.00064		0.0017	0.00064	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
1,1-Dichloroethane	<0.00065		0.0017	0.00065	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
1,1-Dichloroethene	<0.00071		0.0017	0.00071	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
1,2-Dichloroethane	<0.0011		0.0043	0.0011	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
1,2-Dichloropropane	<0.00044		0.0017	0.00044	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
2-Hexanone	<0.0026		0.0043	0.0026	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
4-Methyl-2-pentanone (MIBK)	<0.0031		0.0043	0.0031	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Acetone	<0.0072		0.017	0.0072	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Benzene	<0.00054		0.0017	0.00054	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Bromodichloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Bromoform	<0.0010		0.0017	0.0010	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Bromomethane	<0.0021		0.0043	0.0021	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Carbon disulfide	**0.0026**	**J**	0.0043	0.00079	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Carbon tetrachloride	<0.00058		0.0017	0.00058	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Chlorobenzene	<0.00073		0.0017	0.00073	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Chloroethane	<0.0014		0.0043	0.0014	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Chloroform	<0.0012		0.0017	0.0012	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Chloromethane	<0.00083		0.0043	0.00083	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
cis-1,2-Dichloroethene	<0.00069		0.0017	0.00069	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
1,3-Dichloropropene, Total	<0.00082		0.0017	0.00082	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Dibromochloromethane	<0.00080		0.0017	0.00080	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Ethylbenzene	<0.00090		0.0017	0.00090	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Methyl tert-butyl ether	<0.00055		0.0017	0.00055	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Methylene Chloride	<0.0018		0.0043	0.0018	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Styrene	<0.00077		0.0017	0.00077	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Tetrachloroethene	<0.00096		0.0017	0.00096	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Toluene	<0.00035		0.0017	0.00035	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Xylenes, Total	<0.00059		0.0034	0.00059	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
trans-1,2-Dichloroethene	<0.00065		0.0017	0.00065	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Trichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1
Vinyl chloride	<0.00070		0.0017	0.00070	mg/Kg	☼	08/30/24 14:22	09/10/24 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*08/30/24 14:22*	*09/10/24 14:48*	*1*
4-Bromofluorobenzene (Surr)	*152*	*S1+*	*75 - 131*	*08/30/24 14:22*	*09/10/24 14:48*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*08/30/24 14:22*	*09/10/24 14:48*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*08/30/24 14:22*	*09/10/24 14:48*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.036**		0.035	0.0071	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Acenaphthylene	**0.014**	**J**	0.035	0.0059	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Anthracene	<0.0071		0.035	0.0071	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Benzo[a]anthracene	<0.0074		0.035	0.0074	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Benzo[a]pyrene	<0.034		0.035	0.034	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Benzo[b]fluoranthene	<0.033		0.035	0.033	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Benzo[g,h,i]perylene	<0.0075		0.035	0.0075	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB22 (10-12.5)
Lab Sample ID: 500-256054-12
Date Collected: 08/30/24 14:22
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.035	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Chrysene	<0.0092		0.035	0.0092	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Fluoranthene	**0.059**		0.035	0.0081	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Fluorene	**0.022**	**J**	0.035	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Indeno[1,2,3-cd]pyrene	<0.034		0.035	0.034	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Naphthalene	<0.0063		0.035	0.0063	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Phenanthrene	<0.0076		0.035	0.0076	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Pyrene	**0.073**		0.035	0.0095	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
1,4-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2,4-Dimethylphenol	<0.078		0.35	0.078	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2,4-Dinitrophenol	<0.20		0.70	0.20	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2-Methylnaphthalene	<0.0070		0.070	0.0070	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2-Methylphenol	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
3,3'-Dichlorobenzidine	<0.028		0.18	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
3 & 4 Methylphenol	<0.025		0.18	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
4,6-Dinitro-2-methylphenol	<0.20		0.70	0.20	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
4-Chloroaniline	<0.36		0.70	0.36	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
4-Nitrophenol	<0.13		0.70	0.13	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Butyl benzyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Dibenzofuran	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Dimethyl phthalate	<0.0076		0.18	0.0076	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Di-n-octyl phthalate	<0.24		0.35	0.24	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Hexachlorobenzene	<0.0067		0.070	0.0067	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1

Client Sample ID: SB22 (10-12.5)
Lab Sample ID: 500-256054-12
Date Collected: 08/30/24 14:22
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.70	0.37	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Hexachloroethane	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
N-Nitrosodi-n-propylamine	<0.0069		0.070	0.0069	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Pentachlorophenol	<0.087		0.70	0.087	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*63*		*31 - 166*	*09/13/24 07:16*	*09/16/24 18:46*	*1*
Phenol-d5 (Surr)	*64*		*30 - 153*	*09/13/24 07:16*	*09/16/24 18:46*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*09/13/24 07:16*	*09/16/24 18:46*	*1*
2-Fluorobiphenyl (Surr)	*66*		*43 - 145*	*09/13/24 07:16*	*09/16/24 18:46*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*31 - 143*	*09/13/24 07:16*	*09/16/24 18:46*	*1*
Terphenyl-d14 (Surr)	*72*		*42 - 157*	*09/13/24 07:16*	*09/16/24 18:46*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00095		0.0018	0.00095	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
4,4'-DDE	<0.00091		0.0018	0.00091	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
4,4'-DDT	<0.00084		0.0018	0.00084	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Aldrin	<0.0012		0.0018	0.0012	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
alpha-BHC	<0.0010		0.0018	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
alpha-Chlordane	<0.00095		0.0018	0.00095	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
beta-BHC	<0.0014		0.0018	0.0014	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Chlordane (technical)	<0.0034		0.0070	0.0034	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
delta-BHC	<0.00085		0.0018	0.00085	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Dieldrin	<0.00093		0.0018	0.00093	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Endosulfan I	<0.00096		0.0018	0.00096	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Endosulfan II	<0.00097		0.0018	0.00097	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Endosulfan sulfate	<0.00098		0.0018	0.00098	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Endrin	<0.00090		0.0018	0.00090	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Endrin aldehyde	<0.0010		0.0018	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Endrin ketone	<0.00086		0.0018	0.00086	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
gamma-BHC (Lindane)	<0.00088		0.0018	0.00088	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Heptachlor	<0.00096		0.0018	0.00096	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Heptachlor epoxide	<0.00095		0.0018	0.00095	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Methoxychlor	<0.0012		0.0087	0.0012	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1
Toxaphene	<0.0071		0.018	0.0071	mg/Kg	☼	09/12/24 17:29	09/17/24 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*33 - 148*	*09/12/24 17:29*	*09/17/24 15:33*	*1*
Tetrachloro-m-xylene	*76*		*30 - 121*	*09/12/24 17:29*	*09/17/24 15:33*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:17	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:17	1

Client Sample ID: SB22 (10-12.5)
Lab Sample ID: 500-256054-12
Date Collected: 08/30/24 14:22
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 92.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:17	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:17	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:17	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:17	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:17	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*49 - 129*	*09/12/24 17:29*	*09/18/24 00:17*	*1*
DCB Decachlorobiphenyl	*65*		*37 - 121*	*09/12/24 17:29*	*09/18/24 00:17*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1600**		20		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Antimony	<2.0		2.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Arsenic	**3.1**		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Barium	**4.8**		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Beryllium	<0.41		0.41		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Cadmium	<0.20		0.20		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Calcium	**42000**		20		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Chromium	**5.6**		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Cobalt	**3.6**		0.51		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Copper	**4.3**		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Iron	**7700**		20		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Lead	**2.1**		0.51		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Magnesium	**23000**		10		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Manganese	**260**		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Nickel	**5.8**		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Potassium	**300**		51		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Selenium	<1.0		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Silver	<0.51		0.51		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Sodium	**110**		100		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Thallium	**1.3**		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Vanadium	**12**		0.51		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1
Zinc	**18**		2.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016		mg/Kg	☼	09/18/24 16:35	09/19/24 07:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24		mg/Kg	☼	09/03/24 16:00	09/04/24 11:55	1
pH (SW846 9045D)	**8.42**		0.20		SU			09/05/24 17:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB23 (0-3)
Lab Sample ID: 500-256054-13
Date Collected: 08/30/24 15:09
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 91.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.0012**	**J**	0.0022	0.00090	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
1,1,2,2-Tetrachloroethane	<0.0011	*3	0.0022	0.0011	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
1,1,2-Trichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
1,1-Dichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
1,1-Dichloroethene	<0.00092		0.0022	0.00092	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
1,2-Dichloroethane	<0.0014		0.0056	0.0014	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
1,2-Dichloropropane	<0.00058		0.0022	0.00058	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
2-Butanone (MEK)	<0.0025		0.0056	0.0025	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Acetone	<0.0094		0.022	0.0094	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Benzene	<0.00070		0.0022	0.00070	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Bromodichloromethane	<0.00072		0.0022	0.00072	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Bromomethane	<0.0027		0.0056	0.0027	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Carbon disulfide	**0.0016**	**J**	0.0056	0.0010	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Carbon tetrachloride	<0.00076		0.0022	0.00076	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Chlorobenzene	<0.00094		0.0022	0.00094	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
cis-1,2-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Methyl tert-butyl ether	<0.00072		0.0022	0.00072	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Styrene	<0.0010		0.0022	0.0010	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Tetrachloroethene	<0.0013		0.0022	0.0013	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Toluene	<0.00045		0.0022	0.00045	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Xylenes, Total	<0.00077		0.0045	0.00077	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
trans-1,2-Dichloroethene	<0.00084		0.0022	0.00084	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Trichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1
Vinyl chloride	<0.00091		0.0022	0.00091	mg/Kg	☼	08/30/24 15:09	09/10/24 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*08/30/24 15:09*	*09/10/24 15:13*	*1*
4-Bromofluorobenzene (Surr)	*142*	*3 S1+	*75 - 131*	*08/30/24 15:09*	*09/10/24 15:13*	*1*
Dibromofluoromethane	*110*		*75 - 126*	*08/30/24 15:09*	*09/10/24 15:13*	*1*
Toluene-d8 (Surr)	*123*		*75 - 124*	*08/30/24 15:09*	*09/10/24 15:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.024**	**J**	0.035	0.0072	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Acenaphthylene	**0.048**		0.035	0.0060	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Anthracene	**0.087**		0.035	0.0073	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Benzo[a]anthracene	**0.31**		0.035	0.0075	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Benzo[a]pyrene	**0.36**		0.035	0.034	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Benzo[b]fluoranthene	**0.50**		0.035	0.034	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Benzo[g,h,i]perylene	**0.23**		0.035	0.0077	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB23 (0-3)
Lab Sample ID: 500-256054-13
Date Collected: 08/30/24 15:09
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 91.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.22**		0.035	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Chrysene	**0.36**		0.035	0.0094	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Dibenz(a,h)anthracene	**0.060**		0.035	0.035	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Fluoranthene	**0.56**		0.035	0.0082	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Fluorene	**0.020**	**J**	0.035	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Indeno[1,2,3-cd]pyrene	**0.26**		0.035	0.035	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Naphthalene	**0.041**		0.035	0.0064	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Phenanthrene	**0.44**		0.035	0.0077	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Pyrene	**0.49**		0.035	0.0097	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2,4-Dichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2,4-Dimethylphenol	<0.079		0.35	0.079	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2,4-Dinitrophenol	<0.21		0.72	0.21	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2-Methylnaphthalene	**0.060**	**J**	0.072	0.0071	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
3 & 4 Methylphenol	**0.034**	**J**	0.18	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
4,6-Dinitro-2-methylphenol	<0.20		0.72	0.20	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
4-Chloroaniline	<0.37		0.72	0.37	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
4-Nitrophenol	<0.13		0.72	0.13	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Carbazole	**0.032**	**J**	0.18	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Dibenzofuran	**0.043**	**J**	0.18	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Hexachlorobenzene	<0.0068		0.072	0.0068	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1

Client Sample ID: SB23 (0-3)
Lab Sample ID: 500-256054-13
Date Collected: 08/30/24 15:09
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 91.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.72	0.38	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
N-Nitrosodi-n-propylamine	<0.0070		0.072	0.0070	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Pentachlorophenol	<0.089		0.72	0.089	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1
Phenol	**0.047**	**J**	0.18	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*60*		*31 - 166*	*09/13/24 07:16*	*09/16/24 19:10*	*1*
Phenol-d5 (Surr)	*62*		*30 - 153*	*09/13/24 07:16*	*09/16/24 19:10*	*1*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*09/13/24 07:16*	*09/16/24 19:10*	*1*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/13/24 07:16*	*09/16/24 19:10*	*1*
2,4,6-Tribromophenol (Surr)	*50*		*31 - 143*	*09/13/24 07:16*	*09/16/24 19:10*	*1*
Terphenyl-d14 (Surr)	*67*		*42 - 157*	*09/13/24 07:16*	*09/16/24 19:10*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00096		0.0018	0.00096	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
4,4'-DDE	<0.00092		0.0018	0.00092	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
4,4'-DDT	<0.00085		0.0018	0.00085	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Aldrin	<0.0012		0.0018	0.0012	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
alpha-BHC	<0.0010		0.0018	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
alpha-Chlordane	<0.00095		0.0018	0.00095	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
beta-BHC	<0.0014		0.0018	0.0014	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Chlordane (technical)	<0.0034		0.0071	0.0034	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
delta-BHC	<0.00085		0.0018	0.00085	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Dieldrin	<0.00093		0.0018	0.00093	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Endosulfan I	<0.00097		0.0018	0.00097	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Endosulfan II	<0.00098		0.0018	0.00098	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Endosulfan sulfate	<0.00099		0.0018	0.00099	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Endrin	<0.00091		0.0018	0.00091	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Endrin aldehyde	<0.0010		0.0018	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Endrin ketone	<0.00087		0.0018	0.00087	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
gamma-BHC (Lindane)	<0.00089		0.0018	0.00089	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Heptachlor	<0.00097		0.0018	0.00097	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Heptachlor epoxide	<0.00096		0.0018	0.00096	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Methoxychlor	<0.0012		0.0088	0.0012	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1
Toxaphene	<0.0071		0.018	0.0071	mg/Kg	☼	09/12/24 17:29	09/17/24 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*108*		*33 - 148*	*09/12/24 17:29*	*09/17/24 16:31*	*1*
Tetrachloro-m-xylene	*97*		*30 - 121*	*09/12/24 17:29*	*09/17/24 16:31*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:32	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:32	1

Client Sample ID: SB23 (0-3)
Date Collected: 08/30/24 15:09
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-13
Matrix: Solid
Percent Solids: 91.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:32	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:32	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:32	1
PCB-1254	**0.034**		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:32	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:32	1
Polychlorinated biphenyls, Total	**0.034**		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*49 - 129*	*09/12/24 17:29*	*09/18/24 00:32*	*1*
DCB Decachlorobiphenyl	*61*		*37 - 121*	*09/12/24 17:29*	*09/18/24 00:32*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7600**		19		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Antimony	<1.9		1.9		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Arsenic	**7.8**		0.95		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Barium	**87**		0.95		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Beryllium	**1.3**		0.38		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Cadmium	**0.55**		0.19		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Calcium	**46000**		19		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Chromium	**47**		0.95		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Cobalt	**6.4**		0.47		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Copper	**41**		0.95		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Iron	**47000**		19		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Lead	**93**		0.47		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Magnesium	**16000**		9.5		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Manganese	**1400**		0.95		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Nickel	**22**		0.95		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Potassium	**1200**		47		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Selenium	**1.4**		0.95		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Silver	<0.47		0.47		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Sodium	**350**		95		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Thallium	**6.5**		0.95		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Vanadium	**39**		0.47		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1
Zinc	**160**		1.9		mg/Kg	☼	09/16/24 14:54	09/18/24 00:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.080**		0.017		mg/Kg	☼	09/18/24 16:35	09/19/24 07:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.93**		0.25		mg/Kg	☼	09/03/24 16:00	09/04/24 11:57	1
pH (SW846 9045D)	**8.55**		0.20		SU			09/05/24 17:03	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB23 (5-7.5)
Lab Sample ID: 500-256054-14
Date Collected: 08/30/24 15:17
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 92.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00080		0.0020	0.00080	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
1,1,2,2-Tetrachloroethane	<0.00098		0.0020	0.00098	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
1,1,2-Trichloroethane	<0.00074		0.0020	0.00074	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
1,1-Dichloroethane	<0.00074		0.0020	0.00074	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
1,1-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
1,2-Dichloroethane	<0.0013		0.0049	0.0013	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
1,2-Dichloropropane	<0.00051		0.0020	0.00051	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
2-Butanone (MEK)	**0.0074**		0.0049	0.0022	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
2-Hexanone	<0.0030		0.0049	0.0030	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0049	0.0035	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Acetone	**0.081**		0.020	0.0083	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Benzene	<0.00062		0.0020	0.00062	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Bromodichloromethane	<0.00063		0.0020	0.00063	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Bromomethane	<0.0024		0.0049	0.0024	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Carbon disulfide	<0.00091		0.0049	0.00091	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Carbon tetrachloride	<0.00067		0.0020	0.00067	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Chlorobenzene	<0.00083		0.0020	0.00083	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Chloroethane	<0.0016		0.0049	0.0016	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Chloromethane	<0.00096		0.0049	0.00096	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
cis-1,2-Dichloroethene	<0.00080		0.0020	0.00080	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
1,3-Dichloropropene, Total	<0.00095		0.0020	0.00095	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Dibromochloromethane	<0.00092		0.0020	0.00092	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Ethylbenzene	<0.0010		0.0020	0.0010	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Methyl tert-butyl ether	<0.00064		0.0020	0.00064	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Methylene Chloride	**0.0033**	**J**	0.0049	0.0021	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Styrene	<0.00089		0.0020	0.00089	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Toluene	**0.00050**	**J**	0.0020	0.00040	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Xylenes, Total	<0.00068		0.0040	0.00068	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
trans-1,2-Dichloroethene	<0.00075		0.0020	0.00075	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1
Vinyl chloride	<0.00081		0.0020	0.00081	mg/Kg	☼	08/30/24 15:17	09/10/24 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*08/30/24 15:17*	*09/10/24 15:38*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 131*	*08/30/24 15:17*	*09/10/24 15:38*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*08/30/24 15:17*	*09/10/24 15:38*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*08/30/24 15:17*	*09/10/24 15:38*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.094**		0.034	0.0071	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Acenaphthylene	**0.025**	**J**	0.034	0.0059	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Anthracene	**0.24**		0.034	0.0071	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Benzo[a]anthracene	**0.63**		0.034	0.0074	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Benzo[a]pyrene	**0.62**		0.034	0.033	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Benzo[b]fluoranthene	**0.82**		0.034	0.033	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Benzo[g,h,i]perylene	**0.41**		0.034	0.0075	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB23 (5-7.5)
Lab Sample ID: 500-256054-14
Date Collected: 08/30/24 15:17
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.33**		0.034	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Chrysene	**0.77**		0.034	0.0091	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Dibenz(a,h)anthracene	**0.11**		0.034	0.034	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Fluoranthene	**1.4**		0.034	0.0081	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Fluorene	**0.086**		0.034	0.010	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Indeno[1,2,3-cd]pyrene	**0.38**		0.034	0.034	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Naphthalene	**0.041**		0.034	0.0063	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Phenanthrene	**1.0**		0.034	0.0075	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Pyrene	**1.1**		0.034	0.0095	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
1,2,4-Trichlorobenzene	<0.025		0.17	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
1,3-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2,4-Dimethylphenol	<0.078		0.34	0.078	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2,4-Dinitrophenol	<0.20		0.70	0.20	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2,4-Dinitrotoluene	<0.020		0.17	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2-Methylnaphthalene	**0.045**	**J**	0.070	0.0070	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2-Nitroaniline	<0.019		0.17	0.019	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
2-Nitrophenol	<0.024		0.34	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
3-Nitroaniline	<0.016		0.34	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
4,6-Dinitro-2-methylphenol	<0.20		0.70	0.20	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
4-Bromophenyl phenyl ether	<0.024		0.17	0.024	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
4-Chloroaniline	<0.36		0.70	0.36	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
4-Nitroaniline	<0.026		0.34	0.026	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
4-Nitrophenol	<0.13		0.70	0.13	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
bis(chloroisopropyl) ether	<0.025		0.17	0.025	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Bis(2-ethylhexyl) phthalate	<0.14		0.17	0.14	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Carbazole	**0.11**	**J**	0.17	0.014	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Dibenzofuran	**0.054**	**J**	0.17	0.012	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Dimethyl phthalate	<0.0075		0.17	0.0075	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Hexachlorobenzene	<0.0066		0.070	0.0066	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Hexachlorobutadiene	<0.020		0.17	0.020	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1

Client Sample ID: SB23 (5-7.5)
Lab Sample ID: 500-256054-14
Date Collected: 08/30/24 15:17
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.70	0.37	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
N-Nitrosodi-n-propylamine	<0.0068		0.070	0.0068	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
N-Nitrosodiphenylamine	<0.021		0.17	0.021	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Pentachlorophenol	<0.087		0.70	0.087	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/13/24 07:16	09/16/24 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*62*		*31 - 166*	*09/13/24 07:16*	*09/16/24 19:35*	*1*
Phenol-d5 (Surr)	*62*		*30 - 153*	*09/13/24 07:16*	*09/16/24 19:35*	*1*
Nitrobenzene-d5 (Surr)	*63*		*37 - 147*	*09/13/24 07:16*	*09/16/24 19:35*	*1*
2-Fluorobiphenyl (Surr)	*63*		*43 - 145*	*09/13/24 07:16*	*09/16/24 19:35*	*1*
2,4,6-Tribromophenol (Surr)	*23*	*S1-*	*31 - 143*	*09/13/24 07:16*	*09/16/24 19:35*	*1*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*09/13/24 07:16*	*09/16/24 19:35*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00096		0.0018	0.00096	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
4,4'-DDE	<0.00092		0.0018	0.00092	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
4,4'-DDT	<0.00085		0.0018	0.00085	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
Aldrin	<0.0012		0.0018	0.0012	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
alpha-BHC	<0.0010		0.0018	0.0010	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
alpha-Chlordane	<0.00096		0.0018	0.00096	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
beta-BHC	<0.0014		0.0018	0.0014	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
Chlordane (technical)	<0.0034		0.0071	0.0034	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
delta-BHC	<0.0043		0.0090	0.0043	mg/Kg	☼	09/12/24 17:29	09/18/24 18:18	5
Dieldrin	<0.00094		0.0018	0.00094	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
Endosulfan I	<0.00097		0.0018	0.00097	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
Endosulfan II	<0.00098		0.0018	0.00098	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
Endosulfan sulfate	<0.0050		0.0090	0.0050	mg/Kg	☼	09/12/24 17:29	09/18/24 18:18	5
Endrin	<0.00091		0.0018	0.00091	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
Endrin aldehyde	<0.0051		0.0090	0.0051	mg/Kg	☼	09/12/24 17:29	09/18/24 18:18	5
Endrin ketone	<0.00087		0.0018	0.00087	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
gamma-BHC (Lindane)	<0.00089		0.0018	0.00089	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
gamma-Chlordane	<0.0010		0.0018	0.0010	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
Heptachlor	<0.00097		0.0018	0.00097	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
Heptachlor epoxide	<0.00096		0.0018	0.00096	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
Methoxychlor	<0.0012		0.0088	0.0012	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1
Toxaphene	<0.0072		0.018	0.0072	mg/Kg	☼	09/12/24 17:29	09/18/24 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*176*	*S1+*	*33 - 148*	*09/12/24 17:29*	*09/18/24 18:06*	*1*
DCB Decachlorobiphenyl	*273*	*S1+*	*33 - 148*	*09/12/24 17:29*	*09/18/24 18:18*	*5*
Tetrachloro-m-xylene	*62*		*30 - 121*	*09/12/24 17:29*	*09/18/24 18:06*	*1*
Tetrachloro-m-xylene	*66*		*30 - 121*	*09/12/24 17:29*	*09/18/24 18:18*	*5*

Client Sample ID: SB23 (5-7.5)
Date Collected: 08/30/24 15:17
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-14
Matrix: Solid
Percent Solids: 92.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:47	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:47	1
PCB-1232	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:47	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:47	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:47	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:47	1
PCB-1260	**0.13**		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:47	1
Polychlorinated biphenyls, Total	**0.13**		0.018		mg/Kg	☼	09/12/24 17:29	09/18/24 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*53*		*49 - 129*	*09/12/24 17:29*	*09/18/24 00:47*	*1*
DCB Decachlorobiphenyl	*56*		*37 - 121*	*09/12/24 17:29*	*09/18/24 00:47*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5900**		20		mg/Kg	☼	09/16/24 14:54	09/18/24 00:11	1
Antimony	<2.0		2.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:11	1
Arsenic	<5.1		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Barium	**100**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Beryllium	**2.4**		2.0		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Cadmium	**2.9**		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Calcium	**96000**		100		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Chromium	**160**		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:11	1
Cobalt	**7.9**		0.51		mg/Kg	☼	09/16/24 14:54	09/18/24 00:11	1
Copper	**70**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Iron	**160000**		100		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Lead	**280**		2.5		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Magnesium	**22000**		10		mg/Kg	☼	09/16/24 14:54	09/18/24 00:11	1
Manganese	**1900**		1.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:11	1
Nickel	**65**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Potassium	**270**		51		mg/Kg	☼	09/16/24 14:54	09/18/24 00:11	1
Selenium	<5.1		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Silver	<2.5		2.5		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Sodium	**160**		100		mg/Kg	☼	09/16/24 14:54	09/18/24 00:11	1
Thallium	**14**		5.1		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Vanadium	**31**		2.5		mg/Kg	☼	09/16/24 14:54	09/18/24 12:42	5
Zinc	**660**		2.0		mg/Kg	☼	09/16/24 14:54	09/18/24 00:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.018		mg/Kg	☼	09/18/24 16:35	09/19/24 07:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.82**		0.26		mg/Kg	☼	09/03/24 16:00	09/04/24 11:59	1
pH (SW846 9045D)	**9.62**		0.20		SU			09/05/24 17:06	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 784315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	5035	
500-256054-3	SB18 (0-3)	Total/NA	Solid	5035	
500-256054-5	SB19 (0-3)	Total/NA	Solid	5035	
500-256054-8	SB20 (3-5)	Total/NA	Solid	5035	
500-256054-9	SB21 (0-3)	Total/NA	Solid	5035	
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	5035	
500-256054-11	SB22 (0-3)	Total/NA	Solid	5035	

Prep Batch: 784327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	5035	
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	5035	
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	5035	
500-256054-7	SB20 (0-3)	Total/NA	Solid	5035	
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	5035	
500-256054-13	SB23 (0-3)	Total/NA	Solid	5035	
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	5035	

Analysis Batch: 785244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	8260D	784327
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	8260D	784327
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	8260D	784327
500-256054-7	SB20 (0-3)	Total/NA	Solid	8260D	784327
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	8260D	784327
500-256054-13	SB23 (0-3)	Total/NA	Solid	8260D	784327
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	8260D	784327
MB 500-785244/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785244/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-785244/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 785639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	8260D	784315
500-256054-3	SB18 (0-3)	Total/NA	Solid	8260D	784315
500-256054-5	SB19 (0-3)	Total/NA	Solid	8260D	784315
500-256054-8	SB20 (3-5)	Total/NA	Solid	8260D	784315
500-256054-9	SB21 (0-3)	Total/NA	Solid	8260D	784315
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	8260D	784315
500-256054-11	SB22 (0-3)	Total/NA	Solid	8260D	784315
MB 500-785639/8	Method Blank	Total/NA	Solid	8260D	
LCS 500-785639/29	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 785869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	3546	
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	3546	
500-256054-3 - DL	SB18 (0-3)	Total/NA	Solid	3546	
500-256054-3	SB18 (0-3)	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 785869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	3546	
500-256054-5	SB19 (0-3)	Total/NA	Solid	3546	
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	3546	
500-256054-7	SB20 (0-3)	Total/NA	Solid	3546	
500-256054-8	SB20 (3-5)	Total/NA	Solid	3546	
500-256054-9	SB21 (0-3)	Total/NA	Solid	3546	
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	3546	
500-256054-11	SB22 (0-3)	Total/NA	Solid	3546	
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	3546	
500-256054-13	SB23 (0-3)	Total/NA	Solid	3546	
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	3546	
MB 500-785869/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-785869/2-A	Lab Control Sample	Total/NA	Solid	3546	
500-256054-1 MS	SB17 (0-3)	Total/NA	Solid	3546	
500-256054-1 MSD	SB17 (0-3)	Total/NA	Solid	3546	

Analysis Batch: 786139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	8270E	785869
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	8270E	785869
500-256054-3	SB18 (0-3)	Total/NA	Solid	8270E	785869
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	8270E	785869
500-256054-5	SB19 (0-3)	Total/NA	Solid	8270E	785869
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	8270E	785869
500-256054-7	SB20 (0-3)	Total/NA	Solid	8270E	785869
500-256054-8	SB20 (3-5)	Total/NA	Solid	8270E	785869
500-256054-9	SB21 (0-3)	Total/NA	Solid	8270E	785869
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	8270E	785869
500-256054-11	SB22 (0-3)	Total/NA	Solid	8270E	785869
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	8270E	785869
500-256054-13	SB23 (0-3)	Total/NA	Solid	8270E	785869
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	8270E	785869
MB 500-785869/1-A	Method Blank	Total/NA	Solid	8270E	785869
LCS 500-785869/2-A	Lab Control Sample	Total/NA	Solid	8270E	785869
500-256054-1 MS	SB17 (0-3)	Total/NA	Solid	8270E	785869
500-256054-1 MSD	SB17 (0-3)	Total/NA	Solid	8270E	785869

Analysis Batch: 786381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-3 - DL	SB18 (0-3)	Total/NA	Solid	8270E	785869

GC VOA

Prep Batch: 784315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	5035	

Analysis Batch: 784769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	8015D	784315
MB 500-784769/5	Method Blank	Total/NA	Solid	8015D	

GC VOA (Continued)

Analysis Batch: 784769 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-784769/6	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 785024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	3541	
MB 500-785024/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-785024/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 785398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	8015D	785024
MB 500-785024/1-A	Method Blank	Total/NA	Solid	8015D	785024
LCS 500-785024/2-A	Lab Control Sample	Total/NA	Solid	8015D	785024

Prep Batch: 785837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	3541	
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	3541	
500-256054-3	SB18 (0-3)	Total/NA	Solid	3541	
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	3541	
500-256054-5	SB19 (0-3)	Total/NA	Solid	3541	
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	3541	
500-256054-7	SB20 (0-3)	Total/NA	Solid	3541	
500-256054-8	SB20 (3-5)	Total/NA	Solid	3541	
500-256054-9	SB21 (0-3)	Total/NA	Solid	3541	
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	3541	
500-256054-11	SB22 (0-3)	Total/NA	Solid	3541	
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	3541	
500-256054-13	SB23 (0-3)	Total/NA	Solid	3541	
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	3541	
MB 500-785837/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-785837/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-785837/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256054-1 MS	SB17 (0-3)	Total/NA	Solid	3541	
500-256054-1 MS	SB17 (0-3)	Total/NA	Solid	3541	
500-256054-1 MSD	SB17 (0-3)	Total/NA	Solid	3541	
500-256054-1 MSD	SB17 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 786412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-785837/1-A	Method Blank	Total/NA	Solid	8082A	785837
LCS 500-785837/3-A	Lab Control Sample	Total/NA	Solid	8082A	785837

Analysis Batch: 786422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	8081B	785837
500-256054-3	SB18 (0-3)	Total/NA	Solid	8081B	785837
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	8081B	785837
500-256054-5	SB19 (0-3)	Total/NA	Solid	8081B	785837

GC Semi VOA (Continued)

Analysis Batch: 786422 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	8081B	785837
500-256054-11	SB22 (0-3)	Total/NA	Solid	8081B	785837
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	8081B	785837
500-256054-13	SB23 (0-3)	Total/NA	Solid	8081B	785837
MB 500-785837/1-A	Method Blank	Total/NA	Solid	8081B	785837
LCS 500-785837/2-A	Lab Control Sample	Total/NA	Solid	8081B	785837

Analysis Batch: 786499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	8082A	785837
500-256054-3	SB18 (0-3)	Total/NA	Solid	8082A	785837
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	8082A	785837
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	8082A	785837
500-256054-7	SB20 (0-3)	Total/NA	Solid	8082A	785837
500-256054-11	SB22 (0-3)	Total/NA	Solid	8082A	785837
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	8082A	785837
500-256054-13	SB23 (0-3)	Total/NA	Solid	8082A	785837
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	8082A	785837

Analysis Batch: 786579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	8081B	785837
500-256054-1	SB17 (0-3)	Total/NA	Solid	8081B	785837
500-256054-7	SB20 (0-3)	Total/NA	Solid	8081B	785837
500-256054-7	SB20 (0-3)	Total/NA	Solid	8081B	785837
500-256054-8	SB20 (3-5)	Total/NA	Solid	8081B	785837
500-256054-8	SB20 (3-5)	Total/NA	Solid	8081B	785837
500-256054-9	SB21 (0-3)	Total/NA	Solid	8081B	785837
500-256054-9	SB21 (0-3)	Total/NA	Solid	8081B	785837
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	8081B	785837
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	8081B	785837
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	8081B	785837
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	8081B	785837
MB 500-785837/1-A	Method Blank	Total/NA	Solid	8081B	785837
LCS 500-785837/2-A	Lab Control Sample	Total/NA	Solid	8081B	785837
500-256054-1 MS	SB17 (0-3)	Total/NA	Solid	8081B	785837
500-256054-1 MS	SB17 (0-3)	Total/NA	Solid	8081B	785837
500-256054-1 MSD	SB17 (0-3)	Total/NA	Solid	8081B	785837
500-256054-1 MSD	SB17 (0-3)	Total/NA	Solid	8081B	785837

Analysis Batch: 786645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	8082A	785837
500-256054-5	SB19 (0-3)	Total/NA	Solid	8082A	785837
500-256054-8	SB20 (3-5)	Total/NA	Solid	8082A	785837
500-256054-9	SB21 (0-3)	Total/NA	Solid	8082A	785837
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	8082A	785837
500-256054-1 MS	SB17 (0-3)	Total/NA	Solid	8082A	785837
500-256054-1 MSD	SB17 (0-3)	Total/NA	Solid	8082A	785837

Metals

Prep Batch: 786289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	3050B	
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	3050B	
500-256054-3	SB18 (0-3)	Total/NA	Solid	3050B	
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	3050B	
500-256054-5	SB19 (0-3)	Total/NA	Solid	3050B	
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	3050B	
500-256054-7	SB20 (0-3)	Total/NA	Solid	3050B	
500-256054-8	SB20 (3-5)	Total/NA	Solid	3050B	
500-256054-9	SB21 (0-3)	Total/NA	Solid	3050B	
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	3050B	
500-256054-11	SB22 (0-3)	Total/NA	Solid	3050B	
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	3050B	
500-256054-13	SB23 (0-3)	Total/NA	Solid	3050B	
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	3050B	
MB 500-786289/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786289/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-256054-1 MS	SB17 (0-3)	Total/NA	Solid	3050B	
500-256054-1 MSD	SB17 (0-3)	Total/NA	Solid	3050B	
500-256054-1 DU	SB17 (0-3)	Total/NA	Solid	3050B	

Analysis Batch: 786585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	6010D	786289
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	6010D	786289
500-256054-3	SB18 (0-3)	Total/NA	Solid	6010D	786289
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	6010D	786289
500-256054-5	SB19 (0-3)	Total/NA	Solid	6010D	786289
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	6010D	786289
500-256054-7	SB20 (0-3)	Total/NA	Solid	6010D	786289
500-256054-8	SB20 (3-5)	Total/NA	Solid	6010D	786289
500-256054-9	SB21 (0-3)	Total/NA	Solid	6010D	786289
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	6010D	786289
500-256054-11	SB22 (0-3)	Total/NA	Solid	6010D	786289
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	6010D	786289
500-256054-13	SB23 (0-3)	Total/NA	Solid	6010D	786289
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	6010D	786289
MB 500-786289/1-A	Method Blank	Total/NA	Solid	6010D	786289
LCS 500-786289/2-A	Lab Control Sample	Total/NA	Solid	6010D	786289
500-256054-1 MS	SB17 (0-3)	Total/NA	Solid	6010D	786289
500-256054-1 MSD	SB17 (0-3)	Total/NA	Solid	6010D	786289
500-256054-1 DU	SB17 (0-3)	Total/NA	Solid	6010D	786289

Prep Batch: 786643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	7471B	
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	7471B	
500-256054-3	SB18 (0-3)	Total/NA	Solid	7471B	
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	7471B	
500-256054-5	SB19 (0-3)	Total/NA	Solid	7471B	
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	7471B	
500-256054-7	SB20 (0-3)	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 786643 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-8	SB20 (3-5)	Total/NA	Solid	7471B	
500-256054-9	SB21 (0-3)	Total/NA	Solid	7471B	
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	7471B	
500-256054-11	SB22 (0-3)	Total/NA	Solid	7471B	
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	7471B	
500-256054-13	SB23 (0-3)	Total/NA	Solid	7471B	
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	7471B	
MB 500-786643/11-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-786643/12-A	Lab Control Sample	Total/NA	Solid	7471B	
500-256054-1 MS	SB17 (0-3)	Total/NA	Solid	7471B	
500-256054-1 MSD	SB17 (0-3)	Total/NA	Solid	7471B	
500-256054-1 DU	SB17 (0-3)	Total/NA	Solid	7471B	

Analysis Batch: 786677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	6010D	786289
500-256054-3	SB18 (0-3)	Total/NA	Solid	6010D	786289
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	6010D	786289
500-256054-5	SB19 (0-3)	Total/NA	Solid	6010D	786289
500-256054-7	SB20 (0-3)	Total/NA	Solid	6010D	786289
500-256054-8	SB20 (3-5)	Total/NA	Solid	6010D	786289
500-256054-9	SB21 (0-3)	Total/NA	Solid	6010D	786289
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	6010D	786289
500-256054-1 MS	SB17 (0-3)	Total/NA	Solid	6010D	786289
500-256054-1 MSD	SB17 (0-3)	Total/NA	Solid	6010D	786289
500-256054-1 DU	SB17 (0-3)	Total/NA	Solid	6010D	786289

Analysis Batch: 786899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	7471B	786643
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	7471B	786643
500-256054-3	SB18 (0-3)	Total/NA	Solid	7471B	786643
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	7471B	786643
500-256054-5	SB19 (0-3)	Total/NA	Solid	7471B	786643
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	7471B	786643
500-256054-7	SB20 (0-3)	Total/NA	Solid	7471B	786643
500-256054-8	SB20 (3-5)	Total/NA	Solid	7471B	786643
500-256054-9	SB21 (0-3)	Total/NA	Solid	7471B	786643
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	7471B	786643
500-256054-11	SB22 (0-3)	Total/NA	Solid	7471B	786643
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	7471B	786643
500-256054-13	SB23 (0-3)	Total/NA	Solid	7471B	786643
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	7471B	786643
MB 500-786643/11-A	Method Blank	Total/NA	Solid	7471B	786643
LCS 500-786643/12-A	Lab Control Sample	Total/NA	Solid	7471B	786643
500-256054-1 MS	SB17 (0-3)	Total/NA	Solid	7471B	786643
500-256054-1 MSD	SB17 (0-3)	Total/NA	Solid	7471B	786643
500-256054-1 DU	SB17 (0-3)	Total/NA	Solid	7471B	786643

Metals

Analysis Batch: 786925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-3	SB18 (0-3)	Total/NA	Solid	6010D	786289

General Chemistry

Prep Batch: 625847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	9030B	
MB 240-625847/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-625847/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 625911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	9034	625847
MB 240-625847/1-A	Method Blank	Total/NA	Solid	9034	625847
LCS 240-625847/2-A	Lab Control Sample	Total/NA	Solid	9034	625847

Prep Batch: 784292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	9010C	
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	9010C	
500-256054-3	SB18 (0-3)	Total/NA	Solid	9010C	
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	9010C	
500-256054-5	SB19 (0-3)	Total/NA	Solid	9010C	
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	9010C	
500-256054-7	SB20 (0-3)	Total/NA	Solid	9010C	
500-256054-8	SB20 (3-5)	Total/NA	Solid	9010C	
500-256054-9	SB21 (0-3)	Total/NA	Solid	9010C	
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	9010C	
500-256054-11	SB22 (0-3)	Total/NA	Solid	9010C	
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	9010C	
500-256054-13	SB23 (0-3)	Total/NA	Solid	9010C	
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	9010C	
MB 500-784292/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-784292/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256054-8 MS	SB20 (3-5)	Total/NA	Solid	9010C	
500-256054-8 MSD	SB20 (3-5)	Total/NA	Solid	9010C	

Analysis Batch: 784511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	9012B	784292
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	9012B	784292
500-256054-3	SB18 (0-3)	Total/NA	Solid	9012B	784292
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	9012B	784292
500-256054-5	SB19 (0-3)	Total/NA	Solid	9012B	784292
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	9012B	784292
500-256054-7	SB20 (0-3)	Total/NA	Solid	9012B	784292
500-256054-8	SB20 (3-5)	Total/NA	Solid	9012B	784292
500-256054-9	SB21 (0-3)	Total/NA	Solid	9012B	784292
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	9012B	784292
500-256054-11	SB22 (0-3)	Total/NA	Solid	9012B	784292
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	9012B	784292

General Chemistry (Continued)

Analysis Batch: 784511 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-13	SB23 (0-3)	Total/NA	Solid	9012B	784292
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	9012B	784292
MB 500-784292/1-A	Method Blank	Total/NA	Solid	9012B	784292
LCS 500-784292/2-A	Lab Control Sample	Total/NA	Solid	9012B	784292
500-256054-8 MS	SB20 (3-5)	Total/NA	Solid	9012B	784292
500-256054-8 MSD	SB20 (3-5)	Total/NA	Solid	9012B	784292

Analysis Batch: 784832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	9045D	
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	9045D	
500-256054-3	SB18 (0-3)	Total/NA	Solid	9045D	
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	9045D	
500-256054-5	SB19 (0-3)	Total/NA	Solid	9045D	
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	9045D	
500-256054-7	SB20 (0-3)	Total/NA	Solid	9045D	
500-256054-8	SB20 (3-5)	Total/NA	Solid	9045D	
500-256054-9	SB21 (0-3)	Total/NA	Solid	9045D	
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	9045D	
500-256054-11	SB22 (0-3)	Total/NA	Solid	9045D	
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	9045D	
500-256054-13	SB23 (0-3)	Total/NA	Solid	9045D	
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-784832/105	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-784832/106	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 785939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	Total/NA	Solid	Moisture	
500-256054-2	SB17 (5-7.5)	Total/NA	Solid	Moisture	
500-256054-3	SB18 (0-3)	Total/NA	Solid	Moisture	
500-256054-4	SB18 (7.5-10)	Total/NA	Solid	Moisture	
500-256054-5	SB19 (0-3)	Total/NA	Solid	Moisture	
500-256054-6	SB19 (5-7.5)	Total/NA	Solid	Moisture	
500-256054-7	SB20 (0-3)	Total/NA	Solid	Moisture	
500-256054-8	SB20 (3-5)	Total/NA	Solid	Moisture	
500-256054-9	SB21 (0-3)	Total/NA	Solid	Moisture	
500-256054-10	SB21 (12.5-15)	Total/NA	Solid	Moisture	
500-256054-1 DU	SB17 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 785955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-11	SB22 (0-3)	Total/NA	Solid	Moisture	
500-256054-12	SB22 (10-12.5)	Total/NA	Solid	Moisture	
500-256054-13	SB23 (0-3)	Total/NA	Solid	Moisture	
500-256054-14	SB23 (5-7.5)	Total/NA	Solid	Moisture	
500-256054-11 DU	SB22 (0-3)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-256054-1	SB17 (0-3)	111	87	98	85
500-256054-3	SB18 (0-3)	107	85	96	87
500-256054-5	SB19 (0-3)	108	85	95	86
500-256054-8	SB20 (3-5)	108	87	99	86
500-256054-9	SB21 (0-3)	109	86	96	86
500-256054-10	SB21 (12.5-15)	110	87	98	86
500-256054-11	SB22 (0-3)	109	83	97	85
LCS 500-785639/29	Lab Control Sample	108	83	98	87
MB 500-785639/8	Method Blank	113	81	103	86

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-256054-2	SB17 (5-7.5)	100	101	97	97
500-256054-4	SB18 (7.5-10)	108	149 *3 S1+	112	130 S1+
500-256054-6	SB19 (5-7.5)	103	103	102	102
500-256054-7	SB20 (0-3)	100	129	77	116
500-256054-12	SB22 (10-12.5)	102	152 S1+	101	107
500-256054-13	SB23 (0-3)	106	142 *3 S1+	110	123
500-256054-14	SB23 (5-7.5)	102	112	95	105
LCS 500-785244/4	Lab Control Sample	101	95	100	97
LCSD 500-785244/5	Lab Control Sample Dup	97	92	102	97
MB 500-785244/7	Method Blank	102	95	101	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256054-1	SB17 (0-3)	58	63	68	72	53	70
500-256054-1 MS	SB17 (0-3)	39	44	47	50	41	58
500-256054-1 MSD	SB17 (0-3)	61	65	69	70	55	67
500-256054-2	SB17 (5-7.5)	63	65	68	62	45	81
500-256054-3	SB18 (0-3)	34	66	71	69	4 S1-	81

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256054-3 - DL	SB18 (0-3)	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
500-256054-4	SB18 (7.5-10)	47	57	74	72	31	68
500-256054-5	SB19 (0-3)	56	60	66	68	47	68
500-256054-6	SB19 (5-7.5)	77	76	80	76	66	81
500-256054-7	SB20 (0-3)	60	73	74	74	12 S1-	80
500-256054-8	SB20 (3-5)	61	67	69	71	32	76
500-256054-9	SB21 (0-3)	60	62	65	66	47	70
500-256054-10	SB21 (12.5-15)	47	48	50	53	43	54
500-256054-11	SB22 (0-3)	56	56	58	59	53	60
500-256054-12	SB22 (10-12.5)	63	64	67	66	58	72
500-256054-13	SB23 (0-3)	60	62	66	67	50	67
500-256054-14	SB23 (5-7.5)	62	62	63	63	23 S1-	66
LCS 500-785869/2-A	Lab Control Sample	87	87	94	83	70	84
MB 500-785869/1-A	Method Blank	88	89	94	86	66	89

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-256054-10	SB21 (12.5-15)	97	103
LCS 500-784769/6	Lab Control Sample	104	106
MB 500-784769/5	Method Blank	100	107

Surrogate Legend

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-256054-10	SB21 (12.5-15)	0 S1-	0 S1-
LCS 500-785024/2-A	Lab Control Sample	85	76
MB 500-785024/1-A	Method Blank	76	71

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (33-148)	DCBP2 (33-148)	TCX1 (30-121)	TCX2 (30-121)
500-256054-1	SB17 (0-3)		265 S1+		63
500-256054-1	SB17 (0-3)		0 S1-		0 S1-
500-256054-1 MS	SB17 (0-3)		193 S1+		60
500-256054-1 MS	SB17 (0-3)		0 S1-		0 S1-
500-256054-1 MSD	SB17 (0-3)		260 S1+		59
500-256054-1 MSD	SB17 (0-3)		0 S1-		0 S1-
500-256054-2	SB17 (5-7.5)		70		83
500-256054-3	SB18 (0-3)		329 S1+		80
500-256054-4	SB18 (7.5-10)		109		75
500-256054-5	SB19 (0-3)		710 S1+		60
500-256054-6	SB19 (5-7.5)		81		81
500-256054-7	SB20 (0-3)		464 S1+		57
500-256054-7	SB20 (0-3)		0 S1-		0 S1-
500-256054-8	SB20 (3-5)		256 S1+		46
500-256054-8	SB20 (3-5)		0 S1-		0 S1-
500-256054-9	SB21 (0-3)		1052 S1+		57
500-256054-9	SB21 (0-3)		0 S1-		0 S1-
500-256054-10	SB21 (12.5-15)		84		52
500-256054-10	SB21 (12.5-15)		0 S1-		0 S1-
500-256054-11	SB22 (0-3)		63		71
500-256054-12	SB22 (10-12.5)		86		76
500-256054-13	SB23 (0-3)		108		97
500-256054-14	SB23 (5-7.5)		176 S1+		62
500-256054-14	SB23 (5-7.5)		273 S1+		66
LCS 500-785837/2-A	Lab Control Sample	88	91	78	82
LCS 500-785837/2-A	Lab Control Sample		76		59
MB 500-785837/1-A	Method Blank	104	101	79	76
MB 500-785837/1-A	Method Blank		82		59

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (49-129)	DCBP2 (37-121)
500-256054-1	SB17 (0-3)	73	103
500-256054-1 MS	SB17 (0-3)	69	103
500-256054-1 MSD	SB17 (0-3)	76	117
500-256054-5	SB19 (0-3)	79	65
500-256054-7	SB20 (0-3)	57	53
500-256054-8	SB20 (3-5)	88	108
500-256054-9	SB21 (0-3)	69	166 S1+
500-256054-10	SB21 (12.5-15)	73	110
500-256054-12	SB22 (10-12.5)	57	65
500-256054-13	SB23 (0-3)	51	61
LCS 500-785837/3-A	Lab Control Sample	64	50
MB 500-785837/1-A	Method Blank	99	7 S1-

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-256054-2	SB17 (5-7.5)	45 S1-	52
500-256054-3	SB18 (0-3)	60	73
500-256054-4	SB18 (7.5-10)	61	69
500-256054-6	SB19 (5-7.5)	58	79
500-256054-11	SB22 (0-3)	39 S1-	41
500-256054-14	SB23 (5-7.5)	53	56

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256054-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-785244/7
Matrix: Solid
Analysis Batch: 785244

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/10/24 11:05	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/10/24 11:05	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/10/24 11:05	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/10/24 11:05	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/10/24 11:05	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/10/24 11:05	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/10/24 11:05	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/10/24 11:05	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/10/24 11:05	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/10/24 11:05	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/10/24 11:05	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/10/24 11:05	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/10/24 11:05	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/10/24 11:05	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/10/24 11:05	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/10/24 11:05	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/10/24 11:05	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/10/24 11:05	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/10/24 11:05	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/10/24 11:05	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/10/24 11:05	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/10/24 11:05	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/10/24 11:05	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/10/24 11:05	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/10/24 11:05	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/10/24 11:05	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/10/24 11:05	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/10/24 11:05	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/10/24 11:05	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/10/24 11:05	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/10/24 11:05	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/10/24 11:05	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/10/24 11:05	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/10/24 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*09/10/24 11:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*		*09/10/24 11:05*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*09/10/24 11:05*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*		*09/10/24 11:05*	*1*

Lab Sample ID: LCS 500-785244/4
Matrix: Solid
Analysis Batch: 785244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0467		mg/Kg		93	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0522		mg/Kg		104	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785244/4
Matrix: Solid
Analysis Batch: 785244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0505		mg/Kg		101	70 - 125
1,1-Dichloroethane	0.0500	0.0465		mg/Kg		93	70 - 125
1,1-Dichloroethene	0.0500	0.0479		mg/Kg		96	70 - 120
1,2-Dichloroethane	0.0500	0.0489		mg/Kg		98	70 - 130
1,2-Dichloropropane	0.0500	0.0490		mg/Kg		98	70 - 125
2-Butanone (MEK)	0.0500	0.0516		mg/Kg		103	47 - 138
2-Hexanone	0.0500	0.0522		mg/Kg		104	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0526		mg/Kg		105	50 - 148
Acetone	0.0500	0.0449		mg/Kg		90	40 - 150
Benzene	0.0500	0.0489		mg/Kg		98	70 - 125
Bromodichloromethane	0.0500	0.0510		mg/Kg		102	67 - 129
Bromoform	0.0500	0.0566		mg/Kg		113	68 - 136
Bromomethane	0.0500	0.0497		mg/Kg		99	70 - 130
Carbon disulfide	0.0500	0.0479		mg/Kg		96	70 - 129
Carbon tetrachloride	0.0500	0.0488		mg/Kg		98	75 - 125
Chlorobenzene	0.0500	0.0480		mg/Kg		96	50 - 150
Chloroethane	0.0500	0.0547		mg/Kg		109	75 - 125
Chloroform	0.0500	0.0476		mg/Kg		95	57 - 135
Chloromethane	0.0500	0.0466		mg/Kg		93	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0496		mg/Kg		99	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0493		mg/Kg		99	70 - 125
Dibromochloromethane	0.0500	0.0520		mg/Kg		104	69 - 125
Ethylbenzene	0.0500	0.0498		mg/Kg		100	61 - 136
Methyl tert-butyl ether	0.0500	0.0512		mg/Kg		102	50 - 140
Methylene Chloride	0.0500	0.0439		mg/Kg		88	70 - 126
Styrene	0.0500	0.0523		mg/Kg		105	70 - 125
Tetrachloroethene	0.0500	0.0473		mg/Kg		95	70 - 124
Toluene	0.0500	0.0479		mg/Kg		96	70 - 125
Xylenes, Total	0.100	0.0972		mg/Kg		97	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0490		mg/Kg		98	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Trichloroethene	0.0500	0.0474		mg/Kg		95	70 - 125
Vinyl chloride	0.0500	0.0450		mg/Kg		90	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*
Dibromofluoromethane	*100*		*75 - 126*
Toluene-d8 (Surr)	*97*		*75 - 124*

Lab Sample ID: LCSD 500-785244/5
Matrix: Solid
Analysis Batch: 785244

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0464		mg/Kg		93	70 - 128	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0497		mg/Kg		99	70 - 122	5	30
1,1,2-Trichloroethane	0.0500	0.0476		mg/Kg		95	70 - 125	6	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-785244/5
Matrix: Solid
Analysis Batch: 785244

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0453		mg/Kg		91	70 - 125	3	30
1,1-Dichloroethene			0.0500	0.0480		mg/Kg		96	70 - 120	0	30
1,2-Dichloroethane			0.0500	0.0480		mg/Kg		96	70 - 130	2	30
1,2-Dichloropropane			0.0500	0.0491		mg/Kg		98	70 - 125	0	30
2-Butanone (MEK)			0.0500	0.0554		mg/Kg		111	47 - 138	7	30
2-Hexanone			0.0500	0.0514		mg/Kg		103	48 - 146	2	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0531		mg/Kg		106	50 - 148	1	30
Acetone			0.0500	0.0498		mg/Kg		100	40 - 150	10	30
Benzene			0.0500	0.0483		mg/Kg		97	70 - 125	1	30
Bromodichloromethane			0.0500	0.0503		mg/Kg		101	67 - 129	1	30
Bromoform			0.0500	0.0546		mg/Kg		109	68 - 136	4	30
Bromomethane			0.0500	0.0439		mg/Kg		88	70 - 130	12	30
Carbon disulfide			0.0500	0.0471		mg/Kg		94	70 - 129	2	30
Carbon tetrachloride			0.0500	0.0478		mg/Kg		96	75 - 125	2	30
Chlorobenzene			0.0500	0.0471		mg/Kg		94	50 - 150	2	30
Chloroethane			0.0500	0.0431		mg/Kg		86	75 - 125	24	30
Chloroform			0.0500	0.0477		mg/Kg		95	57 - 135	0	30
Chloromethane			0.0500	0.0421		mg/Kg		84	70 - 125	10	30
cis-1,2-Dichloroethene			0.0500	0.0503		mg/Kg		101	70 - 125	1	30
cis-1,3-Dichloropropene			0.0500	0.0474		mg/Kg		95	70 - 125	4	30
Dibromochloromethane			0.0500	0.0498		mg/Kg		100	69 - 125	4	30
Ethylbenzene			0.0500	0.0478		mg/Kg		96	61 - 136	4	30
Methyl tert-butyl ether			0.0500	0.0510		mg/Kg		102	50 - 140	0	30
Methylene Chloride			0.0500	0.0437		mg/Kg		87	70 - 126	0	30
Styrene			0.0500	0.0510		mg/Kg		102	70 - 125	3	30
Tetrachloroethene			0.0500	0.0452		mg/Kg		90	70 - 124	5	30
Toluene			0.0500	0.0468		mg/Kg		94	70 - 125	2	30
Xylenes, Total			0.100	0.0933		mg/Kg		93	53 - 147	4	30
trans-1,2-Dichloroethene			0.0500	0.0485		mg/Kg		97	70 - 125	1	30
trans-1,3-Dichloropropene			0.0500	0.0481		mg/Kg		96	70 - 125	4	30
Trichloroethene			0.0500	0.0472		mg/Kg		94	70 - 125	1	30
Vinyl chloride			0.0500	0.0398		mg/Kg		80	70 - 125	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*
Dibromofluoromethane	*102*		*75 - 126*
Toluene-d8 (Surr)	*97*		*75 - 124*

Lab Sample ID: MB 500-785639/8
Matrix: Solid
Analysis Batch: 785639

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			09/12/24 11:33	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			09/12/24 11:33	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			09/12/24 11:33	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			09/12/24 11:33	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-785639/8
Matrix: Solid
Analysis Batch: 785639

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			09/12/24 11:33	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			09/12/24 11:33	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			09/12/24 11:33	1
2-Butanone (MEK)	<0.0031		0.0050	0.0031	mg/Kg			09/12/24 11:33	1
2-Hexanone	<0.0029		0.0050	0.0029	mg/Kg			09/12/24 11:33	1
4-Methyl-2-pentanone (MIBK)	<0.0027		0.0050	0.0027	mg/Kg			09/12/24 11:33	1
Acetone	<0.0072		0.010	0.0072	mg/Kg			09/12/24 11:33	1
Benzene	<0.00012		0.00025	0.00012	mg/Kg			09/12/24 11:33	1
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			09/12/24 11:33	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			09/12/24 11:33	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			09/12/24 11:33	1
Carbon disulfide	<0.0011		0.0020	0.0011	mg/Kg			09/12/24 11:33	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			09/12/24 11:33	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			09/12/24 11:33	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			09/12/24 11:33	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			09/12/24 11:33	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			09/12/24 11:33	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			09/12/24 11:33	1
1,3-Dichloropropene, Total	<0.00063		0.0010	0.00063	mg/Kg			09/12/24 11:33	1
Dibromochloromethane	<0.00083		0.0010	0.00083	mg/Kg			09/12/24 11:33	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			09/12/24 11:33	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			09/12/24 11:33	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/12/24 11:33	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			09/12/24 11:33	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			09/12/24 11:33	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			09/12/24 11:33	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			09/12/24 11:33	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			09/12/24 11:33	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			09/12/24 11:33	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			09/12/24 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*		*09/12/24 11:33*	*1*
4-Bromofluorobenzene (Surr)	*81*		*72 - 124*		*09/12/24 11:33*	*1*
Dibromofluoromethane	*103*		*75 - 120*		*09/12/24 11:33*	*1*
Toluene-d8 (Surr)	*86*		*75 - 120*		*09/12/24 11:33*	*1*

Lab Sample ID: LCS 500-785639/29
Matrix: Solid
Analysis Batch: 785639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0649	*+	mg/Kg		130	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0447		mg/Kg		89	62 - 140
1,1,2-Trichloroethane	0.0500	0.0411		mg/Kg		82	71 - 130
1,1-Dichloroethane	0.0500	0.0554		mg/Kg		111	70 - 125
1,1-Dichloroethene	0.0500	0.0498		mg/Kg		100	67 - 122
1,2-Dichloroethane	0.0500	0.0657	*+	mg/Kg		131	68 - 127

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785639/29
Matrix: Solid
Analysis Batch: 785639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0511		mg/Kg		102	67 - 130
2-Butanone (MEK)	0.0500	0.0486		mg/Kg		97	46 - 144
2-Hexanone	0.0500	0.0506		mg/Kg		101	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0434		mg/Kg		87	55 - 139
Acetone	0.0500	0.0513		mg/Kg		103	40 - 143
Benzene	0.0500	0.0519		mg/Kg		104	70 - 120
Bromodichloromethane	0.0500	0.0564		mg/Kg		113	69 - 120
Bromoform	0.0500	0.0499		mg/Kg		100	56 - 132
Bromomethane	0.0500	0.0625		mg/Kg		125	40 - 152
Carbon disulfide	0.0500	0.0467		mg/Kg		93	66 - 120
Carbon tetrachloride	0.0500	0.0697	*+	mg/Kg		139	59 - 133
Chlorobenzene	0.0500	0.0496		mg/Kg		99	70 - 120
Chloroethane	0.0500	0.0465		mg/Kg		93	48 - 136
Chloroform	0.0500	0.0554		mg/Kg		111	70 - 120
Chloromethane	0.0500	0.0421		mg/Kg		84	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0420		mg/Kg		84	64 - 127
Dibromochloromethane	0.0500	0.0501		mg/Kg		100	68 - 125
Ethylbenzene	0.0500	0.0483		mg/Kg		97	70 - 123
Methyl tert-butyl ether	0.0500	0.0454		mg/Kg		91	55 - 123
Methylene Chloride	0.0500	0.0425		mg/Kg		85	69 - 125
Styrene	0.0500	0.0463		mg/Kg		93	70 - 120
Tetrachloroethene	0.0500	0.0538		mg/Kg		108	70 - 128
Toluene	0.0500	0.0441		mg/Kg		88	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0497		mg/Kg		99	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0435		mg/Kg		87	62 - 128
Trichloroethene	0.0500	0.0567		mg/Kg		113	70 - 125
Vinyl chloride	0.0500	0.0415		mg/Kg		83	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*
4-Bromofluorobenzene (Surr)	*83*		*72 - 124*
Dibromofluoromethane	*98*		*75 - 120*
Toluene-d8 (Surr)	*87*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-785869/1-A
Matrix: Solid
Analysis Batch: 786139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/13/24 07:16	09/16/24 11:30	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-785869/1-A
Matrix: Solid
Analysis Batch: 786139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/13/24 07:16	09/16/24 11:30	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-785869/1-A
Matrix: Solid
Analysis Batch: 786139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/13/24 07:16	09/16/24 11:30	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/13/24 07:16	09/16/24 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*88*		*31 - 166*	*09/13/24 07:16*	*09/16/24 11:30*	*1*
Phenol-d5 (Surr)	*89*		*30 - 153*	*09/13/24 07:16*	*09/16/24 11:30*	*1*
Nitrobenzene-d5 (Surr)	*94*		*37 - 147*	*09/13/24 07:16*	*09/16/24 11:30*	*1*
2-Fluorobiphenyl (Surr)	*86*		*43 - 145*	*09/13/24 07:16*	*09/16/24 11:30*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*31 - 143*	*09/13/24 07:16*	*09/16/24 11:30*	*1*
Terphenyl-d14 (Surr)	*89*		*42 - 157*	*09/13/24 07:16*	*09/16/24 11:30*	*1*

Lab Sample ID: LCS 500-785869/2-A
Matrix: Solid
Analysis Batch: 786139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.79		mg/Kg		84	63 - 109
Acenaphthylene	3.33	3.00		mg/Kg		90	61 - 115
Anthracene	3.33	3.05		mg/Kg		91	68 - 120
Benzo[a]anthracene	3.33	2.99		mg/Kg		90	70 - 121
Benzo[a]pyrene	3.33	3.21		mg/Kg		96	73 - 132
Benzo[b]fluoranthene	3.33	3.17		mg/Kg		95	68 - 123
Benzo[g,h,i]perylene	3.33	3.17		mg/Kg		95	65 - 126
Benzo[k]fluoranthene	3.33	3.18		mg/Kg		95	64 - 128
Chrysene	3.33	2.90		mg/Kg		87	70 - 123
Dibenz(a,h)anthracene	3.33	3.14		mg/Kg		94	66 - 125
Fluoranthene	3.33	3.00		mg/Kg		90	66 - 123
Fluorene	3.33	2.77		mg/Kg		83	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.28		mg/Kg		98	66 - 131
Naphthalene	3.33	2.82		mg/Kg		85	54 - 98
Phenanthrene	3.33	3.03		mg/Kg		91	65 - 115
Pyrene	3.33	3.14		mg/Kg		94	71 - 128
1,2,4-Trichlorobenzene	3.33	2.57		mg/Kg		77	49 - 100
1,2-Dichlorobenzene	3.33	2.69		mg/Kg		81	47 - 94
1,3-Dichlorobenzene	3.33	2.67		mg/Kg		80	47 - 92
1,4-Dichlorobenzene	3.33	2.65		mg/Kg		80	46 - 92
2,4,5-Trichlorophenol	3.33	2.65		mg/Kg		79	48 - 121
2,4,6-Trichlorophenol	3.33	2.55		mg/Kg		77	50 - 121
2,4-Dichlorophenol	3.33	2.73		mg/Kg		82	51 - 109
2,4-Dimethylphenol	3.33	3.06		mg/Kg		92	48 - 93
2,4-Dinitrophenol	6.67	3.51		mg/Kg		53	10 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-785869/2-A
Matrix: Solid
Analysis Batch: 786139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	3.33	2.92		mg/Kg		88	65 - 120
2,6-Dinitrotoluene	3.33	2.91		mg/Kg		87	66 - 117
2-Chloronaphthalene	3.33	2.84		mg/Kg		85	60 - 107
2-Chlorophenol	3.33	2.90		mg/Kg		87	50 - 102
2-Methylnaphthalene	3.33	2.43		mg/Kg		73	58 - 103
2-Methylphenol	3.33	2.85		mg/Kg		86	50 - 104
2-Nitroaniline	3.33	3.38		mg/Kg		101	61 - 126
2-Nitrophenol	3.33	2.79		mg/Kg		84	41 - 114
3,3'-Dichlorobenzidine	3.33	2.78		mg/Kg		83	36 - 131
3 & 4 Methylphenol	3.33	2.86		mg/Kg		86	49 - 109
3-Nitroaniline	3.33	2.80		mg/Kg		84	44 - 124
4,6-Dinitro-2-methylphenol	6.67	5.19		mg/Kg		78	36 - 138
4-Bromophenyl phenyl ether	3.33	2.74		mg/Kg		82	57 - 124
4-Chloro-3-methylphenol	3.33	2.88		mg/Kg		87	57 - 113
4-Chloroaniline	3.33	2.55		mg/Kg		76	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.66		mg/Kg		80	60 - 112
4-Nitroaniline	3.33	2.73		mg/Kg		82	60 - 115
4-Nitrophenol	6.67	5.86		mg/Kg		88	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.82		mg/Kg		85	54 - 102
Bis(2-chloroethyl)ether	3.33	2.94		mg/Kg		88	49 - 99
bis(chloroisopropyl) ether	3.33	3.26		mg/Kg		98	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.43		mg/Kg		103	70 - 139
Butyl benzyl phthalate	3.33	3.37		mg/Kg		101	65 - 140
Carbazole	3.33	2.99		mg/Kg		90	68 - 120
Dibenzofuran	3.33	2.70		mg/Kg		81	64 - 112
Diethyl phthalate	3.33	2.83		mg/Kg		85	66 - 115
Dimethyl phthalate	3.33	2.76		mg/Kg		83	65 - 114
Di-n-butyl phthalate	3.33	3.22		mg/Kg		97	69 - 125
Di-n-octyl phthalate	3.33	3.38		mg/Kg		101	61 - 131
Hexachlorobenzene	3.33	2.76		mg/Kg		83	52 - 126
Hexachlorobutadiene	3.33	2.59		mg/Kg		78	42 - 103
Hexachlorocyclopentadiene	3.33	2.21		mg/Kg		66	10 - 100
Hexachloroethane	3.33	2.97		mg/Kg		89	45 - 95
Isophorone	3.33	2.90		mg/Kg		87	47 - 108
Nitrobenzene	3.33	3.24		mg/Kg		97	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.99		mg/Kg		90	48 - 110
N-Nitrosodiphenylamine	3.33	2.98		mg/Kg		89	67 - 112
Pentachlorophenol	6.67	3.67		mg/Kg		55	32 - 128
Phenol	3.33	3.20		mg/Kg		96	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*87*		*31 - 166*
Phenol-d5 (Surr)	*87*		*30 - 153*
Nitrobenzene-d5 (Surr)	*94*		*37 - 147*
2-Fluorobiphenyl (Surr)	*83*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*70*		*31 - 143*
Terphenyl-d14 (Surr)	*84*		*42 - 157*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256054-1 MS
Client Sample ID: SB17 (0-3)
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 786139
Prep Batch: 785869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	<0.0075	F1 F2	3.68	1.99	F1	mg/Kg	☼	54	65 - 124
Acenaphthylene	0.23	F1 F2	3.68	1.99	F1	mg/Kg	☼	48	68 - 120
Anthracene	0.26	F1	3.68	2.28	F1	mg/Kg	☼	55	70 - 114
Benzo[a]anthracene	0.41	F1	3.68	2.29	F1	mg/Kg	☼	51	67 - 122
Benzo[a]pyrene	0.60	F1 F2	3.68	2.17	F1	mg/Kg	☼	43	65 - 133
Benzo[b]fluoranthene	1.1	F1 F2	3.68	2.49	F1	mg/Kg	☼	38	69 - 129
Benzo[g,h,i]perylene	0.44	F1 F2	3.68	1.59	F1	mg/Kg	☼	31	72 - 131
Benzo[k]fluoranthene	0.39	F1	3.68	2.30	F1	mg/Kg	☼	52	68 - 127
Chrysene	0.62	F1	3.68	2.44	F1	mg/Kg	☼	50	63 - 120
Dibenz(a,h)anthracene	0.14	F1 F2	3.68	1.74	F1	mg/Kg	☼	44	64 - 131
Fluoranthene	0.51		3.68	3.01		mg/Kg	☼	68	62 - 120
Fluorene	0.022	J F1	3.68	2.08	F1	mg/Kg	☼	56	62 - 120
Indeno[1,2,3-cd]pyrene	0.48	F1 F2	3.68	2.10	F1	mg/Kg	☼	44	68 - 130
Naphthalene	0.038	F1 F2	3.68	1.66	F1	mg/Kg	☼	44	63 - 110
Phenanthrene	0.25	F1	3.68	2.46	F1	mg/Kg	☼	60	62 - 120
Pyrene	0.70	F1	3.68	2.73	F1	mg/Kg	☼	55	61 - 128
1,2,4-Trichlorobenzene	<0.026	F1 F2	3.68	1.52	F1	mg/Kg	☼	41	66 - 117
1,2-Dichlorobenzene	<0.015	F1 F2	3.68	1.56	F1	mg/Kg	☼	42	62 - 110
1,3-Dichlorobenzene	<0.017	F1 F2	3.68	1.55	F1	mg/Kg	☼	42	60 - 110
1,4-Dichlorobenzene	<0.017	F1 F2	3.68	1.50	F1	mg/Kg	☼	41	61 - 110
2,4,5-Trichlorophenol	<0.014		3.68	1.89		mg/Kg	☼	51	50 - 120
2,4,6-Trichlorophenol	<0.013	F1 F2	3.68	1.59	F1	mg/Kg	☼	43	57 - 120
2,4-Dichlorophenol	<0.013	F1 F2	3.68	1.58	F1	mg/Kg	☼	43	58 - 120
2,4-Dimethylphenol	<0.082	F1 F2	3.68	0.976	F1	mg/Kg	☼	27	60 - 110
2,4-Dinitrophenol	<0.21	F1	7.36	<0.21	F1	mg/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<0.021	F1	3.68	2.09	F1	mg/Kg	☼	57	69 - 124
2,6-Dinitrotoluene	<0.013	F1	3.68	2.08	F1	mg/Kg	☼	56	70 - 123
2-Chloronaphthalene	<0.014	F1 F2	3.68	1.81	F1	mg/Kg	☼	49	69 - 114
2-Chlorophenol	<0.012	F1 F2	3.68	1.45	F1	mg/Kg	☼	40	64 - 110
2-Methylnaphthalene	0.054	J F1 F2	3.68	1.49	F1	mg/Kg	☼	39	69 - 112
2-Methylphenol	<0.019	F1 F2	3.68	1.37	F1	mg/Kg	☼	37	60 - 120
2-Nitroaniline	<0.020		3.68	2.44		mg/Kg	☼	66	57 - 124
2-Nitrophenol	<0.025	F1 F2	3.68	1.28	F1	mg/Kg	☼	35	60 - 120
3,3'-Dichlorobenzidine	<0.030	F1 F2	3.68	0.918	F1	mg/Kg	☼	25	35 - 128
3 & 4 Methylphenol	<0.027	F1 F2	3.68	1.54	F1	mg/Kg	☼	42	57 - 120
3-Nitroaniline	<0.017		3.68	1.98		mg/Kg	☼	54	40 - 122
4,6-Dinitro-2-methylphenol	<0.21	F1 F2	7.36	0.305	J F1	mg/Kg	☼	4	10 - 110
4-Bromophenyl phenyl ether	<0.025	F1	3.68	2.13	F1	mg/Kg	☼	58	68 - 118
4-Chloro-3-methylphenol	<0.014	F1	3.68	2.03	F1	mg/Kg	☼	55	65 - 122
4-Chloroaniline	<0.39	F2	3.68	1.20		mg/Kg	☼	33	30 - 150
4-Chlorophenyl phenyl ether	<0.048	F1	3.68	1.99	F1	mg/Kg	☼	54	62 - 119
4-Nitroaniline	<0.027	F1	3.68	1.93	F1	mg/Kg	☼	52	60 - 160
4-Nitrophenol	<0.14		7.36	4.12		mg/Kg	☼	56	30 - 122
Bis(2-chloroethoxy)methane	<0.014	F1 F2	3.68	1.67	F1	mg/Kg	☼	45	60 - 112
Bis(2-chloroethyl)ether	<0.017	F1 F2	3.68	1.67	F1	mg/Kg	☼	45	55 - 111
bis(chloroisopropyl) ether	<0.026	F2	3.68	1.88		mg/Kg	☼	51	40 - 124
Bis(2-ethylhexyl) phthalate	<0.14		3.68	2.77		mg/Kg	☼	75	72 - 131
Butyl benzyl phthalate	<0.018	F1	3.68	2.51	F1	mg/Kg	☼	68	71 - 129

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256054-1 MS
Matrix: Solid
Analysis Batch: 786139

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 785869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbazole	0.091	J F1	3.68	2.25	F1	mg/Kg	☼	59	65 - 142
Dibenzofuran	0.025	J F1	3.68	1.94	F1	mg/Kg	☼	52	66 - 115
Diethyl phthalate	<0.017		3.68	2.29		mg/Kg	☼	62	58 - 120
Dimethyl phthalate	<0.0080	F1	3.68	2.13	F1	mg/Kg	☼	58	69 - 116
Di-n-butyl phthalate	<0.012		3.68	2.49		mg/Kg	☼	68	65 - 120
Di-n-octyl phthalate	<0.26		3.68	3.06		mg/Kg	☼	83	68 - 134
Hexachlorobenzene	<0.0070	F1	3.68	2.01	F1	mg/Kg	☼	55	63 - 124
Hexachlorobutadiene	<0.021	F1 F2	3.68	1.52	F1	mg/Kg	☼	41	56 - 120
Hexachlorocyclopentadiene	<0.39	F1	3.68	<0.39	F1	mg/Kg	☼	0	10 - 133
Hexachloroethane	<0.018	F1 F2	3.68	1.61	F1	mg/Kg	☼	44	60 - 114
Isophorone	<0.019	F1 F2	3.68	1.75	F1	mg/Kg	☼	48	55 - 110
Nitrobenzene	<0.012	F1 F2	3.68	1.82	F1	mg/Kg	☼	50	60 - 116
N-Nitrosodi-n-propylamine	<0.0073	F1 F2	3.68	1.75	F1	mg/Kg	☼	47	56 - 118
N-Nitrosodiphenylamine	<0.022	F1	3.68	1.89	F1	mg/Kg	☼	51	65 - 112
Pentachlorophenol	<0.092	F2	7.36	1.28		mg/Kg	☼	17	13 - 112
Phenol	<0.016	F1 F2	3.68	1.69	F1	mg/Kg	☼	46	56 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*39*		*31 - 166*
Phenol-d5 (Surr)	*44*		*30 - 153*
Nitrobenzene-d5 (Surr)	*47*		*37 - 147*
2-Fluorobiphenyl (Surr)	*50*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*41*		*31 - 143*
Terphenyl-d14 (Surr)	*58*		*42 - 157*

Lab Sample ID: 500-256054-1 MSD
Matrix: Solid
Analysis Batch: 786139

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 785869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	<0.0075	F1 F2	3.65	2.77	F2	mg/Kg	☼	76	65 - 124	33	30
Acenaphthylene	0.23	F1 F2	3.65	2.83	F2	mg/Kg	☼	71	68 - 120	35	30
Anthracene	0.26	F1	3.65	2.89		mg/Kg	☼	72	70 - 114	24	30
Benzo[a]anthracene	0.41	F1	3.65	2.97		mg/Kg	☼	70	67 - 122	26	30
Benzo[a]pyrene	0.60	F1 F2	3.65	2.97	F2	mg/Kg	☼	65	65 - 133	31	30
Benzo[b]fluoranthene	1.1	F1 F2	3.65	3.49	F1 F2	mg/Kg	☼	66	69 - 129	34	30
Benzo[g,h,i]perylene	0.44	F1 F2	3.65	2.35	F1 F2	mg/Kg	☼	52	72 - 131	39	30
Benzo[k]fluoranthene	0.39	F1	3.65	2.82	F1	mg/Kg	☼	67	68 - 127	20	30
Chrysene	0.62	F1	3.65	3.11		mg/Kg	☼	68	63 - 120	24	30
Dibenz(a,h)anthracene	0.14	F1 F2	3.65	2.49	F2	mg/Kg	☼	64	64 - 131	35	30
Fluoranthene	0.51		3.65	3.41		mg/Kg	☼	79	62 - 120	13	30
Fluorene	0.022	J F1	3.65	2.71		mg/Kg	☼	74	62 - 120	26	30
Indeno[1,2,3-cd]pyrene	0.48	F1 F2	3.65	3.03	F2	mg/Kg	☼	70	68 - 130	36	30
Naphthalene	0.038	F1 F2	3.65	2.51	F2	mg/Kg	☼	68	63 - 110	41	30
Phenanthrene	0.25	F1	3.65	3.02		mg/Kg	☼	76	62 - 120	20	30
Pyrene	0.70	F1	3.65	3.35		mg/Kg	☼	72	61 - 128	20	30
1,2,4-Trichlorobenzene	<0.026	F1 F2	3.65	2.30	F1 F2	mg/Kg	☼	63	66 - 117	41	30
1,2-Dichlorobenzene	<0.015	F1 F2	3.65	2.24	F1 F2	mg/Kg	☼	61	62 - 110	36	30

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256054-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256054-1 MSD
Matrix: Solid
Analysis Batch: 786139

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 785869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3-Dichlorobenzene	<0.017	F1 F2	3.65	2.22	F2	mg/Kg	☼	61	60 - 110	36	30
1,4-Dichlorobenzene	<0.017	F1 F2	3.65	2.15	F1 F2	mg/Kg	☼	59	61 - 110	36	30
2,4,5-Trichlorophenol	<0.014		3.65	2.47		mg/Kg	☼	68	50 - 120	27	30
2,4,6-Trichlorophenol	<0.013	F1 F2	3.65	2.30	F2	mg/Kg	☼	63	57 - 120	36	30
2,4-Dichlorophenol	<0.013	F1 F2	3.65	2.41	F2	mg/Kg	☼	66	58 - 120	41	30
2,4-Dimethylphenol	<0.082	F1 F2	3.65	1.64	F1 F2	mg/Kg	☼	45	60 - 110	51	30
2,4-Dinitrophenol	<0.21	F1	7.30	<0.21	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.021	F1	3.65	2.69		mg/Kg	☼	74	69 - 124	25	30
2,6-Dinitrotoluene	<0.013	F1	3.65	2.77		mg/Kg	☼	76	70 - 123	28	30
2-Chloronaphthalene	<0.014	F1 F2	3.65	2.67	F2	mg/Kg	☼	73	69 - 114	38	30
2-Chlorophenol	<0.012	F1 F2	3.65	2.27	F1 F2	mg/Kg	☼	62	64 - 110	44	30
2-Methylnaphthalene	0.054	J F1 F2	3.65	2.28	F1 F2	mg/Kg	☼	61	69 - 112	42	30
2-Methylphenol	<0.019	F1 F2	3.65	2.06	F1 F2	mg/Kg	☼	57	60 - 120	40	30
2-Nitroaniline	<0.020		3.65	3.02		mg/Kg	☼	83	57 - 124	21	30
2-Nitrophenol	<0.025	F1 F2	3.65	2.19	F2	mg/Kg	☼	60	60 - 120	52	30
3,3'-Dichlorobenzidine	<0.030	F1 F2	3.65	1.44	F2	mg/Kg	☼	39	35 - 128	44	30
3 & 4 Methylphenol	<0.027	F1 F2	3.65	2.28	F2	mg/Kg	☼	63	57 - 120	39	30
3-Nitroaniline	<0.017		3.65	2.55		mg/Kg	☼	70	40 - 122	25	30
4,6-Dinitro-2-methylphenol	<0.21	F1 F2	7.30	0.506	J F1 F2	mg/Kg	☼	7	10 - 110	50	30
4-Bromophenyl phenyl ether	<0.025	F1	3.65	2.59		mg/Kg	☼	71	68 - 118	19	30
4-Chloro-3-methylphenol	<0.014	F1	3.65	2.65		mg/Kg	☼	73	65 - 122	26	30
4-Chloroaniline	<0.39	F2	3.65	1.75	F2	mg/Kg	☼	48	30 - 150	37	30
4-Chlorophenyl phenyl ether	<0.048	F1	3.65	2.62		mg/Kg	☼	72	62 - 119	27	30
4-Nitroaniline	<0.027	F1	3.65	2.43		mg/Kg	☼	67	60 - 160	23	30
4-Nitrophenol	<0.14		7.30	5.09		mg/Kg	☼	70	30 - 122	21	30
Bis(2-chloroethoxy)methane	<0.014	F1 F2	3.65	2.51	F2	mg/Kg	☼	69	60 - 112	40	30
Bis(2-chloroethyl)ether	<0.017	F1 F2	3.65	2.40	F2	mg/Kg	☼	66	55 - 111	36	30
bis(chloroisopropyl) ether	<0.026	F2	3.65	2.64	F2	mg/Kg	☼	72	40 - 124	34	30
Bis(2-ethylhexyl) phthalate	<0.14		3.65	3.23		mg/Kg	☼	89	72 - 131	16	30
Butyl benzyl phthalate	<0.018	F1	3.65	3.00		mg/Kg	☼	82	71 - 129	18	30
Carbazole	0.091	J F1	3.65	2.80		mg/Kg	☼	74	65 - 142	22	30
Dibenzofuran	0.025	J F1	3.65	2.63		mg/Kg	☼	71	66 - 115	30	30
Diethyl phthalate	<0.017		3.65	2.84		mg/Kg	☼	78	58 - 120	22	30
Dimethyl phthalate	<0.0080	F1	3.65	2.72		mg/Kg	☼	75	69 - 116	24	30
Di-n-butyl phthalate	<0.012		3.65	2.92		mg/Kg	☼	80	65 - 120	16	30
Di-n-octyl phthalate	<0.26		3.65	3.48		mg/Kg	☼	96	68 - 134	13	30
Hexachlorobenzene	<0.0070	F1	3.65	2.57		mg/Kg	☼	70	63 - 124	25	30
Hexachlorobutadiene	<0.021	F1 F2	3.65	2.27	F2	mg/Kg	☼	62	56 - 120	40	30
Hexachlorocyclopentadiene	<0.39	F1	3.65	<0.39	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.018	F1 F2	3.65	2.27	F2	mg/Kg	☼	62	60 - 114	34	30
Isophorone	<0.019	F1 F2	3.65	2.59	F2	mg/Kg	☼	71	55 - 110	38	30
Nitrobenzene	<0.012	F1 F2	3.65	2.66	F2	mg/Kg	☼	73	60 - 116	37	30
N-Nitrosodi-n-propylamine	<0.0073	F1 F2	3.65	2.54	F2	mg/Kg	☼	70	56 - 118	37	30
N-Nitrosodiphenylamine	<0.022	F1	3.65	2.51		mg/Kg	☼	69	65 - 112	28	30
Pentachlorophenol	<0.092	F2	7.30	1.77	F2	mg/Kg	☼	24	13 - 112	32	30
Phenol	<0.016	F1 F2	3.65	2.52	F2	mg/Kg	☼	69	56 - 122	39	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256054-1 MSD
Matrix: Solid
Analysis Batch: 786139

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 785869

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol (Surr)	*61*		*31 - 166*
Phenol-d5 (Surr)	*65*		*30 - 153*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*
2-Fluorobiphenyl (Surr)	*70*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*55*		*31 - 143*
Terphenyl-d14 (Surr)	*67*		*42 - 157*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-784769/5
Matrix: Solid
Analysis Batch: 784769

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			09/05/24 20:37	50

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*100*		*70 - 130*		*09/05/24 20:37*	*50*
4-Bromofluorobenzene	*107*		*60 - 130*		*09/05/24 20:37*	*50*

Lab Sample ID: LCS 500-784769/6
Matrix: Solid
Analysis Batch: 784769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	19.9	17.1		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	*104*		*70 - 130*
4-Bromofluorobenzene	*106*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-785024/1-A
Matrix: Solid
Analysis Batch: 785398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		09/09/24 07:38	09/10/24 20:30	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		09/09/24 07:38	09/10/24 20:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	*76*		*50 - 126*	*09/09/24 07:38*	*09/10/24 20:30*	*1*
2-Fluorobiphenyl (Surr)	*71*		*40 - 133*	*09/09/24 07:38*	*09/10/24 20:30*	*1*

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 500-785024/2-A
Matrix: Solid
Analysis Batch: 785398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785024

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	48.8		mg/Kg		73	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*85*		*50 - 126*
2-Fluorobiphenyl (Surr)	*76*		*40 - 133*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-785837/1-A
Matrix: Solid
Analysis Batch: 786422

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/12/24 17:29	09/17/24 13:55	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-785837/1-A
Matrix: Solid
Analysis Batch: 786422

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/12/24 17:29	09/17/24 13:55	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/12/24 17:29	09/17/24 13:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*33 - 148*	*09/12/24 17:29*	*09/17/24 13:55*	*1*
DCB Decachlorobiphenyl	*101*		*33 - 148*	*09/12/24 17:29*	*09/17/24 13:55*	*1*
Tetrachloro-m-xylene	*79*		*30 - 121*	*09/12/24 17:29*	*09/17/24 13:55*	*1*
Tetrachloro-m-xylene	*76*		*30 - 121*	*09/12/24 17:29*	*09/17/24 13:55*	*1*

Lab Sample ID: MB 500-785837/1-A
Matrix: Solid
Analysis Batch: 786579

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/12/24 17:29	09/18/24 17:32	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/12/24 17:29	09/18/24 17:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*33 - 148*	*09/12/24 17:29*	*09/18/24 17:32*	*1*
Tetrachloro-m-xylene	*59*		*30 - 121*	*09/12/24 17:29*	*09/18/24 17:32*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-785837/2-A
Matrix: Solid
Analysis Batch: 786422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0107		mg/Kg		80	47 - 137
4,4'-DDD	0.0133	0.0108		mg/Kg		81	47 - 137
4,4'-DDE	0.0133	0.0122		mg/Kg		92	50 - 130
4,4'-DDE	0.0133	0.0121		mg/Kg		90	50 - 130
4,4'-DDT	0.0133	0.0105		mg/Kg		79	46 - 143
4,4'-DDT	0.0133	0.0101		mg/Kg		76	46 - 143
Aldrin	0.0133	0.0117		mg/Kg		88	52 - 122
Aldrin	0.0133	0.0127		mg/Kg		95	52 - 122
alpha-BHC	0.0133	0.0115		mg/Kg		87	50 - 123
alpha-BHC	0.0133	0.0113		mg/Kg		85	50 - 123
beta-BHC	0.0133	0.0110		mg/Kg		83	44 - 140
beta-BHC	0.0133	0.0105		mg/Kg		79	44 - 140
delta-BHC	0.0133	0.0113		mg/Kg		85	57 - 125
delta-BHC	0.0133	0.0114		mg/Kg		86	57 - 125
Dieldrin	0.0133	0.0126		mg/Kg		95	51 - 133
Dieldrin	0.0133	0.0127		mg/Kg		95	51 - 133
Endosulfan I	0.0133	0.0100		mg/Kg		75	30 - 120
Endosulfan I	0.0133	0.00952		mg/Kg		71	30 - 120
Endosulfan II	0.0133	0.00976		mg/Kg		73	30 - 120
Endosulfan II	0.0133	0.00988		mg/Kg		74	30 - 120
Endosulfan sulfate	0.0133	0.0114		mg/Kg		85	42 - 150
Endosulfan sulfate	0.0133	0.0109		mg/Kg		82	42 - 150
Endrin	0.0133	0.0113		mg/Kg		85	43 - 144
Endrin	0.0133	0.0111		mg/Kg		83	43 - 144
Endrin aldehyde	0.0133	0.0102		mg/Kg		77	39 - 131
Endrin aldehyde	0.0133	0.0104		mg/Kg		78	39 - 131
Endrin ketone	0.0133	0.0108		mg/Kg		81	51 - 135
Endrin ketone	0.0133	0.0107		mg/Kg		80	51 - 135
gamma-BHC (Lindane)	0.0133	0.0117		mg/Kg		88	50 - 122
gamma-BHC (Lindane)	0.0133	0.0110		mg/Kg		82	50 - 122
Heptachlor	0.0133	0.0109		mg/Kg		82	53 - 129
Heptachlor	0.0133	0.0105		mg/Kg		78	53 - 129
Heptachlor epoxide	0.0133	0.0125		mg/Kg		94	50 - 139
Heptachlor epoxide	0.0133	0.0121		mg/Kg		91	50 - 139
Methoxychlor	0.0133	0.00973		mg/Kg		73	45 - 144
Methoxychlor	0.0133	0.0131		mg/Kg		98	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*88*		*33 - 148*
DCB Decachlorobiphenyl	*91*		*33 - 148*
Tetrachloro-m-xylene	*78*		*30 - 121*
Tetrachloro-m-xylene	*82*		*30 - 121*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-785837/2-A
Matrix: Solid
Analysis Batch: 786579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.00730		mg/Kg		55	47 - 137
4,4'-DDE	0.0133	0.0110		mg/Kg		83	50 - 130
4,4'-DDT	0.0133	0.00746		mg/Kg		56	46 - 143
Aldrin	0.0133	0.00792		mg/Kg		59	52 - 122
alpha-BHC	0.0133	0.00800		mg/Kg		60	50 - 123
beta-BHC	0.0133	0.00872		mg/Kg		65	44 - 140
Dieldrin	0.0133	0.00876		mg/Kg		66	51 - 133
Endosulfan I	0.0133	0.00644		mg/Kg		48	30 - 120
Endosulfan II	0.0133	0.00697		mg/Kg		52	30 - 120
Endrin	0.0133	0.00960		mg/Kg		72	43 - 144
Endrin ketone	0.0133	0.00942		mg/Kg		71	51 - 135
gamma-BHC (Lindane)	0.0133	0.00767		mg/Kg		58	50 - 122
Heptachlor	0.0133	0.00918		mg/Kg		69	53 - 129
Heptachlor epoxide	0.0133	0.00853		mg/Kg		64	50 - 139
Methoxychlor	0.0133	0.0101		mg/Kg		75	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*33 - 148*
Tetrachloro-m-xylene	*59*		*30 - 121*

Lab Sample ID: 500-256054-1 MS
Matrix: Solid
Analysis Batch: 786579

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 785837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.0050		0.0142	0.0106		mg/Kg	☼	75	47 - 137
4,4'-DDE	<0.0048		0.0142	0.0103		mg/Kg	☼	73	50 - 130
4,4'-DDT	<0.0044		0.0142	0.0111		mg/Kg	☼	79	46 - 143
Aldrin	<0.0065		0.0142	0.00909		mg/Kg	☼	64	52 - 122
beta-BHC	<0.0075		0.0142	0.00911		mg/Kg	☼	64	44 - 140
Dieldrin	<0.0049		0.0142	0.0106		mg/Kg	☼	75	51 - 133
Endosulfan I	<0.0050		0.0142	0.00756	J	mg/Kg	☼	53	30 - 120
Endosulfan II	<0.0051		0.0142	0.0103		mg/Kg	☼	73	30 - 120
Endrin	<0.0048		0.0142	0.00950		mg/Kg	☼	67	43 - 144
Endrin ketone	<0.0045		0.0142	0.0122		mg/Kg	☼	86	51 - 135
gamma-BHC (Lindane)	<0.0046		0.0142	0.00849	J	mg/Kg	☼	60	50 - 122
Heptachlor	<0.0051		0.0142	0.00821	J	mg/Kg	☼	58	53 - 129
Heptachlor epoxide	<0.0050	F2	0.0142	0.0141		mg/Kg	☼	99	50 - 139
Methoxychlor	<0.0061	F1 F2	0.0142	0.0212	J F1	mg/Kg	☼	149	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*193*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*60*		*30 - 121*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-256054-1 MS
Matrix: Solid
Analysis Batch: 786579

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 785837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
delta-BHC	<0.018		0.0142	<0.017		mg/Kg	☼	NC	57 - 125
Endosulfan sulfate	<0.021		0.0142	0.0362		mg/Kg	☼	NC	42 - 150
Endrin aldehyde	<0.021		0.0142	<0.020		mg/Kg	☼	NC	39 - 131
gamma-BHC (Lindane)	<0.019		0.0142	<0.018		mg/Kg	☼	NC	50 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*

Lab Sample ID: 500-256054-1 MSD
Matrix: Solid
Analysis Batch: 786579

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 785837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.0050		0.0145	0.0106		mg/Kg	☼	73	47 - 137	0	30
4,4'-DDE	<0.0048		0.0145	0.00950		mg/Kg	☼	66	50 - 130	8	30
4,4'-DDT	<0.0044		0.0145	0.0116		mg/Kg	☼	80	46 - 143	4	30
Aldrin	<0.0065		0.0145	0.00873	J	mg/Kg	☼	60	52 - 122	4	30
beta-BHC	<0.0075		0.0145	0.00830	J	mg/Kg	☼	57	44 - 140	9	30
Dieldrin	<0.0049		0.0145	0.00990		mg/Kg	☼	68	51 - 133	6	30
Endosulfan I	<0.0050		0.0145	0.00703	J	mg/Kg	☼	49	30 - 120	7	30
Endosulfan II	<0.0051		0.0145	0.0118		mg/Kg	☼	81	30 - 120	13	30
Endrin	<0.0048		0.0145	0.00972		mg/Kg	☼	67	43 - 144	2	30
Endrin ketone	<0.0045		0.0145	0.0117		mg/Kg	☼	81	51 - 135	4	30
gamma-BHC (Lindane)	<0.0046		0.0145	0.00850	J	mg/Kg	☼	59	50 - 122	0	30
Heptachlor	<0.0051		0.0145	0.00822	J	mg/Kg	☼	57	53 - 129	0	30
Heptachlor epoxide	<0.0050	F2	0.0145	0.00991	F2	mg/Kg	☼	68	50 - 139	35	30
Methoxychlor	<0.0061	F1 F2	0.0145	0.0329	J F1 F2	mg/Kg	☼	227	45 - 144	43	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*260*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*59*		*30 - 121*

Lab Sample ID: 500-256054-1 MSD
Matrix: Solid
Analysis Batch: 786579

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 785837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
delta-BHC	<0.018		0.0145	<0.018		mg/Kg	☼	NC	57 - 125	NC	30
Endosulfan sulfate	<0.021		0.0145	0.0438		mg/Kg	☼	NC	42 - 150	19	30
Endrin aldehyde	<0.021		0.0145	<0.021		mg/Kg	☼	NC	39 - 131	NC	30
gamma-BHC (Lindane)	<0.019		0.0145	<0.018		mg/Kg	☼	NC	50 - 122	NC	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-785837/1-A
Matrix: Solid
Analysis Batch: 786412

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/12/24 17:29	09/17/24 20:28	1
PCB-1221	<0.017		0.017		mg/Kg		09/12/24 17:29	09/17/24 20:28	1
PCB-1232	<0.017		0.017		mg/Kg		09/12/24 17:29	09/17/24 20:28	1
PCB-1242	<0.017		0.017		mg/Kg		09/12/24 17:29	09/17/24 20:28	1
PCB-1248	<0.017		0.017		mg/Kg		09/12/24 17:29	09/17/24 20:28	1
PCB-1254	<0.017		0.017		mg/Kg		09/12/24 17:29	09/17/24 20:28	1
PCB-1260	<0.017		0.017		mg/Kg		09/12/24 17:29	09/17/24 20:28	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/12/24 17:29	09/17/24 20:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*49 - 129*	*09/12/24 17:29*	*09/17/24 20:28*	*1*
DCB Decachlorobiphenyl	*7*	*S1-*	*37 - 121*	*09/12/24 17:29*	*09/17/24 20:28*	*1*

Lab Sample ID: LCS 500-785837/3-A
Matrix: Solid
Analysis Batch: 786412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.125		mg/Kg		75	57 - 120
PCB-1260	0.167	0.138		mg/Kg		83	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*64*		*49 - 129*
DCB Decachlorobiphenyl	*50*		*37 - 121*

Lab Sample ID: 500-256054-1 MS
Matrix: Solid
Analysis Batch: 786645

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 785837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.18		0.176	<0.18		mg/Kg	☼	92	57 - 120
PCB-1260	<0.18	F1	0.176	0.214		mg/Kg	☼	121	61 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*49 - 129*
DCB Decachlorobiphenyl	*103*		*37 - 121*

Lab Sample ID: 500-256054-1 MSD
Matrix: Solid
Analysis Batch: 786645

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 785837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.18		0.175	<0.18		mg/Kg	☼	100	57 - 120	7	30
PCB-1260	<0.18	F1	0.175	0.247	F1	mg/Kg	☼	141	61 - 125	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*49 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-256054-1 MSD
Matrix: Solid
Analysis Batch: 786645

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 785837

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*117*		*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-786289/1-A
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Antimony	<2.0		2.0		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Arsenic	<1.0		1.0		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Barium	<1.0		1.0		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Beryllium	<0.40		0.40		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Cadmium	<0.20		0.20		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Calcium	<20		20		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Chromium	<1.0		1.0		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Cobalt	<0.50		0.50		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Copper	<1.0		1.0		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Iron	<20		20		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Lead	<0.50		0.50		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Magnesium	<10		10		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Manganese	<1.0		1.0		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Nickel	<1.0		1.0		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Potassium	<50		50		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Selenium	<1.0		1.0		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Silver	<0.50		0.50		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Sodium	<100		100		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Thallium	<1.0		1.0		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Vanadium	<0.50		0.50		mg/Kg		09/16/24 14:54	09/17/24 22:27	1
Zinc	<2.0		2.0		mg/Kg		09/16/24 14:54	09/17/24 22:27	1

Lab Sample ID: LCS 500-786289/2-A
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	197		mg/Kg		98	80 - 120
Antimony	50.0	48.1		mg/Kg		96	80 - 120
Arsenic	10.0	9.40		mg/Kg		94	80 - 120
Barium	200	200		mg/Kg		100	80 - 120
Beryllium	5.00	4.90		mg/Kg		98	80 - 120
Cadmium	5.00	4.84		mg/Kg		97	80 - 120
Calcium	1000	1020		mg/Kg		102	80 - 120
Chromium	20.0	20.3		mg/Kg		102	80 - 120
Cobalt	50.0	50.2		mg/Kg		100	80 - 120
Copper	25.0	25.2		mg/Kg		101	80 - 120
Iron	100	106		mg/Kg		106	80 - 120
Lead	10.0	10.1		mg/Kg		101	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-786289/2-A
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	1000	983		mg/Kg		98	80 - 120
Manganese	50.0	49.6		mg/Kg		99	80 - 120
Nickel	50.0	51.3		mg/Kg		103	80 - 120
Potassium	1000	1000		mg/Kg		100	80 - 120
Selenium	10.0	9.49		mg/Kg		95	80 - 120
Silver	5.00	4.31		mg/Kg		86	80 - 120
Sodium	1000	1000		mg/Kg		100	80 - 120
Thallium	10.0	9.95		mg/Kg		100	80 - 120
Vanadium	50.0	50.8		mg/Kg		102	80 - 120
Zinc	50.0	51.0		mg/Kg		102	80 - 120

Lab Sample ID: 500-256054-1 MS
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 786289

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	11000		220	11300	4	mg/Kg	☼	7	75 - 125
Chromium	43	F1 F2	22.0	92.3	F1	mg/Kg	☼	223	75 - 125
Cobalt	7.0		55.1	65.2		mg/Kg	☼	106	75 - 125
Magnesium	7600	F2	1100	21400	4	mg/Kg	☼	1257	75 - 125
Potassium	620		1100	1700		mg/Kg	☼	98	75 - 125
Sodium	360		1100	1480		mg/Kg	☼	102	75 - 125
Zinc	240		55.1	280	4	mg/Kg	☼	76	75 - 125

Lab Sample ID: 500-256054-1 MS
Matrix: Solid
Analysis Batch: 786677

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 786289

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<9.5	F1 F2	55.1	21.5	F1	mg/Kg	☼	39	75 - 125
Arsenic	<4.8	F1 F2	11.0	25.2	F1	mg/Kg	☼	187	75 - 125
Barium	220		220	438		mg/Kg	☼	101	75 - 125
Beryllium	3.1		5.51	8.85		mg/Kg	☼	104	75 - 125
Cadmium	1.4		5.51	6.70		mg/Kg	☼	96	75 - 125
Calcium	74000		1100	95600	4	mg/Kg	☼	1954	75 - 125
Copper	35		27.6	66.4		mg/Kg	☼	116	75 - 125
Iron	140000		110	144000	4	mg/Kg	☼	1835	75 - 125
Lead	200		11.0	170	4	mg/Kg	☼	-304	75 - 125
Manganese	7300		55.1	6940	4	mg/Kg	☼	-644	75 - 125
Nickel	17		55.1	78.9		mg/Kg	☼	112	75 - 125
Selenium	<4.8		11.0	14.2		mg/Kg	☼	90	75 - 125
Silver	<2.4		5.51	4.70		mg/Kg	☼	85	75 - 125
Thallium	39	F1	11.0	47.2	F1	mg/Kg	☼	71	75 - 125
Vanadium	43	F1 F2	55.1	134	F1	mg/Kg	☼	165	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256054-1 MSD
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 786289

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	11000		198	11300	4	mg/Kg	☼	-36	75 - 125	1	20
Chromium	43	F1 F2	19.8	58.8	F2	mg/Kg	☼	79	75 - 125	44	20
Cobalt	7.0		49.5	55.2		mg/Kg	☼	97	75 - 125	17	20
Magnesium	7600	F2	990	9550	4 F2	mg/Kg	☼	200	75 - 125	77	20
Potassium	620		990	1590		mg/Kg	☼	98	75 - 125	7	20
Sodium	360		990	1410		mg/Kg	☼	106	75 - 125	5	20
Zinc	240		49.5	293	4	mg/Kg	☼	111	75 - 125	5	20

Lab Sample ID: 500-256054-1 MSD
Matrix: Solid
Analysis Batch: 786677

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 786289

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<9.5	F1 F2	49.5	15.7	F1 F2	mg/Kg	☼	32	75 - 125	31	20
Arsenic	<4.8	F1 F2	9.90	15.6	F2	mg/Kg	☼	111	75 - 125	47	20
Barium	220		198	453		mg/Kg	☼	120	75 - 125	3	20
Beryllium	3.1		4.95	7.89		mg/Kg	☼	97	75 - 125	11	20
Cadmium	1.4		4.95	6.38		mg/Kg	☼	101	75 - 125	5	20
Calcium	74000		990	82800	4	mg/Kg	☼	887	75 - 125	14	20
Copper	35		24.8	61.7		mg/Kg	☼	110	75 - 125	7	20
Iron	140000		99.0	141000	4	mg/Kg	☼	-776	75 - 125	2	20
Lead	200		9.90	185	4	mg/Kg	☼	-189	75 - 125	8	20
Manganese	7300		49.5	7470	4	mg/Kg	☼	353	75 - 125	7	20
Nickel	17		49.5	68.1		mg/Kg	☼	103	75 - 125	15	20
Selenium	<4.8		9.90	12.6		mg/Kg	☼	83	75 - 125	12	20
Silver	<2.4		4.95	4.44		mg/Kg	☼	90	75 - 125	6	20
Thallium	39	F1	9.90	49.8		mg/Kg	☼	106	75 - 125	5	20
Vanadium	43	F1 F2	49.5	95.6	F2	mg/Kg	☼	107	75 - 125	33	20

Lab Sample ID: 500-256054-1 DU
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 786289

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	11000		9110	F3	mg/Kg	☼	22	20
Chromium	43	F1 F2	36.3		mg/Kg	☼	17	20
Cobalt	7.0		7.10		mg/Kg	☼	0.7	20
Magnesium	7600	F2	12100	F3	mg/Kg	☼	46	20
Potassium	620		495	F3	mg/Kg	☼	22	20
Sodium	360		310		mg/Kg	☼	14	20
Zinc	240		270		mg/Kg	☼	13	20

Lab Sample ID: 500-256054-1 DU
Matrix: Solid
Analysis Batch: 786677

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 786289

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<9.5	F1 F2	<10		mg/Kg	☼	NC	20
Arsenic	<4.8	F1 F2	5.26		mg/Kg	☼	NC	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256054-1 DU
Matrix: Solid
Analysis Batch: 786677

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 786289

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	220		258		mg/Kg	☼	18	20
Beryllium	3.1		3.18		mg/Kg	☼	3	20
Cadmium	1.4		1.68		mg/Kg	☼	19	20
Calcium	74000		80700		mg/Kg	☼	9	20
Copper	35		34.3		mg/Kg	☼	0.8	20
Iron	140000		147000		mg/Kg	☼	4	20
Lead	200		229		mg/Kg	☼	12	20
Manganese	7300		5840	F3	mg/Kg	☼	22	20
Nickel	17		16.0		mg/Kg	☼	6	20
Selenium	<4.8		<5.0		mg/Kg	☼	NC	20
Silver	<2.4		<2.5		mg/Kg	☼	NC	20
Thallium	39	F1	32.1		mg/Kg	☼	20	20
Vanadium	43	F1 F2	37.9		mg/Kg	☼	12	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-786643/11-A
Matrix: Solid
Analysis Batch: 786899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/18/24 16:35	09/19/24 06:55	1

Lab Sample ID: LCS 500-786643/12-A
Matrix: Solid
Analysis Batch: 786899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.177		mg/Kg		106	80 - 120

Lab Sample ID: 500-256054-1 MS
Matrix: Solid
Analysis Batch: 786899

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 786643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.073		0.0891	0.184		mg/Kg	☼	125	75 - 125

Lab Sample ID: 500-256054-1 MSD
Matrix: Solid
Analysis Batch: 786899

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 786643

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.073		0.0901	0.182		mg/Kg	☼	122	75 - 125	1	20

Lab Sample ID: 500-256054-1 DU
Matrix: Solid
Analysis Batch: 786899

Client Sample ID: SB17 (0-3)
Prep Type: Total/NA
Prep Batch: 786643

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.073		0.129	F3	mg/Kg	☼	56	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-784292/1-A
Matrix: Solid
Analysis Batch: 784511

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/03/24 16:00	09/04/24 11:07	1

Lab Sample ID: LCS 500-784292/2-A
Matrix: Solid
Analysis Batch: 784511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.42		mg/Kg		101	85 - 115

Lab Sample ID: 500-256054-8 MS
Matrix: Solid
Analysis Batch: 784511

Client Sample ID: SB20 (3-5)
Prep Type: Total/NA
Prep Batch: 784292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	6.8	F1	2.58	7.18	F1	mg/Kg	☼	14	75 - 125

Lab Sample ID: 500-256054-8 MSD
Matrix: Solid
Analysis Batch: 784511

Client Sample ID: SB20 (3-5)
Prep Type: Total/NA
Prep Batch: 784292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	6.8	F1	2.64	8.23	F1	mg/Kg	☼	54	75 - 125	14	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-625847/1-A
Matrix: Solid
Analysis Batch: 625911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/05/24 07:21	09/05/24 10:07	1

Lab Sample ID: LCS 240-625847/2-A
Matrix: Solid
Analysis Batch: 625911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	81.3	78.7		mg/Kg		97	56 - 120

Client Sample ID: SB17 (0-3)
Lab Sample ID: 500-256054-1

Date Collected: 08/30/24 09:08
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 16:32
Total/NA	Analysis	Moisture		1	785939	ER	EET CHI	09/13/24 09:21

Client Sample ID: SB17 (0-3)
Lab Sample ID: 500-256054-1

Date Collected: 08/30/24 09:08
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784315		EET CHI	08/30/24 09:08
Total/NA	Analysis	8260D		50	785639	EA	EET CHI	09/12/24 14:34
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		1	786139	H7CM	EET CHI	09/16/24 19:59
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		5	786579	H7CM	EET CHI	09/18/24 18:30
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		20	786579	H7CM	EET CHI	09/18/24 18:41
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		10	786645	SB	EET CHI	09/18/24 15:11
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/17/24 22:36
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		5	786677	SJ	EET CHI	09/18/24 11:44
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 06:59
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:29

Client Sample ID: SB17 (5-7.5)
Lab Sample ID: 500-256054-2

Date Collected: 08/30/24 09:18
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 16:34
Total/NA	Analysis	Moisture		1	785939	ER	EET CHI	09/13/24 09:21

Client Sample ID: SB17 (5-7.5)
Lab Sample ID: 500-256054-2

Date Collected: 08/30/24 09:18
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784327		EET CHI	08/30/24 09:18
Total/NA	Analysis	8260D		1	785244	W1T	EET CHI	09/10/24 11:55
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		1	786139	H7CM	EET CHI	09/16/24 14:44

Client Sample ID: SB17 (5-7.5)

Lab Sample ID: 500-256054-2

Date Collected: 08/30/24 09:18

Matrix: Solid

Date Received: 09/03/24 11:50

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		1	786422	H7CM	EET CHI	09/17/24 17:41
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		1	786499	H7CM	EET CHI	09/17/24 21:48
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/17/24 23:08
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:07
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:30

Client Sample ID: SB18 (0-3)

Lab Sample ID: 500-256054-3

Date Collected: 08/30/24 10:04

Matrix: Solid

Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 16:36
Total/NA	Analysis	Moisture		1	785939	ER	EET CHI	09/13/24 09:21

Client Sample ID: SB18 (0-3)

Lab Sample ID: 500-256054-3

Date Collected: 08/30/24 10:04

Matrix: Solid

Date Received: 09/03/24 11:50

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784315		EET CHI	08/30/24 10:04
Total/NA	Analysis	8260D		50	785639	EA	EET CHI	09/12/24 14:59
Total/NA	Prep	3546	DL		785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E	DL	20	786381	JSB	EET CHI	09/17/24 14:11
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		1	786139	H7CM	EET CHI	09/16/24 15:08
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		1	786422	H7CM	EET CHI	09/17/24 17:53
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		1	786499	H7CM	EET CHI	09/17/24 22:03
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/17/24 23:12
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		5	786677	SJ	EET CHI	09/18/24 12:06
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		20	786925	SJ	EET CHI	09/19/24 13:38
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:09
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:32

Client Sample ID: SB18 (7.5-10)
Lab Sample ID: 500-256054-4

Date Collected: 08/30/24 10:20
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 16:39
Total/NA	Analysis	Moisture		1	785939	ER	EET CHI	09/13/24 09:21

Client Sample ID: SB18 (7.5-10)
Lab Sample ID: 500-256054-4

Date Collected: 08/30/24 10:20
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784327		EET CHI	08/30/24 10:20
Total/NA	Analysis	8260D		1	785244	W1T	EET CHI	09/10/24 12:44
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		1	786139	H7CM	EET CHI	09/16/24 15:32
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		1	786422	H7CM	EET CHI	09/17/24 18:04
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		1	786499	H7CM	EET CHI	09/17/24 22:18
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/17/24 23:17
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		5	786677	SJ	EET CHI	09/18/24 12:11
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:11
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:34

Client Sample ID: SB19 (0-3)
Lab Sample ID: 500-256054-5

Date Collected: 08/30/24 11:08
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 16:44
Total/NA	Analysis	Moisture		1	785939	ER	EET CHI	09/13/24 09:21

Client Sample ID: SB19 (0-3)
Lab Sample ID: 500-256054-5

Date Collected: 08/30/24 11:08
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784315		EET CHI	08/30/24 11:08
Total/NA	Analysis	8260D		50	785639	EA	EET CHI	09/12/24 15:51
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		1	786139	H7CM	EET CHI	09/16/24 15:57
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		1	786422	H7CM	EET CHI	09/17/24 18:16

Client Sample ID: SB19 (0-3)

Lab Sample ID: 500-256054-5

Date Collected: 08/30/24 11:08

Matrix: Solid

Date Received: 09/03/24 11:50

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		1	786645	SB	EET CHI	09/18/24 15:56
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/17/24 23:21
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		5	786677	SJ	EET CHI	09/18/24 12:15
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:17
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		5	784511	AC	EET CHI	09/04/24 13:03

Client Sample ID: SB19 (5-7.5)

Lab Sample ID: 500-256054-6

Date Collected: 08/30/24 11:21

Matrix: Solid

Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 16:46
Total/NA	Analysis	Moisture		1	785939	ER	EET CHI	09/13/24 09:21

Client Sample ID: SB19 (5-7.5)

Lab Sample ID: 500-256054-6

Date Collected: 08/30/24 11:21

Matrix: Solid

Date Received: 09/03/24 11:50

Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784327		EET CHI	08/30/24 11:21
Total/NA	Analysis	8260D		1	785244	W1T	EET CHI	09/10/24 13:09
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		1	786139	H7CM	EET CHI	09/16/24 16:21
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		1	786422	H7CM	EET CHI	09/17/24 18:28
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		1	786499	H7CM	EET CHI	09/17/24 22:48
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/17/24 23:26
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:19
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:37

Client Sample ID: SB20 (0-3)

Lab Sample ID: 500-256054-7

Date Collected: 08/30/24 12:09

Matrix: Solid

Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 16:49

Client Sample ID: SB20 (0-3)
Lab Sample ID: 500-256054-7
Date Collected: 08/30/24 12:09
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	785939	ER	EET CHI	09/13/24 09:21

Client Sample ID: SB20 (0-3)
Lab Sample ID: 500-256054-7
Date Collected: 08/30/24 12:09
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784327		EET CHI	08/30/24 12:09
Total/NA	Analysis	8260D		1	785244	W1T	EET CHI	09/10/24 13:34
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		1	786139	H7CM	EET CHI	09/16/24 16:45
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		5	786579	H7CM	EET CHI	09/18/24 19:40
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		20	786579	H7CM	EET CHI	09/18/24 19:51
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		1	786499	H7CM	EET CHI	09/17/24 23:03
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/17/24 23:30
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		5	786677	SJ	EET CHI	09/18/24 12:20
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:21
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:39

Client Sample ID: SB20 (3-5)
Lab Sample ID: 500-256054-8
Date Collected: 08/30/24 12:14
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 16:51
Total/NA	Analysis	Moisture		1	785939	ER	EET CHI	09/13/24 09:21

Client Sample ID: SB20 (3-5)
Lab Sample ID: 500-256054-8
Date Collected: 08/30/24 12:14
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784315		EET CHI	08/30/24 12:14
Total/NA	Analysis	8260D		50	785639	EA	EET CHI	09/12/24 16:17
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		1	786139	H7CM	EET CHI	09/16/24 17:10
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		10	786579	H7CM	EET CHI	09/18/24 20:03

Client Sample ID: SB20 (3-5)
Lab Sample ID: 500-256054-8

Date Collected: 08/30/24 12:14
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		50	786579	H7CM	EET CHI	09/18/24 20:15
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		10	786645	SB	EET CHI	09/18/24 16:11
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/17/24 23:35
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		5	786677	SJ	EET CHI	09/18/24 12:24
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:23
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		5	784511	AC	EET CHI	09/04/24 13:07

Client Sample ID: SB21 (0-3)
Lab Sample ID: 500-256054-9

Date Collected: 08/30/24 13:00
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 16:54
Total/NA	Analysis	Moisture		1	785939	ER	EET CHI	09/13/24 09:21

Client Sample ID: SB21 (0-3)
Lab Sample ID: 500-256054-9

Date Collected: 08/30/24 13:00
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784315		EET CHI	08/30/24 13:00
Total/NA	Analysis	8260D		50	785639	EA	EET CHI	09/12/24 16:42
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		1	786139	H7CM	EET CHI	09/16/24 17:34
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		5	786579	H7CM	EET CHI	09/18/24 20:26
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		20	786579	H7CM	EET CHI	09/18/24 20:38
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		10	786645	SB	EET CHI	09/18/24 16:26
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/17/24 23:40
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		5	786677	SJ	EET CHI	09/18/24 12:38
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:24
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:50

Client Sample ID: SB21 (12.5-15)
Lab Sample ID: 500-256054-10

Date Collected: 08/30/24 13:29
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 16:56
Total/NA	Analysis	Moisture		1	785939	ER	EET CHI	09/13/24 09:21

Client Sample ID: SB21 (12.5-15)
Lab Sample ID: 500-256054-10

Date Collected: 08/30/24 13:29
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784315		EET CHI	08/30/24 13:29
Total/NA	Analysis	8260D		50	785639	EA	EET CHI	09/12/24 17:08
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		2	786139	H7CM	EET CHI	09/16/24 17:58
Total/NA	Prep	5035			784315		EET CHI	08/30/24 13:29
Total/NA	Analysis	8015D		50	784769	WRE	EET CHI	09/06/24 03:18
Total/NA	Prep	3541			785024	FRG	EET CHI	09/09/24 07:38 - 09/09/24 15:38 [1]
Total/NA	Analysis	8015D		20	785398	H7CM	EET CHI	09/11/24 00:46
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		5	786579	H7CM	EET CHI	09/18/24 20:50
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		20	786579	H7CM	EET CHI	09/18/24 21:01
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		10	786645	SB	EET CHI	09/18/24 16:41
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/17/24 23:53
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:26
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:52
Total/NA	Prep	9030B			625847	BLW	EET CLE	09/05/24 07:21
Total/NA	Analysis	9034		1	625911	BLW	EET CLE	09/05/24 13:16

Client Sample ID: SB22 (0-3)
Lab Sample ID: 500-256054-11

Date Collected: 08/30/24 14:04
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 16:59
Total/NA	Analysis	Moisture		1	785955	ER	EET CHI	09/13/24 09:58

Client Sample ID: SB22 (0-3)

Lab Sample ID: 500-256054-11

Date Collected: 08/30/24 14:04

Matrix: Solid

Date Received: 09/03/24 11:50

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784315		EET CHI	08/30/24 14:04
Total/NA	Analysis	8260D		50	785639	EA	EET CHI	09/12/24 17:34
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		2	786139	H7CM	EET CHI	09/16/24 18:22
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		1	786422	H7CM	EET CHI	09/17/24 19:26
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		1	786499	H7CM	EET CHI	09/18/24 00:02
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/17/24 23:58
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:28
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:54

Client Sample ID: SB22 (10-12.5)

Lab Sample ID: 500-256054-12

Date Collected: 08/30/24 14:22

Matrix: Solid

Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 17:01
Total/NA	Analysis	Moisture		1	785955	ER	EET CHI	09/13/24 09:58

Client Sample ID: SB22 (10-12.5)

Lab Sample ID: 500-256054-12

Date Collected: 08/30/24 14:22

Matrix: Solid

Date Received: 09/03/24 11:50

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784327		EET CHI	08/30/24 14:22
Total/NA	Analysis	8260D		1	785244	W1T	EET CHI	09/10/24 14:48
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		1	786139	H7CM	EET CHI	09/16/24 18:46
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		1	786422	H7CM	EET CHI	09/17/24 15:33
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		1	786499	H7CM	EET CHI	09/18/24 00:17
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/18/24 00:02
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:30
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:55

Client Sample ID: SB23 (0-3)
Lab Sample ID: 500-256054-13

Date Collected: 08/30/24 15:09
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 17:03
Total/NA	Analysis	Moisture		1	785955	ER	EET CHI	09/13/24 09:58

Client Sample ID: SB23 (0-3)
Lab Sample ID: 500-256054-13

Date Collected: 08/30/24 15:09
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784327		EET CHI	08/30/24 15:09
Total/NA	Analysis	8260D		1	785244	W1T	EET CHI	09/10/24 15:13
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		1	786139	H7CM	EET CHI	09/16/24 19:10
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		1	786422	H7CM	EET CHI	09/17/24 16:31
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		1	786499	H7CM	EET CHI	09/18/24 00:32
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/18/24 00:07
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:32
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:57

Client Sample ID: SB23 (5-7.5)
Lab Sample ID: 500-256054-14

Date Collected: 08/30/24 15:17
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784832	ST	EET CHI	09/05/24 17:06
Total/NA	Analysis	Moisture		1	785955	ER	EET CHI	09/13/24 09:58

Client Sample ID: SB23 (5-7.5)
Lab Sample ID: 500-256054-14

Date Collected: 08/30/24 15:17
Matrix: Solid
Date Received: 09/03/24 11:50
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784327		EET CHI	08/30/24 15:17
Total/NA	Analysis	8260D		1	785244	W1T	EET CHI	09/10/24 15:38
Total/NA	Prep	3546			785869	OP	EET CHI	09/13/24 07:16
Total/NA	Analysis	8270E		1	786139	H7CM	EET CHI	09/16/24 19:35
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		1	786579	H7CM	EET CHI	09/18/24 18:06
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8081B		5	786579	H7CM	EET CHI	09/18/24 18:18

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256054-1

Client Sample ID: SB23 (5-7.5)

Date Collected: 08/30/24 15:17
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-14

Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			785837	SV	EET CHI	09/12/24 17:29 - 09/13/24 00:21 [1]
Total/NA	Analysis	8082A		1	786499	H7CM	EET CHI	09/18/24 00:47
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/18/24 00:11
Total/NA	Prep	3050B			786289	S1Z	EET CHI	09/16/24 14:54 - 09/16/24 19:54 [1]
Total/NA	Analysis	6010D		5	786677	SJ	EET CHI	09/18/24 12:42
Total/NA	Prep	7471B			786643	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:33
Total/NA	Prep	9010C			784292	AC	EET CHI	09/03/24 16:00 - 09/03/24 16:30 [1]
Total/NA	Analysis	9012B		1	784511	AC	EET CHI	09/04/24 11:59

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	10-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	09-09-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record 720772

eurofins | Environment Testing America

Address _____

Regulatory Program: ☑ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: [illegible]	Site Contact	Date
Company Name: PIONEER	Tel/Email: [illegible]	Lab Contact	Carrier
Address	Analysis Turnaround Time		COC No: 1 of 2 COCs
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS		Sampler
Phone	TAT if different from Below _____		For Lab Use Only
Fax	☒ 2 weeks		Walk-in Client
Project Name: 8080 S Lake Shore Dr	☐ 1 week		Lab Sampling
Site	☐ 2 days		Job / SDG No: 500-256054
PO # 24-0124-103	☐ 1 day		

500-256054 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL	PH	Sample Specific Notes
1 SB17 (0-3)	8/30/24	908	G	SO	4			X	X	
2 SB17 (5-7.5)		918								
3 SB18 (0-3)		1004								
4 SB18 (7.5-10)		1020								
5 SB19 (0-3)		1108								
6 SB19 (5-7.5)		1121								
7 SB20 (0-3)		1209								
8 SB20 (3-5)		1214								
9 SB21 (0-3)		100								
10 SB21 (12.5-15)		129								
11 SB22 (0-3)		204								
12 SB22 (10-12.5)		220								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification.
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: STIRS IN FREEZER 8/30 5:07 pm

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 1.9 Corr'd 1.8 | Therm ID No _____

Relinquished by	Company: PIONEER	Date/Time: 9/3/24	Received by	Company: EEA	Date/Time: 9/3/24 1000
Relinquished by	Company: EEA 9/3/24	Date/Time: 1150	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: EEA	Date/Time: 9/3/24 1150

Chain of Custody Record 720431

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager.	Site Contact	Date:	COC No
Company Name: PIONEER	Tel/Email:	Lab Contact	Carrier:	2 of 2 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax: SA Pg 1	☒ 2 weeks			Lab Sampling
Project Name	☐ 1 week			
Site: 8080 S Lake Stone	☐ 2 days			Job / SDG No
P O #	☐ 1 day			500-256054

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL	PH	Sample Specific Notes
13	SB23 (0-3)	8/30/24	309	G	SO	4			X	X	
14	SB23 (5-7.5)	↓	317	↓	↓	2			X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pioneer	9/3/24	[signature]	EETA	9/3/24 1000
[signature]	EETA 9/3/24	1150			
			Received in Laboratory by: [signature]	EETA	9/3/24 1150

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192230 1
Client Contact: Shipping/Receiving	Phone:	E-Mai: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256054-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 9/16/2024			Preservation Codes.
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Emai	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

E186

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oi BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB21 (12.5-15) (500-256054-10)	8/30/24	13:29 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin isted above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Daniel Kusumoto	Date/Time: 9/4/24 16 00	Company: EET	Received by: MALISSA LOAR	Date/Time: 9-5-24 9:50	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:		

Ver: 05/06/2024
3/11/2025 (Rev. 2)

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :**
Barberton Facility

Client EUR Chicago Site Name _____ Cooler unpacked by: MALISSA LOAR

Cooler Received on 9-5-24 Opened on 9-5-24

FedEx. 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 22 (CF 0.1 °C) Observed Cooler Temp 3.9 °C Corrected Cooler Temp 3.8 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
   - -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   - -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   - -Were tamper/custody seals intact and uncompromised? Yes No NA
3 Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5 Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7 Did all bottles arrive in good condition (Unbroken)? Yes No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?
10 Were correct bottle(s) used for the test(s) indicated? Yes No
11 Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
   If yes, Questions 13-17 have been checked at the originating laboratory
13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC442471
14 Were VOAs on the COC? Yes No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this. Yes No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17 Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

_____

_____

_____

_____

19 SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved: _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :**
Barberton Facility

Client EUR Chicago Site Name _____ Cooler unpacked by: MALYSSA LOAR

Cooler Received on 9-5-24 Opened on 9-5-24

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 22 (CF 0.1 °C) Observed Cooler Temp. 3.9 °C Corrected Cooler Temp. 3.8 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
   - -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   - -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   - -Were tamper/custody seals intact and uncompromised? Yes No NA
3 Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5 Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7 Did all bottles arrive in good condition (Unbroken)? Yes No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
10 Were correct bottle(s) used for the test(s) indicated? Yes No
11 Sufficient quantity received to perform indicated analyses? Yes No
12 Are these work share samples and all listed on the COC? Yes No
   If yes, Questions 13-17 have been checked at the originating laboratory
13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC442471
14. Were VOAs on the COC? Yes No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17 Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

_____

_____

_____

_____

19 SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193728.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256054-2
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/17/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

EOS4

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M (MOD) a) 1 element, Including prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB18 (0-3) (500-256054-3)	8/30/24	10:04 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hernandez	10/11/24 1600		KATHARINE MARTIN	10/12/24 920	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :_____
Barberton Facility

Client Eurofins - Chicago Site Name_____ Cooler unpacked by: ICM

Cooler Received on 10/12/24 Opened on 10/12/24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time_____ Storage Location_____

Eurofins Cooler # EC Foam Box Client Cooler Box Other_____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other_____

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt [X] See Multiple Cooler Form

IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?	(Y)	N
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
17 Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved: _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

Login # : _____

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: _____	2.9	3.0	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE 11OCT24
ACTWGT: 68.00 LB MAN
CAD: 0875858/CAFE3854

BILL SENDER

Part # 159469-434 MTW EXP 02/25

TO SAMPLE RECEIVING
EUROFINS—CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396
REF: 257701 255851 917 256054 095 166 275

FedEx Express

2 of 4
MPS# 0263 7051 7621 1593
Mstr# 7051 7621 1582 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CAKA

44203
OH-US CLE

RT 448 1 12:00
FZ 447 1593 10:12

492

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256054-1

Login Number: 256054
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256054-1

Login Number: 256054
List Number: 2
Creator: Loar, Malissa

List Source: Eurofins Cleveland
List Creation: 09/05/24 11:36 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 8:20:50 AM Revision 2

JOB DESCRIPTION

8080 S Lakeshore Dr (24-0124-103)

JOB NUMBER

500-256095-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 8:20:50 AM
Revision 2

Authorized for release by
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Job ID: 500-256095-1 — Eurofins Chicago

Job Narrative
500-256095-1

Revision
The report being provided is a revision of the original report sent on 9/20/2024. The report (revision 1) is being revised due to: The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/4/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

GC/MS VOA
Method 8260D: The following samples were diluted due to the abundance of non-target analytes: SB27 (5-7.5) (500-256095-8) and SB28 (0-3) (500-256095-9). Elevated reporting limits (RLs) are provided.

Method 8260D: Elevated reporting limits are provided for the following sample(s). All low level vials yielded unusable data. A 1/50 dilution had to be performed from the methanol vial.SB30 (12.5-15) (500-256095-14)

Method 8260D: Surrogate recovery for the following sample was outside of acceptance limits: SB29 (0-3) (500-256095-11). There was insufficient sample to perform a re-run and maintain low reporting limits; therefore, the data have been reported.

Method 8260D: Surrogate recovery for the following sample was outside control limits: SB27 (0-3) (500-256095-7). Evidence of matrix interference is present (high sample pH); therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-786129 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 500-786129 recovered above the upper control limit for 2-Nitroaniline, bis(chloroisopropyl) ether and N-Nitrosodi-n-propylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-786128 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-786128 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-785981 and analytical batch 500-786128 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB24 (0-3) (500-256095-1), SB24 (7.5-10) (500-256095-2), SB25 (0-3) (500-256095-3), SB25 (3-5) (500-256095-4), SB29 (7.5-10) (500-256095-12) and SB30 (0-3) (500-256095-13). Elevated reporting limits (RLs) are provided.

Method 8270E: The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB25 (3-5) (500-256095-4), SB27 (0-3) (500-256095-7), SB27 (5-7.5) (500-256095-8) and SB30 (12.5-15) (500-256095-14). These results have been reported and qualified.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: SB25 (3-5) (500-256095-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Job ID: 500-256095-1 (Continued) Eurofins Chicago

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following method blank(MB) was outside control limits: SB29 (7.5-10) (500-256095-12) and (MB 500-785892/1-A). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: (500-256095-D-1-E MS). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB24 (0-3) (500-256095-1), SB24 (7.5-10) (500-256095-2), SB25 (0-3) (500-256095-3), SB25 (3-5) (500-256095-4), SB26 (0-3) (500-256095-5), SB26 (7.5-10) (500-256095-6), SB27 (0-3) (500-256095-7), SB27 (5-7.5) (500-256095-8), SB28 (0-3) (500-256095-9), SB28 (10-12.5) (500-256095-10), SB29 (0-3) (500-256095-11), SB29 (7.5-10) (500-256095-12), SB30 (0-3) (500-256095-13), SB30 (12.5-15) (500-256095-14), (500-256095-D-1-C MS) and (500-256095-D-1-D MSD).

Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB24 (0-3) (500-256095-1), SB24 (7.5-10) (500-256095-2), SB25 (0-3) (500-256095-3), SB25 (3-5) (500-256095-4), SB29 (0-3) (500-256095-11), SB29 (7.5-10) (500-256095-12), SB30 (0-3) (500-256095-13), (500-256095-D-1-C MS) and (500-256095-D-1-D MSD). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB28 (0-3) (500-256095-9). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Surrogate recovery for the following sample was outside control limits: SB24 (7.5-10) (500-256095-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples were outside control limits: SB24 (0-3) (500-256095-1), SB25 (0-3) (500-256095-3) and (500-256095-D-1-F MSD). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: SB25 (0-3) (500-256095-3). Elevated reporting limits (RLs) are provided.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1254 for the following sample: SB24 (0-3) (500-256095-1). internal standard outside of control limits on column-0; therefore; the higher value on column-1 has been reported and qualified.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-785892 and analytical batch 500-786836 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB24 (0-3)
Lab Sample ID: 500-256095-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0070		0.0054	0.0024	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.031		0.022	0.0091	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.0039		0.0022	0.00068	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0050	J	0.0054	0.0010	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0030		0.0022	0.00044	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0012	J	0.0043	0.00074	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.36		0.071	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.091		0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.74		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.9		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	2.0		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	2.8		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.4		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.0		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	2.0		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.37		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	4.2		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.35		0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.5		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.47		0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	3.3		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	3.7		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.18		0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
3 & 4 Methylphenol	0.097	J	0.36	0.052	mg/Kg	2	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.43		0.36	0.28	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.37		0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.25	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Di-n-butyl phthalate	0.074	J	0.36	0.023	mg/Kg	2	☼	8270E	Total/NA
Phenol	0.082	J	0.36	0.031	mg/Kg	2	☼	8270E	Total/NA
PCB-1254	0.98		0.086		mg/Kg	5	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.98		0.086		mg/Kg	5	☼	8082A	Total/NA
Aluminum	16000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.0		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	120		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.2		0.41		mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.5		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	130000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	50		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.4		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	38		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	34000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	120		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	29000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	4300		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	17		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1300		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.8		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	580		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	15		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	47		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	230		2.1		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB24 (0-3) (Continued)
Lab Sample ID: 500-256095-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.53	F2	0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.1		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	11.01		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB24 (7.5-10)
Lab Sample ID: 500-256095-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0028	J	0.0064	0.0028	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.014	J	0.026	0.011	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.00087	J	0.0026	0.00081	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0056	J	0.0064	0.0012	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0018	J	0.0026	0.00052	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0011	J	0.0052	0.00088	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.040	J	0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.084		0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.18		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.69		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.90		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.2		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.60		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.55		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.82		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.16		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	1.2		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.032	J	0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.67		0.071	0.070	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.046	J	0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.64		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	1.1		0.071	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.072	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.061	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.046	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	11000		20		mg/Kg	1	☼	6010D	Total/NA
Barium	180		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.1		2.0		mg/Kg	5	☼	6010D	Total/NA
Cadmium	2.4		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	83000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	71		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.5		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	120		5.0		mg/Kg	5	☼	6010D	Total/NA
Iron	83000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	840		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	18000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	1900		1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	35		5.0		mg/Kg	5	☼	6010D	Total/NA
Potassium	950		50		mg/Kg	1	☼	6010D	Total/NA
Sodium	530		500		mg/Kg	5	☼	6010D	Total/NA
Thallium	12		5.0		mg/Kg	5	☼	6010D	Total/NA
Vanadium	31		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	440		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.59		0.017		mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB24 (7.5-10) (Continued) — Lab Sample ID: 500-256095-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	2.5		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	9.47		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB25 (0-3) — Lab Sample ID: 500-256095-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0038	J	0.0048	0.0021	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.012	J	0.019	0.0081	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0022	J	0.0048	0.00089	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00046	J	0.0019	0.00039	mg/Kg	1	☼	8260D	Total/NA
Trichloroethene	0.0014	J	0.0019	0.00053	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.24		0.066	0.013	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.030	J	0.066	0.011	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.65		0.066	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	2.2		0.066	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	2.1		0.066	0.064	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	2.9		0.066	0.063	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.3		0.066	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.1		0.066	0.025	mg/Kg	2	☼	8270E	Total/NA
Chrysene	2.3		0.066	0.017	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.36		0.066	0.066	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	4.8		0.066	0.015	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.19		0.066	0.020	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.4		0.066	0.064	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.070		0.066	0.012	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	2.7		0.066	0.014	mg/Kg	2	☼	8270E	Total/NA
Pyrene	4.4		0.066	0.018	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.036	J	0.13	0.013	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.41		0.33	0.026	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.12	J	0.33	0.024	mg/Kg	2	☼	8270E	Total/NA
Aluminum	11000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.1		5.2		mg/Kg	5	☼	6010D	Total/NA
Barium	170		1.0		mg/Kg	1	☼	6010D	Total/NA
Cadmium	2.0		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	110000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	77		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.1		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	110		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	85000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	220		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	28000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	4300		5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	49		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	700		52		mg/Kg	1	☼	6010D	Total/NA
Thallium	18		5.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	41		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	540		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.23		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	7.1		1.2		mg/Kg	5	☼	9012B	Total/NA
pH	10.63		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB25 (3-5) — Lab Sample ID: 500-256095-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0033	J	0.0056	0.0025	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.013	J	0.022	0.0094	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0024	J	0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Trichloroethene	0.0018	J	0.0022	0.00061	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	1.0		0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.13		0.069	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	3.5		0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	10		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	9.3		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	13		0.069	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	5.3		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	4.9		0.069	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	9.9		0.069	0.018	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	1.3		0.069	0.069	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.84		0.069	0.020	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	6.0		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.15		0.069	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	13		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	19		0.069	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.081	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	2.2		0.35	0.027	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.46		0.35	0.025	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene - DL	28		1.7	0.40	mg/Kg	50	☼	8270E	Total/NA
Aluminum	12000		19		mg/Kg	1	☼	6010D	Total/NA
Barium	140		0.94		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.9		1.9		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.4		0.94		mg/Kg	5	☼	6010D	Total/NA
Calcium	110000		94		mg/Kg	5	☼	6010D	Total/NA
Chromium	38		0.94		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.8		2.4		mg/Kg	5	☼	6010D	Total/NA
Copper	160		4.7		mg/Kg	5	☼	6010D	Total/NA
Iron	67000		94		mg/Kg	5	☼	6010D	Total/NA
Lead	190		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	19000		9.4		mg/Kg	1	☼	6010D	Total/NA
Manganese	4000		4.7		mg/Kg	5	☼	6010D	Total/NA
Nickel	26		4.7		mg/Kg	5	☼	6010D	Total/NA
Potassium	730		47		mg/Kg	1	☼	6010D	Total/NA
Sodium	480		470		mg/Kg	5	☼	6010D	Total/NA
Thallium	17		4.7		mg/Kg	5	☼	6010D	Total/NA
Vanadium	25		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	250		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.47		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.7		1.2		mg/Kg	5	☼	9012B	Total/NA
pH	10.57		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB26 (0-3) — Lab Sample ID: 500-256095-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.013	J	0.036	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.091		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.087		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: SB26 (0-3) (Continued)
Lab Sample ID: 500-256095-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.16		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.075		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.058		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.10		0.036	0.0097	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.13		0.036	0.0085	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.077		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.049		0.036	0.0080	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.13		0.036	0.010	mg/Kg	1	☼	8270E	Total/NA
Aluminum	13000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	33		5.1		mg/Kg	5	☼	6010D	Total/NA
Barium	230		1.0		mg/Kg	1	☼	6010D	Total/NA
Calcium	34000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	22		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	8.4		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	53		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	78000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	42		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	14000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	42000		10		mg/Kg	10	☼	6010D	Total/NA
Nickel	15		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	1100		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	20		10		mg/Kg	10	☼	6010D	Total/NA
Thallium	210		10		mg/Kg	10	☼	6010D	Total/NA
Vanadium	61		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	58		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.12		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.0		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.10		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB26 (7.5-10)
Lab Sample ID: 500-256095-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00093	J	0.0023	0.00071	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0042	J	0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Ethylbenzene	0.0021	J	0.0023	0.0012	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0019	J	0.0023	0.00045	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0029	J	0.0045	0.00077	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.023	J	0.036	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.035	J	0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.022	J	0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.023	J	0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.027	J	0.036	0.0085	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.017	J	0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.024	J	0.036	0.010	mg/Kg	1	☼	8270E	Total/NA
Aluminum	7300		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.2		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	99		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.88		0.42		mg/Kg	1	☼	6010D	Total/NA
Calcium	31000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	31		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.3		2.7		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB26 (7.5-10) (Continued)
Lab Sample ID: 500-256095-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	11		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	43000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	6.2		0.53		mg/Kg	1	☼	6010D	Total/NA
Magnesium	18000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	27000		11		mg/Kg	10	☼	6010D	Total/NA
Nickel	5.7		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	360		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	9.1		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	220		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	140		11		mg/Kg	10	☼	6010D	Total/NA
Vanadium	95		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	10		2.1		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	0.91		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	9.44		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB27 (0-3)
Lab Sample ID: 500-256095-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021	J	0.024	0.010	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0020	J	0.0060	0.0011	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.012	J	0.056	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.035	J	0.056	0.012	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.027	J	0.056	0.012	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.034	J	0.056	0.015	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.053	J	0.056	0.013	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.024	J	0.056	0.010	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.096		0.056	0.012	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.053	J	0.056	0.015	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.044	J	0.11	0.011	mg/Kg	1	☼	8270E	Total/NA
Aluminum	16000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.4		0.99		mg/Kg	1	☼	6010D	Total/NA
Barium	220		0.99		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.7		0.40		mg/Kg	1	☼	6010D	Total/NA
Calcium	130000		99		mg/Kg	5	☼	6010D	Total/NA
Chromium	6.4		0.99		mg/Kg	1	☼	6010D	Total/NA
Copper	4.8		0.99		mg/Kg	1	☼	6010D	Total/NA
Iron	7000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	9.1		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	19000		9.9		mg/Kg	1	☼	6010D	Total/NA
Manganese	1100		0.99		mg/Kg	1	☼	6010D	Total/NA
Nickel	3.9		0.99		mg/Kg	1	☼	6010D	Total/NA
Potassium	650		50		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.3		0.99		mg/Kg	1	☼	6010D	Total/NA
Sodium	510		99		mg/Kg	1	☼	6010D	Total/NA
Thallium	3.3		0.99		mg/Kg	1	☼	6010D	Total/NA
Vanadium	11		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	23		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.060		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.32		0.27		mg/Kg	1	☼	9012B	Total/NA
pH	11.70		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB27 (5-7.5) — Lab Sample ID: 500-256095-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.028		0.018	0.013	mg/Kg	50	☼	8260D	Total/NA
Toluene	0.028		0.018	0.016	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.047		0.037	0.017	mg/Kg	50	☼	8260D	Total/NA
Benzo[a]anthracene	0.032	J	0.061	0.013	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.061	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.046	J	0.061	0.016	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.052	J	0.061	0.014	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.024	J	0.061	0.011	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.19		0.061	0.013	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.037	J	0.061	0.017	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.062	J	0.12	0.012	mg/Kg	1	☼	8270E	Total/NA
Gasoline Range Organics (C6-C9)	33		3.0		mg/Kg	100	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	22		10		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	25		21		mg/Kg	1	☼	8015D	Total/NA
Aluminum	10000		25		mg/Kg	1	☼	6010D	Total/NA
Barium	180	F1	6.2		mg/Kg	5	☼	6010D	Total/NA
Beryllium	4.2	F1	2.5		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.3		1.2		mg/Kg	5	☼	6010D	Total/NA
Calcium	36000	F2	25		mg/Kg	1	☼	6010D	Total/NA
Chromium	15	F1 F2	1.2		mg/Kg	1	☼	6010D	Total/NA
Cobalt	8.6		0.62		mg/Kg	1	☼	6010D	Total/NA
Copper	19		6.2		mg/Kg	5	☼	6010D	Total/NA
Iron	59000		25		mg/Kg	1	☼	6010D	Total/NA
Lead	39	F1 F2	3.1		mg/Kg	5	☼	6010D	Total/NA
Magnesium	2000	F1 F2	12		mg/Kg	1	☼	6010D	Total/NA
Manganese	3700	F2	6.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	6.7		6.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	1300	F1	62		mg/Kg	1	☼	6010D	Total/NA
Sodium	670	F1	120		mg/Kg	1	☼	6010D	Total/NA
Thallium	23	F1 F2	6.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	37	F1 F2	3.1		mg/Kg	5	☼	6010D	Total/NA
Zinc	140	F1 F2	2.5		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.033		0.020		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.9		0.29		mg/Kg	1	☼	9012B	Total/NA
pH	8.59		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB28 (0-3) — Lab Sample ID: 500-256095-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.042		0.015	0.010	mg/Kg	50	☼	8260D	Total/NA
Toluene	0.040		0.015	0.013	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.090		0.030	0.014	mg/Kg	50	☼	8260D	Total/NA
Acenaphthene	0.013	J	0.054	0.011	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.017	J	0.054	0.0092	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.041	J	0.054	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.18		0.054	0.012	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.17		0.054	0.052	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.30		0.054	0.052	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.12		0.054	0.012	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.11		0.054	0.021	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.22		0.054	0.014	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB28 (0-3) (Continued)
Lab Sample ID: 500-256095-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.34		0.054	0.013	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.054	0.053	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.025	J	0.054	0.0098	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.30		0.054	0.012	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.34		0.054	0.015	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.035	J	0.11	0.011	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.024	J	0.27	0.019	mg/Kg	1	☼	8270E	Total/NA
Aluminum	8200		21		mg/Kg	1	☼	6010D	Total/NA
Barium	340		5.4		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.6		2.2		mg/Kg	5	☼	6010D	Total/NA
Calcium	23000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	74		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	12		0.53		mg/Kg	1	☼	6010D	Total/NA
Copper	39		5.4		mg/Kg	5	☼	6010D	Total/NA
Iron	250000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	44		2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	2500		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	5700		5.4		mg/Kg	5	☼	6010D	Total/NA
Nickel	21		5.4		mg/Kg	5	☼	6010D	Total/NA
Potassium	110		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	6.6		5.4		mg/Kg	5	☼	6010D	Total/NA
Sodium	180		110		mg/Kg	1	☼	6010D	Total/NA
Vanadium	46		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	100		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.036		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.7		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	9.04		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB28 (10-12.5)
Lab Sample ID: 500-256095-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0045	J	0.0049	0.0021	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.011	J	0.020	0.0082	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.0067		0.0020	0.00061	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0014	J	0.0049	0.00090	mg/Kg	1	☼	8260D	Total/NA
Ethylbenzene	0.0037		0.0020	0.0010	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0071		0.0020	0.00039	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0031	J	0.0039	0.00067	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.012	J	0.039	0.0081	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.013	J	0.039	0.0081	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.039	0.0086	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.056		0.039	0.0092	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.025	J	0.039	0.0072	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.13		0.039	0.0086	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.048		0.039	0.011	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.021	J	0.080	0.0080	mg/Kg	1	☼	8270E	Total/NA
Aluminum	15000		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.6		5.4		mg/Kg	5	☼	6010D	Total/NA
Barium	290		5.4		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.7		2.3		mg/Kg	5	☼	6010D	Total/NA
Calcium	100000		110		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB28 (10-12.5) (Continued) — Lab Sample ID: 500-256095-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	18		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.1		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	18		5.4		mg/Kg	5	☼	6010D	Total/NA
Iron	97000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	13		2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	3800		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	4500		1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	8.1		5.4		mg/Kg	5	☼	6010D	Total/NA
Potassium	1900		54		mg/Kg	1	☼	6010D	Total/NA
Selenium	7.3		5.7		mg/Kg	5	☼	6010D	Total/NA
Sodium	770		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	31		5.4		mg/Kg	5	☼	6010D	Total/NA
Vanadium	44		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	48		2.2		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	3.1		0.28		mg/Kg	1	☼	9012B	Total/NA
pH	8.61		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB29 (0-3) — Lab Sample ID: 500-256095-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.022		0.0034	0.0014	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0029	J	0.0084	0.0016	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.019	J	0.038	0.0065	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.050		0.038	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.21		0.038	0.0081	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.13		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.25		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.093		0.038	0.0083	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.079		0.038	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.28		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.38		0.038	0.0089	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.084		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.061		0.038	0.0069	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	1.4		0.038	0.0083	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.32		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.19		0.077	0.0077	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.032	J	0.19	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.071	J	0.19	0.014	mg/Kg	1	☼	8270E	Total/NA
N-Nitrosodiphenylamine	0.071	J	0.19	0.023	mg/Kg	1	☼	8270E	Total/NA
Aluminum	26000		23		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.2		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	340		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.6		0.46		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.34		0.23		mg/Kg	1	☼	6010D	Total/NA
Calcium	180000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	28		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.3		0.57		mg/Kg	1	☼	6010D	Total/NA
Copper	12		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	44000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	72		0.57		mg/Kg	1	☼	6010D	Total/NA
Magnesium	9400		11		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB29 (0-3) (Continued) — Lab Sample ID: 500-256095-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	7600		5.3		mg/Kg	5	☼	6010D	Total/NA
Nickel	50		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	2600		57		mg/Kg	1	☼	6010D	Total/NA
Selenium	5.0		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	930		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	38		5.7		mg/Kg	5	☼	6010D	Total/NA
Vanadium	23		0.57		mg/Kg	1	☼	6010D	Total/NA
Zinc	120		2.3		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.030		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	46		5.2		mg/Kg	20	☼	9012B	Total/NA
pH	9.61		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB29 (7.5-10) — Lab Sample ID: 500-256095-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.0011	J	0.0022	0.00090	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.016	J	0.074	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.059	J	0.074	0.013	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.099		0.074	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.43		0.074	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.29		0.074	0.072	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.55		0.074	0.071	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.21		0.074	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.19		0.074	0.028	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.49		0.074	0.020	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.71		0.074	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.030	J	0.074	0.022	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.22		0.074	0.072	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.050	J	0.074	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.81		0.074	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.60		0.074	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.12	J	0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.039	J	0.37	0.029	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.043	J	0.37	0.026	mg/Kg	2	☼	8270E	Total/NA
Aluminum	26000		23		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.0		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	340		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.7		0.45		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.39		0.23		mg/Kg	1	☼	6010D	Total/NA
Calcium	190000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	160		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.8		0.57		mg/Kg	1	☼	6010D	Total/NA
Copper	25		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	36000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	110		0.57		mg/Kg	1	☼	6010D	Total/NA
Magnesium	7800		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	5200		5.6		mg/Kg	5	☼	6010D	Total/NA
Nickel	190		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	2400		57		mg/Kg	1	☼	6010D	Total/NA
Selenium	4.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	820		110		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB29 (7.5-10) (Continued) — Lab Sample ID: 500-256095-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	31		5.7		mg/Kg	5	☼	6010D	Total/NA
Vanadium	18		0.57		mg/Kg	1	☼	6010D	Total/NA
Zinc	110		2.3		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	52		5.2		mg/Kg	20	☼	9012B	Total/NA
pH	9.72		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB30 (0-3) — Lab Sample ID: 500-256095-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.13		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.36		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.69		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.61		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.93		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.37		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.33		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.67		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.097		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	1.7		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.14		0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.44		0.071	0.070	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.038	J	0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	1.6		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	1.4		0.071	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.14		0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.061	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.088	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	20000		20		mg/Kg	1	☼	6010D	Total/NA
Barium	380		5.0		mg/Kg	5	☼	6010D	Total/NA
Beryllium	4.4		1.9		mg/Kg	5	☼	6010D	Total/NA
Calcium	190000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	360		5.0		mg/Kg	5	☼	6010D	Total/NA
Cobalt	5.3		0.50		mg/Kg	1	☼	6010D	Total/NA
Copper	29		5.0		mg/Kg	5	☼	6010D	Total/NA
Iron	70000		95		mg/Kg	5	☼	6010D	Total/NA
Lead	40		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	10000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	14000		19		mg/Kg	20	☼	6010D	Total/NA
Nickel	26		5.0		mg/Kg	5	☼	6010D	Total/NA
Potassium	1800		50		mg/Kg	1	☼	6010D	Total/NA
Selenium	6.8		4.8		mg/Kg	5	☼	6010D	Total/NA
Sodium	690		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	210		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	88		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.043		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	28	F2	5.3		mg/Kg	20	☼	9012B	Total/NA
pH	8.79		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB30 (12.5-15) — Lab Sample ID: 500-256095-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.073	J	0.16	0.038	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB30 (12.5-15) (Continued)
Lab Sample ID: 500-256095-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.050	J	0.16	0.036	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.059	J	0.16	0.045	mg/Kg	1	☼	8270E	Total/NA
beta-BHC	0.18		0.013	0.011	mg/Kg	5	☼	8081B	Total/NA
Aluminum	37000		30		mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.5		1.5		mg/Kg	1	☼	6010D	Total/NA
Barium	350		1.5		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.5		0.60		mg/Kg	1	☼	6010D	Total/NA
Calcium	250000		150		mg/Kg	5	☼	6010D	Total/NA
Chromium	6.3		1.5		mg/Kg	1	☼	6010D	Total/NA
Cobalt	1.9		0.75		mg/Kg	1	☼	6010D	Total/NA
Iron	6800		160		mg/Kg	5	☼	6010D	Total/NA
Magnesium	5300		15		mg/Kg	1	☼	6010D	Total/NA
Manganese	5600		7.9		mg/Kg	5	☼	6010D	Total/NA
Potassium	2100		75		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.7		1.5		mg/Kg	1	☼	6010D	Total/NA
Sodium	810		150		mg/Kg	1	☼	6010D	Total/NA
Thallium	21		7.5		mg/Kg	5	☼	6010D	Total/NA
Vanadium	11		0.75		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	6.0		0.39		mg/Kg	1	☼	9012B	Total/NA
Sulfide	4200		250		mg/Kg	1	☼	9034	Total/NA
pH	11.36		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256095-1	SB24 (0-3)	Solid	09/03/24 08:30	09/04/24 12:15
500-256095-2	SB24 (7.5-10)	Solid	09/03/24 08:40	09/04/24 12:15
500-256095-3	SB25 (0-3)	Solid	09/03/24 09:11	09/04/24 12:15
500-256095-4	SB25 (3-5)	Solid	09/03/24 09:16	09/04/24 12:15
500-256095-5	SB26 (0-3)	Solid	09/03/24 09:58	09/04/24 12:15
500-256095-6	SB26 (7.5-10)	Solid	09/03/24 10:12	09/04/24 12:15
500-256095-7	SB27 (0-3)	Solid	09/03/24 10:42	09/04/24 12:15
500-256095-8	SB27 (5-7.5)	Solid	09/03/24 10:57	09/04/24 12:15
500-256095-9	SB28 (0-3)	Solid	09/03/24 12:08	09/04/24 12:15
500-256095-10	SB28 (10-12.5)	Solid	09/03/24 12:30	09/04/24 12:15
500-256095-11	SB29 (0-3)	Solid	09/03/24 13:18	09/04/24 12:15
500-256095-12	SB29 (7.5-10)	Solid	09/03/24 13:30	09/04/24 12:15
500-256095-13	SB30 (0-3)	Solid	09/03/24 14:50	09/04/24 12:15
500-256095-14	SB30 (12.5-15)	Solid	09/03/24 15:09	09/04/24 12:15

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB24 (0-3)
Lab Sample ID: 500-256095-1
Date Collected: 09/03/24 08:30
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 92.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00088		0.0022	0.00088	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
1,1-Dichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
1,1-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
2-Butanone (MEK)	**0.0070**		0.0054	0.0024	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0054	0.0039	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Acetone	**0.031**		0.022	0.0091	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Benzene	**0.0039**		0.0022	0.00068	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Bromodichloromethane	<0.00070		0.0022	0.00070	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Bromomethane	<0.0027		0.0054	0.0027	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Carbon disulfide	**0.0050**	**J**	0.0054	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Carbon tetrachloride	<0.00074		0.0022	0.00074	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Chlorobenzene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Chloromethane	<0.0011		0.0054	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
cis-1,2-Dichloroethene	<0.00088		0.0022	0.00088	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Methyl tert-butyl ether	<0.00070		0.0022	0.00070	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Styrene	<0.00098		0.0022	0.00098	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Toluene	**0.0030**		0.0022	0.00044	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Xylenes, Total	**0.0012**	**J**	0.0043	0.00074	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
trans-1,2-Dichloroethene	<0.00082		0.0022	0.00082	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Trichloroethene	<0.00059		0.0022	0.00059	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1
Vinyl chloride	<0.00089		0.0022	0.00089	mg/Kg	☼	09/04/24 18:07	09/11/24 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*09/04/24 18:07*	*09/11/24 15:46*	*1*
4-Bromofluorobenzene (Surr)	*118*		*75 - 131*	*09/04/24 18:07*	*09/11/24 15:46*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*09/04/24 18:07*	*09/11/24 15:46*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*	*09/04/24 18:07*	*09/11/24 15:46*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.36**		0.071	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Acenaphthylene	**0.091**		0.071	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Anthracene	**0.74**		0.071	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Benzo[a]anthracene	**1.9**		0.071	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Benzo[a]pyrene	**2.0**		0.071	0.069	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Benzo[b]fluoranthene	**2.8**		0.071	0.068	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Benzo[g,h,i]perylene	**1.4**		0.071	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2

Client Sample ID: SB24 (0-3)
Lab Sample ID: 500-256095-1
Date Collected: 09/03/24 08:30
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 92.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.0**		0.071	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Chrysene	**2.0**		0.071	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Dibenz(a,h)anthracene	**0.37**		0.071	0.071	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Fluoranthene	**4.2**		0.071	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Fluorene	**0.35**		0.071	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Indeno[1,2,3-cd]pyrene	**1.5**		0.071	0.069	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Naphthalene	**0.47**		0.071	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Phenanthrene	**3.3**		0.071	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Pyrene	**3.7**		0.071	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2-Methylnaphthalene	**0.18**		0.14	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
2-Nitrophenol	<0.048		0.71	0.048	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
3 & 4 Methylphenol	**0.097**	**J**	0.36	0.052	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
3-Nitroaniline	<0.032		0.71	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
4-Chlorophenyl phenyl ether	<0.093		0.36	0.093	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Bis(2-ethylhexyl) phthalate	**0.43**		0.36	0.28	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Butyl benzyl phthalate	<0.035		0.36	0.035	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Carbazole	**0.37**		0.36	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Dibenzofuran	**0.25**	**J**	0.36	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Dimethyl phthalate	<0.015		0.36	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Di-n-butyl phthalate	**0.074**	**J**	0.36	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2

Client Sample ID: SB24 (0-3)
Lab Sample ID: 500-256095-1
Date Collected: 09/03/24 08:30
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 92.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.75		1.4	0.75	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2
Phenol	**0.082**	**J**	0.36	0.031	mg/Kg	☼	09/13/24 12:05	09/16/24 15:14	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*72*		*31 - 166*	*09/13/24 12:05*	*09/16/24 15:14*	*2*
Phenol-d5 (Surr)	*77*		*30 - 153*	*09/13/24 12:05*	*09/16/24 15:14*	*2*
Nitrobenzene-d5 (Surr)	*73*		*37 - 147*	*09/13/24 12:05*	*09/16/24 15:14*	*2*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*	*09/13/24 12:05*	*09/16/24 15:14*	*2*
2,4,6-Tribromophenol (Surr)	*34*		*31 - 143*	*09/13/24 12:05*	*09/16/24 15:14*	*2*
Terphenyl-d14 (Surr)	*85*		*42 - 157*	*09/13/24 12:05*	*09/16/24 15:14*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093	F1	0.017	0.0093	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
4,4'-DDE	<0.0089	F1	0.017	0.0089	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
4,4'-DDT	<0.0082	F1	0.017	0.0082	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Aldrin	<0.012	F1 F2	0.017	0.012	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
alpha-BHC	<0.0098	F1	0.017	0.0098	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
alpha-Chlordane	<0.0093	F1	0.017	0.0093	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
beta-BHC	<0.014	F2	0.017	0.014	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
delta-BHC	<0.0083	F1 F2	0.017	0.0083	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Dieldrin	<0.0091	F1 F2	0.017	0.0091	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Endosulfan I	<0.0094	F1 F2	0.017	0.0094	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Endosulfan II	<0.0095	F1	0.017	0.0095	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Endosulfan sulfate	<0.0096	F1	0.017	0.0096	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Endrin	<0.0088	F1	0.017	0.0088	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Endrin aldehyde	<0.0099	F1	0.017	0.0099	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Endrin ketone	<0.0084	F1	0.017	0.0084	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
gamma-BHC (Lindane)	<0.0086	F1 F2	0.017	0.0086	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
gamma-Chlordane	<0.010	F1	0.017	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Heptachlor	<0.0094	F1 F2	0.017	0.0094	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Heptachlor epoxide	<0.0093	F1 F2	0.017	0.0093	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Methoxychlor	<0.011	F1	0.085	0.011	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/13/24 07:40	09/19/24 12:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*678*	*S1+*	*33 - 148*	*09/13/24 07:40*	*09/19/24 12:15*	*10*
Tetrachloro-m-xylene	*78*		*30 - 121*	*09/13/24 07:40*	*09/19/24 12:15*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.086	F2 F1	0.086		mg/Kg	☼	09/13/24 07:40	09/19/24 20:47	5
PCB-1221	<0.086		0.086		mg/Kg	☼	09/13/24 07:40	09/19/24 20:47	5

Client Sample ID: SB24 (0-3)
Lab Sample ID: 500-256095-1
Date Collected: 09/03/24 08:30
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 92.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.086		0.086		mg/Kg	☼	09/13/24 07:40	09/19/24 20:47	5
PCB-1242	<0.086		0.086		mg/Kg	☼	09/13/24 07:40	09/19/24 20:47	5
PCB-1248	<0.086		0.086		mg/Kg	☼	09/13/24 07:40	09/19/24 20:47	5
PCB-1254	**0.98**		0.086		mg/Kg	☼	09/13/24 07:40	09/19/24 20:47	5
PCB-1260	<0.086	F2 F1	0.086		mg/Kg	☼	09/13/24 07:40	09/19/24 20:47	5
Polychlorinated biphenyls, Total	**0.98**		0.086		mg/Kg	☼	09/13/24 07:40	09/19/24 20:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*49 - 129*	*09/13/24 07:40*	*09/19/24 20:47*	*5*
DCB Decachlorobiphenyl	*181*	*S1+*	*37 - 121*	*09/13/24 07:40*	*09/19/24 20:47*	*5*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		21		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Antimony	<2.1		2.1		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Arsenic	**7.0**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Barium	**120**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Beryllium	**3.2**		0.41		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Cadmium	**1.5**		0.21		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Calcium	**130000**		100		mg/Kg	☼	09/16/24 14:56	09/18/24 16:15	5
Chromium	**50**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Cobalt	**4.4**		2.6		mg/Kg	☼	09/16/24 14:56	09/18/24 16:15	5
Copper	**38**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Iron	**34000**		21		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Lead	**120**		2.6		mg/Kg	☼	09/16/24 14:56	09/18/24 16:15	5
Magnesium	**29000**		10		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Manganese	**4300**		5.1		mg/Kg	☼	09/16/24 14:56	09/19/24 13:59	5
Nickel	**17**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Potassium	**1300**		51		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Selenium	**1.8**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Silver	<2.6		2.6		mg/Kg	☼	09/16/24 14:56	09/18/24 16:15	5
Sodium	**580**		100		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1
Thallium	**15**		5.1		mg/Kg	☼	09/16/24 14:56	09/18/24 16:15	5
Vanadium	**47**		2.6		mg/Kg	☼	09/16/24 14:56	09/18/24 16:15	5
Zinc	**230**		2.1		mg/Kg	☼	09/16/24 14:56	09/18/24 01:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.53**	**F2**	0.017		mg/Kg	☼	09/18/24 16:35	09/19/24 07:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.1**		0.25		mg/Kg	☼	09/05/24 10:02	09/10/24 13:22	1
pH (SW846 9045D)	**11.01**		0.20		SU			09/06/24 11:38	1

Client Sample ID: SB24 (7.5-10)
Lab Sample ID: 500-256095-2
Date Collected: 09/03/24 08:40
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 91.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0026	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0026	0.0013	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
1,1,2-Trichloroethane	<0.00097		0.0026	0.00097	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
1,1-Dichloroethane	<0.00097		0.0026	0.00097	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
1,1-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
1,2-Dichloroethane	<0.0017		0.0064	0.0017	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
1,2-Dichloropropane	<0.00067		0.0026	0.00067	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
2-Butanone (MEK)	**0.0028**	**J**	0.0064	0.0028	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
2-Hexanone	<0.0039		0.0064	0.0039	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0064	0.0046	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Acetone	**0.014**	**J**	0.026	0.011	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Benzene	**0.00087**	**J**	0.0026	0.00081	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Bromodichloromethane	<0.00083		0.0026	0.00083	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Bromoform	<0.0015		0.0026	0.0015	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Bromomethane	<0.0032		0.0064	0.0032	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Carbon disulfide	**0.0056**	**J**	0.0064	0.0012	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Carbon tetrachloride	<0.00088		0.0026	0.00088	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Chlorobenzene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Chloroethane	<0.0021		0.0064	0.0021	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Chloroform	<0.0019		0.0026	0.0019	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Chloromethane	<0.0013		0.0064	0.0013	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
cis-1,2-Dichloroethene	<0.0010		0.0026	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
1,3-Dichloropropene, Total	<0.0012		0.0026	0.0012	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Dibromochloromethane	<0.0012		0.0026	0.0012	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Ethylbenzene	<0.0014		0.0026	0.0014	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Methyl tert-butyl ether	<0.00083		0.0026	0.00083	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Methylene Chloride	<0.0028		0.0064	0.0028	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Styrene	<0.0012		0.0026	0.0012	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Tetrachloroethene	<0.0014		0.0026	0.0014	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Toluene	**0.0018**	**J**	0.0026	0.00052	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Xylenes, Total	**0.0011**	**J**	0.0052	0.00088	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
trans-1,2-Dichloroethene	<0.00098		0.0026	0.00098	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Trichloroethene	<0.00070		0.0026	0.00070	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1
Vinyl chloride	<0.0011		0.0026	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*09/04/24 18:07*	*09/11/24 16:11*	*1*
4-Bromofluorobenzene (Surr)	*129*		*75 - 131*	*09/04/24 18:07*	*09/11/24 16:11*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*09/04/24 18:07*	*09/11/24 16:11*	*1*
Toluene-d8 (Surr)	*122*		*75 - 124*	*09/04/24 18:07*	*09/11/24 16:11*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.040**	**J**	0.071	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Acenaphthylene	**0.084**		0.071	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Anthracene	**0.18**		0.071	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Benzo[a]anthracene	**0.69**		0.071	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Benzo[a]pyrene	**0.90**		0.071	0.069	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Benzo[b]fluoranthene	**1.2**		0.071	0.068	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Benzo[g,h,i]perylene	**0.60**		0.071	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB24 (7.5-10)
Lab Sample ID: 500-256095-2
Date Collected: 09/03/24 08:40
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 91.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.55**		0.071	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Chrysene	**0.82**		0.071	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Dibenz(a,h)anthracene	**0.16**		0.071	0.071	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Fluoranthene	**1.2**		0.071	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Fluorene	**0.032**	**J**	0.071	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Indeno[1,2,3-cd]pyrene	**0.67**		0.071	0.070	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Naphthalene	**0.046**	**J**	0.071	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Phenanthrene	**0.64**		0.071	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Pyrene	**1.1**		0.071	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2-Methylnaphthalene	**0.072**	**J**	0.14	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
2-Nitrophenol	<0.049		0.71	0.049	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
3-Nitroaniline	<0.033		0.71	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
4-Nitrophenol	<0.27		1.4	0.27	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Carbazole	**0.061**	**J**	0.36	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Dibenzofuran	**0.046**	**J**	0.36	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB24 (7.5-10)
Date Collected: 09/03/24 08:40
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-2
Matrix: Solid
Percent Solids: 91.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76		1.4	0.76	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
N-Nitrosodiphenylamine	<0.043		0.36	0.043	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/13/24 12:05	09/16/24 15:39	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*47*		*31 - 166*	*09/13/24 12:05*	*09/16/24 15:39*	*2*
Phenol-d5 (Surr)	*50*		*30 - 153*	*09/13/24 12:05*	*09/16/24 15:39*	*2*
Nitrobenzene-d5 (Surr)	*45*		*37 - 147*	*09/13/24 12:05*	*09/16/24 15:39*	*2*
2-Fluorobiphenyl (Surr)	*55*		*43 - 145*	*09/13/24 12:05*	*09/16/24 15:39*	*2*
2,4,6-Tribromophenol (Surr)	*47*		*31 - 143*	*09/13/24 12:05*	*09/16/24 15:39*	*2*
Terphenyl-d14 (Surr)	*65*		*42 - 157*	*09/13/24 12:05*	*09/16/24 15:39*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0097		0.018	0.0097	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
4,4'-DDE	<0.0093		0.018	0.0093	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
4,4'-DDT	<0.0086		0.018	0.0086	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
alpha-Chlordane	<0.0097		0.018	0.0097	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Chlordane (technical)	<0.034		0.072	0.034	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
delta-BHC	<0.0087		0.018	0.0087	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Dieldrin	<0.0095		0.018	0.0095	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Endosulfan I	<0.0098		0.018	0.0098	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Endosulfan II	<0.0099		0.018	0.0099	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Endrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Endrin ketone	<0.0088		0.018	0.0088	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
gamma-BHC (Lindane)	<0.0090		0.018	0.0090	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Heptachlor	<0.0098		0.018	0.0098	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Heptachlor epoxide	<0.0098		0.018	0.0098	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Methoxychlor	<0.012		0.089	0.012	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/13/24 07:40	09/19/24 12:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*353*	*S1+*	*33 - 148*	*09/13/24 07:40*	*09/19/24 12:49*	*10*
Tetrachloro-m-xylene	*54*		*30 - 121*	*09/13/24 07:40*	*09/19/24 12:49*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 19:57	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 19:57	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB24 (7.5-10)

Date Collected: 09/03/24 08:40
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-2

Matrix: Solid
Percent Solids: 91.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 19:57	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 19:57	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 19:57	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 19:57	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 19:57	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*	*S1-*	*49 - 129*	*09/13/24 07:40*	*09/18/24 19:57*	*1*
DCB Decachlorobiphenyl	*213*	*S1+*	*37 - 121*	*09/13/24 07:40*	*09/18/24 19:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		20		mg/Kg	☼	09/16/24 14:56	09/18/24 01:26	1
Antimony	<2.0		2.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:26	1
Arsenic	<5.0		5.0		mg/Kg	☼	09/16/24 14:56	09/18/24 16:28	5
Barium	**180**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:26	1
Beryllium	**3.1**		2.0		mg/Kg	☼	09/16/24 14:56	09/19/24 14:03	5
Cadmium	**2.4**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 16:28	5
Calcium	**83000**		100		mg/Kg	☼	09/16/24 14:56	09/18/24 16:28	5
Chromium	**71**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:26	1
Cobalt	**6.5**		2.5		mg/Kg	☼	09/16/24 14:56	09/18/24 16:28	5
Copper	**120**		5.0		mg/Kg	☼	09/16/24 14:56	09/18/24 16:28	5
Iron	**83000**		100		mg/Kg	☼	09/16/24 14:56	09/18/24 16:28	5
Lead	**840**		2.5		mg/Kg	☼	09/16/24 14:56	09/18/24 16:28	5
Magnesium	**18000**		10		mg/Kg	☼	09/16/24 14:56	09/18/24 01:26	1
Manganese	**1900**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:26	1
Nickel	**35**		5.0		mg/Kg	☼	09/16/24 14:56	09/18/24 16:28	5
Potassium	**950**		50		mg/Kg	☼	09/16/24 14:56	09/18/24 01:26	1
Selenium	<5.0		5.0		mg/Kg	☼	09/16/24 14:56	09/19/24 14:03	5
Silver	<2.5		2.5		mg/Kg	☼	09/16/24 14:56	09/18/24 16:28	5
Sodium	**530**		500		mg/Kg	☼	09/16/24 14:56	09/18/24 16:28	5
Thallium	**12**		5.0		mg/Kg	☼	09/16/24 14:56	09/18/24 16:28	5
Vanadium	**31**		2.5		mg/Kg	☼	09/16/24 14:56	09/18/24 16:28	5
Zinc	**440**		2.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.59**		0.017		mg/Kg	☼	09/18/24 16:35	09/19/24 08:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.5**		0.24		mg/Kg	☼	09/05/24 10:02	09/05/24 17:09	1
pH (SW846 9045D)	**9.47**		0.20		SU			09/06/24 11:40	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB25 (0-3)

Date Collected: 09/03/24 09:11
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-3

Matrix: Solid
Percent Solids: 95.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00078		0.0019	0.00078	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
1,1,2,2-Tetrachloroethane	<0.00096		0.0019	0.00096	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
1,1,2-Trichloroethane	<0.00072		0.0019	0.00072	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
1,1-Dichloroethane	<0.00073		0.0019	0.00073	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
1,1-Dichloroethene	<0.00080		0.0019	0.00080	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
1,2-Dichloroethane	<0.0013		0.0048	0.0013	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
1,2-Dichloropropane	<0.00050		0.0019	0.00050	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
2-Butanone (MEK)	**0.0038**	**J**	0.0048	0.0021	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
2-Hexanone	<0.0029		0.0048	0.0029	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0048	0.0034	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Acetone	**0.012**	**J**	0.019	0.0081	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Benzene	<0.00061		0.0019	0.00061	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Bromodichloromethane	<0.00062		0.0019	0.00062	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Bromoform	<0.0011		0.0019	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Bromomethane	<0.0024		0.0048	0.0024	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Carbon disulfide	**0.0022**	**J**	0.0048	0.00089	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Carbon tetrachloride	<0.00066		0.0019	0.00066	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Chlorobenzene	<0.00082		0.0019	0.00082	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Chloroethane	<0.0016		0.0048	0.0016	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Chloroform	<0.0014		0.0019	0.0014	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Chloromethane	<0.00094		0.0048	0.00094	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
cis-1,2-Dichloroethene	<0.00078		0.0019	0.00078	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
1,3-Dichloropropene, Total	<0.00093		0.0019	0.00093	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Dibromochloromethane	<0.00090		0.0019	0.00090	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Ethylbenzene	<0.0010		0.0019	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Methyl tert-butyl ether	<0.00062		0.0019	0.00062	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Methylene Chloride	<0.0021		0.0048	0.0021	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Styrene	<0.00087		0.0019	0.00087	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Tetrachloroethene	<0.0011		0.0019	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Toluene	**0.00046**	**J**	0.0019	0.00039	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Xylenes, Total	<0.00066		0.0039	0.00066	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
trans-1,2-Dichloroethene	<0.00073		0.0019	0.00073	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Trichloroethene	**0.0014**	**J**	0.0019	0.00053	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1
Vinyl chloride	<0.00079		0.0019	0.00079	mg/Kg	☼	09/04/24 18:07	09/11/24 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*09/04/24 18:07*	*09/11/24 16:36*	*1*
4-Bromofluorobenzene (Surr)	*120*		*75 - 131*	*09/04/24 18:07*	*09/11/24 16:36*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*09/04/24 18:07*	*09/11/24 16:36*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*09/04/24 18:07*	*09/11/24 16:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.24**		0.066	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Acenaphthylene	**0.030**	**J**	0.066	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Anthracene	**0.65**		0.066	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Benzo[a]anthracene	**2.2**		0.066	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Benzo[a]pyrene	**2.1**		0.066	0.064	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Benzo[b]fluoranthene	**2.9**		0.066	0.063	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Benzo[g,h,i]perylene	**1.3**		0.066	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB25 (0-3)
Lab Sample ID: 500-256095-3
Date Collected: 09/03/24 09:11
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 95.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.1**		0.066	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Chrysene	**2.3**		0.066	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Dibenz(a,h)anthracene	**0.36**		0.066	0.066	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Fluoranthene	**4.8**		0.066	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Fluorene	**0.19**		0.066	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Indeno[1,2,3-cd]pyrene	**1.4**		0.066	0.064	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Naphthalene	**0.070**		0.066	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Phenanthrene	**2.7**		0.066	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Pyrene	**4.4**		0.066	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
1,2,4-Trichlorobenzene	<0.047		0.33	0.047	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
1,2-Dichlorobenzene	<0.027		0.33	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
1,3-Dichlorobenzene	<0.030		0.33	0.030	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
1,4-Dichlorobenzene	<0.031		0.33	0.031	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2,4,5-Trichlorophenol	<0.025		0.66	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2,4,6-Trichlorophenol	<0.023		0.66	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2,4-Dichlorophenol	<0.023		0.66	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2,4-Dimethylphenol	<0.15		0.66	0.15	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2,4-Dinitrophenol	<0.38		1.3	0.38	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2,4-Dinitrotoluene	<0.038		0.33	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2,6-Dinitrotoluene	<0.023		0.33	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2-Chloronaphthalene	<0.025		0.33	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2-Chlorophenol	<0.021		0.33	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2-Methylnaphthalene	**0.036**	**J**	0.13	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2-Methylphenol	<0.035		0.33	0.035	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2-Nitroaniline	<0.035		0.33	0.035	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
2-Nitrophenol	<0.045		0.66	0.045	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
3,3'-Dichlorobenzidine	<0.054		0.33	0.054	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
3 & 4 Methylphenol	<0.048		0.33	0.048	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
3-Nitroaniline	<0.030		0.66	0.030	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
4,6-Dinitro-2-methylphenol	<0.37		1.3	0.37	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
4-Bromophenyl phenyl ether	<0.045		0.33	0.045	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
4-Chloro-3-methylphenol	<0.026		0.66	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
4-Chloroaniline	<0.69		1.3	0.69	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
4-Chlorophenyl phenyl ether	<0.087		0.33	0.087	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
4-Nitroaniline	<0.049		0.66	0.049	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
4-Nitrophenol	<0.25		1.3	0.25	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Bis(2-chloroethoxy)methane	<0.025		0.33	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Bis(2-chloroethyl)ether	<0.030		0.33	0.030	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
bis(chloroisopropyl) ether	<0.047		0.33	0.047	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Bis(2-ethylhexyl) phthalate	<0.26		0.33	0.26	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Butyl benzyl phthalate	<0.033		0.33	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Carbazole	**0.41**		0.33	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Dibenzofuran	**0.12**	**J**	0.33	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Diethyl phthalate	<0.030		0.33	0.030	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Dimethyl phthalate	<0.014		0.33	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Di-n-butyl phthalate	<0.021		0.33	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Di-n-octyl phthalate	<0.46		0.66	0.46	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Hexachlorobenzene	<0.013		0.13	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Hexachlorobutadiene	<0.037		0.33	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2

Client Sample ID: SB25 (0-3)
Lab Sample ID: 500-256095-3
Date Collected: 09/03/24 09:11
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 95.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.70		1.3	0.70	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Hexachloroethane	<0.033		0.33	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Isophorone	<0.034		0.33	0.034	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Nitrobenzene	<0.021		0.066	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
N-Nitrosodi-n-propylamine	<0.013		0.13	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
N-Nitrosodiphenylamine	<0.039		0.33	0.039	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Pentachlorophenol	<0.17		1.3	0.17	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2
Phenol	<0.029		0.33	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 16:04	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*59*		*31 - 166*	*09/13/24 12:05*	*09/16/24 16:04*	*2*
Phenol-d5 (Surr)	*62*		*30 - 153*	*09/13/24 12:05*	*09/16/24 16:04*	*2*
Nitrobenzene-d5 (Surr)	*59*		*37 - 147*	*09/13/24 12:05*	*09/16/24 16:04*	*2*
2-Fluorobiphenyl (Surr)	*64*		*43 - 145*	*09/13/24 12:05*	*09/16/24 16:04*	*2*
2,4,6-Tribromophenol (Surr)	*38*		*31 - 143*	*09/13/24 12:05*	*09/16/24 16:04*	*2*
Terphenyl-d14 (Surr)	*67*		*42 - 157*	*09/13/24 12:05*	*09/16/24 16:04*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
alpha-BHC	<0.0098		0.018	0.0098	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
alpha-Chlordane	<0.0093		0.018	0.0093	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Methoxychlor	<0.012		0.086	0.012	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/13/24 07:40	09/19/24 13:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*555*	*S1+*	*33 - 148*	*09/13/24 07:40*	*09/19/24 13:01*	*10*
Tetrachloro-m-xylene	*78*		*30 - 121*	*09/13/24 07:40*	*09/19/24 13:01*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.087		0.087		mg/Kg	☼	09/13/24 07:40	09/19/24 21:33	5
PCB-1221	<0.087		0.087		mg/Kg	☼	09/13/24 07:40	09/19/24 21:33	5

Client Sample ID: SB25 (0-3)
Lab Sample ID: 500-256095-3
Date Collected: 09/03/24 09:11
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 95.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.087		0.087		mg/Kg	☼	09/13/24 07:40	09/19/24 21:33	5
PCB-1242	<0.087		0.087		mg/Kg	☼	09/13/24 07:40	09/19/24 21:33	5
PCB-1248	<0.087		0.087		mg/Kg	☼	09/13/24 07:40	09/19/24 21:33	5
PCB-1254	<0.087		0.087		mg/Kg	☼	09/13/24 07:40	09/19/24 21:33	5
PCB-1260	<0.087		0.087		mg/Kg	☼	09/13/24 07:40	09/19/24 21:33	5
Polychlorinated biphenyls, Total	<0.087		0.087		mg/Kg	☼	09/13/24 07:40	09/19/24 21:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*49*		*49 - 129*	*09/13/24 07:40*	*09/19/24 21:33*	*5*
DCB Decachlorobiphenyl	*162*	*S1+*	*37 - 121*	*09/13/24 07:40*	*09/19/24 21:33*	*5*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		21		mg/Kg	☼	09/16/24 14:56	09/18/24 01:30	1
Antimony	<10		10		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Arsenic	**7.1**		5.2		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Barium	**170**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:30	1
Beryllium	<2.1		2.1		mg/Kg	☼	09/16/24 14:56	09/19/24 14:07	5
Cadmium	**2.0**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Calcium	**110000**		100		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Chromium	**77**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:30	1
Cobalt	**6.1**		2.6		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Copper	**110**		5.2		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Iron	**85000**		100		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Lead	**220**		2.6		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Magnesium	**28000**		10		mg/Kg	☼	09/16/24 14:56	09/18/24 01:30	1
Manganese	**4300**		5.2		mg/Kg	☼	09/16/24 14:56	09/19/24 14:07	5
Nickel	**49**		5.2		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Potassium	**700**		52		mg/Kg	☼	09/16/24 14:56	09/18/24 01:30	1
Selenium	<5.2		5.2		mg/Kg	☼	09/16/24 14:56	09/19/24 14:07	5
Silver	<2.6		2.6		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Sodium	<520		520		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Thallium	**18**		5.2		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Vanadium	**41**		2.6		mg/Kg	☼	09/16/24 14:56	09/18/24 16:32	5
Zinc	**540**		2.1		mg/Kg	☼	09/16/24 14:56	09/18/24 01:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.016		mg/Kg	☼	09/18/24 16:35	09/19/24 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**7.1**		1.2		mg/Kg	☼	09/05/24 10:02	09/08/24 13:14	5
pH (SW846 9045D)	**10.63**		0.20		SU			09/06/24 11:42	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB25 (3-5)

Date Collected: 09/03/24 09:16
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-4

Matrix: Solid
Percent Solids: 92.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00090		0.0022	0.00090	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
1,1,2-Trichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
1,1-Dichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
1,1-Dichloroethene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
1,2-Dichloroethane	<0.0014		0.0056	0.0014	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
1,2-Dichloropropane	<0.00058		0.0022	0.00058	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
2-Butanone (MEK)	**0.0033**	**J**	0.0056	0.0025	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Acetone	**0.013**	**J**	0.022	0.0094	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Benzene	<0.00070		0.0022	0.00070	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Bromodichloromethane	<0.00072		0.0022	0.00072	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Bromomethane	<0.0027		0.0056	0.0027	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Carbon disulfide	**0.0024**	**J**	0.0056	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Carbon tetrachloride	<0.00076		0.0022	0.00076	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Chlorobenzene	<0.00094		0.0022	0.00094	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
cis-1,2-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Methyl tert-butyl ether	<0.00072		0.0022	0.00072	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Styrene	<0.0010		0.0022	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Tetrachloroethene	<0.0013		0.0022	0.0013	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Toluene	<0.00045		0.0022	0.00045	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Xylenes, Total	<0.00077		0.0045	0.00077	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
trans-1,2-Dichloroethene	<0.00084		0.0022	0.00084	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Trichloroethene	**0.0018**	**J**	0.0022	0.00061	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1
Vinyl chloride	<0.00091		0.0022	0.00091	mg/Kg	☼	09/04/24 18:07	09/11/24 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*09/04/24 18:07*	*09/11/24 17:01*	*1*
4-Bromofluorobenzene (Surr)	*119*		*75 - 131*	*09/04/24 18:07*	*09/11/24 17:01*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*09/04/24 18:07*	*09/11/24 17:01*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*09/04/24 18:07*	*09/11/24 17:01*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1.0**		0.069	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Acenaphthylene	**0.13**		0.069	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Anthracene	**3.5**		0.069	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Benzo[a]anthracene	**10**		0.069	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Benzo[a]pyrene	**9.3**		0.069	0.067	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Benzo[b]fluoranthene	**13**		0.069	0.066	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Benzo[g,h,i]perylene	**5.3**		0.069	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB25 (3-5)
Lab Sample ID: 500-256095-4
Date Collected: 09/03/24 09:16
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**4.9**		0.069	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Chrysene	**9.9**		0.069	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Dibenz(a,h)anthracene	**1.3**		0.069	0.069	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Fluorene	**0.84**		0.069	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Indeno[1,2,3-cd]pyrene	**6.0**		0.069	0.067	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Naphthalene	**0.15**		0.069	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Phenanthrene	**13**		0.069	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Pyrene	**19**		0.069	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
1,2,4-Trichlorobenzene	<0.049		0.35	0.049	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
1,3-Dichlorobenzene	<0.031		0.35	0.031	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2,4,5-Trichlorophenol	<0.026		0.69	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2,4,6-Trichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2,4-Dichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2,4-Dimethylphenol	<0.16		0.69	0.16	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2,4-Dinitrotoluene	<0.039		0.35	0.039	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2-Chlorophenol	<0.022		0.35	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2-Methylnaphthalene	**0.081**	**J**	0.14	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2-Methylphenol	<0.037		0.35	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
2-Nitrophenol	<0.047		0.69	0.047	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
3,3'-Dichlorobenzidine	<0.057		0.35	0.057	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
3-Nitroaniline	<0.032		0.69	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
4-Bromophenyl phenyl ether	<0.047		0.35	0.047	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
4-Chloro-3-methylphenol	<0.027		0.69	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
4-Chloroaniline	<0.73		1.4	0.73	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
4-Chlorophenyl phenyl ether	<0.091		0.35	0.091	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
4-Nitroaniline	<0.051		0.69	0.051	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Butyl benzyl phthalate	<0.034		0.35	0.034	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Carbazole	**2.2**		0.35	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Dibenzofuran	**0.46**		0.35	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Di-n-octyl phthalate	<0.48		0.69	0.48	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Hexachlorocyclopentadiene	<0.73		1.4	0.73	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2

Client Sample ID: SB25 (3-5)
Lab Sample ID: 500-256095-4
Date Collected: 09/03/24 09:16
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Nitrobenzene	<0.022		0.069	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/13/24 12:05	09/16/24 16:29	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*60*		*31 - 166*	*09/13/24 12:05*	*09/16/24 16:29*	*2*
Phenol-d5 (Surr)	*64*		*30 - 153*	*09/13/24 12:05*	*09/16/24 16:29*	*2*
Nitrobenzene-d5 (Surr)	*59*		*37 - 147*	*09/13/24 12:05*	*09/16/24 16:29*	*2*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/13/24 12:05*	*09/16/24 16:29*	*2*
2,4,6-Tribromophenol (Surr)	*19*	*S1-*	*31 - 143*	*09/13/24 12:05*	*09/16/24 16:29*	*2*
Terphenyl-d14 (Surr)	*74*		*42 - 157*	*09/13/24 12:05*	*09/16/24 16:29*	*2*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**28**		1.7	0.40	mg/Kg	☼	09/13/24 12:05	09/17/24 14:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*0*	*S1-*	*31 - 166*	*09/13/24 12:05*	*09/17/24 14:35*	*50*
Phenol-d5 (Surr)	*0*	*S1-*	*30 - 153*	*09/13/24 12:05*	*09/17/24 14:35*	*50*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*37 - 147*	*09/13/24 12:05*	*09/17/24 14:35*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*43 - 145*	*09/13/24 12:05*	*09/17/24 14:35*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/13/24 12:05*	*09/17/24 14:35*	*50*
Terphenyl-d14 (Surr)	*0*	*S1-*	*42 - 157*	*09/13/24 12:05*	*09/17/24 14:35*	*50*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0046		0.0087	0.0046	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
4,4'-DDE	<0.0044		0.0087	0.0044	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
4,4'-DDT	<0.0041		0.0087	0.0041	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
Aldrin	<0.0060		0.0087	0.0060	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
alpha-BHC	<0.0049		0.0087	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
alpha-Chlordane	<0.0046		0.0087	0.0046	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
beta-BHC	<0.0070		0.0087	0.0070	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
Chlordane (technical)	<0.016		0.034	0.016	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
delta-BHC	<0.0041		0.0087	0.0041	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
Dieldrin	<0.0045		0.0087	0.0045	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
Endosulfan I	<0.0047		0.0087	0.0047	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
Endosulfan II	<0.0047		0.0087	0.0047	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
Endosulfan sulfate	<0.0048		0.0087	0.0048	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
Endrin	<0.0044		0.0087	0.0044	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
Endrin aldehyde	<0.0049		0.0087	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
Endrin ketone	<0.0042		0.0087	0.0042	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
gamma-BHC (Lindane)	<0.0043		0.0087	0.0043	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
gamma-Chlordane	<0.0050		0.0087	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
Heptachlor	<0.0047		0.0087	0.0047	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
Heptachlor epoxide	<0.0047		0.0087	0.0047	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5

Client Sample ID: SB25 (3-5)
Lab Sample ID: 500-256095-4
Date Collected: 09/03/24 09:16
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 92.7

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.0057		0.042	0.0057	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5
Toxaphene	<0.034		0.085	0.034	mg/Kg	☼	09/13/24 07:40	09/19/24 13:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*1237*	*S1+*	*33 - 148*	*09/13/24 07:40*	*09/19/24 13:13*	*5*
Tetrachloro-m-xylene	*148*	*S1+*	*30 - 121*	*09/13/24 07:40*	*09/19/24 13:13*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/13/24 07:40	09/18/24 20:28	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/13/24 07:40	09/18/24 20:28	1
PCB-1232	<0.017		0.017		mg/Kg	☼	09/13/24 07:40	09/18/24 20:28	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/13/24 07:40	09/18/24 20:28	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/13/24 07:40	09/18/24 20:28	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/13/24 07:40	09/18/24 20:28	1
PCB-1260	<0.017		0.017		mg/Kg	☼	09/13/24 07:40	09/18/24 20:28	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg	☼	09/13/24 07:40	09/18/24 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*09/13/24 07:40*	*09/18/24 20:28*	*1*
DCB Decachlorobiphenyl	*79*		*37 - 121*	*09/13/24 07:40*	*09/18/24 20:28*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		19		mg/Kg	☼	09/16/24 14:56	09/18/24 01:35	1
Antimony	<9.4		9.4		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Arsenic	<4.7		4.7		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Barium	**140**		0.94		mg/Kg	☼	09/16/24 14:56	09/18/24 01:35	1
Beryllium	**1.9**		1.9		mg/Kg	☼	09/16/24 14:56	09/19/24 14:12	5
Cadmium	**1.4**		0.94		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Calcium	**110000**		94		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Chromium	**38**		0.94		mg/Kg	☼	09/16/24 14:56	09/18/24 01:35	1
Cobalt	**4.8**		2.4		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Copper	**160**		4.7		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Iron	**67000**		94		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Lead	**190**		2.4		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Magnesium	**19000**		9.4		mg/Kg	☼	09/16/24 14:56	09/18/24 01:35	1
Manganese	**4000**		4.7		mg/Kg	☼	09/16/24 14:56	09/19/24 14:12	5
Nickel	**26**		4.7		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Potassium	**730**		47		mg/Kg	☼	09/16/24 14:56	09/18/24 01:35	1
Selenium	<4.7		4.7		mg/Kg	☼	09/16/24 14:56	09/19/24 14:12	5
Silver	<2.4		2.4		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Sodium	**480**		470		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Thallium	**17**		4.7		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Vanadium	**25**		2.4		mg/Kg	☼	09/16/24 14:56	09/18/24 16:37	5
Zinc	**250**		1.9		mg/Kg	☼	09/16/24 14:56	09/18/24 01:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.47**		0.017		mg/Kg	☼	09/18/24 16:35	09/19/24 08:16	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB25 (3-5)
Lab Sample ID: 500-256095-4
Date Collected: 09/03/24 09:16
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 92.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	5.7		1.2		mg/Kg	☼	09/05/24 10:02	09/08/24 13:09	5
pH (SW846 9045D)	10.57		0.20		SU			09/06/24 11:47	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB26 (0-3)

Date Collected: 09/03/24 09:58
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-5

Matrix: Solid
Percent Solids: 89.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0025	0.0010	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
1,1,2-Trichloroethane	<0.00094		0.0025	0.00094	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
1,1-Dichloroethane	<0.00094		0.0025	0.00094	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
1,2-Dichloroethane	<0.0016		0.0063	0.0016	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
1,2-Dichloropropane	<0.00065		0.0025	0.00065	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
2-Butanone (MEK)	<0.0028		0.0063	0.0028	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
2-Hexanone	<0.0038		0.0063	0.0038	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0063	0.0045	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Acetone	<0.011		0.025	0.011	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Benzene	<0.00079		0.0025	0.00079	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Bromodichloromethane	<0.00080		0.0025	0.00080	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Bromoform	<0.0015		0.0025	0.0015	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Bromomethane	<0.0031		0.0063	0.0031	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Carbon disulfide	<0.0012		0.0063	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Carbon tetrachloride	<0.00085		0.0025	0.00085	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Chlorobenzene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Chloroethane	<0.0021		0.0063	0.0021	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Chloromethane	<0.0012		0.0063	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
cis-1,2-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Dibromochloromethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Methyl tert-butyl ether	<0.00081		0.0025	0.00081	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Methylene Chloride	<0.0027		0.0063	0.0027	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Styrene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Toluene	<0.00050		0.0025	0.00050	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Xylenes, Total	<0.00086		0.0050	0.00086	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
trans-1,2-Dichloroethene	<0.00095		0.0025	0.00095	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Trichloroethene	<0.00068		0.0025	0.00068	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	09/04/24 18:07	09/12/24 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*	*09/04/24 18:07*	*09/12/24 12:51*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*09/04/24 18:07*	*09/12/24 12:51*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*09/04/24 18:07*	*09/12/24 12:51*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*09/04/24 18:07*	*09/12/24 12:51*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.036	0.0075	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Acenaphthylene	<0.0062		0.036	0.0062	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Anthracene	**0.013**	**J**	0.036	0.0075	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Benzo[a]anthracene	**0.091**		0.036	0.0078	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Benzo[a]pyrene	**0.087**		0.036	0.035	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Benzo[b]fluoranthene	**0.16**		0.036	0.035	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Benzo[g,h,i]perylene	**0.075**		0.036	0.0079	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB26 (0-3)
Lab Sample ID: 500-256095-5
Date Collected: 09/03/24 09:58
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 89.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.058**		0.036	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Chrysene	**0.10**		0.036	0.0097	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Fluoranthene	**0.13**		0.036	0.0085	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Fluorene	<0.011		0.036	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Indeno[1,2,3-cd]pyrene	**0.077**		0.036	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Naphthalene	<0.0066		0.036	0.0066	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Phenanthrene	**0.049**		0.036	0.0080	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Pyrene	**0.13**		0.036	0.010	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
1,3-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2,4-Dimethylphenol	<0.082		0.36	0.082	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2-Methylnaphthalene	<0.0074		0.074	0.0074	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
4-Chloroaniline	<0.38		0.74	0.38	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Dimethyl phthalate	<0.0080		0.18	0.0080	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Di-n-octyl phthalate	<0.26		0.36	0.26	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB26 (0-3)
Date Collected: 09/03/24 09:58
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-5
Matrix: Solid
Percent Solids: 89.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Nitrobenzene	<0.012		0.036	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
N-Nitrosodi-n-propylamine	<0.0072		0.074	0.0072	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Pentachlorophenol	<0.092		0.74	0.092	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*49*		*31 - 166*	*09/13/24 12:05*	*09/16/24 12:18*	*1*
Phenol-d5 (Surr)	*61*		*30 - 153*	*09/13/24 12:05*	*09/16/24 12:18*	*1*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*	*09/13/24 12:05*	*09/16/24 12:18*	*1*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*	*09/13/24 12:05*	*09/16/24 12:18*	*1*
2,4,6-Tribromophenol (Surr)	*41*		*31 - 143*	*09/13/24 12:05*	*09/16/24 12:18*	*1*
Terphenyl-d14 (Surr)	*90*		*42 - 157*	*09/13/24 12:05*	*09/16/24 12:18*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0048		0.0090	0.0048	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
4,4'-DDE	<0.0046		0.0090	0.0046	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
4,4'-DDT	<0.0042		0.0090	0.0042	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Aldrin	<0.0062		0.0090	0.0062	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
alpha-BHC	<0.0050		0.0090	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
alpha-Chlordane	<0.0048		0.0090	0.0048	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
beta-BHC	<0.0072		0.0090	0.0072	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Chlordane (technical)	<0.017		0.035	0.017	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
delta-BHC	<0.0043		0.0090	0.0043	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Dieldrin	<0.0047		0.0090	0.0047	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Endosulfan I	<0.0048		0.0090	0.0048	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Endosulfan II	<0.0049		0.0090	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Endosulfan sulfate	<0.0049		0.0090	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Endrin	<0.0045		0.0090	0.0045	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Endrin aldehyde	<0.0051		0.0090	0.0051	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Endrin ketone	<0.0043		0.0090	0.0043	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
gamma-BHC (Lindane)	<0.0044		0.0090	0.0044	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
gamma-Chlordane	<0.0051		0.0090	0.0051	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Heptachlor	<0.0048		0.0090	0.0048	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Heptachlor epoxide	<0.0048		0.0090	0.0048	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Methoxychlor	<0.0059		0.044	0.0059	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5
Toxaphene	<0.036		0.088	0.036	mg/Kg	☼	09/13/24 07:40	09/19/24 13:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*33 - 148*	*09/13/24 07:40*	*09/19/24 13:24*	*5*
Tetrachloro-m-xylene	*66*		*30 - 121*	*09/13/24 07:40*	*09/19/24 13:24*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:43	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:43	1

Client Sample ID: SB26 (0-3)
Lab Sample ID: 500-256095-5
Date Collected: 09/03/24 09:58
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 89.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:43	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:43	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:43	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:43	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:43	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*49 - 129*	*09/13/24 07:40*	*09/18/24 20:43*	*1*
DCB Decachlorobiphenyl	*71*		*37 - 121*	*09/13/24 07:40*	*09/18/24 20:43*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		21		mg/Kg	☼	09/16/24 14:56	09/18/24 01:39	1
Antimony	<10		10		mg/Kg	☼	09/16/24 14:56	09/18/24 16:41	5
Arsenic	**33**		5.1		mg/Kg	☼	09/16/24 14:56	09/18/24 16:41	5
Barium	**230**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:39	1
Beryllium	<4.1		4.1		mg/Kg	☼	09/16/24 14:56	09/19/24 14:16	10
Cadmium	<0.21		0.21		mg/Kg	☼	09/16/24 14:56	09/18/24 01:39	1
Calcium	**34000**		21		mg/Kg	☼	09/16/24 14:56	09/18/24 01:39	1
Chromium	**22**		1.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:39	1
Cobalt	**8.4**		2.6		mg/Kg	☼	09/16/24 14:56	09/18/24 16:41	5
Copper	**53**		5.1		mg/Kg	☼	09/16/24 14:56	09/18/24 16:41	5
Iron	**78000**		100		mg/Kg	☼	09/16/24 14:56	09/18/24 16:41	5
Lead	**42**		2.6		mg/Kg	☼	09/16/24 14:56	09/18/24 16:41	5
Magnesium	**14000**		10		mg/Kg	☼	09/16/24 14:56	09/18/24 01:39	1
Manganese	**42000**		10		mg/Kg	☼	09/16/24 14:56	09/19/24 14:16	10
Nickel	**15**		5.1		mg/Kg	☼	09/16/24 14:56	09/18/24 16:41	5
Potassium	**1100**		51		mg/Kg	☼	09/16/24 14:56	09/18/24 01:39	1
Selenium	**20**		10		mg/Kg	☼	09/16/24 14:56	09/19/24 14:16	10
Silver	<2.6		2.6		mg/Kg	☼	09/16/24 14:56	09/18/24 16:41	5
Sodium	<510		510		mg/Kg	☼	09/16/24 14:56	09/18/24 16:41	5
Thallium	**210**		10		mg/Kg	☼	09/16/24 14:56	09/19/24 14:16	10
Vanadium	**61**		2.6		mg/Kg	☼	09/16/24 14:56	09/18/24 16:41	5
Zinc	**58**		2.1		mg/Kg	☼	09/16/24 14:56	09/18/24 01:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.017		mg/Kg	☼	09/18/24 16:35	09/19/24 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.0**		0.25		mg/Kg	☼	09/05/24 10:02	09/05/24 17:15	1
pH (SW846 9045D)	**9.10**		0.20		SU			09/06/24 11:49	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB26 (7.5-10)

Date Collected: 09/03/24 10:12
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-6

Matrix: Solid
Percent Solids: 89.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00091		0.0023	0.00091	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
1,1,2-Trichloroethane	<0.00085		0.0023	0.00085	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
1,1-Dichloroethane	<0.00085		0.0023	0.00085	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
1,1-Dichloroethene	<0.00093		0.0023	0.00093	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
1,2-Dichloroethane	<0.0015		0.0056	0.0015	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
1,2-Dichloropropane	<0.00058		0.0023	0.00058	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
2-Butanone (MEK)	<0.0025		0.0056	0.0025	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Acetone	<0.0095		0.023	0.0095	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Benzene	**0.00093**	**J**	0.0023	0.00071	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Bromodichloromethane	<0.00072		0.0023	0.00072	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Bromomethane	<0.0028		0.0056	0.0028	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Carbon disulfide	**0.0042**	**J**	0.0056	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Carbon tetrachloride	<0.00077		0.0023	0.00077	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Chlorobenzene	<0.00095		0.0023	0.00095	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Chloroethane	<0.0019		0.0056	0.0019	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Chloroform	<0.0016		0.0023	0.0016	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
cis-1,2-Dichloroethene	<0.00091		0.0023	0.00091	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Dibromochloromethane	<0.0010		0.0023	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Ethylbenzene	**0.0021**	**J**	0.0023	0.0012	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Methyl tert-butyl ether	<0.00073		0.0023	0.00073	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Toluene	**0.0019**	**J**	0.0023	0.00045	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Xylenes, Total	**0.0029**	**J**	0.0045	0.00077	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
trans-1,2-Dichloroethene	<0.00085		0.0023	0.00085	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Trichloroethene	<0.00061		0.0023	0.00061	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1
Vinyl chloride	<0.00092		0.0023	0.00092	mg/Kg	☼	09/04/24 18:07	09/11/24 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*09/04/24 18:07*	*09/11/24 17:26*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*	*09/04/24 18:07*	*09/11/24 17:26*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/04/24 18:07*	*09/11/24 17:26*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*09/04/24 18:07*	*09/11/24 17:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0074		0.036	0.0074	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Acenaphthylene	<0.0062		0.036	0.0062	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Anthracene	<0.0075		0.036	0.0075	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Benzo[a]anthracene	**0.023**	**J**	0.036	0.0077	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Benzo[a]pyrene	<0.035		0.036	0.035	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Benzo[b]fluoranthene	**0.035**	**J**	0.036	0.035	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Benzo[g,h,i]perylene	**0.022**	**J**	0.036	0.0079	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB26 (7.5-10)
Lab Sample ID: 500-256095-6
Date Collected: 09/03/24 10:12
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 89.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.014		0.036	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Chrysene	**0.023**	**J**	0.036	0.0096	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Fluoranthene	**0.027**	**J**	0.036	0.0085	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Fluorene	<0.011		0.036	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Naphthalene	<0.0066	F1	0.036	0.0066	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Phenanthrene	**0.017**	**J**	0.036	0.0079	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Pyrene	**0.024**	**J**	0.036	0.010	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
1,2,4-Trichlorobenzene	<0.026	F1	0.18	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
1,2-Dichlorobenzene	<0.015	F1	0.18	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
1,3-Dichlorobenzene	<0.016	F1	0.18	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
1,4-Dichlorobenzene	<0.017	F1	0.18	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2,4-Dimethylphenol	<0.082	F1	0.36	0.082	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2,4-Dinitrophenol	<0.21	F1 F2	0.74	0.21	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2-Chlorophenol	<0.012	F1	0.18	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2-Methylnaphthalene	<0.0073	F1	0.074	0.0073	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
4,6-Dinitro-2-methylphenol	<0.21	F2	0.74	0.21	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
4-Chloroaniline	<0.38		0.74	0.38	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Dimethyl phthalate	<0.0079		0.18	0.0079	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Di-n-octyl phthalate	<0.26		0.36	0.26	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1

Client Sample ID: SB26 (7.5-10) — **Lab Sample ID: 500-256095-6**
Date Collected: 09/03/24 10:12 — **Matrix: Solid**
Date Received: 09/04/24 12:15 — **Percent Solids: 89.0**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Hexachloroethane	<0.018	F1	0.18	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Nitrobenzene	<0.012		0.036	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
N-Nitrosodi-n-propylamine	<0.0072		0.074	0.0072	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Pentachlorophenol	<0.091		0.74	0.091	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*70*		*31 - 166*	*09/13/24 12:05*	*09/16/24 17:44*	*1*
Phenol-d5 (Surr)	*72*		*30 - 153*	*09/13/24 12:05*	*09/16/24 17:44*	*1*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*09/13/24 12:05*	*09/16/24 17:44*	*1*
2-Fluorobiphenyl (Surr)	*75*		*43 - 145*	*09/13/24 12:05*	*09/16/24 17:44*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*31 - 143*	*09/13/24 12:05*	*09/16/24 17:44*	*1*
Terphenyl-d14 (Surr)	*89*		*42 - 157*	*09/13/24 12:05*	*09/16/24 17:44*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0049		0.0091	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
4,4'-DDE	<0.0047		0.0091	0.0047	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
4,4'-DDT	<0.0043		0.0091	0.0043	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Aldrin	<0.0063		0.0091	0.0063	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
alpha-BHC	<0.0051		0.0091	0.0051	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
alpha-Chlordane	<0.0048		0.0091	0.0048	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
beta-BHC	<0.0073		0.0091	0.0073	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Chlordane (technical)	<0.017		0.036	0.017	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
delta-BHC	<0.0043		0.0091	0.0043	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Dieldrin	<0.0047		0.0091	0.0047	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Endosulfan I	<0.0049		0.0091	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Endosulfan II	<0.0050		0.0091	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Endosulfan sulfate	<0.0050		0.0091	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Endrin	<0.0046		0.0091	0.0046	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Endrin aldehyde	<0.0052		0.0091	0.0052	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Endrin ketone	<0.0044		0.0091	0.0044	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
gamma-BHC (Lindane)	<0.0045		0.0091	0.0045	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
gamma-Chlordane	<0.0052		0.0091	0.0052	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Heptachlor	<0.0049		0.0091	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Heptachlor epoxide	<0.0049		0.0091	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Methoxychlor	<0.0060		0.045	0.0060	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5
Toxaphene	<0.036		0.090	0.036	mg/Kg	☼	09/13/24 07:40	09/19/24 13:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*33 - 148*	*09/13/24 07:40*	*09/19/24 13:36*	*5*
Tetrachloro-m-xylene	*88*		*30 - 121*	*09/13/24 07:40*	*09/19/24 13:36*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:58	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:58	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB26 (7.5-10)

Date Collected: 09/03/24 10:12
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-6

Matrix: Solid
Percent Solids: 89.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:58	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:58	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:58	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:58	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:58	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*49 - 129*	*09/13/24 07:40*	*09/18/24 20:58*	*1*
DCB Decachlorobiphenyl	*88*		*37 - 121*	*09/13/24 07:40*	*09/18/24 20:58*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7300**		21		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Antimony	<2.1		2.1		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Arsenic	**7.2**		1.1		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Barium	**99**		1.1		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Beryllium	**0.88**		0.42		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Cadmium	<0.21		0.21		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Calcium	**31000**		21		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Chromium	**31**		1.1		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Cobalt	**3.3**		2.7		mg/Kg	☼	09/16/24 14:56	09/18/24 16:46	5
Copper	**11**		1.1		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Iron	**43000**		21		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Lead	**6.2**		0.53		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Magnesium	**18000**		11		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Manganese	**27000**		11		mg/Kg	☼	09/16/24 14:56	09/19/24 14:20	10
Nickel	**5.7**		1.1		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Potassium	**360**		53		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Selenium	**9.1**		1.1		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Silver	<2.7		2.7		mg/Kg	☼	09/16/24 14:56	09/18/24 16:46	5
Sodium	**220**		110		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1
Thallium	**140**		11		mg/Kg	☼	09/16/24 14:56	09/19/24 14:20	10
Vanadium	**95**		2.7		mg/Kg	☼	09/16/24 14:56	09/18/24 16:46	5
Zinc	**10**		2.1		mg/Kg	☼	09/16/24 14:56	09/18/24 01:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/18/24 16:35	09/19/24 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.91**		0.26		mg/Kg	☼	09/05/24 12:32	09/08/24 12:15	1
pH (SW846 9045D)	**9.44**		0.20		SU			09/06/24 11:52	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB27 (0-3)

Date Collected: 09/03/24 10:42
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-7

Matrix: Solid
Percent Solids: 88.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00098		0.0024	0.00098	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
1,1,2-Trichloroethane	<0.00090		0.0024	0.00090	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
1,1-Dichloroethane	<0.00091		0.0024	0.00091	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
1,1-Dichloroethene	<0.00099		0.0024	0.00099	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
1,2-Dichloroethane	<0.0016		0.0060	0.0016	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
1,2-Dichloropropane	<0.00062		0.0024	0.00062	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
2-Butanone (MEK)	<0.0027		0.0060	0.0027	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
2-Hexanone	<0.0037		0.0060	0.0037	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0060	0.0043	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Acetone	**0.021**	**J**	0.024	0.010	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Benzene	<0.00076		0.0024	0.00076	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Bromodichloromethane	<0.00078		0.0024	0.00078	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Bromomethane	<0.0030		0.0060	0.0030	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Carbon disulfide	**0.0020**	**J**	0.0060	0.0011	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Carbon tetrachloride	<0.00082		0.0024	0.00082	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Chloroethane	<0.0020		0.0060	0.0020	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Chloroform	<0.0017		0.0024	0.0017	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Chloromethane	<0.0012		0.0060	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
cis-1,2-Dichloroethene	<0.00097		0.0024	0.00097	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
1,3-Dichloropropene, Total	<0.0012		0.0024	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Ethylbenzene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Methyl tert-butyl ether	<0.00078		0.0024	0.00078	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Methylene Chloride	<0.0026		0.0060	0.0026	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Styrene	<0.0011		0.0024	0.0011	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Tetrachloroethene	<0.0014		0.0024	0.0014	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Toluene	<0.00049		0.0024	0.00049	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Xylenes, Total	<0.00083		0.0048	0.00083	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
trans-1,2-Dichloroethene	<0.00091		0.0024	0.00091	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Trichloroethene	<0.00066		0.0024	0.00066	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1
Vinyl chloride	<0.00099		0.0024	0.00099	mg/Kg	☼	09/04/24 18:07	09/12/24 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 134*	*09/04/24 18:07*	*09/12/24 13:15*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*09/04/24 18:07*	*09/12/24 13:15*	*1*
Dibromofluoromethane	*59*	*S1-*	*75 - 126*	*09/04/24 18:07*	*09/12/24 13:15*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*09/04/24 18:07*	*09/12/24 13:15*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.011		0.056	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Acenaphthylene	<0.0095		0.056	0.0095	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Anthracene	**0.012**	**J**	0.056	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Benzo[a]anthracene	**0.035**	**J**	0.056	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Benzo[a]pyrene	<0.054		0.056	0.054	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Benzo[b]fluoranthene	<0.053		0.056	0.053	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Benzo[g,h,i]perylene	**0.027**	**J**	0.056	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB27 (0-3)
Lab Sample ID: 500-256095-7
Date Collected: 09/03/24 10:42
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 88.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.021		0.056	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Chrysene	**0.034**	**J**	0.056	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Dibenz(a,h)anthracene	<0.056		0.056	0.056	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Fluoranthene	**0.053**	**J**	0.056	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Fluorene	<0.017		0.056	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Indeno[1,2,3-cd]pyrene	<0.054		0.056	0.054	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Naphthalene	**0.024**	**J**	0.056	0.010	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Phenanthrene	**0.096**		0.056	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Pyrene	**0.053**	**J**	0.056	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
1,2,4-Trichlorobenzene	<0.040		0.28	0.040	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
1,2-Dichlorobenzene	<0.023		0.28	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
1,3-Dichlorobenzene	<0.025		0.28	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
1,4-Dichlorobenzene	<0.026		0.28	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2,4,5-Trichlorophenol	<0.021		0.56	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2,4,6-Trichlorophenol	<0.019		0.56	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2,4-Dichlorophenol	<0.020		0.56	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2,4-Dimethylphenol	<0.13		0.56	0.13	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2,4-Dinitrophenol	<0.32		1.1	0.32	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2,4-Dinitrotoluene	<0.032		0.28	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2,6-Dinitrotoluene	<0.019		0.28	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2-Chloronaphthalene	<0.021		0.28	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2-Chlorophenol	<0.018		0.28	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2-Methylnaphthalene	**0.044**	**J**	0.11	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2-Methylphenol	<0.029		0.28	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2-Nitroaniline	<0.030		0.28	0.030	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
2-Nitrophenol	<0.038		0.56	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
3,3'-Dichlorobenzidine	<0.046		0.28	0.046	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
3 & 4 Methylphenol	<0.041		0.28	0.041	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
3-Nitroaniline	<0.025		0.56	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
4,6-Dinitro-2-methylphenol	<0.31		1.1	0.31	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
4-Bromophenyl phenyl ether	<0.038		0.28	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
4-Chloro-3-methylphenol	<0.022		0.56	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
4-Chloroaniline	<0.59		1.1	0.59	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
4-Chlorophenyl phenyl ether	<0.073		0.28	0.073	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
4-Nitroaniline	<0.041		0.56	0.041	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
4-Nitrophenol	<0.21		1.1	0.21	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Bis(2-chloroethoxy)methane	<0.021		0.28	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Bis(2-chloroethyl)ether	<0.026		0.28	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
bis(chloroisopropyl) ether	<0.040		0.28	0.040	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Bis(2-ethylhexyl) phthalate	<0.22		0.28	0.22	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Butyl benzyl phthalate	<0.028		0.28	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Carbazole	<0.022		0.28	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Dibenzofuran	<0.020		0.28	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Diethyl phthalate	<0.026		0.28	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Dimethyl phthalate	<0.012		0.28	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Di-n-butyl phthalate	<0.018		0.28	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Di-n-octyl phthalate	<0.39		0.56	0.39	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Hexachlorobenzene	<0.011		0.11	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Hexachlorobutadiene	<0.031		0.28	0.031	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1

Client Sample ID: SB27 (0-3)
Lab Sample ID: 500-256095-7
Date Collected: 09/03/24 10:42
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 88.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.59		1.1	0.59	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Hexachloroethane	<0.028		0.28	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Isophorone	<0.029		0.28	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Nitrobenzene	<0.018		0.056	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
N-Nitrosodi-n-propylamine	<0.011		0.11	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
N-Nitrosodiphenylamine	<0.033		0.28	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Pentachlorophenol	<0.14		1.1	0.14	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1
Phenol	<0.024		0.28	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*32*		*31 - 166*	*09/13/24 12:05*	*09/16/24 12:43*	*1*
Phenol-d5 (Surr)	*63*		*30 - 153*	*09/13/24 12:05*	*09/16/24 12:43*	*1*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*	*09/13/24 12:05*	*09/16/24 12:43*	*1*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/13/24 12:05*	*09/16/24 12:43*	*1*
2,4,6-Tribromophenol (Surr)	*9*	*S1-*	*31 - 143*	*09/13/24 12:05*	*09/16/24 12:43*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*09/13/24 12:05*	*09/16/24 12:43*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0049		0.0093	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
4,4'-DDE	<0.0047		0.0093	0.0047	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
4,4'-DDT	<0.0044		0.0093	0.0044	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Aldrin	<0.0064		0.0093	0.0064	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
alpha-BHC	<0.0052		0.0093	0.0052	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
alpha-Chlordane	<0.0049		0.0093	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
beta-BHC	<0.0074		0.0093	0.0074	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Chlordane (technical)	<0.017		0.037	0.017	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
delta-BHC	<0.0044		0.0093	0.0044	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Dieldrin	<0.0048		0.0093	0.0048	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Endosulfan I	<0.0050		0.0093	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Endosulfan II	<0.0050		0.0093	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Endosulfan sulfate	<0.0051		0.0093	0.0051	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Endrin	<0.0047		0.0093	0.0047	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Endrin aldehyde	<0.0052		0.0093	0.0052	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Endrin ketone	<0.0045		0.0093	0.0045	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
gamma-BHC (Lindane)	<0.0046		0.0093	0.0046	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
gamma-Chlordane	<0.0053		0.0093	0.0053	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Heptachlor	<0.0050		0.0093	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Heptachlor epoxide	<0.0050		0.0093	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Methoxychlor	<0.0061		0.045	0.0061	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5
Toxaphene	<0.037		0.091	0.037	mg/Kg	☼	09/13/24 07:40	09/19/24 13:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*33 - 148*	*09/13/24 07:40*	*09/19/24 13:48*	*5*
Tetrachloro-m-xylene	*104*		*30 - 121*	*09/13/24 07:40*	*09/19/24 13:48*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:14	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:14	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB27 (0-3)

Date Collected: 09/03/24 10:42
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-7

Matrix: Solid
Percent Solids: 88.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:14	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:14	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:14	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:14	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:14	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*49 - 129*	*09/13/24 07:40*	*09/18/24 21:14*	*1*
DCB Decachlorobiphenyl	*91*		*37 - 121*	*09/13/24 07:40*	*09/18/24 21:14*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		20		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Antimony	<2.0		2.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Arsenic	**2.4**		0.99		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Barium	**220**		0.99		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Beryllium	**2.7**		0.40		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Cadmium	<0.20		0.20		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Calcium	**130000**		99		mg/Kg	☼	09/16/24 14:56	09/18/24 16:50	5
Chromium	**6.4**		0.99		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Cobalt	<2.5		2.5		mg/Kg	☼	09/16/24 14:56	09/18/24 16:50	5
Copper	**4.8**		0.99		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Iron	**7000**		20		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Lead	**9.1**		2.5		mg/Kg	☼	09/16/24 14:56	09/18/24 16:50	5
Magnesium	**19000**		9.9		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Manganese	**1100**		0.99		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Nickel	**3.9**		0.99		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Potassium	**650**		50		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Selenium	**1.3**		0.99		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Silver	<0.50		0.50		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Sodium	**510**		99		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Thallium	**3.3**		0.99		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1
Vanadium	**11**		2.5		mg/Kg	☼	09/16/24 14:56	09/18/24 16:50	5
Zinc	**23**		2.0		mg/Kg	☼	09/16/24 14:56	09/18/24 01:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.060**		0.017		mg/Kg	☼	09/18/24 16:35	09/19/24 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.32**		0.27		mg/Kg	☼	09/05/24 12:32	09/08/24 12:16	1
pH (SW846 9045D)	**11.70**		0.20		SU			09/06/24 11:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB27 (5-7.5)
Lab Sample ID: 500-256095-8
Date Collected: 09/03/24 10:57
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 79.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.033		0.074	0.033	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
1,1,2,2-Tetrachloroethane	<0.048		0.074	0.048	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
1,1,2-Trichloroethane	<0.054		0.074	0.054	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
1,1-Dichloroethane	<0.027		0.074	0.027	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
1,1-Dichloroethene	<0.035		0.074	0.035	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
1,2-Dichloroethane	<0.043		0.074	0.043	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
1,2-Dichloropropane	<0.028		0.074	0.028	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
2-Butanone (MEK)	<0.23		0.37	0.23	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
2-Hexanone	<0.22		0.37	0.22	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
4-Methyl-2-pentanone (MIBK)	<0.20		0.37	0.20	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Acetone	<0.54		0.74	0.54	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Benzene	<0.0091		0.018	0.0091	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Bromodichloromethane	<0.042		0.074	0.042	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Bromoform	<0.071		0.074	0.071	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Bromomethane	<0.13		0.22	0.13	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Carbon disulfide	<0.079		0.15	0.079	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Carbon tetrachloride	<0.031		0.074	0.031	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Chlorobenzene	<0.030		0.074	0.030	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Chloroethane	<0.035		0.37	0.035	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Chloroform	<0.068		0.15	0.068	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Chloromethane	<0.058		0.37	0.058	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
cis-1,2-Dichloroethene	<0.031		0.074	0.031	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
1,3-Dichloropropene, Total	<0.047		0.074	0.047	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Dibromochloromethane	<0.061		0.074	0.061	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Ethylbenzene	**0.028**		0.018	0.013	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Methyl tert-butyl ether	<0.032		0.074	0.032	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Methylene Chloride	<0.16		0.37	0.16	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Styrene	<0.023		0.074	0.023	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Tetrachloroethene	<0.029		0.074	0.029	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Toluene	**0.028**		0.018	0.016	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Xylenes, Total	**0.047**		0.037	0.017	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
trans-1,2-Dichloroethene	<0.033		0.074	0.033	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Trichloroethene	<0.011		0.037	0.011	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50
Vinyl chloride	<0.035		0.074	0.035	mg/Kg	☼	09/03/24 10:57	09/13/24 18:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*	*09/03/24 10:57*	*09/13/24 18:34*	*50*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*09/03/24 10:57*	*09/13/24 18:34*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*09/03/24 10:57*	*09/13/24 18:34*	*50*
Toluene-d8 (Surr)	*89*		*75 - 120*	*09/03/24 10:57*	*09/13/24 18:34*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.013		0.061	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Acenaphthylene	<0.010		0.061	0.010	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Anthracene	<0.013		0.061	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Benzo[a]anthracene	**0.032**	**J**	0.061	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Benzo[a]pyrene	<0.060		0.061	0.060	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Benzo[b]fluoranthene	<0.059		0.061	0.059	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Benzo[g,h,i]perylene	**0.016**	**J**	0.061	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB27 (5-7.5)
Lab Sample ID: 500-256095-8
Date Collected: 09/03/24 10:57
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 79.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.023		0.061	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Chrysene	**0.046**	**J**	0.061	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Dibenz(a,h)anthracene	<0.061		0.061	0.061	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Fluoranthene	**0.052**	**J**	0.061	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Fluorene	<0.018		0.061	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Indeno[1,2,3-cd]pyrene	<0.060		0.061	0.060	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Naphthalene	**0.024**	**J**	0.061	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Phenanthrene	**0.19**		0.061	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Pyrene	**0.037**	**J**	0.061	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
1,2,4-Trichlorobenzene	<0.044		0.31	0.044	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
1,2-Dichlorobenzene	<0.025		0.31	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
1,3-Dichlorobenzene	<0.028		0.31	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
1,4-Dichlorobenzene	<0.029		0.31	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2,4,5-Trichlorophenol	<0.023		0.61	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2,4,6-Trichlorophenol	<0.021		0.61	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2,4-Dichlorophenol	<0.022		0.61	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2,4-Dimethylphenol	<0.14		0.61	0.14	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2,4-Dinitrophenol	<0.36		1.2	0.36	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2,4-Dinitrotoluene	<0.035		0.31	0.035	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2,6-Dinitrotoluene	<0.021		0.31	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2-Chloronaphthalene	<0.023		0.31	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2-Chlorophenol	<0.020		0.31	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2-Methylnaphthalene	**0.062**	**J**	0.12	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2-Methylphenol	<0.033		0.31	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2-Nitroaniline	<0.033		0.31	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
2-Nitrophenol	<0.042		0.61	0.042	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
3,3'-Dichlorobenzidine	<0.050		0.31	0.050	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
3 & 4 Methylphenol	<0.045		0.31	0.045	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
3-Nitroaniline	<0.028		0.61	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
4,6-Dinitro-2-methylphenol	<0.35		1.2	0.35	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
4-Bromophenyl phenyl ether	<0.042		0.31	0.042	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
4-Chloro-3-methylphenol	<0.024		0.61	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
4-Chloroaniline	<0.65		1.2	0.65	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
4-Chlorophenyl phenyl ether	<0.081		0.31	0.081	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
4-Nitroaniline	<0.046		0.61	0.046	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
4-Nitrophenol	<0.23		1.2	0.23	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Bis(2-chloroethoxy)methane	<0.023		0.31	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Bis(2-chloroethyl)ether	<0.028		0.31	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
bis(chloroisopropyl) ether	<0.044		0.31	0.044	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Bis(2-ethylhexyl) phthalate	<0.24		0.31	0.24	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Butyl benzyl phthalate	<0.031		0.31	0.031	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Carbazole	<0.024		0.31	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Dibenzofuran	<0.022		0.31	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Diethyl phthalate	<0.028		0.31	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Dimethyl phthalate	<0.013		0.31	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Di-n-butyl phthalate	<0.020		0.31	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Di-n-octyl phthalate	<0.43		0.61	0.43	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Hexachlorobenzene	<0.012		0.12	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Hexachlorobutadiene	<0.035		0.31	0.035	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1

Client Sample ID: SB27 (5-7.5)
Lab Sample ID: 500-256095-8
Date Collected: 09/03/24 10:57
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 79.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.65		1.2	0.65	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Hexachloroethane	<0.031		0.31	0.031	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Isophorone	<0.032		0.31	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Nitrobenzene	<0.020		0.061	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
N-Nitrosodi-n-propylamine	<0.012		0.12	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
N-Nitrosodiphenylamine	<0.037		0.31	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Pentachlorophenol	<0.15		1.2	0.15	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1
Phenol	<0.027		0.31	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*51*		*31 - 166*	*09/13/24 12:05*	*09/16/24 13:08*	*1*
Phenol-d5 (Surr)	*61*		*30 - 153*	*09/13/24 12:05*	*09/16/24 13:08*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*09/13/24 12:05*	*09/16/24 13:08*	*1*
2-Fluorobiphenyl (Surr)	*77*		*43 - 145*	*09/13/24 12:05*	*09/16/24 13:08*	*1*
2,4,6-Tribromophenol (Surr)	*19*	*S1-*	*31 - 143*	*09/13/24 12:05*	*09/16/24 13:08*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*09/13/24 12:05*	*09/16/24 13:08*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	**33**		3.0		mg/Kg	☼	09/03/24 10:57	09/06/24 07:33	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*09/03/24 10:57*	*09/06/24 07:33*	*100*
4-Bromofluorobenzene	*107*		*60 - 130*	*09/03/24 10:57*	*09/06/24 07:33*	*100*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**22**		10		mg/Kg	☼	09/09/24 07:38	09/11/24 03:09	1
Oil Range Organics (C28-C36)	**25**		21		mg/Kg	☼	09/09/24 07:38	09/11/24 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*50 - 126*	*09/09/24 07:38*	*09/11/24 03:09*	*1*
2-Fluorobiphenyl (Surr)	*65*		*40 - 133*	*09/09/24 07:38*	*09/11/24 03:09*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0055		0.010	0.0055	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
4,4'-DDE	<0.0053		0.010	0.0053	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
4,4'-DDT	<0.0048		0.010	0.0048	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
Aldrin	<0.0071		0.010	0.0071	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
alpha-BHC	<0.0057		0.010	0.0057	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
alpha-Chlordane	<0.0055		0.010	0.0055	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
beta-BHC	<0.0082		0.010	0.0082	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
Chlordane (technical)	<0.019		0.040	0.019	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
delta-BHC	<0.0049		0.010	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
Dieldrin	<0.0053		0.010	0.0053	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
Endosulfan I	<0.0055		0.010	0.0055	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
Endosulfan II	<0.0056		0.010	0.0056	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
Endosulfan sulfate	<0.0056		0.010	0.0056	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
Endrin	<0.0052		0.010	0.0052	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
Endrin aldehyde	<0.0058		0.010	0.0058	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5

Client Sample ID: SB27 (5-7.5)
Lab Sample ID: 500-256095-8
Date Collected: 09/03/24 10:57
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 79.9

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	<0.0050		0.010	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
gamma-BHC (Lindane)	<0.0051		0.010	0.0051	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
gamma-Chlordane	<0.0059		0.010	0.0059	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
Heptachlor	<0.0055		0.010	0.0055	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
Heptachlor epoxide	<0.0055		0.010	0.0055	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
Methoxychlor	<0.0067		0.050	0.0067	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5
Toxaphene	<0.041		0.10	0.041	mg/Kg	☼	09/13/24 07:40	09/19/24 13:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*33 - 148*	*09/13/24 07:40*	*09/19/24 13:59*	*5*
Tetrachloro-m-xylene	*121*		*30 - 121*	*09/13/24 07:40*	*09/19/24 13:59*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.020		0.020		mg/Kg	☼	09/13/24 07:40	09/18/24 21:29	1
PCB-1221	<0.020		0.020		mg/Kg	☼	09/13/24 07:40	09/18/24 21:29	1
PCB-1232	<0.020		0.020		mg/Kg	☼	09/13/24 07:40	09/18/24 21:29	1
PCB-1242	<0.020		0.020		mg/Kg	☼	09/13/24 07:40	09/18/24 21:29	1
PCB-1248	<0.020		0.020		mg/Kg	☼	09/13/24 07:40	09/18/24 21:29	1
PCB-1254	<0.020		0.020		mg/Kg	☼	09/13/24 07:40	09/18/24 21:29	1
PCB-1260	<0.020		0.020		mg/Kg	☼	09/13/24 07:40	09/18/24 21:29	1
Polychlorinated biphenyls, Total	<0.020		0.020		mg/Kg	☼	09/13/24 07:40	09/18/24 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*49 - 129*	*09/13/24 07:40*	*09/18/24 21:29*	*1*
DCB Decachlorobiphenyl	*92*		*37 - 121*	*09/13/24 07:40*	*09/18/24 21:29*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		25		mg/Kg	☼	09/16/24 15:04	09/18/24 01:03	1
Antimony	<12	F1	12		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5
Arsenic	<6.2	F2	6.2		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5
Barium	**180**	**F1**	6.2		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5
Beryllium	**4.2**	**F1**	2.5		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5
Cadmium	**1.3**		1.2		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5
Calcium	**36000**	**F2**	25		mg/Kg	☼	09/16/24 15:04	09/18/24 01:03	1
Chromium	**15**	**F1 F2**	1.2		mg/Kg	☼	09/16/24 15:04	09/18/24 01:03	1
Cobalt	**8.6**		0.62		mg/Kg	☼	09/16/24 15:04	09/18/24 01:03	1
Copper	**19**		6.2		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5
Iron	**59000**		25		mg/Kg	☼	09/18/24 16:16	09/19/24 13:14	1
Lead	**39**	**F1 F2**	3.1		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5
Magnesium	**2000**	**F1 F2**	12		mg/Kg	☼	09/16/24 15:04	09/18/24 01:03	1
Manganese	**3700**	**F2**	6.2		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5
Nickel	**6.7**		6.2		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5
Potassium	**1300**	**F1**	62		mg/Kg	☼	09/16/24 15:04	09/18/24 01:03	1
Selenium	<6.2		6.2		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5
Silver	<3.1	F1 F2	3.1		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5
Sodium	**670**	**F1**	120		mg/Kg	☼	09/16/24 15:04	09/18/24 01:03	1
Thallium	**23**	**F1 F2**	6.2		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5
Vanadium	**37**	**F1 F2**	3.1		mg/Kg	☼	09/16/24 15:04	09/18/24 13:56	5

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB27 (5-7.5)
Date Collected: 09/03/24 10:57
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-8
Matrix: Solid
Percent Solids: 79.9

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	140	F1 F2	2.5		mg/Kg	☼	09/16/24 15:04	09/18/24 01:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020		mg/Kg	☼	09/18/24 16:35	09/19/24 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	5.9		0.29		mg/Kg	☼	09/05/24 12:32	09/08/24 12:22	1
pH (SW846 9045D)	8.59		0.20		SU			09/06/24 11:56	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB28 (0-3)

Date Collected: 09/03/24 12:08
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-9

Matrix: Solid
Percent Solids: 89.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.027		0.060	0.027	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
1,1,2,2-Tetrachloroethane	<0.039		0.060	0.039	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
1,1,2-Trichloroethane	<0.044		0.060	0.044	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
1,1-Dichloroethane	<0.022		0.060	0.022	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
1,1-Dichloroethene	<0.029		0.060	0.029	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
1,2-Dichloroethane	<0.034		0.060	0.034	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
1,2-Dichloropropane	<0.022		0.060	0.022	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
2-Butanone (MEK)	<0.18		0.30	0.18	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
2-Hexanone	<0.17		0.30	0.17	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
4-Methyl-2-pentanone (MIBK)	<0.16		0.30	0.16	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Acetone	<0.43		0.60	0.43	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Benzene	<0.0073		0.015	0.0073	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Bromodichloromethane	<0.034		0.060	0.034	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Bromoform	<0.057		0.060	0.057	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Bromomethane	<0.11		0.18	0.11	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Carbon disulfide	<0.064		0.12	0.064	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Carbon tetrachloride	<0.025		0.060	0.025	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Chlorobenzene	<0.025		0.060	0.025	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Chloroethane	<0.028		0.30	0.028	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Chloroform	<0.055		0.12	0.055	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Chloromethane	<0.047		0.30	0.047	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
cis-1,2-Dichloroethene	<0.025		0.060	0.025	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
1,3-Dichloropropene, Total	<0.038		0.060	0.038	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Dibromochloromethane	<0.049		0.060	0.049	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Ethylbenzene	**0.042**		0.015	0.010	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Methyl tert-butyl ether	<0.026		0.060	0.026	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Methylene Chloride	<0.13		0.30	0.13	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Styrene	<0.018		0.060	0.018	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Tetrachloroethene	<0.023		0.060	0.023	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Toluene	**0.040**		0.015	0.013	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Xylenes, Total	**0.090**		0.030	0.014	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
trans-1,2-Dichloroethene	<0.026		0.060	0.026	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Trichloroethene	<0.0089		0.030	0.0089	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50
Vinyl chloride	<0.028		0.060	0.028	mg/Kg	☼	09/03/24 12:08	09/13/24 18:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*09/03/24 12:08*	*09/13/24 18:58*	*50*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*09/03/24 12:08*	*09/13/24 18:58*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*09/03/24 12:08*	*09/13/24 18:58*	*50*
Toluene-d8 (Surr)	*89*		*75 - 120*	*09/03/24 12:08*	*09/13/24 18:58*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.013**	**J**	0.054	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Acenaphthylene	**0.017**	**J**	0.054	0.0092	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Anthracene	**0.041**	**J**	0.054	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Benzo[a]anthracene	**0.18**		0.054	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Benzo[a]pyrene	**0.17**		0.054	0.052	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Benzo[b]fluoranthene	**0.30**		0.054	0.052	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Benzo[g,h,i]perylene	**0.12**		0.054	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB28 (0-3)
Lab Sample ID: 500-256095-9
Date Collected: 09/03/24 12:08
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 89.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.11**		0.054	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Chrysene	**0.22**		0.054	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Dibenz(a,h)anthracene	<0.054		0.054	0.054	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Fluoranthene	**0.34**		0.054	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Fluorene	<0.016		0.054	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Indeno[1,2,3-cd]pyrene	**0.12**		0.054	0.053	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Naphthalene	**0.025**	**J**	0.054	0.0098	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Phenanthrene	**0.30**		0.054	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Pyrene	**0.34**		0.054	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
1,2,4-Trichlorobenzene	<0.039		0.27	0.039	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
1,2-Dichlorobenzene	<0.022		0.27	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
1,3-Dichlorobenzene	<0.025		0.27	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
1,4-Dichlorobenzene	<0.026		0.27	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2,4,5-Trichlorophenol	<0.020		0.54	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2,4,6-Trichlorophenol	<0.018		0.54	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2,4-Dichlorophenol	<0.019		0.54	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2,4-Dimethylphenol	<0.12		0.54	0.12	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2,4-Dinitrophenol	<0.31		1.1	0.31	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2,4-Dinitrotoluene	<0.031		0.27	0.031	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2,6-Dinitrotoluene	<0.018		0.27	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2-Chloronaphthalene	<0.020		0.27	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2-Chlorophenol	<0.017		0.27	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2-Methylnaphthalene	**0.035**	**J**	0.11	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2-Methylphenol	<0.029		0.27	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2-Nitroaniline	<0.029		0.27	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
2-Nitrophenol	<0.037		0.54	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
3,3'-Dichlorobenzidine	<0.044		0.27	0.044	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
3 & 4 Methylphenol	<0.040		0.27	0.040	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
3-Nitroaniline	<0.025		0.54	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
4,6-Dinitro-2-methylphenol	<0.31		1.1	0.31	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
4-Bromophenyl phenyl ether	<0.037		0.27	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
4-Chloro-3-methylphenol	<0.021		0.54	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
4-Chloroaniline	<0.57		1.1	0.57	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
4-Chlorophenyl phenyl ether	<0.071		0.27	0.071	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
4-Nitroaniline	<0.040		0.54	0.040	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
4-Nitrophenol	<0.20		1.1	0.20	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Bis(2-chloroethoxy)methane	<0.020		0.27	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Bis(2-chloroethyl)ether	<0.025		0.27	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
bis(chloroisopropyl) ether	<0.039		0.27	0.039	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Bis(2-ethylhexyl) phthalate	<0.21		0.27	0.21	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Butyl benzyl phthalate	<0.027		0.27	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Carbazole	<0.021		0.27	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Dibenzofuran	**0.024**	**J**	0.27	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Diethyl phthalate	<0.025		0.27	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Dimethyl phthalate	<0.012		0.27	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Di-n-butyl phthalate	<0.017		0.27	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Di-n-octyl phthalate	<0.38		0.54	0.38	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Hexachlorobenzene	<0.010		0.11	0.010	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Hexachlorobutadiene	<0.031		0.27	0.031	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1

Client Sample ID: SB28 (0-3)
Lab Sample ID: 500-256095-9
Date Collected: 09/03/24 12:08
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 89.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.58		1.1	0.58	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Hexachloroethane	<0.027		0.27	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Isophorone	<0.028		0.27	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Nitrobenzene	<0.017		0.054	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
N-Nitrosodi-n-propylamine	<0.011		0.11	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
N-Nitrosodiphenylamine	<0.032		0.27	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Pentachlorophenol	<0.14		1.1	0.14	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1
Phenol	<0.024		0.27	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*40*		*31 - 166*	*09/13/24 12:05*	*09/16/24 13:33*	*1*
Phenol-d5 (Surr)	*44*		*30 - 153*	*09/13/24 12:05*	*09/16/24 13:33*	*1*
Nitrobenzene-d5 (Surr)	*45*		*37 - 147*	*09/13/24 12:05*	*09/16/24 13:33*	*1*
2-Fluorobiphenyl (Surr)	*51*		*43 - 145*	*09/13/24 12:05*	*09/16/24 13:33*	*1*
2,4,6-Tribromophenol (Surr)	*37*		*31 - 143*	*09/13/24 12:05*	*09/16/24 13:33*	*1*
Terphenyl-d14 (Surr)	*64*		*42 - 157*	*09/13/24 12:05*	*09/16/24 13:33*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0096		0.018	0.0096	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
4,4'-DDE	<0.0092		0.018	0.0092	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
4,4'-DDT	<0.0085		0.018	0.0085	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
alpha-Chlordane	<0.0096		0.018	0.0096	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
delta-BHC	<0.0086		0.018	0.0086	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Dieldrin	<0.0094		0.018	0.0094	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Endosulfan I	<0.0097		0.018	0.0097	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Endosulfan II	<0.0098		0.018	0.0098	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Endosulfan sulfate	<0.0099		0.018	0.0099	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Endrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Endrin ketone	<0.0087		0.018	0.0087	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
gamma-BHC (Lindane)	<0.0089		0.018	0.0089	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Heptachlor	<0.0097		0.018	0.0097	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Heptachlor epoxide	<0.0097		0.018	0.0097	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Methoxychlor	<0.012		0.088	0.012	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/13/24 07:40	09/19/24 14:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*143*		*33 - 148*	*09/13/24 07:40*	*09/19/24 14:11*	*10*
Tetrachloro-m-xylene	*82*		*30 - 121*	*09/13/24 07:40*	*09/19/24 14:11*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:44	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:44	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB28 (0-3)

Date Collected: 09/03/24 12:08
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-9

Matrix: Solid
Percent Solids: 89.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:44	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:44	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:44	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:44	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:44	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*131*	*S1+*	*49 - 129*	*09/13/24 07:40*	*09/18/24 21:44*	*1*
DCB Decachlorobiphenyl	*77*		*37 - 121*	*09/13/24 07:40*	*09/18/24 21:44*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8200**		21		mg/Kg	☼	09/16/24 15:04	09/18/24 01:26	1
Antimony	<11		11		mg/Kg	☼	09/16/24 15:04	09/18/24 14:27	5
Arsenic	<5.3		5.3		mg/Kg	☼	09/16/24 15:04	09/18/24 14:27	5
Barium	**340**		5.4		mg/Kg	☼	09/18/24 16:16	09/19/24 13:45	5
Beryllium	**2.6**		2.2		mg/Kg	☼	09/18/24 16:16	09/19/24 13:45	5
Cadmium	<1.1		1.1		mg/Kg	☼	09/18/24 16:16	09/19/24 13:45	5
Calcium	**23000**		21		mg/Kg	☼	09/16/24 15:04	09/18/24 01:26	1
Chromium	**74**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:26	1
Cobalt	**12**		0.53		mg/Kg	☼	09/16/24 15:04	09/18/24 01:26	1
Copper	**39**		5.4		mg/Kg	☼	09/18/24 16:16	09/19/24 13:45	5
Iron	**250000**		110		mg/Kg	☼	09/18/24 16:16	09/19/24 13:45	5
Lead	**44**		2.7		mg/Kg	☼	09/18/24 16:16	09/19/24 13:45	5
Magnesium	**2500**		11		mg/Kg	☼	09/16/24 15:04	09/18/24 01:26	1
Manganese	**5700**		5.4		mg/Kg	☼	09/18/24 16:16	09/19/24 13:45	5
Nickel	**21**		5.4		mg/Kg	☼	09/18/24 16:16	09/19/24 13:45	5
Potassium	**110**		53		mg/Kg	☼	09/16/24 15:04	09/18/24 01:26	1
Selenium	**6.6**		5.4		mg/Kg	☼	09/18/24 16:16	09/19/24 13:45	5
Silver	<2.7		2.7		mg/Kg	☼	09/16/24 15:04	09/18/24 14:27	5
Sodium	**180**		110		mg/Kg	☼	09/16/24 15:04	09/18/24 01:26	1
Thallium	<5.4		5.4		mg/Kg	☼	09/18/24 16:16	09/19/24 13:45	5
Vanadium	**46**		2.7		mg/Kg	☼	09/18/24 16:16	09/19/24 13:45	5
Zinc	**100**		2.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**		0.018		mg/Kg	☼	09/18/24 16:35	09/19/24 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.7**		0.26		mg/Kg	☼	09/05/24 12:32	09/08/24 12:24	1
pH (SW846 9045D)	**9.04**		0.20		SU			09/06/24 11:59	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB28 (10-12.5)

Date Collected: 09/03/24 12:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-10

Matrix: Solid
Percent Solids: 83.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00079		0.0020	0.00079	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
1,1,2,2-Tetrachloroethane	<0.00097		0.0020	0.00097	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
1,1,2-Trichloroethane	<0.00073		0.0020	0.00073	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
1,1-Dichloroethane	<0.00073		0.0020	0.00073	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
1,1-Dichloroethene	<0.00080		0.0020	0.00080	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
1,2-Dichloroethane	<0.0013		0.0049	0.0013	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
1,2-Dichloropropane	<0.00050		0.0020	0.00050	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
2-Butanone (MEK)	**0.0045**	**J**	0.0049	0.0021	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
2-Hexanone	<0.0030		0.0049	0.0030	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0049	0.0035	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Acetone	**0.011**	**J**	0.020	0.0082	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Benzene	**0.0067**		0.0020	0.00061	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Bromodichloromethane	<0.00063		0.0020	0.00063	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Bromoform	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Bromomethane	<0.0024		0.0049	0.0024	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Carbon disulfide	**0.0014**	**J**	0.0049	0.00090	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Carbon tetrachloride	<0.00066		0.0020	0.00066	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Chlorobenzene	<0.00082		0.0020	0.00082	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Chloroethane	<0.0016		0.0049	0.0016	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Chloromethane	<0.00095		0.0049	0.00095	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
cis-1,2-Dichloroethene	<0.00079		0.0020	0.00079	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
1,3-Dichloropropene, Total	<0.00094		0.0020	0.00094	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Dibromochloromethane	<0.00090		0.0020	0.00090	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Ethylbenzene	**0.0037**		0.0020	0.0010	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Methyl tert-butyl ether	<0.00063		0.0020	0.00063	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Methylene Chloride	<0.0021		0.0049	0.0021	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Styrene	<0.00088		0.0020	0.00088	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Toluene	**0.0071**		0.0020	0.00039	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Xylenes, Total	**0.0031**	**J**	0.0039	0.00067	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
trans-1,2-Dichloroethene	<0.00074		0.0020	0.00074	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Trichloroethene	<0.00053		0.0020	0.00053	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1
Vinyl chloride	<0.00080		0.0020	0.00080	mg/Kg	☼	09/04/24 18:07	09/11/24 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/04/24 18:07*	*09/11/24 19:04*	*1*
4-Bromofluorobenzene (Surr)	*130*		*75 - 131*	*09/04/24 18:07*	*09/11/24 19:04*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*09/04/24 18:07*	*09/11/24 19:04*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*09/04/24 18:07*	*09/11/24 19:04*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.012**	**J**	0.039	0.0081	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Acenaphthylene	<0.0067		0.039	0.0067	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Anthracene	**0.013**	**J**	0.039	0.0081	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Benzo[a]anthracene	<0.0084		0.039	0.0084	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Benzo[a]pyrene	<0.038		0.039	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Benzo[b]fluoranthene	<0.038		0.039	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Benzo[g,h,i]perylene	**0.014**	**J**	0.039	0.0086	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB28 (10-12.5)
Lab Sample ID: 500-256095-10
Date Collected: 09/03/24 12:30
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 83.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.015		0.039	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Chrysene	<0.010		0.039	0.010	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Fluoranthene	**0.056**		0.039	0.0092	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Fluorene	<0.012		0.039	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.039	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Naphthalene	**0.025**	**J**	0.039	0.0072	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Phenanthrene	**0.13**		0.039	0.0086	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Pyrene	**0.048**		0.039	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
1,2,4-Trichlorobenzene	<0.028		0.20	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
1,2-Dichlorobenzene	<0.016		0.20	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
1,3-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
1,4-Dichlorobenzene	<0.019		0.20	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2,4,5-Trichlorophenol	<0.015		0.39	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2,4,6-Trichlorophenol	<0.014		0.39	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2,4-Dichlorophenol	<0.014		0.39	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2,4-Dimethylphenol	<0.089		0.39	0.089	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2,4-Dinitrophenol	<0.23		0.80	0.23	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2,4-Dinitrotoluene	<0.023		0.20	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2,6-Dinitrotoluene	<0.014		0.20	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2-Chloronaphthalene	<0.015		0.20	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2-Chlorophenol	<0.013		0.20	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2-Methylnaphthalene	**0.021**	**J**	0.080	0.0080	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2-Methylphenol	<0.021		0.20	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2-Nitroaniline	<0.021		0.20	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
2-Nitrophenol	<0.027		0.39	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
3,3'-Dichlorobenzidine	<0.032		0.20	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
3 & 4 Methylphenol	<0.029		0.20	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
3-Nitroaniline	<0.018		0.39	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
4,6-Dinitro-2-methylphenol	<0.22		0.80	0.22	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
4-Bromophenyl phenyl ether	<0.027		0.20	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
4-Chloro-3-methylphenol	<0.015		0.39	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
4-Chloroaniline	<0.42		0.80	0.42	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
4-Chlorophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
4-Nitroaniline	<0.029		0.39	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
4-Nitrophenol	<0.15		0.80	0.15	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Bis(2-chloroethoxy)methane	<0.015		0.20	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Bis(2-chloroethyl)ether	<0.018		0.20	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
bis(chloroisopropyl) ether	<0.028		0.20	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Bis(2-ethylhexyl) phthalate	<0.16		0.20	0.16	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Butyl benzyl phthalate	<0.020		0.20	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Carbazole	<0.016		0.20	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Dibenzofuran	<0.014		0.20	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Diethyl phthalate	<0.018		0.20	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Dimethyl phthalate	<0.0086		0.20	0.0086	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Di-n-butyl phthalate	<0.013		0.20	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Di-n-octyl phthalate	<0.28		0.39	0.28	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Hexachlorobenzene	<0.0076		0.080	0.0076	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Hexachlorobutadiene	<0.022		0.20	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB28 (10-12.5)
Date Collected: 09/03/24 12:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-10
Matrix: Solid
Percent Solids: 83.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.42		0.80	0.42	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Hexachloroethane	<0.020		0.20	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Isophorone	<0.020		0.20	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Nitrobenzene	<0.013		0.039	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
N-Nitrosodi-n-propylamine	<0.0078		0.080	0.0078	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
N-Nitrosodiphenylamine	<0.024		0.20	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Pentachlorophenol	<0.099		0.80	0.099	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1
Phenol	<0.017		0.20	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*65*		*31 - 166*	*09/13/24 12:05*	*09/16/24 13:58*	*1*
Phenol-d5 (Surr)	*67*		*30 - 153*	*09/13/24 12:05*	*09/16/24 13:58*	*1*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*09/13/24 12:05*	*09/16/24 13:58*	*1*
2-Fluorobiphenyl (Surr)	*66*		*43 - 145*	*09/13/24 12:05*	*09/16/24 13:58*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*31 - 143*	*09/13/24 12:05*	*09/16/24 13:58*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*09/13/24 12:05*	*09/16/24 13:58*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0052		0.0097	0.0052	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
4,4'-DDE	<0.0050		0.0097	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
4,4'-DDT	<0.0046		0.0097	0.0046	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Aldrin	<0.0067		0.0097	0.0067	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
alpha-BHC	<0.0054		0.0097	0.0054	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
alpha-Chlordane	<0.0051		0.0097	0.0051	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
beta-BHC	<0.0078		0.0097	0.0078	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Chlordane (technical)	<0.018		0.038	0.018	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
delta-BHC	<0.0046		0.0097	0.0046	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Dieldrin	<0.0050		0.0097	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Endosulfan I	<0.0052		0.0097	0.0052	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Endosulfan II	<0.0053		0.0097	0.0053	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Endosulfan sulfate	<0.0053		0.0097	0.0053	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Endrin	<0.0049		0.0097	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Endrin aldehyde	<0.0055		0.0097	0.0055	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Endrin ketone	<0.0047		0.0097	0.0047	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
gamma-BHC (Lindane)	<0.0048		0.0097	0.0048	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
gamma-Chlordane	<0.0055		0.0097	0.0055	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Heptachlor	<0.0052		0.0097	0.0052	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Heptachlor epoxide	<0.0052		0.0097	0.0052	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Methoxychlor	<0.0063		0.047	0.0063	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5
Toxaphene	<0.038		0.095	0.038	mg/Kg	☼	09/13/24 07:40	09/19/24 14:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*33 - 148*	*09/13/24 07:40*	*09/19/24 14:23*	*5*
Tetrachloro-m-xylene	*161*	*S1+*	*30 - 121*	*09/13/24 07:40*	*09/19/24 14:23*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 21:59	1
PCB-1221	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 21:59	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB28 (10-12.5)

Date Collected: 09/03/24 12:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-10

Matrix: Solid
Percent Solids: 83.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 21:59	1
PCB-1242	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 21:59	1
PCB-1248	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 21:59	1
PCB-1254	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 21:59	1
PCB-1260	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 21:59	1
Polychlorinated biphenyls, Total	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*49 - 129*	*09/13/24 07:40*	*09/18/24 21:59*	*1*
DCB Decachlorobiphenyl	*113*		*37 - 121*	*09/13/24 07:40*	*09/18/24 21:59*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		22		mg/Kg	☼	09/16/24 15:04	09/18/24 01:30	1
Antimony	<2.2		2.2		mg/Kg	☼	09/16/24 15:04	09/18/24 01:30	1
Arsenic	**7.6**		5.4		mg/Kg	☼	09/16/24 15:04	09/18/24 14:31	5
Barium	**290**		5.4		mg/Kg	☼	09/16/24 15:04	09/18/24 14:31	5
Beryllium	**2.7**		2.3		mg/Kg	☼	09/18/24 16:16	09/19/24 13:53	5
Cadmium	<0.22		0.22		mg/Kg	☼	09/16/24 15:04	09/18/24 01:30	1
Calcium	**100000**		110		mg/Kg	☼	09/16/24 15:04	09/18/24 14:31	5
Chromium	**18**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:30	1
Cobalt	**6.1**		0.54		mg/Kg	☼	09/16/24 15:04	09/18/24 01:30	1
Copper	**18**		5.4		mg/Kg	☼	09/16/24 15:04	09/18/24 14:31	5
Iron	**97000**		110		mg/Kg	☼	09/18/24 16:16	09/19/24 13:53	5
Lead	**13**		2.7		mg/Kg	☼	09/16/24 15:04	09/18/24 14:31	5
Magnesium	**3800**		11		mg/Kg	☼	09/16/24 15:04	09/18/24 01:30	1
Manganese	**4500**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:30	1
Nickel	**8.1**		5.4		mg/Kg	☼	09/16/24 15:04	09/18/24 14:31	5
Potassium	**1900**		54		mg/Kg	☼	09/16/24 15:04	09/18/24 01:30	1
Selenium	**7.3**		5.7		mg/Kg	☼	09/18/24 16:16	09/19/24 13:53	5
Silver	<2.7		2.7		mg/Kg	☼	09/16/24 15:04	09/18/24 14:31	5
Sodium	**770**		110		mg/Kg	☼	09/16/24 15:04	09/18/24 01:30	1
Thallium	**31**		5.4		mg/Kg	☼	09/16/24 15:04	09/18/24 14:31	5
Vanadium	**44**		2.7		mg/Kg	☼	09/16/24 15:04	09/18/24 14:31	5
Zinc	**48**		2.2		mg/Kg	☼	09/16/24 15:04	09/18/24 01:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/18/24 16:35	09/19/24 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**3.1**		0.28		mg/Kg	☼	09/05/24 12:32	09/08/24 12:25	1
pH (SW846 9045D)	**8.61**		0.20		SU			09/06/24 12:01	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB29 (0-3)
Date Collected: 09/03/24 13:18
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-11
Matrix: Solid
Percent Solids: 84.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.022**		0.0034	0.0014	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0034	0.0017	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
1,1,2-Trichloroethane	<0.0013		0.0034	0.0013	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
1,1-Dichloroethane	<0.0013		0.0034	0.0013	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
1,1-Dichloroethene	<0.0014		0.0034	0.0014	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
1,2-Dichloroethane	<0.0022		0.0084	0.0022	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
1,2-Dichloropropane	<0.00087		0.0034	0.00087	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
2-Butanone (MEK)	<0.0037		0.0084	0.0037	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
2-Hexanone	<0.0051		0.0084	0.0051	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0084	0.0060	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Acetone	<0.014		0.034	0.014	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Benzene	<0.0011		0.0034	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Bromodichloromethane	<0.0011		0.0034	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Bromoform	<0.0020		0.0034	0.0020	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Bromomethane	<0.0042		0.0084	0.0042	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Carbon disulfide	**0.0029**	**J**	0.0084	0.0016	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Carbon tetrachloride	<0.0011		0.0034	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Chlorobenzene	<0.0014		0.0034	0.0014	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Chloroethane	<0.0028		0.0084	0.0028	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Chloroform	<0.0024		0.0034	0.0024	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Chloromethane	<0.0016		0.0084	0.0016	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
cis-1,2-Dichloroethene	<0.0014		0.0034	0.0014	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
1,3-Dichloropropene, Total	<0.0016		0.0034	0.0016	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Dibromochloromethane	<0.0016		0.0034	0.0016	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Ethylbenzene	<0.0018		0.0034	0.0018	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Methyl tert-butyl ether	<0.0011		0.0034	0.0011	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Methylene Chloride	<0.0036		0.0084	0.0036	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Styrene	<0.0015		0.0034	0.0015	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Tetrachloroethene	<0.0019		0.0034	0.0019	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Toluene	<0.00068		0.0034	0.00068	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Xylenes, Total	<0.0012		0.0067	0.0012	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
trans-1,2-Dichloroethene	<0.0013		0.0034	0.0013	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Trichloroethene	<0.00092		0.0034	0.00092	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1
Vinyl chloride	<0.0014		0.0034	0.0014	mg/Kg	☼	09/04/24 18:07	09/11/24 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/04/24 18:07*	*09/11/24 19:29*	*1*
4-Bromofluorobenzene (Surr)	*131*		*75 - 131*	*09/04/24 18:07*	*09/11/24 19:29*	*1*
Dibromofluoromethane	*113*		*75 - 126*	*09/04/24 18:07*	*09/11/24 19:29*	*1*
Toluene-d8 (Surr)	*129*	*S1+*	*75 - 124*	*09/04/24 18:07*	*09/11/24 19:29*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0078		0.038	0.0078	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Acenaphthylene	**0.019**	**J**	0.038	0.0065	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Anthracene	**0.050**		0.038	0.0078	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Benzo[a]anthracene	**0.21**		0.038	0.0081	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Benzo[a]pyrene	**0.13**		0.038	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Benzo[b]fluoranthene	**0.25**		0.038	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Benzo[g,h,i]perylene	**0.093**		0.038	0.0083	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB29 (0-3)
Lab Sample ID: 500-256095-11
Date Collected: 09/03/24 13:18
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 84.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.079**		0.038	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Chrysene	**0.28**		0.038	0.010	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Fluoranthene	**0.38**		0.038	0.0089	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Fluorene	<0.011		0.038	0.011	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Indeno[1,2,3-cd]pyrene	**0.084**		0.038	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Naphthalene	**0.061**		0.038	0.0069	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Phenanthrene	**1.4**		0.038	0.0083	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Pyrene	**0.32**		0.038	0.010	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
1,2-Dichlorobenzene	<0.016		0.19	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2,4,5-Trichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2,4,6-Trichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2,4-Dichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2,4-Dimethylphenol	<0.086		0.38	0.086	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2,4-Dinitrophenol	<0.22		0.77	0.22	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2,4-Dinitrotoluene	<0.022		0.19	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2-Methylnaphthalene	**0.19**		0.077	0.0077	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2-Nitroaniline	<0.021		0.19	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
2-Nitrophenol	<0.026		0.38	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
3 & 4 Methylphenol	<0.028		0.19	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
3-Nitroaniline	<0.017		0.38	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
4,6-Dinitro-2-methylphenol	<0.22		0.77	0.22	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
4-Chloro-3-methylphenol	<0.015		0.38	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
4-Chloroaniline	<0.40		0.77	0.40	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
4-Chlorophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
4-Nitroaniline	<0.028		0.38	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
4-Nitrophenol	<0.14		0.77	0.14	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Bis(2-chloroethyl)ether	<0.018		0.19	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
bis(chloroisopropyl) ether	<0.028		0.19	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Carbazole	**0.032**	**J**	0.19	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Dibenzofuran	**0.071**	**J**	0.19	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Diethyl phthalate	<0.018		0.19	0.018	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Dimethyl phthalate	<0.0083		0.19	0.0083	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Di-n-octyl phthalate	<0.27		0.38	0.27	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Hexachlorobenzene	<0.0074		0.077	0.0074	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Hexachlorobutadiene	<0.022		0.19	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1

Client Sample ID: SB29 (0-3)
Lab Sample ID: 500-256095-11
Date Collected: 09/03/24 13:18
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 84.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.41		0.77	0.41	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Isophorone	<0.020		0.19	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Nitrobenzene	<0.012		0.038	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
N-Nitrosodi-n-propylamine	<0.0076		0.077	0.0076	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
N-Nitrosodiphenylamine	**0.071**	**J**	0.19	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Pentachlorophenol	<0.096		0.77	0.096	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1
Phenol	<0.017		0.19	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*70*		*31 - 166*	*09/13/24 12:05*	*09/16/24 14:23*	*1*
Phenol-d5 (Surr)	*73*		*30 - 153*	*09/13/24 12:05*	*09/16/24 14:23*	*1*
Nitrobenzene-d5 (Surr)	*71*		*37 - 147*	*09/13/24 12:05*	*09/16/24 14:23*	*1*
2-Fluorobiphenyl (Surr)	*79*		*43 - 145*	*09/13/24 12:05*	*09/16/24 14:23*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*31 - 143*	*09/13/24 12:05*	*09/16/24 14:23*	*1*
Terphenyl-d14 (Surr)	*84*		*42 - 157*	*09/13/24 12:05*	*09/16/24 14:23*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0050		0.0094	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
4,4'-DDE	<0.0048		0.0094	0.0048	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
4,4'-DDT	<0.0045		0.0094	0.0045	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Aldrin	<0.0065		0.0094	0.0065	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
alpha-BHC	<0.0053		0.0094	0.0053	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
alpha-Chlordane	<0.0050		0.0094	0.0050	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
beta-BHC	<0.0076		0.0094	0.0076	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Chlordane (technical)	<0.018		0.037	0.018	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
delta-BHC	<0.0045		0.0094	0.0045	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Dieldrin	<0.0049		0.0094	0.0049	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Endosulfan I	<0.0051		0.0094	0.0051	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Endosulfan II	<0.0051		0.0094	0.0051	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Endosulfan sulfate	<0.0052		0.0094	0.0052	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Endrin	<0.0048		0.0094	0.0048	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Endrin aldehyde	<0.0053		0.0094	0.0053	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Endrin ketone	<0.0046		0.0094	0.0046	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
gamma-BHC (Lindane)	<0.0047		0.0094	0.0047	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
gamma-Chlordane	<0.0054		0.0094	0.0054	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Heptachlor	<0.0051		0.0094	0.0051	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Heptachlor epoxide	<0.0051		0.0094	0.0051	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Methoxychlor	<0.0062		0.046	0.0062	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5
Toxaphene	<0.037		0.093	0.037	mg/Kg	☼	09/13/24 07:40	09/19/24 14:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*292*	*S1+*	*33 - 148*	*09/13/24 07:40*	*09/19/24 14:34*	*5*
Tetrachloro-m-xylene	*66*		*30 - 121*	*09/13/24 07:40*	*09/19/24 14:34*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 22:15	1
PCB-1221	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 22:15	1

Client Sample ID: SB29 (0-3)
Lab Sample ID: 500-256095-11
Date Collected: 09/03/24 13:18
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 84.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 22:15	1
PCB-1242	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 22:15	1
PCB-1248	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 22:15	1
PCB-1254	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 22:15	1
PCB-1260	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 22:15	1
Polychlorinated biphenyls, Total	<0.019		0.019		mg/Kg	☼	09/13/24 07:40	09/18/24 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*49 - 129*	*09/13/24 07:40*	*09/18/24 22:15*	*1*
DCB Decachlorobiphenyl	*63*		*37 - 121*	*09/13/24 07:40*	*09/18/24 22:15*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**26000**		23		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Antimony	<2.3		2.3		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Arsenic	**5.2**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Barium	**340**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Beryllium	**4.6**		0.46		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Cadmium	**0.34**		0.23		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Calcium	**180000**		110		mg/Kg	☼	09/16/24 15:04	09/18/24 14:35	5
Chromium	**28**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Cobalt	**4.3**		0.57		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Copper	**12**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Iron	**44000**		110		mg/Kg	☼	09/18/24 16:16	09/19/24 13:58	5
Lead	**72**		0.57		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Magnesium	**9400**		11		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Manganese	**7600**		5.3		mg/Kg	☼	09/18/24 16:16	09/19/24 13:58	5
Nickel	**50**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Potassium	**2600**		57		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Selenium	**5.0**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Silver	<2.9		2.9		mg/Kg	☼	09/16/24 15:04	09/18/24 14:35	5
Sodium	**930**		110		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Thallium	**38**		5.7		mg/Kg	☼	09/16/24 15:04	09/18/24 14:35	5
Vanadium	**23**		0.57		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1
Zinc	**120**		2.3		mg/Kg	☼	09/16/24 15:04	09/18/24 01:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.030**		0.018		mg/Kg	☼	09/18/24 16:35	09/19/24 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**46**		5.2		mg/Kg	☼	09/05/24 12:32	09/08/24 13:21	20
pH (SW846 9045D)	**9.61**		0.20		SU			09/06/24 12:03	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB29 (7.5-10)

Date Collected: 09/03/24 13:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-12

Matrix: Solid
Percent Solids: 87.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.0011**	**J**	0.0022	0.00090	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
1,1,2-Trichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
1,1-Dichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
1,1-Dichloroethene	<0.00091		0.0022	0.00091	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
1,2-Dichloroethane	<0.0014		0.0055	0.0014	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
2-Hexanone	<0.0034		0.0055	0.0034	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0055	0.0039	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Acetone	<0.0093		0.022	0.0093	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Benzene	<0.00070		0.0022	0.00070	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Bromodichloromethane	<0.00071		0.0022	0.00071	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Bromomethane	<0.0027		0.0055	0.0027	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Carbon disulfide	<0.0010		0.0055	0.0010	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Carbon tetrachloride	<0.00075		0.0022	0.00075	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Chlorobenzene	<0.00093		0.0022	0.00093	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Chloroethane	<0.0018		0.0055	0.0018	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
cis-1,2-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Methyl tert-butyl ether	<0.00071		0.0022	0.00071	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Methylene Chloride	<0.0024		0.0055	0.0024	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Styrene	<0.0010		0.0022	0.0010	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Toluene	<0.00045		0.0022	0.00045	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Xylenes, Total	<0.00076		0.0044	0.00076	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
trans-1,2-Dichloroethene	<0.00084		0.0022	0.00084	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Trichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1
Vinyl chloride	<0.00090		0.0022	0.00090	mg/Kg	☼	09/04/24 18:07	09/12/24 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 134*	*09/04/24 18:07*	*09/12/24 14:04*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*09/04/24 18:07*	*09/12/24 14:04*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*09/04/24 18:07*	*09/12/24 14:04*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/04/24 18:07*	*09/12/24 14:04*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.016**	**J**	0.074	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Acenaphthylene	**0.059**	**J**	0.074	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Anthracene	**0.099**		0.074	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Benzo[a]anthracene	**0.43**		0.074	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Benzo[a]pyrene	**0.29**		0.074	0.072	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Benzo[b]fluoranthene	**0.55**		0.074	0.071	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Benzo[g,h,i]perylene	**0.21**		0.074	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB29 (7.5-10)
Lab Sample ID: 500-256095-12
Date Collected: 09/03/24 13:30
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 87.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.19**		0.074	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Chrysene	**0.49**		0.074	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Dibenz(a,h)anthracene	<0.074		0.074	0.074	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Fluoranthene	**0.71**		0.074	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Fluorene	**0.030**	**J**	0.074	0.022	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Indeno[1,2,3-cd]pyrene	**0.22**		0.074	0.072	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Naphthalene	**0.050**	**J**	0.074	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Phenanthrene	**0.81**		0.074	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Pyrene	**0.60**		0.074	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
1,2,4-Trichlorobenzene	<0.053		0.37	0.053	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
1,3-Dichlorobenzene	<0.034		0.37	0.034	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
1,4-Dichlorobenzene	<0.035		0.37	0.035	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2,4,5-Trichlorophenol	<0.028		0.74	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2,4,6-Trichlorophenol	<0.025		0.74	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2,4-Dichlorophenol	<0.026		0.74	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2,4-Dimethylphenol	<0.17		0.74	0.17	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2,4-Dinitrophenol	<0.43		1.5	0.43	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2,4-Dinitrotoluene	<0.042		0.37	0.042	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2-Chloronaphthalene	<0.028		0.37	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2-Chlorophenol	<0.024		0.37	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2-Methylnaphthalene	**0.12**	**J**	0.15	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2-Methylphenol	<0.039		0.37	0.039	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2-Nitroaniline	<0.040		0.37	0.040	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
2-Nitrophenol	<0.050		0.74	0.050	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
3,3'-Dichlorobenzidine	<0.061		0.37	0.061	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
3 & 4 Methylphenol	<0.055		0.37	0.055	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
3-Nitroaniline	<0.034		0.74	0.034	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
4,6-Dinitro-2-methylphenol	<0.42		1.5	0.42	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
4-Bromophenyl phenyl ether	<0.051		0.37	0.051	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
4-Chloro-3-methylphenol	<0.029		0.74	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
4-Chloroaniline	<0.78		1.5	0.78	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
4-Chlorophenyl phenyl ether	<0.098		0.37	0.098	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
4-Nitroaniline	<0.055		0.74	0.055	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
4-Nitrophenol	<0.28		1.5	0.28	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Bis(2-chloroethoxy)methane	<0.028		0.37	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Bis(2-chloroethyl)ether	<0.034		0.37	0.034	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
bis(chloroisopropyl) ether	<0.053		0.37	0.053	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Bis(2-ethylhexyl) phthalate	<0.29		0.37	0.29	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Butyl benzyl phthalate	<0.037		0.37	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Carbazole	**0.039**	**J**	0.37	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Dibenzofuran	**0.043**	**J**	0.37	0.026	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Diethyl phthalate	<0.034		0.37	0.034	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Di-n-butyl phthalate	<0.024		0.37	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Di-n-octyl phthalate	<0.52		0.74	0.52	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Hexachlorobutadiene	<0.042		0.37	0.042	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB29 (7.5-10)
Date Collected: 09/03/24 13:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-12
Matrix: Solid
Percent Solids: 87.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.79		1.5	0.79	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Hexachloroethane	<0.037		0.37	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Isophorone	<0.038		0.37	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Nitrobenzene	<0.024		0.074	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
N-Nitrosodiphenylamine	<0.044		0.37	0.044	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Pentachlorophenol	<0.19		1.5	0.19	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2
Phenol	<0.032		0.37	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 16:54	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*62*		*31 - 166*	*09/13/24 12:05*	*09/16/24 16:54*	*2*
Phenol-d5 (Surr)	*66*		*30 - 153*	*09/13/24 12:05*	*09/16/24 16:54*	*2*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/13/24 12:05*	*09/16/24 16:54*	*2*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*	*09/13/24 12:05*	*09/16/24 16:54*	*2*
2,4,6-Tribromophenol (Surr)	*52*		*31 - 143*	*09/13/24 12:05*	*09/16/24 16:54*	*2*
Terphenyl-d14 (Surr)	*73*		*42 - 157*	*09/13/24 12:05*	*09/16/24 16:54*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0098		0.018	0.0098	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
4,4'-DDE	<0.0093		0.018	0.0093	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
4,4'-DDT	<0.0086		0.018	0.0086	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
alpha-Chlordane	<0.0097		0.018	0.0097	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Chlordane (technical)	<0.034		0.072	0.034	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
delta-BHC	<0.0087		0.018	0.0087	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Dieldrin	<0.0095		0.018	0.0095	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Endosulfan I	<0.0098		0.018	0.0098	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Endosulfan II	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Endrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Endrin ketone	<0.0088		0.018	0.0088	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
gamma-BHC (Lindane)	<0.0090		0.018	0.0090	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Heptachlor	<0.0098		0.018	0.0098	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Heptachlor epoxide	<0.0098		0.018	0.0098	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Methoxychlor	<0.012		0.089	0.012	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10
Toxaphene	<0.073		0.18	0.073	mg/Kg	☼	09/13/24 07:40	09/19/24 14:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*206*	*S1+*	*33 - 148*	*09/13/24 07:40*	*09/19/24 14:46*	*10*
Tetrachloro-m-xylene	*58*		*30 - 121*	*09/13/24 07:40*	*09/19/24 14:46*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:30	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:30	1

Client Sample ID: SB29 (7.5-10)
Date Collected: 09/03/24 13:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-12
Matrix: Solid
Percent Solids: 87.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:30	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:30	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:30	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:30	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:30	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*49 - 129*	*09/13/24 07:40*	*09/18/24 22:30*	*1*
DCB Decachlorobiphenyl	*155*	*S1+*	*37 - 121*	*09/13/24 07:40*	*09/18/24 22:30*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**26000**		23		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Antimony	<2.3		2.3		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Arsenic	**7.0**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Barium	**340**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Beryllium	**4.7**		0.45		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Cadmium	**0.39**		0.23		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Calcium	**190000**		110		mg/Kg	☼	09/16/24 15:04	09/18/24 14:40	5
Chromium	**160**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Cobalt	**4.8**		0.57		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Copper	**25**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Iron	**36000**		110		mg/Kg	☼	09/18/24 16:16	09/19/24 14:07	5
Lead	**110**		0.57		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Magnesium	**7800**		11		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Manganese	**5200**		5.6		mg/Kg	☼	09/18/24 16:16	09/19/24 14:07	5
Nickel	**190**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Potassium	**2400**		57		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Selenium	**4.9**		1.1		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Silver	<2.8		2.8		mg/Kg	☼	09/16/24 15:04	09/18/24 14:40	5
Sodium	**820**		110		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Thallium	**31**		5.7		mg/Kg	☼	09/16/24 15:04	09/18/24 14:40	5
Vanadium	**18**		0.57		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1
Zinc	**110**		2.3		mg/Kg	☼	09/16/24 15:04	09/18/24 01:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/18/24 16:35	09/19/24 08:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**52**		5.2		mg/Kg	☼	09/05/24 12:32	09/08/24 13:26	20
pH (SW846 9045D)	**9.72**		0.20		SU			09/06/24 12:08	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB30 (0-3)
Lab Sample ID: 500-256095-13
Date Collected: 09/03/24 14:50
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 88.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0012		0.0029	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0029	0.0015	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
1,1,2-Trichloroethane	<0.0011		0.0029	0.0011	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
1,1-Dichloroethane	<0.0011		0.0029	0.0011	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
1,1-Dichloroethene	<0.0012		0.0029	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
1,2-Dichloroethane	<0.0019		0.0073	0.0019	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
1,2-Dichloropropane	<0.00076		0.0029	0.00076	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
2-Butanone (MEK)	<0.0032		0.0073	0.0032	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
2-Hexanone	<0.0044		0.0073	0.0044	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0073	0.0052	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Acetone	<0.012		0.029	0.012	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Benzene	<0.00092		0.0029	0.00092	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Bromodichloromethane	<0.00094		0.0029	0.00094	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Bromoform	<0.0017		0.0029	0.0017	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Bromomethane	<0.0036		0.0073	0.0036	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Carbon disulfide	<0.0013		0.0073	0.0013	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Carbon tetrachloride	<0.0010		0.0029	0.0010	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Chlorobenzene	<0.0012		0.0029	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Chloroethane	<0.0024		0.0073	0.0024	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Chloroform	<0.0021		0.0029	0.0021	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Chloromethane	<0.0014		0.0073	0.0014	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
cis-1,2-Dichloroethene	<0.0012		0.0029	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
1,3-Dichloropropene, Total	<0.0014		0.0029	0.0014	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Dibromochloromethane	<0.0014		0.0029	0.0014	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Ethylbenzene	<0.0015		0.0029	0.0015	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Methyl tert-butyl ether	<0.00095		0.0029	0.00095	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Methylene Chloride	<0.0031		0.0073	0.0031	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Styrene	<0.0013		0.0029	0.0013	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Tetrachloroethene	<0.0016		0.0029	0.0016	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Toluene	<0.00059		0.0029	0.00059	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Xylenes, Total	<0.0010		0.0059	0.0010	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
trans-1,2-Dichloroethene	<0.0011		0.0029	0.0011	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Trichloroethene	<0.00080		0.0029	0.00080	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1
Vinyl chloride	<0.0012		0.0029	0.0012	mg/Kg	☼	09/04/24 18:07	09/12/24 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*09/04/24 18:07*	*09/12/24 14:28*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*	*09/04/24 18:07*	*09/12/24 14:28*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*09/04/24 18:07*	*09/12/24 14:28*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*09/04/24 18:07*	*09/12/24 14:28*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.13**		0.071	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Acenaphthylene	<0.012		0.071	0.012	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Anthracene	**0.36**		0.071	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Benzo[a]anthracene	**0.69**		0.071	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Benzo[a]pyrene	**0.61**		0.071	0.069	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Benzo[b]fluoranthene	**0.93**		0.071	0.068	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Benzo[g,h,i]perylene	**0.37**		0.071	0.015	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB30 (0-3)
Lab Sample ID: 500-256095-13
Date Collected: 09/03/24 14:50
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 88.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.33**		0.071	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Chrysene	**0.67**		0.071	0.019	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Dibenz(a,h)anthracene	**0.097**		0.071	0.071	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Fluoranthene	**1.7**		0.071	0.017	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Fluorene	**0.14**		0.071	0.021	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Indeno[1,2,3-cd]pyrene	**0.44**		0.071	0.070	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Naphthalene	**0.038**	**J**	0.071	0.013	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Phenanthrene	**1.6**		0.071	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Pyrene	**1.4**		0.071	0.020	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2-Methylnaphthalene	**0.14**		0.14	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
2-Nitrophenol	<0.048		0.71	0.048	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
3-Nitroaniline	<0.033		0.71	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Carbazole	**0.061**	**J**	0.36	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Dibenzofuran	**0.088**	**J**	0.36	0.025	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB30 (0-3)
Date Collected: 09/03/24 14:50
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-13
Matrix: Solid
Percent Solids: 88.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76		1.4	0.76	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/13/24 12:05	09/16/24 17:19	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*53*		*31 - 166*	*09/13/24 12:05*	*09/16/24 17:19*	*2*
Phenol-d5 (Surr)	*59*		*30 - 153*	*09/13/24 12:05*	*09/16/24 17:19*	*2*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*09/13/24 12:05*	*09/16/24 17:19*	*2*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*09/13/24 12:05*	*09/16/24 17:19*	*2*
2,4,6-Tribromophenol (Surr)	*47*		*31 - 143*	*09/13/24 12:05*	*09/16/24 17:19*	*2*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*09/13/24 12:05*	*09/16/24 17:19*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0099		0.019	0.0099	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
4,4'-DDE	<0.0095		0.019	0.0095	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Endrin	<0.0094		0.019	0.0094	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/13/24 07:40	09/19/24 14:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*295*	*S1+*	*33 - 148*	*09/13/24 07:40*	*09/19/24 14:58*	*10*
Tetrachloro-m-xylene	*59*		*30 - 121*	*09/13/24 07:40*	*09/19/24 14:58*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:45	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:45	1

Client Sample ID: SB30 (0-3)
Lab Sample ID: 500-256095-13

Date Collected: 09/03/24 14:50
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 88.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:45	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:45	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:45	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:45	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:45	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/13/24 07:40	09/18/24 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*49 - 129*	*09/13/24 07:40*	*09/18/24 22:45*	*1*
DCB Decachlorobiphenyl	*80*		*37 - 121*	*09/13/24 07:40*	*09/18/24 22:45*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20000**		20		mg/Kg	☼	09/16/24 15:04	09/18/24 01:53	1
Antimony	<2.0		2.0		mg/Kg	☼	09/16/24 15:04	09/18/24 01:53	1
Arsenic	<5.0		5.0		mg/Kg	☼	09/16/24 15:04	09/18/24 14:44	5
Barium	**380**		5.0		mg/Kg	☼	09/16/24 15:04	09/18/24 14:44	5
Beryllium	**4.4**		1.9		mg/Kg	☼	09/18/24 16:16	09/19/24 14:25	5
Cadmium	<1.0		1.0		mg/Kg	☼	09/16/24 15:04	09/18/24 14:44	5
Calcium	**190000**		100		mg/Kg	☼	09/16/24 15:04	09/18/24 14:44	5
Chromium	**360**		5.0		mg/Kg	☼	09/16/24 15:04	09/18/24 14:44	5
Cobalt	**5.3**		0.50		mg/Kg	☼	09/16/24 15:04	09/18/24 01:53	1
Copper	**29**		5.0		mg/Kg	☼	09/16/24 15:04	09/18/24 14:44	5
Iron	**70000**		95		mg/Kg	☼	09/18/24 16:16	09/19/24 14:25	5
Lead	**40**		2.5		mg/Kg	☼	09/16/24 15:04	09/18/24 14:44	5
Magnesium	**10000**		10		mg/Kg	☼	09/16/24 15:04	09/18/24 01:53	1
Manganese	**14000**		19		mg/Kg	☼	09/18/24 16:16	09/19/24 14:29	20
Nickel	**26**		5.0		mg/Kg	☼	09/16/24 15:04	09/18/24 14:44	5
Potassium	**1800**		50		mg/Kg	☼	09/16/24 15:04	09/18/24 01:53	1
Selenium	**6.8**		4.8		mg/Kg	☼	09/18/24 16:16	09/19/24 14:25	5
Silver	<2.5		2.5		mg/Kg	☼	09/16/24 15:04	09/18/24 14:44	5
Sodium	**690**		100		mg/Kg	☼	09/16/24 15:04	09/18/24 01:53	1
Thallium	<19		19		mg/Kg	☼	09/18/24 16:16	09/19/24 14:29	20
Vanadium	**210**		2.5		mg/Kg	☼	09/16/24 15:04	09/18/24 14:44	5
Zinc	**88**		2.0		mg/Kg	☼	09/16/24 15:04	09/18/24 01:53	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.043**		0.018		mg/Kg	☼	09/18/24 16:35	09/19/24 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**28**	**F2**	5.3		mg/Kg	☼	09/05/24 12:32	09/08/24 13:30	20
pH (SW846 9045D)	**8.79**		0.20		SU			09/06/24 12:12	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB30 (12.5-15)
Lab Sample ID: 500-256095-14
Date Collected: 09/03/24 15:09
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 60.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.060		0.13	0.060	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
1,1,2,2-Tetrachloroethane	<0.086		0.13	0.086	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
1,1,2-Trichloroethane	<0.097		0.13	0.097	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
1,1-Dichloroethane	<0.048		0.13	0.048	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
1,1-Dichloroethene	<0.063		0.13	0.063	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
1,2-Dichloroethane	<0.076		0.13	0.076	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
1,2-Dichloropropane	<0.049		0.13	0.049	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
2-Butanone (MEK)	<0.41		0.66	0.41	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
2-Hexanone	<0.39		0.66	0.39	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
4-Methyl-2-pentanone (MIBK)	<0.36		0.66	0.36	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Acetone	<0.96		1.3	0.96	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Benzene	<0.016		0.033	0.016	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Bromodichloromethane	<0.075		0.13	0.075	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Bromoform	<0.13		0.13	0.13	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Bromomethane	<0.24		0.40	0.24	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Carbon disulfide	<0.14		0.26	0.14	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Carbon tetrachloride	<0.055		0.13	0.055	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Chlorobenzene	<0.054		0.13	0.054	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Chloroethane	<0.062		0.66	0.062	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Chloroform	<0.12		0.26	0.12	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Chloromethane	<0.10		0.66	0.10	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
cis-1,2-Dichloroethene	<0.055		0.13	0.055	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
1,3-Dichloropropene, Total	<0.084		0.13	0.084	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Dibromochloromethane	<0.11		0.13	0.11	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Ethylbenzene	<0.023		0.033	0.023	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Methyl tert-butyl ether	<0.057		0.13	0.057	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Methylene Chloride	<0.28		0.66	0.28	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Styrene	<0.041		0.13	0.041	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Tetrachloroethene	<0.052		0.13	0.052	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Toluene	<0.028		0.033	0.028	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Xylenes, Total	<0.031		0.066	0.031	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
trans-1,2-Dichloroethene	<0.058		0.13	0.058	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Trichloroethene	<0.020		0.066	0.020	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50
Vinyl chloride	<0.062		0.13	0.062	mg/Kg	☼	09/03/24 15:09	09/17/24 12:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*09/03/24 15:09*	*09/17/24 12:59*	*50*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*	*09/03/24 15:09*	*09/17/24 12:59*	*50*
Dibromofluoromethane	*96*		*75 - 120*	*09/03/24 15:09*	*09/17/24 12:59*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*09/03/24 15:09*	*09/17/24 12:59*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.16	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Acenaphthylene	<0.028		0.16	0.028	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Anthracene	<0.034		0.16	0.034	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Benzo[a]anthracene	<0.035		0.16	0.035	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Benzo[a]pyrene	<0.16		0.16	0.16	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Benzo[b]fluoranthene	<0.16		0.16	0.16	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Benzo[g,h,i]perylene	<0.036		0.16	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB30 (12.5-15)
Lab Sample ID: 500-256095-14
Date Collected: 09/03/24 15:09
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 60.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.062		0.16	0.062	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Chrysene	<0.043		0.16	0.043	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Dibenz(a,h)anthracene	<0.16		0.16	0.16	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Fluoranthene	**0.073**	**J**	0.16	0.038	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Fluorene	<0.049		0.16	0.049	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Indeno[1,2,3-cd]pyrene	<0.16		0.16	0.16	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Naphthalene	<0.030		0.16	0.030	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Phenanthrene	**0.050**	**J**	0.16	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Pyrene	**0.059**	**J**	0.16	0.045	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
1,2,4-Trichlorobenzene	<0.12		0.83	0.12	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
1,2-Dichlorobenzene	<0.067		0.83	0.067	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
1,3-Dichlorobenzene	<0.074		0.83	0.074	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
1,4-Dichlorobenzene	<0.078		0.83	0.078	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2,4,5-Trichlorophenol	<0.062		1.6	0.062	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2,4,6-Trichlorophenol	<0.056		1.6	0.056	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2,4-Dichlorophenol	<0.058		1.6	0.058	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2,4-Dimethylphenol	<0.37		1.6	0.37	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2,4-Dinitrophenol	<0.95		3.3	0.95	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2,4-Dinitrotoluene	<0.094		0.83	0.094	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2,6-Dinitrotoluene	<0.056		0.83	0.056	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2-Chloronaphthalene	<0.061		0.83	0.061	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2-Chlorophenol	<0.053		0.83	0.053	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2-Methylnaphthalene	<0.033		0.33	0.033	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2-Methylphenol	<0.087		0.83	0.087	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2-Nitroaniline	<0.088		0.83	0.088	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
2-Nitrophenol	<0.11		1.6	0.11	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
3,3'-Dichlorobenzidine	<0.13		0.83	0.13	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
3 & 4 Methylphenol	<0.12		0.83	0.12	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
3-Nitroaniline	<0.075		1.6	0.075	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
4,6-Dinitro-2-methylphenol	<0.93		3.3	0.93	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
4-Bromophenyl phenyl ether	<0.11		0.83	0.11	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
4-Chloro-3-methylphenol	<0.064		1.6	0.064	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
4-Chloroaniline	<1.7		3.3	1.7	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
4-Chlorophenyl phenyl ether	<0.22		0.83	0.22	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
4-Nitroaniline	<0.12		1.6	0.12	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
4-Nitrophenol	<0.61		3.3	0.61	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Bis(2-chloroethoxy)methane	<0.061		0.83	0.061	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Bis(2-chloroethyl)ether	<0.076		0.83	0.076	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
bis(chloroisopropyl) ether	<0.12		0.83	0.12	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Bis(2-ethylhexyl) phthalate	<0.64		0.83	0.64	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Butyl benzyl phthalate	<0.082		0.83	0.082	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Carbazole	<0.065		0.83	0.065	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Dibenzofuran	<0.058		0.83	0.058	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Diethyl phthalate	<0.075		0.83	0.075	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Dimethyl phthalate	<0.036		0.83	0.036	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Di-n-butyl phthalate	<0.052		0.83	0.052	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Di-n-octyl phthalate	<1.1		1.6	1.1	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Hexachlorobenzene	<0.032		0.33	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Hexachlorobutadiene	<0.093		0.83	0.093	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB30 (12.5-15)
Lab Sample ID: 500-256095-14
Date Collected: 09/03/24 15:09
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 60.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.7		3.3	1.7	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Hexachloroethane	<0.082		0.83	0.082	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Isophorone	<0.085		0.83	0.085	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Nitrobenzene	<0.052		0.16	0.052	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
N-Nitrosodi-n-propylamine	<0.032		0.33	0.032	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
N-Nitrosodiphenylamine	<0.098		0.83	0.098	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Pentachlorophenol	<0.41		3.3	0.41	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1
Phenol	<0.071		0.83	0.071	mg/Kg	☼	09/13/24 12:05	09/16/24 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*50*		*31 - 166*	*09/13/24 12:05*	*09/16/24 14:48*	*1*
Phenol-d5 (Surr)	*74*		*30 - 153*	*09/13/24 12:05*	*09/16/24 14:48*	*1*
Nitrobenzene-d5 (Surr)	*79*		*37 - 147*	*09/13/24 12:05*	*09/16/24 14:48*	*1*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*	*09/13/24 12:05*	*09/16/24 14:48*	*1*
2,4,6-Tribromophenol (Surr)	*19*	*S1-*	*31 - 143*	*09/13/24 12:05*	*09/16/24 14:48*	*1*
Terphenyl-d14 (Surr)	*94*		*42 - 157*	*09/13/24 12:05*	*09/16/24 14:48*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0071		0.013	0.0071	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
4,4'-DDE	<0.0068		0.013	0.0068	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
4,4'-DDT	<0.0063		0.013	0.0063	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Aldrin	<0.0092		0.013	0.0092	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
alpha-BHC	<0.0075		0.013	0.0075	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
alpha-Chlordane	<0.0071		0.013	0.0071	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
beta-BHC	**0.18**		0.013	0.011	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Chlordane (technical)	<0.025		0.053	0.025	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
delta-BHC	<0.0063		0.013	0.0063	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Dieldrin	<0.0069		0.013	0.0069	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Endosulfan I	<0.0072		0.013	0.0072	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Endosulfan II	<0.0073		0.013	0.0073	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Endosulfan sulfate	<0.0073		0.013	0.0073	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Endrin	<0.0068		0.013	0.0068	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Endrin aldehyde	<0.0076		0.013	0.0076	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Endrin ketone	<0.0065		0.013	0.0065	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
gamma-BHC (Lindane)	<0.0066		0.013	0.0066	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
gamma-Chlordane	<0.0076		0.013	0.0076	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Heptachlor	<0.0072		0.013	0.0072	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Heptachlor epoxide	<0.0071		0.013	0.0071	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Methoxychlor	<0.0087		0.065	0.0087	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5
Toxaphene	<0.053		0.13	0.053	mg/Kg	☼	09/13/24 07:40	09/19/24 15:09	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*33 - 148*	*09/13/24 07:40*	*09/19/24 15:09*	*5*
Tetrachloro-m-xylene	*87*		*30 - 121*	*09/13/24 07:40*	*09/19/24 15:09*	*5*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.026		0.026		mg/Kg	☼	09/13/24 07:40	09/18/24 23:01	1
PCB-1221	<0.026		0.026		mg/Kg	☼	09/13/24 07:40	09/18/24 23:01	1

Client Sample ID: SB30 (12.5-15)
Lab Sample ID: 500-256095-14
Date Collected: 09/03/24 15:09
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 60.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.026		0.026		mg/Kg	☼	09/13/24 07:40	09/18/24 23:01	1
PCB-1242	<0.026		0.026		mg/Kg	☼	09/13/24 07:40	09/18/24 23:01	1
PCB-1248	<0.026		0.026		mg/Kg	☼	09/13/24 07:40	09/18/24 23:01	1
PCB-1254	<0.026		0.026		mg/Kg	☼	09/13/24 07:40	09/18/24 23:01	1
PCB-1260	<0.026		0.026		mg/Kg	☼	09/13/24 07:40	09/18/24 23:01	1
Polychlorinated biphenyls, Total	<0.026		0.026		mg/Kg	☼	09/13/24 07:40	09/18/24 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*49 - 129*	*09/13/24 07:40*	*09/18/24 23:01*	*1*
DCB Decachlorobiphenyl	*71*		*37 - 121*	*09/13/24 07:40*	*09/18/24 23:01*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**37000**		30		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Antimony	<3.0		3.0		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Arsenic	**1.5**		1.5		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Barium	**350**		1.5		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Beryllium	**4.5**		0.60		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Cadmium	<0.30		0.30		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Calcium	**250000**		150		mg/Kg	☼	09/16/24 15:04	09/18/24 14:49	5
Chromium	**6.3**		1.5		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Cobalt	**1.9**		0.75		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Copper	<1.5		1.5		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Iron	**6800**		160		mg/Kg	☼	09/18/24 16:16	09/19/24 14:33	5
Lead	<3.8		3.8		mg/Kg	☼	09/16/24 15:04	09/18/24 14:49	5
Magnesium	**5300**		15		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Manganese	**5600**		7.9		mg/Kg	☼	09/18/24 16:16	09/19/24 14:33	5
Nickel	<1.5		1.5		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Potassium	**2100**		75		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Selenium	**3.7**		1.5		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Silver	<3.8		3.8		mg/Kg	☼	09/16/24 15:04	09/18/24 14:49	5
Sodium	**810**		150		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Thallium	**21**		7.5		mg/Kg	☼	09/16/24 15:04	09/18/24 14:49	5
Vanadium	**11**		0.75		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1
Zinc	<3.0		3.0		mg/Kg	☼	09/16/24 15:04	09/18/24 01:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.025		0.025		mg/Kg	☼	09/18/24 16:35	09/19/24 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**6.0**		0.39		mg/Kg	☼	09/05/24 12:32	09/08/24 12:36	1
Sulfide (SW846 9034)	**4200**		250		mg/Kg	☼	09/09/24 07:29	09/09/24 09:23	1
pH (SW846 9045D)	**11.36**		0.20		SU			09/06/24 12:15	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 784552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	5035	
500-256095-9	SB28 (0-3)	Total/NA	Solid	5035	
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	5035	

Prep Batch: 784571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	5035	
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	5035	
500-256095-3	SB25 (0-3)	Total/NA	Solid	5035	
500-256095-4	SB25 (3-5)	Total/NA	Solid	5035	
500-256095-5	SB26 (0-3)	Total/NA	Solid	5035	
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	5035	
500-256095-7	SB27 (0-3)	Total/NA	Solid	5035	
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	5035	
500-256095-11	SB29 (0-3)	Total/NA	Solid	5035	
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	5035	
500-256095-13	SB30 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 785424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	8260D	784571
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	8260D	784571
500-256095-3	SB25 (0-3)	Total/NA	Solid	8260D	784571
500-256095-4	SB25 (3-5)	Total/NA	Solid	8260D	784571
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	8260D	784571
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	8260D	784571
500-256095-11	SB29 (0-3)	Total/NA	Solid	8260D	784571
MB 500-785424/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785424/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-785424/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 785633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-5	SB26 (0-3)	Total/NA	Solid	8260D	784571
500-256095-7	SB27 (0-3)	Total/NA	Solid	8260D	784571
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	8260D	784571
500-256095-13	SB30 (0-3)	Total/NA	Solid	8260D	784571
MB 500-785633/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785633/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-785633/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 785875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	8260D	784552
500-256095-9	SB28 (0-3)	Total/NA	Solid	8260D	784552
MB 500-785875/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785875/4	Lab Control Sample	Total/NA	Solid	8260D	

Analysis Batch: 786367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	8260D	784552

GC/MS VOA (Continued)

Analysis Batch: 786367 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-786367/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-786367/4	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 785981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	3546	
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	3546	
500-256095-3	SB25 (0-3)	Total/NA	Solid	3546	
500-256095-4 - DL	SB25 (3-5)	Total/NA	Solid	3546	
500-256095-4	SB25 (3-5)	Total/NA	Solid	3546	
500-256095-5	SB26 (0-3)	Total/NA	Solid	3546	
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	3546	
500-256095-7	SB27 (0-3)	Total/NA	Solid	3546	
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	3546	
500-256095-9	SB28 (0-3)	Total/NA	Solid	3546	
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	3546	
500-256095-11	SB29 (0-3)	Total/NA	Solid	3546	
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	3546	
500-256095-13	SB30 (0-3)	Total/NA	Solid	3546	
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	3546	
MB 500-785981/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-785981/2-A	Lab Control Sample	Total/NA	Solid	3546	
500-256095-6 MS	SB26 (7.5-10)	Total/NA	Solid	3546	
500-256095-6 MSD	SB26 (7.5-10)	Total/NA	Solid	3546	

Analysis Batch: 786128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	8270E	785981
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	8270E	785981
500-256095-3	SB25 (0-3)	Total/NA	Solid	8270E	785981
500-256095-4	SB25 (3-5)	Total/NA	Solid	8270E	785981
500-256095-5	SB26 (0-3)	Total/NA	Solid	8270E	785981
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	8270E	785981
500-256095-7	SB27 (0-3)	Total/NA	Solid	8270E	785981
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	8270E	785981
500-256095-9	SB28 (0-3)	Total/NA	Solid	8270E	785981
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	8270E	785981
500-256095-11	SB29 (0-3)	Total/NA	Solid	8270E	785981
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	8270E	785981
500-256095-13	SB30 (0-3)	Total/NA	Solid	8270E	785981
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	8270E	785981
500-256095-6 MS	SB26 (7.5-10)	Total/NA	Solid	8270E	785981
500-256095-6 MSD	SB26 (7.5-10)	Total/NA	Solid	8270E	785981

Analysis Batch: 786129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-785981/1-A	Method Blank	Total/NA	Solid	8270E	785981
LCS 500-785981/2-A	Lab Control Sample	Total/NA	Solid	8270E	785981

GC/MS Semi VOA

Analysis Batch: 786381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-4 - DL	SB25 (3-5)	Total/NA	Solid	8270E	785981

GC VOA

Prep Batch: 784552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	5035	

Analysis Batch: 784769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	8015D	784552
MB 500-784769/5	Method Blank	Total/NA	Solid	8015D	
LCS 500-784769/6	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 785024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	3541	
MB 500-785024/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-785024/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 785398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	8015D	785024
MB 500-785024/1-A	Method Blank	Total/NA	Solid	8015D	785024
LCS 500-785024/2-A	Lab Control Sample	Total/NA	Solid	8015D	785024

Prep Batch: 785892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	3541	
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	3541	
500-256095-3	SB25 (0-3)	Total/NA	Solid	3541	
500-256095-4	SB25 (3-5)	Total/NA	Solid	3541	
500-256095-5	SB26 (0-3)	Total/NA	Solid	3541	
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	3541	
500-256095-7	SB27 (0-3)	Total/NA	Solid	3541	
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	3541	
500-256095-9	SB28 (0-3)	Total/NA	Solid	3541	
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	3541	
500-256095-11	SB29 (0-3)	Total/NA	Solid	3541	
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	3541	
500-256095-13	SB30 (0-3)	Total/NA	Solid	3541	
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	3541	
MB 500-785892/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-785892/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-785892/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256095-1 MS	SB24 (0-3)	Total/NA	Solid	3541	
500-256095-1 MS	SB24 (0-3)	Total/NA	Solid	3541	
500-256095-1 MSD	SB24 (0-3)	Total/NA	Solid	3541	
500-256095-1 MSD	SB24 (0-3)	Total/NA	Solid	3541	

GC Semi VOA

Analysis Batch: 786715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	8082A	785892
500-256095-4	SB25 (3-5)	Total/NA	Solid	8082A	785892
500-256095-5	SB26 (0-3)	Total/NA	Solid	8082A	785892
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	8082A	785892
500-256095-7	SB27 (0-3)	Total/NA	Solid	8082A	785892
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	8082A	785892
500-256095-9	SB28 (0-3)	Total/NA	Solid	8082A	785892
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	8082A	785892
500-256095-11	SB29 (0-3)	Total/NA	Solid	8082A	785892
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	8082A	785892
500-256095-13	SB30 (0-3)	Total/NA	Solid	8082A	785892
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	8082A	785892
MB 500-785892/1-A	Method Blank	Total/NA	Solid	8082A	785892
LCS 500-785892/3-A	Lab Control Sample	Total/NA	Solid	8082A	785892

Analysis Batch: 786796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	8081B	785892
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	8081B	785892
500-256095-3	SB25 (0-3)	Total/NA	Solid	8081B	785892
500-256095-4	SB25 (3-5)	Total/NA	Solid	8081B	785892
500-256095-5	SB26 (0-3)	Total/NA	Solid	8081B	785892
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	8081B	785892
500-256095-7	SB27 (0-3)	Total/NA	Solid	8081B	785892
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	8081B	785892
500-256095-9	SB28 (0-3)	Total/NA	Solid	8081B	785892
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	8081B	785892
500-256095-11	SB29 (0-3)	Total/NA	Solid	8081B	785892
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	8081B	785892
500-256095-13	SB30 (0-3)	Total/NA	Solid	8081B	785892
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	8081B	785892
MB 500-785892/1-A	Method Blank	Total/NA	Solid	8081B	785892
LCS 500-785892/2-A	Lab Control Sample	Total/NA	Solid	8081B	785892
500-256095-1 MS	SB24 (0-3)	Total/NA	Solid	8081B	785892
500-256095-1 MSD	SB24 (0-3)	Total/NA	Solid	8081B	785892

Analysis Batch: 786836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	8082A	785892
500-256095-3	SB25 (0-3)	Total/NA	Solid	8082A	785892
500-256095-1 MS	SB24 (0-3)	Total/NA	Solid	8082A	785892
500-256095-1 MSD	SB24 (0-3)	Total/NA	Solid	8082A	785892

Metals

Prep Batch: 786290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	3050B	
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	3050B	
500-256095-3	SB25 (0-3)	Total/NA	Solid	3050B	
500-256095-4	SB25 (3-5)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 786290 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-5	SB26 (0-3)	Total/NA	Solid	3050B	
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	3050B	
500-256095-7	SB27 (0-3)	Total/NA	Solid	3050B	
MB 500-786290/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786290/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 786292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	3050B	
500-256095-9	SB28 (0-3)	Total/NA	Solid	3050B	
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	3050B	
500-256095-11	SB29 (0-3)	Total/NA	Solid	3050B	
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	3050B	
500-256095-13	SB30 (0-3)	Total/NA	Solid	3050B	
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	3050B	
MB 500-786292/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786292/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-256095-8 MS	SB27 (5-7.5)	Total/NA	Solid	3050B	
500-256095-8 MSD	SB27 (5-7.5)	Total/NA	Solid	3050B	
500-256095-8 DU	SB27 (5-7.5)	Total/NA	Solid	3050B	

Analysis Batch: 786585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	6010D	786292
500-256095-9	SB28 (0-3)	Total/NA	Solid	6010D	786292
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	6010D	786292
500-256095-11	SB29 (0-3)	Total/NA	Solid	6010D	786292
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	6010D	786292
500-256095-13	SB30 (0-3)	Total/NA	Solid	6010D	786292
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	6010D	786292
MB 500-786292/1-A	Method Blank	Total/NA	Solid	6010D	786292
LCS 500-786292/2-A	Lab Control Sample	Total/NA	Solid	6010D	786292
500-256095-8 MS	SB27 (5-7.5)	Total/NA	Solid	6010D	786292
500-256095-8 MSD	SB27 (5-7.5)	Total/NA	Solid	6010D	786292
500-256095-8 DU	SB27 (5-7.5)	Total/NA	Solid	6010D	786292

Analysis Batch: 786593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	6010D	786290
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	6010D	786290
500-256095-3	SB25 (0-3)	Total/NA	Solid	6010D	786290
500-256095-4	SB25 (3-5)	Total/NA	Solid	6010D	786290
500-256095-5	SB26 (0-3)	Total/NA	Solid	6010D	786290
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	6010D	786290
500-256095-7	SB27 (0-3)	Total/NA	Solid	6010D	786290
MB 500-786290/1-A	Method Blank	Total/NA	Solid	6010D	786290
LCS 500-786290/2-A	Lab Control Sample	Total/NA	Solid	6010D	786290

Prep Batch: 786644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 786644 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	7471B	
500-256095-3	SB25 (0-3)	Total/NA	Solid	7471B	
500-256095-4	SB25 (3-5)	Total/NA	Solid	7471B	
500-256095-5	SB26 (0-3)	Total/NA	Solid	7471B	
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	7471B	
500-256095-7	SB27 (0-3)	Total/NA	Solid	7471B	
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	7471B	
500-256095-9	SB28 (0-3)	Total/NA	Solid	7471B	
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	7471B	
500-256095-11	SB29 (0-3)	Total/NA	Solid	7471B	
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	7471B	
500-256095-13	SB30 (0-3)	Total/NA	Solid	7471B	
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	7471B	
MB 500-786644/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-786644/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-256095-1 MS	SB24 (0-3)	Total/NA	Solid	7471B	
500-256095-1 MSD	SB24 (0-3)	Total/NA	Solid	7471B	
500-256095-1 DU	SB24 (0-3)	Total/NA	Solid	7471B	

Prep Batch: 786722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	3050B	
500-256095-9	SB28 (0-3)	Total/NA	Solid	3050B	
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	3050B	
500-256095-11	SB29 (0-3)	Total/NA	Solid	3050B	
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	3050B	
500-256095-13	SB30 (0-3)	Total/NA	Solid	3050B	
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	3050B	
MB 500-786722/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786722/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-256095-8 MS	SB27 (5-7.5)	Total/NA	Solid	3050B	
500-256095-8 MSD	SB27 (5-7.5)	Total/NA	Solid	3050B	
500-256095-8 DU	SB27 (5-7.5)	Total/NA	Solid	3050B	

Analysis Batch: 786815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	6010D	786290
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	6010D	786290
500-256095-3	SB25 (0-3)	Total/NA	Solid	6010D	786290
500-256095-4	SB25 (3-5)	Total/NA	Solid	6010D	786290
500-256095-5	SB26 (0-3)	Total/NA	Solid	6010D	786290
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	6010D	786290
500-256095-7	SB27 (0-3)	Total/NA	Solid	6010D	786290
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	6010D	786292
500-256095-9	SB28 (0-3)	Total/NA	Solid	6010D	786292
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	6010D	786292
500-256095-11	SB29 (0-3)	Total/NA	Solid	6010D	786292
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	6010D	786292
500-256095-13	SB30 (0-3)	Total/NA	Solid	6010D	786292
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	6010D	786292
500-256095-8 MS	SB27 (5-7.5)	Total/NA	Solid	6010D	786292

Metals (Continued)

Analysis Batch: 786815 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-8 MSD	SB27 (5-7.5)	Total/NA	Solid	6010D	786292
500-256095-8 DU	SB27 (5-7.5)	Total/NA	Solid	6010D	786292

Analysis Batch: 786899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	7471B	786644
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	7471B	786644
500-256095-3	SB25 (0-3)	Total/NA	Solid	7471B	786644
500-256095-4	SB25 (3-5)	Total/NA	Solid	7471B	786644
500-256095-5	SB26 (0-3)	Total/NA	Solid	7471B	786644
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	7471B	786644
500-256095-7	SB27 (0-3)	Total/NA	Solid	7471B	786644
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	7471B	786644
500-256095-9	SB28 (0-3)	Total/NA	Solid	7471B	786644
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	7471B	786644
500-256095-11	SB29 (0-3)	Total/NA	Solid	7471B	786644
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	7471B	786644
500-256095-13	SB30 (0-3)	Total/NA	Solid	7471B	786644
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	7471B	786644
MB 500-786644/12-A	Method Blank	Total/NA	Solid	7471B	786644
LCS 500-786644/13-A	Lab Control Sample	Total/NA	Solid	7471B	786644
500-256095-1 MS	SB24 (0-3)	Total/NA	Solid	7471B	786644
500-256095-1 MSD	SB24 (0-3)	Total/NA	Solid	7471B	786644
500-256095-1 DU	SB24 (0-3)	Total/NA	Solid	7471B	786644

Analysis Batch: 786923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	6010D	786290
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	6010D	786290
500-256095-3	SB25 (0-3)	Total/NA	Solid	6010D	786290
500-256095-4	SB25 (3-5)	Total/NA	Solid	6010D	786290
500-256095-5	SB26 (0-3)	Total/NA	Solid	6010D	786290
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	6010D	786290

Analysis Batch: 786924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	6010D	786722
500-256095-9	SB28 (0-3)	Total/NA	Solid	6010D	786722
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	6010D	786722
500-256095-11	SB29 (0-3)	Total/NA	Solid	6010D	786722
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	6010D	786722
500-256095-13	SB30 (0-3)	Total/NA	Solid	6010D	786722
500-256095-13	SB30 (0-3)	Total/NA	Solid	6010D	786722
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	6010D	786722
MB 500-786722/1-A	Method Blank	Total/NA	Solid	6010D	786722
LCS 500-786722/2-A	Lab Control Sample	Total/NA	Solid	6010D	786722
500-256095-8 MS	SB27 (5-7.5)	Total/NA	Solid	6010D	786722
500-256095-8 MSD	SB27 (5-7.5)	Total/NA	Solid	6010D	786722
500-256095-8 DU	SB27 (5-7.5)	Total/NA	Solid	6010D	786722

General Chemistry

Prep Batch: 626191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	9030B	
MB 240-626191/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-626191/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 626237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	9034	626191
MB 240-626191/1-A	Method Blank	Total/NA	Solid	9034	626191
LCS 240-626191/2-A	Lab Control Sample	Total/NA	Solid	9034	626191

Prep Batch: 784639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	9010C	
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	9010C	
500-256095-3	SB25 (0-3)	Total/NA	Solid	9010C	
500-256095-4	SB25 (3-5)	Total/NA	Solid	9010C	
500-256095-5	SB26 (0-3)	Total/NA	Solid	9010C	
MB 500-784639/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-784639/2-A	Lab Control Sample	Total/NA	Solid	9010C	

Prep Batch: 784697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	9010C	
500-256095-7	SB27 (0-3)	Total/NA	Solid	9010C	
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	9010C	
500-256095-9	SB28 (0-3)	Total/NA	Solid	9010C	
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	9010C	
500-256095-11	SB29 (0-3)	Total/NA	Solid	9010C	
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	9010C	
500-256095-13	SB30 (0-3)	Total/NA	Solid	9010C	
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	9010C	
MB 500-784697/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-784697/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256095-13 MS	SB30 (0-3)	Total/NA	Solid	9010C	
500-256095-13 MSD	SB30 (0-3)	Total/NA	Solid	9010C	

Analysis Batch: 784887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	9045D	
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	9045D	
500-256095-3	SB25 (0-3)	Total/NA	Solid	9045D	
500-256095-4	SB25 (3-5)	Total/NA	Solid	9045D	
500-256095-5	SB26 (0-3)	Total/NA	Solid	9045D	
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	9045D	
500-256095-7	SB27 (0-3)	Total/NA	Solid	9045D	
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	9045D	
500-256095-9	SB28 (0-3)	Total/NA	Solid	9045D	
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	9045D	
500-256095-11	SB29 (0-3)	Total/NA	Solid	9045D	
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	9045D	
500-256095-13	SB30 (0-3)	Total/NA	Solid	9045D	

General Chemistry (Continued)

Analysis Batch: 784887 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	9045D	
LCS 500-784887/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-784887/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-256095-11 DU	SB29 (0-3)	Total/NA	Solid	9045D	

Analysis Batch: 784958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	9012B	784639
500-256095-5	SB26 (0-3)	Total/NA	Solid	9012B	784639

Analysis Batch: 784959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-784639/1-A	Method Blank	Total/NA	Solid	9012B	784639
LCS 500-784639/2-A	Lab Control Sample	Total/NA	Solid	9012B	784639

Analysis Batch: 785016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-3	SB25 (0-3)	Total/NA	Solid	9012B	784639
500-256095-4	SB25 (3-5)	Total/NA	Solid	9012B	784639
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	9012B	784697
500-256095-7	SB27 (0-3)	Total/NA	Solid	9012B	784697
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	9012B	784697
500-256095-9	SB28 (0-3)	Total/NA	Solid	9012B	784697
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	9012B	784697
500-256095-11	SB29 (0-3)	Total/NA	Solid	9012B	784697
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	9012B	784697
500-256095-13	SB30 (0-3)	Total/NA	Solid	9012B	784697
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	9012B	784697
MB 500-784697/1-A	Method Blank	Total/NA	Solid	9012B	784697
LCS 500-784697/2-A	Lab Control Sample	Total/NA	Solid	9012B	784697
500-256095-13 MS	SB30 (0-3)	Total/NA	Solid	9012B	784697
500-256095-13 MSD	SB30 (0-3)	Total/NA	Solid	9012B	784697

Analysis Batch: 785352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	9012B	784639
MB 500-784639/1-A	Method Blank	Total/NA	Solid	9012B	784639
LCS 500-784639/2-A	Lab Control Sample	Total/NA	Solid	9012B	784639

Analysis Batch: 786215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	Total/NA	Solid	Moisture	
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	Moisture	
500-256095-3	SB25 (0-3)	Total/NA	Solid	Moisture	
500-256095-4	SB25 (3-5)	Total/NA	Solid	Moisture	
500-256095-5	SB26 (0-3)	Total/NA	Solid	Moisture	
500-256095-6	SB26 (7.5-10)	Total/NA	Solid	Moisture	
500-256095-7	SB27 (0-3)	Total/NA	Solid	Moisture	
500-256095-8	SB27 (5-7.5)	Total/NA	Solid	Moisture	
500-256095-9	SB28 (0-3)	Total/NA	Solid	Moisture	
500-256095-10	SB28 (10-12.5)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 786215 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-11	SB29 (0-3)	Total/NA	Solid	Moisture	
500-256095-12	SB29 (7.5-10)	Total/NA	Solid	Moisture	
500-256095-13	SB30 (0-3)	Total/NA	Solid	Moisture	
500-256095-14	SB30 (12.5-15)	Total/NA	Solid	Moisture	
500-256095-1 DU	SB24 (0-3)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid | **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-256095-1	SB24 (0-3)	105	118	102	109
500-256095-2	SB24 (7.5-10)	105	129	107	122
500-256095-3	SB25 (0-3)	108	120	100	108
500-256095-4	SB25 (3-5)	103	119	98	108
500-256095-5	SB26 (0-3)	111	106	103	98
500-256095-6	SB26 (7.5-10)	101	109	99	98
500-256095-7	SB27 (0-3)	113	110	59 S1-	103
500-256095-10	SB28 (10-12.5)	98	130	101	108
500-256095-11	SB29 (0-3)	102	131	113	129 S1+
500-256095-12	SB29 (7.5-10)	115	108	103	101
500-256095-13	SB30 (0-3)	105	109	101	107
LCS 500-785424/4	Lab Control Sample	104	90	103	98
LCS 500-785633/4	Lab Control Sample	100	99	97	104
LCSD 500-785424/5	Lab Control Sample Dup	102	95	101	98
LCSD 500-785633/5	Lab Control Sample Dup	102	95	100	103
MB 500-785424/7	Method Blank	105	99	101	96
MB 500-785633/7	Method Blank	104	101	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid | **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-256095-8	SB27 (5-7.5)	100	93	89	89
500-256095-9	SB28 (0-3)	102	93	90	89
500-256095-14	SB30 (12.5-15)	96	99	96	100
LCS 500-785875/4	Lab Control Sample	91	91	86	91
LCS 500-786367/4	Lab Control Sample	95	101	98	99
MB 500-785875/7	Method Blank	94	95	86	88
MB 500-786367/7	Method Blank	97	100	99	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid | **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256095-1	SB24 (0-3)	72	77	73	78	34	85

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256095-2	SB24 (7.5-10)	47	50	45	55	47	65
500-256095-3	SB25 (0-3)	59	62	59	64	38	67
500-256095-4	SB25 (3-5)	60	64	59	69	19 S1-	74
500-256095-4 - DL	SB25 (3-5)	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
500-256095-5	SB26 (0-3)	49	61	69	78	41	90
500-256095-6	SB26 (7.5-10)	70	72	76	75	60	89
500-256095-6 MS	SB26 (7.5-10)	59	65	64	73	60	83
500-256095-6 MSD	SB26 (7.5-10)	59	66	63	73	62	84
500-256095-7	SB27 (0-3)	32	63	69	72	9 S1-	87
500-256095-8	SB27 (5-7.5)	51	61	74	77	19 S1-	86
500-256095-9	SB28 (0-3)	40	44	45	51	37	64
500-256095-10	SB28 (10-12.5)	65	67	60	66	67	86
500-256095-11	SB29 (0-3)	70	73	71	79	49	84
500-256095-12	SB29 (7.5-10)	62	66	65	71	52	73
500-256095-13	SB30 (0-3)	53	59	57	62	47	66
500-256095-14	SB30 (12.5-15)	50	74	79	78	19 S1-	94
LCS 500-785981/2-A	Lab Control Sample	84	88	91	86	92	90
MB 500-785981/1-A	Method Blank	87	86	89	79	79	90

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-256095-8	SB27 (5-7.5)	98	107
LCS 500-784769/6	Lab Control Sample	104	106
MB 500-784769/5	Method Blank	100	107

Surrogate Legend

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-256095-8	SB27 (5-7.5)	82	65
LCS 500-785024/2-A	Lab Control Sample	85	76
MB 500-785024/1-A	Method Blank	76	71

Surrogate Legend

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (33-148)	TCX2 (30-121)
500-256095-1	SB24 (0-3)	678 S1+	78
500-256095-1 MS	SB24 (0-3)	452 S1+	59
500-256095-1 MSD	SB24 (0-3)	671 S1+	84
500-256095-2	SB24 (7.5-10)	353 S1+	54
500-256095-3	SB25 (0-3)	555 S1+	78
500-256095-4	SB25 (3-5)	1237 S1+	148 S1+
500-256095-5	SB26 (0-3)	105	66
500-256095-6	SB26 (7.5-10)	81	88
500-256095-7	SB27 (0-3)	67	104
500-256095-8	SB27 (5-7.5)	92	121
500-256095-9	SB28 (0-3)	143	82
500-256095-10	SB28 (10-12.5)	95	161 S1+
500-256095-11	SB29 (0-3)	292 S1+	66
500-256095-12	SB29 (7.5-10)	206 S1+	58
500-256095-13	SB30 (0-3)	295 S1+	59
500-256095-14	SB30 (12.5-15)	80	87
LCS 500-785892/2-A	Lab Control Sample	80	57
MB 500-785892/1-A	Method Blank	69	47

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-256095-1	SB24 (0-3)	73	181 S1+
500-256095-1 MS	SB24 (0-3)	39 S1-	85
500-256095-1 MSD	SB24 (0-3)	96	211 S1+
500-256095-2	SB24 (7.5-10)	48 S1-	213 S1+
500-256095-3	SB25 (0-3)	49	162 S1+
500-256095-4	SB25 (3-5)	60	79
500-256095-5	SB26 (0-3)	62	71
500-256095-6	SB26 (7.5-10)	94	88
500-256095-7	SB27 (0-3)	55	91
500-256095-8	SB27 (5-7.5)	94	92
500-256095-9	SB28 (0-3)	131 S1+	77
500-256095-10	SB28 (10-12.5)	51	113
500-256095-11	SB29 (0-3)	57	63
500-256095-12	SB29 (7.5-10)	67	155 S1+
500-256095-13	SB30 (0-3)	75	80
500-256095-14	SB30 (12.5-15)	52	71
LCS 500-785892/3-A	Lab Control Sample	81	43
MB 500-785892/1-A	Method Blank	77	27 S1-

Surrogate Legend

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-785424/7
Matrix: Solid
Analysis Batch: 785424

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/11/24 11:15	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/11/24 11:15	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/11/24 11:15	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/11/24 11:15	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/11/24 11:15	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/11/24 11:15	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/11/24 11:15	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/11/24 11:15	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/11/24 11:15	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/11/24 11:15	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/11/24 11:15	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/11/24 11:15	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/11/24 11:15	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/11/24 11:15	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/11/24 11:15	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/11/24 11:15	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/11/24 11:15	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/11/24 11:15	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/11/24 11:15	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/11/24 11:15	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/11/24 11:15	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/11/24 11:15	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/11/24 11:15	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/11/24 11:15	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/11/24 11:15	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/11/24 11:15	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/11/24 11:15	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/11/24 11:15	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/11/24 11:15	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/11/24 11:15	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/11/24 11:15	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/11/24 11:15	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/11/24 11:15	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/11/24 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*09/11/24 11:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*		*09/11/24 11:15*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*09/11/24 11:15*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*		*09/11/24 11:15*	*1*

Lab Sample ID: LCS 500-785424/4
Matrix: Solid
Analysis Batch: 785424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0449		mg/Kg		90	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0493		mg/Kg		99	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785424/4
Matrix: Solid
Analysis Batch: 785424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0492		mg/Kg		98	70 - 125
1,1-Dichloroethane	0.0500	0.0438		mg/Kg		88	70 - 125
1,1-Dichloroethene	0.0500	0.0455		mg/Kg		91	70 - 120
1,2-Dichloroethane	0.0500	0.0475		mg/Kg		95	70 - 130
1,2-Dichloropropane	0.0500	0.0473		mg/Kg		95	70 - 125
2-Butanone (MEK)	0.0500	0.0567		mg/Kg		113	47 - 138
2-Hexanone	0.0500	0.0596		mg/Kg		119	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0599		mg/Kg		120	50 - 148
Acetone	0.0500	0.0525		mg/Kg		105	40 - 150
Benzene	0.0500	0.0461		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0488		mg/Kg		98	67 - 129
Bromoform	0.0500	0.0549		mg/Kg		110	68 - 136
Bromomethane	0.0500	0.0426		mg/Kg		85	70 - 130
Carbon disulfide	0.0500	0.0455		mg/Kg		91	70 - 129
Carbon tetrachloride	0.0500	0.0452		mg/Kg		90	75 - 125
Chlorobenzene	0.0500	0.0467		mg/Kg		93	50 - 150
Chloroethane	0.0500	0.0449		mg/Kg		90	75 - 125
Chloroform	0.0500	0.0464		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0392		mg/Kg		78	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0458		mg/Kg		92	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0474		mg/Kg		95	70 - 125
Dibromochloromethane	0.0500	0.0501		mg/Kg		100	69 - 125
Ethylbenzene	0.0500	0.0485		mg/Kg		97	61 - 136
Methyl tert-butyl ether	0.0500	0.0496		mg/Kg		99	50 - 140
Methylene Chloride	0.0500	0.0411		mg/Kg		82	70 - 126
Styrene	0.0500	0.0513		mg/Kg		103	70 - 125
Tetrachloroethene	0.0500	0.0444		mg/Kg		89	70 - 124
Toluene	0.0500	0.0467		mg/Kg		93	70 - 125
Xylenes, Total	0.100	0.0945		mg/Kg		94	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0486		mg/Kg		97	70 - 125
Trichloroethene	0.0500	0.0454		mg/Kg		91	70 - 125
Vinyl chloride	0.0500	0.0364		mg/Kg		73	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*
Dibromofluoromethane	*103*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 124*

Lab Sample ID: LCSD 500-785424/5
Matrix: Solid
Analysis Batch: 785424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0464		mg/Kg		93	70 - 128	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0516		mg/Kg		103	70 - 122	5	30
1,1,2-Trichloroethane	0.0500	0.0492		mg/Kg		98	70 - 125	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-785424/5
Matrix: Solid
Analysis Batch: 785424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0459		mg/Kg		92	70 - 125	5	30
1,1-Dichloroethene			0.0500	0.0452		mg/Kg		90	70 - 120	1	30
1,2-Dichloroethane			0.0500	0.0471		mg/Kg		94	70 - 130	1	30
1,2-Dichloropropane			0.0500	0.0479		mg/Kg		96	70 - 125	1	30
2-Butanone (MEK)			0.0500	0.0538		mg/Kg		108	47 - 138	5	30
2-Hexanone			0.0500	0.0578		mg/Kg		116	48 - 146	3	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0564		mg/Kg		113	50 - 148	6	30
Acetone			0.0500	0.0511		mg/Kg		102	40 - 150	3	30
Benzene			0.0500	0.0475		mg/Kg		95	70 - 125	3	30
Bromodichloromethane			0.0500	0.0503		mg/Kg		101	67 - 129	3	30
Bromoform			0.0500	0.0544		mg/Kg		109	68 - 136	1	30
Bromomethane			0.0500	0.0402		mg/Kg		80	70 - 130	6	30
Carbon disulfide			0.0500	0.0450		mg/Kg		90	70 - 129	1	30
Carbon tetrachloride			0.0500	0.0467		mg/Kg		93	75 - 125	3	30
Chlorobenzene			0.0500	0.0471		mg/Kg		94	50 - 150	1	30
Chloroethane			0.0500	0.0466		mg/Kg		93	75 - 125	4	30
Chloroform			0.0500	0.0468		mg/Kg		94	57 - 135	1	30
Chloromethane			0.0500	0.0382		mg/Kg		76	70 - 125	3	30
cis-1,2-Dichloroethene			0.0500	0.0461		mg/Kg		92	70 - 125	1	30
cis-1,3-Dichloropropene			0.0500	0.0481		mg/Kg		96	70 - 125	2	30
Dibromochloromethane			0.0500	0.0511		mg/Kg		102	69 - 125	2	30
Ethylbenzene			0.0500	0.0481		mg/Kg		96	61 - 136	1	30
Methyl tert-butyl ether			0.0500	0.0501		mg/Kg		100	50 - 140	1	30
Methylene Chloride			0.0500	0.0429		mg/Kg		86	70 - 126	4	30
Styrene			0.0500	0.0512		mg/Kg		102	70 - 125	0	30
Tetrachloroethene			0.0500	0.0449		mg/Kg		90	70 - 124	1	30
Toluene			0.0500	0.0464		mg/Kg		93	70 - 125	1	30
Xylenes, Total			0.100	0.0950		mg/Kg		95	53 - 147	1	30
trans-1,2-Dichloroethene			0.0500	0.0459		mg/Kg		92	70 - 125	1	30
trans-1,3-Dichloropropene			0.0500	0.0471		mg/Kg		94	70 - 125	3	30
Trichloroethene			0.0500	0.0464		mg/Kg		93	70 - 125	2	30
Vinyl chloride			0.0500	0.0365		mg/Kg		73	70 - 125	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 124*

Lab Sample ID: MB 500-785633/7
Matrix: Solid
Analysis Batch: 785633

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/12/24 11:13	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/12/24 11:13	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/12/24 11:13	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/12/24 11:13	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-785633/7
Matrix: Solid
Analysis Batch: 785633

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/12/24 11:13	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/12/24 11:13	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/12/24 11:13	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/12/24 11:13	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/12/24 11:13	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/12/24 11:13	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/12/24 11:13	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/12/24 11:13	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/12/24 11:13	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/12/24 11:13	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/12/24 11:13	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/12/24 11:13	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/12/24 11:13	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/12/24 11:13	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/12/24 11:13	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/12/24 11:13	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/12/24 11:13	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/12/24 11:13	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/12/24 11:13	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/12/24 11:13	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/12/24 11:13	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/12/24 11:13	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/12/24 11:13	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/12/24 11:13	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/12/24 11:13	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/12/24 11:13	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/12/24 11:13	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/12/24 11:13	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/12/24 11:13	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/12/24 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*09/12/24 11:13*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*		*09/12/24 11:13*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*09/12/24 11:13*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*		*09/12/24 11:13*	*1*

Lab Sample ID: LCS 500-785633/4
Matrix: Solid
Analysis Batch: 785633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0460		mg/Kg		92	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0387		mg/Kg		77	70 - 122
1,1,2-Trichloroethane	0.0500	0.0423		mg/Kg		85	70 - 125
1,1-Dichloroethane	0.0500	0.0395		mg/Kg		79	70 - 125
1,1-Dichloroethene	0.0500	0.0405		mg/Kg		81	70 - 120
1,2-Dichloroethane	0.0500	0.0440		mg/Kg		88	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785633/4
Matrix: Solid
Analysis Batch: 785633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0410		mg/Kg		82	70 - 125
2-Butanone (MEK)	0.0500	0.0441		mg/Kg		88	47 - 138
2-Hexanone	0.0500	0.0438		mg/Kg		88	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0426		mg/Kg		85	50 - 148
Acetone	0.0500	0.0381		mg/Kg		76	40 - 150
Benzene	0.0500	0.0432		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0458		mg/Kg		92	67 - 129
Bromoform	0.0500	0.0417		mg/Kg		83	68 - 136
Bromomethane	0.0500	0.0448		mg/Kg		90	70 - 130
Carbon disulfide	0.0500	0.0410		mg/Kg		82	70 - 129
Carbon tetrachloride	0.0500	0.0462		mg/Kg		92	75 - 125
Chlorobenzene	0.0500	0.0433		mg/Kg		87	50 - 150
Chloroethane	0.0500	0.0421		mg/Kg		84	75 - 125
Chloroform	0.0500	0.0416		mg/Kg		83	57 - 135
Chloromethane	0.0500	0.0372		mg/Kg		74	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0408		mg/Kg		82	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0455		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0451		mg/Kg		90	69 - 125
Ethylbenzene	0.0500	0.0449		mg/Kg		90	61 - 136
Methyl tert-butyl ether	0.0500	0.0412		mg/Kg		82	50 - 140
Methylene Chloride	0.0500	0.0383		mg/Kg		77	70 - 126
Styrene	0.0500	0.0442		mg/Kg		88	70 - 125
Tetrachloroethene	0.0500	0.0481		mg/Kg		96	70 - 124
Toluene	0.0500	0.0439		mg/Kg		88	70 - 125
Xylenes, Total	0.100	0.0886		mg/Kg		89	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0410		mg/Kg		82	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0461		mg/Kg		92	70 - 125
Trichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
Vinyl chloride	0.0500	0.0419		mg/Kg		84	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*
Dibromofluoromethane	*97*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 124*

Lab Sample ID: LCSD 500-785633/5
Matrix: Solid
Analysis Batch: 785633

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0476		mg/Kg		95	70 - 128	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0398		mg/Kg		80	70 - 122	3	30
1,1,2-Trichloroethane	0.0500	0.0449		mg/Kg		90	70 - 125	6	30
1,1-Dichloroethane	0.0500	0.0421		mg/Kg		84	70 - 125	6	30
1,1-Dichloroethene	0.0500	0.0422		mg/Kg		84	70 - 120	4	30
1,2-Dichloroethane	0.0500	0.0467		mg/Kg		93	70 - 130	6	30
1,2-Dichloropropane	0.0500	0.0451		mg/Kg		90	70 - 125	9	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-785633/5
Matrix: Solid
Analysis Batch: 785633

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			0.0500	0.0491		mg/Kg		98	47 - 138	11	30
2-Hexanone			0.0500	0.0458		mg/Kg		92	48 - 146	4	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0459		mg/Kg		92	50 - 148	7	30
Acetone			0.0500	0.0422		mg/Kg		84	40 - 150	10	30
Benzene			0.0500	0.0454		mg/Kg		91	70 - 125	5	30
Bromodichloromethane			0.0500	0.0488		mg/Kg		98	67 - 129	6	30
Bromoform			0.0500	0.0452		mg/Kg		90	68 - 136	8	30
Bromomethane			0.0500	0.0443		mg/Kg		89	70 - 130	1	30
Carbon disulfide			0.0500	0.0413		mg/Kg		83	70 - 129	1	30
Carbon tetrachloride			0.0500	0.0476		mg/Kg		95	75 - 125	3	30
Chlorobenzene			0.0500	0.0455		mg/Kg		91	50 - 150	5	30
Chloroethane			0.0500	0.0430		mg/Kg		86	75 - 125	2	30
Chloroform			0.0500	0.0446		mg/Kg		89	57 - 135	7	30
Chloromethane			0.0500	0.0388		mg/Kg		78	70 - 125	4	30
cis-1,2-Dichloroethene			0.0500	0.0428		mg/Kg		86	70 - 125	5	30
cis-1,3-Dichloropropene			0.0500	0.0491		mg/Kg		98	70 - 125	8	30
Dibromochloromethane			0.0500	0.0471		mg/Kg		94	69 - 125	4	30
Ethylbenzene			0.0500	0.0467		mg/Kg		93	61 - 136	4	30
Methyl tert-butyl ether			0.0500	0.0459		mg/Kg		92	50 - 140	11	30
Methylene Chloride			0.0500	0.0389		mg/Kg		78	70 - 126	2	30
Styrene			0.0500	0.0472		mg/Kg		94	70 - 125	7	30
Tetrachloroethene			0.0500	0.0494		mg/Kg		99	70 - 124	3	30
Toluene			0.0500	0.0463		mg/Kg		93	70 - 125	5	30
Xylenes, Total			0.100	0.0938		mg/Kg		94	53 - 147	6	30
trans-1,2-Dichloroethene			0.0500	0.0425		mg/Kg		85	70 - 125	4	30
trans-1,3-Dichloropropene			0.0500	0.0481		mg/Kg		96	70 - 125	4	30
Trichloroethene			0.0500	0.0465		mg/Kg		93	70 - 125	3	30
Vinyl chloride			0.0500	0.0431		mg/Kg		86	70 - 125	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*
Dibromofluoromethane	*100*		*75 - 126*
Toluene-d8 (Surr)	*103*		*75 - 124*

Lab Sample ID: MB 500-785875/7
Matrix: Solid
Analysis Batch: 785875

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			09/13/24 12:36	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			09/13/24 12:36	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			09/13/24 12:36	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			09/13/24 12:36	1
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			09/13/24 12:36	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			09/13/24 12:36	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			09/13/24 12:36	1
2-Butanone (MEK)	<0.0031		0.0050	0.0031	mg/Kg			09/13/24 12:36	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-785875/7
Matrix: Solid
Analysis Batch: 785875

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<0.0029		0.0050	0.0029	mg/Kg			09/13/24 12:36	1
4-Methyl-2-pentanone (MIBK)	<0.0027		0.0050	0.0027	mg/Kg			09/13/24 12:36	1
Acetone	<0.0072		0.010	0.0072	mg/Kg			09/13/24 12:36	1
Benzene	<0.00012		0.00025	0.00012	mg/Kg			09/13/24 12:36	1
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			09/13/24 12:36	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			09/13/24 12:36	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			09/13/24 12:36	1
Carbon disulfide	<0.0011		0.0020	0.0011	mg/Kg			09/13/24 12:36	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			09/13/24 12:36	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			09/13/24 12:36	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			09/13/24 12:36	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			09/13/24 12:36	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			09/13/24 12:36	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			09/13/24 12:36	1
1,3-Dichloropropene, Total	<0.00063		0.0010	0.00063	mg/Kg			09/13/24 12:36	1
Dibromochloromethane	<0.00083		0.0010	0.00083	mg/Kg			09/13/24 12:36	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			09/13/24 12:36	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			09/13/24 12:36	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/13/24 12:36	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			09/13/24 12:36	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			09/13/24 12:36	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			09/13/24 12:36	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			09/13/24 12:36	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			09/13/24 12:36	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			09/13/24 12:36	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			09/13/24 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*09/13/24 12:36*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*09/13/24 12:36*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*09/13/24 12:36*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*09/13/24 12:36*	*1*

Lab Sample ID: LCS 500-785875/4
Matrix: Solid
Analysis Batch: 785875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0530		mg/Kg		106	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0395		mg/Kg		79	62 - 140
1,1,2-Trichloroethane	0.0500	0.0411		mg/Kg		82	71 - 130
1,1-Dichloroethane	0.0500	0.0491		mg/Kg		98	70 - 125
1,1-Dichloroethene	0.0500	0.0520		mg/Kg		104	67 - 122
1,2-Dichloroethane	0.0500	0.0481		mg/Kg		96	68 - 127
1,2-Dichloropropane	0.0500	0.0433		mg/Kg		87	67 - 130
2-Butanone (MEK)	0.0500	0.0406		mg/Kg		81	46 - 144
2-Hexanone	0.0500	0.0423		mg/Kg		85	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0438		mg/Kg		88	55 - 139

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785875/4
Matrix: Solid
Analysis Batch: 785875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0487		mg/Kg		97	40 - 143
Benzene	0.0500	0.0420		mg/Kg		84	70 - 120
Bromodichloromethane	0.0500	0.0418		mg/Kg		84	69 - 120
Bromoform	0.0500	0.0411		mg/Kg		82	56 - 132
Bromomethane	0.0500	0.0633		mg/Kg		127	40 - 152
Carbon disulfide	0.0500	0.0484		mg/Kg		97	66 - 120
Carbon tetrachloride	0.0500	0.0535		mg/Kg		107	59 - 133
Chlorobenzene	0.0500	0.0462		mg/Kg		92	70 - 120
Chloroethane	0.0500	0.0611		mg/Kg		122	48 - 136
Chloroform	0.0500	0.0456		mg/Kg		91	70 - 120
Chloromethane	0.0500	0.0651		mg/Kg		130	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0452		mg/Kg		90	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0453		mg/Kg		91	64 - 127
Dibromochloromethane	0.0500	0.0441		mg/Kg		88	68 - 125
Ethylbenzene	0.0500	0.0450		mg/Kg		90	70 - 123
Methyl tert-butyl ether	0.0500	0.0421		mg/Kg		84	55 - 123
Methylene Chloride	0.0500	0.0434		mg/Kg		87	69 - 125
Styrene	0.0500	0.0474		mg/Kg		95	70 - 120
Tetrachloroethene	0.0500	0.0500		mg/Kg		100	70 - 128
Toluene	0.0500	0.0427		mg/Kg		85	70 - 125
Xylenes, Total	0.100	0.0923		mg/Kg		92	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0498		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0413		mg/Kg		83	62 - 128
Trichloroethene	0.0500	0.0430		mg/Kg		86	70 - 125
Vinyl chloride	0.0500	0.0398		mg/Kg		80	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane	*86*		*75 - 120*
Toluene-d8 (Surr)	*91*		*75 - 120*

Lab Sample ID: MB 500-786367/7
Matrix: Solid
Analysis Batch: 786367

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			09/17/24 10:56	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			09/17/24 10:56	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			09/17/24 10:56	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			09/17/24 10:56	1
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			09/17/24 10:56	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			09/17/24 10:56	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			09/17/24 10:56	1
2-Butanone (MEK)	<0.0031		0.0050	0.0031	mg/Kg			09/17/24 10:56	1
2-Hexanone	<0.0029		0.0050	0.0029	mg/Kg			09/17/24 10:56	1
4-Methyl-2-pentanone (MIBK)	<0.0027		0.0050	0.0027	mg/Kg			09/17/24 10:56	1
Acetone	<0.0072		0.010	0.0072	mg/Kg			09/17/24 10:56	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-786367/7
Matrix: Solid
Analysis Batch: 786367

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00012		0.00025	0.00012	mg/Kg			09/17/24 10:56	1
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			09/17/24 10:56	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			09/17/24 10:56	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			09/17/24 10:56	1
Carbon disulfide	<0.0011		0.0020	0.0011	mg/Kg			09/17/24 10:56	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			09/17/24 10:56	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			09/17/24 10:56	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			09/17/24 10:56	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			09/17/24 10:56	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			09/17/24 10:56	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			09/17/24 10:56	1
1,3-Dichloropropene, Total	<0.00063		0.0010	0.00063	mg/Kg			09/17/24 10:56	1
Dibromochloromethane	<0.00083		0.0010	0.00083	mg/Kg			09/17/24 10:56	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			09/17/24 10:56	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			09/17/24 10:56	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/17/24 10:56	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			09/17/24 10:56	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			09/17/24 10:56	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			09/17/24 10:56	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			09/17/24 10:56	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			09/17/24 10:56	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			09/17/24 10:56	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			09/17/24 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*09/17/24 10:56*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*09/17/24 10:56*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*09/17/24 10:56*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*09/17/24 10:56*	*1*

Lab Sample ID: LCS 500-786367/4
Matrix: Solid
Analysis Batch: 786367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0514		mg/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0471		mg/Kg		94	62 - 140
1,1,2-Trichloroethane	0.0500	0.0493		mg/Kg		99	71 - 130
1,1-Dichloroethane	0.0500	0.0497		mg/Kg		99	70 - 125
1,1-Dichloroethene	0.0500	0.0520		mg/Kg		104	67 - 122
1,2-Dichloroethane	0.0500	0.0477		mg/Kg		95	68 - 127
1,2-Dichloropropane	0.0500	0.0482		mg/Kg		96	67 - 130
2-Butanone (MEK)	0.0500	0.0407		mg/Kg		81	46 - 144
2-Hexanone	0.0500	0.0411		mg/Kg		82	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0428		mg/Kg		86	55 - 139
Acetone	0.0500	0.0379		mg/Kg		76	40 - 143
Benzene	0.0500	0.0485		mg/Kg		97	70 - 120
Bromodichloromethane	0.0500	0.0481		mg/Kg		96	69 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786367/4
Matrix: Solid
Analysis Batch: 786367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	0.0500	0.0464		mg/Kg		93	56 - 132
Bromomethane	0.0500	0.0457		mg/Kg		91	40 - 152
Carbon disulfide	0.0500	0.0506		mg/Kg		101	66 - 120
Carbon tetrachloride	0.0500	0.0524		mg/Kg		105	59 - 133
Chlorobenzene	0.0500	0.0488		mg/Kg		98	70 - 120
Chloroethane	0.0500	0.0375		mg/Kg		75	48 - 136
Chloroform	0.0500	0.0466		mg/Kg		93	70 - 120
Chloromethane	0.0500	0.0505		mg/Kg		101	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0467		mg/Kg		93	64 - 127
Dibromochloromethane	0.0500	0.0478		mg/Kg		96	68 - 125
Ethylbenzene	0.0500	0.0470		mg/Kg		94	70 - 123
Methyl tert-butyl ether	0.0500	0.0482		mg/Kg		96	55 - 123
Methylene Chloride	0.0500	0.0484		mg/Kg		97	69 - 125
Styrene	0.0500	0.0493		mg/Kg		99	70 - 120
Tetrachloroethene	0.0500	0.0535		mg/Kg		107	70 - 128
Toluene	0.0500	0.0450		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0938		mg/Kg		94	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0511		mg/Kg		102	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0464		mg/Kg		93	62 - 128
Trichloroethene	0.0500	0.0496		mg/Kg		99	70 - 125
Vinyl chloride	0.0500	0.0528		mg/Kg		106	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane	*98*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-785981/1-A
Matrix: Solid
Analysis Batch: 786129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/13/24 12:05	09/16/24 11:35	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-785981/1-A
Matrix: Solid
Analysis Batch: 786129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/13/24 12:05	09/16/24 11:35	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-785981/1-A
Matrix: Solid
Analysis Batch: 786129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/13/24 12:05	09/16/24 11:35	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/13/24 12:05	09/16/24 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*87*		*31 - 166*	*09/13/24 12:05*	*09/16/24 11:35*	*1*
Phenol-d5 (Surr)	*86*		*30 - 153*	*09/13/24 12:05*	*09/16/24 11:35*	*1*
Nitrobenzene-d5 (Surr)	*89*		*37 - 147*	*09/13/24 12:05*	*09/16/24 11:35*	*1*
2-Fluorobiphenyl (Surr)	*79*		*43 - 145*	*09/13/24 12:05*	*09/16/24 11:35*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*31 - 143*	*09/13/24 12:05*	*09/16/24 11:35*	*1*
Terphenyl-d14 (Surr)	*90*		*42 - 157*	*09/13/24 12:05*	*09/16/24 11:35*	*1*

Lab Sample ID: LCS 500-785981/2-A
Matrix: Solid
Analysis Batch: 786129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	3.02		mg/Kg		90	63 - 109
Acenaphthylene	3.33	3.15		mg/Kg		95	61 - 115
Anthracene	3.33	3.20		mg/Kg		96	68 - 120
Benzo[a]anthracene	3.33	3.04		mg/Kg		91	70 - 121
Benzo[a]pyrene	3.33	3.30		mg/Kg		99	73 - 132
Benzo[b]fluoranthene	3.33	3.49		mg/Kg		105	68 - 123
Benzo[g,h,i]perylene	3.33	3.42		mg/Kg		103	65 - 126
Benzo[k]fluoranthene	3.33	3.29		mg/Kg		99	64 - 128
Chrysene	3.33	3.18		mg/Kg		95	70 - 123
Dibenz(a,h)anthracene	3.33	3.37		mg/Kg		101	66 - 125
Fluoranthene	3.33	3.12		mg/Kg		93	66 - 123
Fluorene	3.33	2.98		mg/Kg		89	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.28		mg/Kg		99	66 - 131
Naphthalene	3.33	2.72		mg/Kg		81	54 - 98
Phenanthrene	3.33	3.10		mg/Kg		93	65 - 115
Pyrene	3.33	3.19		mg/Kg		96	71 - 128
1,2,4-Trichlorobenzene	3.33	2.40		mg/Kg		72	49 - 100
1,2-Dichlorobenzene	3.33	2.49		mg/Kg		75	47 - 94
1,3-Dichlorobenzene	3.33	2.52		mg/Kg		75	47 - 92
1,4-Dichlorobenzene	3.33	2.45		mg/Kg		74	46 - 92
2,4,5-Trichlorophenol	3.33	2.92		mg/Kg		88	48 - 121
2,4,6-Trichlorophenol	3.33	2.74		mg/Kg		82	50 - 121
2,4-Dichlorophenol	3.33	2.65		mg/Kg		80	51 - 109
2,4-Dimethylphenol	3.33	3.07		mg/Kg		92	48 - 93
2,4-Dinitrophenol	6.67	3.42		mg/Kg		51	10 - 130
2,4-Dinitrotoluene	3.33	3.02		mg/Kg		91	65 - 120
2,6-Dinitrotoluene	3.33	2.98		mg/Kg		89	66 - 117
2-Chloronaphthalene	3.33	2.86		mg/Kg		86	60 - 107
2-Chlorophenol	3.33	2.78		mg/Kg		84	50 - 102
2-Methylnaphthalene	3.33	2.51		mg/Kg		75	58 - 103
2-Methylphenol	3.33	2.87		mg/Kg		86	50 - 104
2-Nitroaniline	3.33	3.75		mg/Kg		112	61 - 126

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-785981/2-A
Matrix: Solid
Analysis Batch: 786129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Nitrophenol	3.33	2.69		mg/Kg		81	41 - 114
3,3'-Dichlorobenzidine	3.33	2.97		mg/Kg		89	36 - 131
3 & 4 Methylphenol	3.33	2.85		mg/Kg		85	49 - 109
3-Nitroaniline	3.33	2.95		mg/Kg		89	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.87		mg/Kg		73	36 - 138
4-Bromophenyl phenyl ether	3.33	3.08		mg/Kg		92	57 - 124
4-Chloro-3-methylphenol	3.33	3.13		mg/Kg		94	57 - 113
4-Chloroaniline	3.33	2.63		mg/Kg		79	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.86		mg/Kg		86	60 - 112
4-Nitroaniline	3.33	2.93		mg/Kg		88	60 - 115
4-Nitrophenol	6.67	6.25		mg/Kg		94	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.91		mg/Kg		87	54 - 102
Bis(2-chloroethyl)ether	3.33	2.83		mg/Kg		85	49 - 99
bis(chloroisopropyl) ether	3.33	3.06		mg/Kg		92	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.34		mg/Kg		100	70 - 139
Butyl benzyl phthalate	3.33	3.44		mg/Kg		103	65 - 140
Carbazole	3.33	3.12		mg/Kg		94	68 - 120
Dibenzofuran	3.33	2.95		mg/Kg		88	64 - 112
Diethyl phthalate	3.33	3.19		mg/Kg		96	66 - 115
Dimethyl phthalate	3.33	3.09		mg/Kg		93	65 - 114
Di-n-butyl phthalate	3.33	3.34		mg/Kg		100	69 - 125
Di-n-octyl phthalate	3.33	3.39		mg/Kg		102	61 - 131
Hexachlorobenzene	3.33	3.14		mg/Kg		94	52 - 126
Hexachlorobutadiene	3.33	2.48		mg/Kg		74	42 - 103
Hexachlorocyclopentadiene	3.33	1.80		mg/Kg		54	10 - 100
Hexachloroethane	3.33	2.72		mg/Kg		82	45 - 95
Isophorone	3.33	2.99		mg/Kg		90	47 - 108
Nitrobenzene	3.33	2.97		mg/Kg		89	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.98		mg/Kg		89	48 - 110
N-Nitrosodiphenylamine	3.33	3.09		mg/Kg		93	67 - 112
Pentachlorophenol	6.67	5.63		mg/Kg		84	32 - 128
Phenol	3.33	2.80		mg/Kg		84	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*84*		*31 - 166*
Phenol-d5 (Surr)	*88*		*30 - 153*
Nitrobenzene-d5 (Surr)	*91*		*37 - 147*
2-Fluorobiphenyl (Surr)	*86*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*92*		*31 - 143*
Terphenyl-d14 (Surr)	*90*		*42 - 157*

Lab Sample ID: 500-256095-6 MS
Matrix: Solid
Analysis Batch: 786128

Client Sample ID: SB26 (7.5-10)
Prep Type: Total/NA
Prep Batch: 785981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	<0.0074		3.60	2.88		mg/Kg	☼	80	65 - 124
Acenaphthylene	<0.0062		3.60	3.05		mg/Kg	☼	85	68 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256095-6 MS
Matrix: Solid
Analysis Batch: 786128

Client Sample ID: SB26 (7.5-10)
Prep Type: Total/NA
Prep Batch: 785981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	<0.0075		3.60	3.13		mg/Kg	☼	87	70 - 114
Benzo[a]anthracene	0.023	J	3.60	3.09		mg/Kg	☼	85	67 - 122
Benzo[a]pyrene	<0.035		3.60	3.39		mg/Kg	☼	94	65 - 133
Benzo[b]fluoranthene	0.035	J	3.60	3.56		mg/Kg	☼	98	69 - 129
Benzo[g,h,i]perylene	0.022	J	3.60	3.50		mg/Kg	☼	97	72 - 131
Benzo[k]fluoranthene	<0.014		3.60	3.11		mg/Kg	☼	87	68 - 127
Chrysene	0.023	J	3.60	2.98		mg/Kg	☼	82	63 - 120
Dibenz(a,h)anthracene	<0.036		3.60	3.56		mg/Kg	☼	99	64 - 131
Fluoranthene	0.027	J	3.60	3.09		mg/Kg	☼	85	62 - 120
Fluorene	<0.011		3.60	2.90		mg/Kg	☼	81	62 - 120
Indeno[1,2,3-cd]pyrene	<0.036		3.60	3.59		mg/Kg	☼	100	68 - 130
Naphthalene	<0.0066	F1	3.60	2.25		mg/Kg	☼	63	63 - 110
Phenanthrene	0.017	J	3.60	3.11		mg/Kg	☼	86	62 - 120
Pyrene	0.024	J	3.60	3.39		mg/Kg	☼	94	61 - 128
1,2,4-Trichlorobenzene	<0.026	F1	3.60	2.12	F1	mg/Kg	☼	59	66 - 117
1,2-Dichlorobenzene	<0.015	F1	3.60	1.91	F1	mg/Kg	☼	53	62 - 110
1,3-Dichlorobenzene	<0.016	F1	3.60	1.88	F1	mg/Kg	☼	52	60 - 110
1,4-Dichlorobenzene	<0.017	F1	3.60	1.85	F1	mg/Kg	☼	52	61 - 110
2,4,5-Trichlorophenol	<0.014		3.60	2.88		mg/Kg	☼	80	50 - 120
2,4,6-Trichlorophenol	<0.012		3.60	2.61		mg/Kg	☼	72	57 - 120
2,4-Dichlorophenol	<0.013		3.60	2.39		mg/Kg	☼	66	58 - 120
2,4-Dimethylphenol	<0.082	F1	3.60	1.98	F1	mg/Kg	☼	55	60 - 110
2,4-Dinitrophenol	<0.21	F1 F2	7.19	0.451	J F1	mg/Kg	☼	6	10 - 100
2,4-Dinitrotoluene	<0.021		3.60	3.14		mg/Kg	☼	87	69 - 124
2,6-Dinitrotoluene	<0.012		3.60	3.18		mg/Kg	☼	88	70 - 123
2-Chloronaphthalene	<0.014		3.60	2.78		mg/Kg	☼	77	69 - 114
2-Chlorophenol	<0.012	F1	3.60	2.19	F1	mg/Kg	☼	61	64 - 110
2-Methylnaphthalene	<0.0073	F1	3.60	2.17	F1	mg/Kg	☼	60	69 - 112
2-Methylphenol	<0.019		3.60	2.20		mg/Kg	☼	61	60 - 120
2-Nitroaniline	<0.020		3.60	3.35		mg/Kg	☼	93	57 - 124
2-Nitrophenol	<0.025		3.60	2.40		mg/Kg	☼	67	60 - 120
3,3'-Dichlorobenzidine	<0.030		3.60	2.20		mg/Kg	☼	61	35 - 128
3 & 4 Methylphenol	<0.027		3.60	2.15		mg/Kg	☼	60	57 - 120
3-Nitroaniline	<0.017		3.60	2.96		mg/Kg	☼	82	40 - 122
4,6-Dinitro-2-methylphenol	<0.21	F2	7.19	2.13		mg/Kg	☼	30	10 - 110
4-Bromophenyl phenyl ether	<0.025		3.60	3.18		mg/Kg	☼	88	68 - 118
4-Chloro-3-methylphenol	<0.014		3.60	2.68		mg/Kg	☼	74	65 - 122
4-Chloroaniline	<0.38		3.60	2.30		mg/Kg	☼	64	30 - 150
4-Chlorophenyl phenyl ether	<0.048		3.60	2.74		mg/Kg	☼	76	62 - 119
4-Nitroaniline	<0.027		3.60	2.66		mg/Kg	☼	74	60 - 160
4-Nitrophenol	<0.14		7.19	5.00		mg/Kg	☼	69	30 - 122
Bis(2-chloroethoxy)methane	<0.014		3.60	2.60		mg/Kg	☼	72	60 - 112
Bis(2-chloroethyl)ether	<0.017		3.60	2.22		mg/Kg	☼	62	55 - 111
bis(chloroisopropyl) ether	<0.026		3.60	2.31		mg/Kg	☼	64	40 - 124
Bis(2-ethylhexyl) phthalate	<0.14		3.60	3.37		mg/Kg	☼	94	72 - 131
Butyl benzyl phthalate	<0.018		3.60	3.58		mg/Kg	☼	99	71 - 129
Carbazole	<0.014		3.60	2.97		mg/Kg	☼	82	65 - 142
Dibenzofuran	<0.013		3.60	2.83		mg/Kg	☼	79	66 - 115
Diethyl phthalate	<0.017		3.60	3.06		mg/Kg	☼	85	58 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256095-6 MS
Matrix: Solid
Analysis Batch: 786128

Client Sample ID: SB26 (7.5-10)
Prep Type: Total/NA
Prep Batch: 785981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethyl phthalate	<0.0079		3.60	3.07		mg/Kg	☼	85	69 - 116
Di-n-butyl phthalate	<0.012		3.60	3.29		mg/Kg	☼	91	65 - 120
Di-n-octyl phthalate	<0.26		3.60	3.29		mg/Kg	☼	91	68 - 134
Hexachlorobenzene	<0.0070		3.60	3.02		mg/Kg	☼	84	63 - 124
Hexachlorobutadiene	<0.021		3.60	2.01		mg/Kg	☼	56	56 - 120
Hexachlorocyclopentadiene	<0.39		3.60	1.33		mg/Kg	☼	37	10 - 133
Hexachloroethane	<0.018	F1	3.60	2.01	F1	mg/Kg	☼	56	60 - 114
Isophorone	<0.019		3.60	2.61		mg/Kg	☼	73	55 - 110
Nitrobenzene	<0.012		3.60	2.43		mg/Kg	☼	68	60 - 116
N-Nitrosodi-n-propylamine	<0.0072		3.60	2.45		mg/Kg	☼	68	56 - 118
N-Nitrosodiphenylamine	<0.022		3.60	2.76		mg/Kg	☼	77	65 - 112
Pentachlorophenol	<0.091		7.19	2.93		mg/Kg	☼	41	13 - 112
Phenol	<0.016		3.60	2.53		mg/Kg	☼	70	56 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*59*		*31 - 166*
Phenol-d5 (Surr)	*65*		*30 - 153*
Nitrobenzene-d5 (Surr)	*64*		*37 - 147*
2-Fluorobiphenyl (Surr)	*73*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*60*		*31 - 143*
Terphenyl-d14 (Surr)	*83*		*42 - 157*

Lab Sample ID: 500-256095-6 MSD
Matrix: Solid
Analysis Batch: 786128

Client Sample ID: SB26 (7.5-10)
Prep Type: Total/NA
Prep Batch: 785981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	<0.0074		3.69	2.97		mg/Kg	☼	80	65 - 124	3	30
Acenaphthylene	<0.0062		3.69	3.17		mg/Kg	☼	86	68 - 120	4	30
Anthracene	<0.0075		3.69	3.27		mg/Kg	☼	89	70 - 114	4	30
Benzo[a]anthracene	0.023	J	3.69	3.25		mg/Kg	☼	88	67 - 122	5	30
Benzo[a]pyrene	<0.035		3.69	3.58		mg/Kg	☼	97	65 - 133	6	30
Benzo[b]fluoranthene	0.035	J	3.69	3.70		mg/Kg	☼	99	69 - 129	4	30
Benzo[g,h,i]perylene	0.022	J	3.69	3.73		mg/Kg	☼	101	72 - 131	6	30
Benzo[k]fluoranthene	<0.014		3.69	3.27		mg/Kg	☼	89	68 - 127	5	30
Chrysene	0.023	J	3.69	3.16		mg/Kg	☼	85	63 - 120	6	30
Dibenz(a,h)anthracene	<0.036		3.69	3.81		mg/Kg	☼	103	64 - 131	7	30
Fluoranthene	0.027	J	3.69	3.22		mg/Kg	☼	87	62 - 120	4	30
Fluorene	<0.011		3.69	3.00		mg/Kg	☼	81	62 - 120	3	30
Indeno[1,2,3-cd]pyrene	<0.036		3.69	4.00		mg/Kg	☼	108	68 - 130	11	30
Naphthalene	<0.0066	F1	3.69	2.29	F1	mg/Kg	☼	62	63 - 110	2	30
Phenanthrene	0.017	J	3.69	3.24		mg/Kg	☼	87	62 - 120	4	30
Pyrene	0.024	J	3.69	3.53		mg/Kg	☼	95	61 - 128	4	30
1,2,4-Trichlorobenzene	<0.026	F1	3.69	2.13	F1	mg/Kg	☼	58	66 - 117	1	30
1,2-Dichlorobenzene	<0.015	F1	3.69	1.98	F1	mg/Kg	☼	54	62 - 110	4	30
1,3-Dichlorobenzene	<0.016	F1	3.69	1.92	F1	mg/Kg	☼	52	60 - 110	2	30
1,4-Dichlorobenzene	<0.017	F1	3.69	1.90	F1	mg/Kg	☼	52	61 - 110	2	30
2,4,5-Trichlorophenol	<0.014		3.69	3.00		mg/Kg	☼	81	50 - 120	4	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256095-6 MSD
Matrix: Solid
Analysis Batch: 786128

Client Sample ID: SB26 (7.5-10)
Prep Type: Total/NA
Prep Batch: 785981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,6-Trichlorophenol	<0.012		3.69	2.72		mg/Kg	☼	74	57 - 120	4	30
2,4-Dichlorophenol	<0.013		3.69	2.48		mg/Kg	☼	67	58 - 120	4	30
2,4-Dimethylphenol	<0.082	F1	3.69	2.22		mg/Kg	☼	60	60 - 110	12	30
2,4-Dinitrophenol	<0.21	F1 F2	7.38	0.901	F2	mg/Kg	☼	12	10 - 100	67	30
2,4-Dinitrotoluene	<0.021		3.69	3.27		mg/Kg	☼	89	69 - 124	4	30
2,6-Dinitrotoluene	<0.012		3.69	3.32		mg/Kg	☼	90	70 - 123	4	30
2-Chloronaphthalene	<0.014		3.69	2.84		mg/Kg	☼	77	69 - 114	2	30
2-Chlorophenol	<0.012	F1	3.69	2.28	F1	mg/Kg	☼	62	64 - 110	4	30
2-Methylnaphthalene	<0.0073	F1	3.69	2.22	F1	mg/Kg	☼	60	69 - 112	3	30
2-Methylphenol	<0.019		3.69	2.29		mg/Kg	☼	62	60 - 120	4	30
2-Nitroaniline	<0.020		3.69	3.47		mg/Kg	☼	94	57 - 124	3	30
2-Nitrophenol	<0.025		3.69	2.45		mg/Kg	☼	66	60 - 120	2	30
3,3'-Dichlorobenzidine	<0.030		3.69	2.51		mg/Kg	☼	68	35 - 128	13	30
3 & 4 Methylphenol	<0.027		3.69	2.25		mg/Kg	☼	61	57 - 120	4	30
3-Nitroaniline	<0.017		3.69	3.04		mg/Kg	☼	82	40 - 122	3	30
4,6-Dinitro-2-methylphenol	<0.21	F2	7.38	3.39	F2	mg/Kg	☼	46	10 - 110	46	30
4-Bromophenyl phenyl ether	<0.025		3.69	3.26		mg/Kg	☼	89	68 - 118	3	30
4-Chloro-3-methylphenol	<0.014		3.69	2.83		mg/Kg	☼	77	65 - 122	6	30
4-Chloroaniline	<0.38		3.69	2.45		mg/Kg	☼	66	30 - 150	6	30
4-Chlorophenyl phenyl ether	<0.048		3.69	2.88		mg/Kg	☼	78	62 - 119	5	30
4-Nitroaniline	<0.027		3.69	2.81		mg/Kg	☼	76	60 - 160	5	30
4-Nitrophenol	<0.14		7.38	5.42		mg/Kg	☼	73	30 - 122	8	30
Bis(2-chloroethoxy)methane	<0.014		3.69	2.67		mg/Kg	☼	72	60 - 112	3	30
Bis(2-chloroethyl)ether	<0.017		3.69	2.25		mg/Kg	☼	61	55 - 111	1	30
bis(chloroisopropyl) ether	<0.026		3.69	2.34		mg/Kg	☼	64	40 - 124	1	30
Bis(2-ethylhexyl) phthalate	<0.14		3.69	3.55		mg/Kg	☼	96	72 - 131	5	30
Butyl benzyl phthalate	<0.018		3.69	3.75		mg/Kg	☼	102	71 - 129	5	30
Carbazole	<0.014		3.69	3.11		mg/Kg	☼	84	65 - 142	5	30
Dibenzofuran	<0.013		3.69	2.93		mg/Kg	☼	79	66 - 115	3	30
Diethyl phthalate	<0.017		3.69	3.18		mg/Kg	☼	86	58 - 120	4	30
Dimethyl phthalate	<0.0079		3.69	3.11		mg/Kg	☼	84	69 - 116	1	30
Di-n-butyl phthalate	<0.012		3.69	3.46		mg/Kg	☼	94	65 - 120	5	30
Di-n-octyl phthalate	<0.26		3.69	3.44		mg/Kg	☼	93	68 - 134	4	30
Hexachlorobenzene	<0.0070		3.69	3.20		mg/Kg	☼	87	63 - 124	6	30
Hexachlorobutadiene	<0.021		3.69	2.06		mg/Kg	☼	56	56 - 120	2	30
Hexachlorocyclopentadiene	<0.39		3.69	1.44		mg/Kg	☼	39	10 - 133	7	30
Hexachloroethane	<0.018	F1	3.69	2.04	F1	mg/Kg	☼	55	60 - 114	1	30
Isophorone	<0.019		3.69	2.70		mg/Kg	☼	73	55 - 110	3	30
Nitrobenzene	<0.012		3.69	2.46		mg/Kg	☼	67	60 - 116	1	30
N-Nitrosodi-n-propylamine	<0.0072		3.69	2.51		mg/Kg	☼	68	56 - 118	2	30
N-Nitrosodiphenylamine	<0.022		3.69	2.91		mg/Kg	☼	79	65 - 112	5	30
Pentachlorophenol	<0.091		7.38	3.41		mg/Kg	☼	46	13 - 112	15	30
Phenol	<0.016		3.69	2.62		mg/Kg	☼	71	56 - 122	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*59*		*31 - 166*
Phenol-d5 (Surr)	*66*		*30 - 153*
Nitrobenzene-d5 (Surr)	*63*		*37 - 147*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256095-6 MSD
Matrix: Solid
Analysis Batch: 786128

Client Sample ID: SB26 (7.5-10)
Prep Type: Total/NA
Prep Batch: 785981

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*62*		*31 - 143*
Terphenyl-d14 (Surr)	*84*		*42 - 157*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-784769/5
Matrix: Solid
Analysis Batch: 784769

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			09/05/24 20:37	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*70 - 130*		*09/05/24 20:37*	*50*
4-Bromofluorobenzene	*107*		*60 - 130*		*09/05/24 20:37*	*50*

Lab Sample ID: LCS 500-784769/6
Matrix: Solid
Analysis Batch: 784769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			19.9	17.1		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*70 - 130*
4-Bromofluorobenzene	*106*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-785024/1-A
Matrix: Solid
Analysis Batch: 785398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		09/09/24 07:38	09/10/24 20:30	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		09/09/24 07:38	09/10/24 20:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*50 - 126*	*09/09/24 07:38*	*09/10/24 20:30*	*1*
2-Fluorobiphenyl (Surr)	*71*		*40 - 133*	*09/09/24 07:38*	*09/10/24 20:30*	*1*

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 500-785024/2-A
Matrix: Solid
Analysis Batch: 785398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785024

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	48.8		mg/Kg		73	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*85*		*50 - 126*
2-Fluorobiphenyl (Surr)	*76*		*40 - 133*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-785892/1-A
Matrix: Solid
Analysis Batch: 786796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/13/24 07:40	09/19/24 10:09	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/13/24 07:40	09/19/24 10:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*33 - 148*	*09/13/24 07:40*	*09/19/24 10:09*	*1*
Tetrachloro-m-xylene	*47*		*30 - 121*	*09/13/24 07:40*	*09/19/24 10:09*	*1*

Lab Sample ID: LCS 500-785892/2-A
Matrix: Solid
Analysis Batch: 786796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785892

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			0.0133	0.00972		mg/Kg		73	47 - 137		
4,4'-DDE			0.0133	0.00931		mg/Kg		70	50 - 130		

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-785892/2-A
Matrix: Solid
Analysis Batch: 786796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDT	0.0133	0.0104		mg/Kg		78	46 - 143
Aldrin	0.0133	0.00813		mg/Kg		61	52 - 122
alpha-BHC	0.0133	0.00848		mg/Kg		64	50 - 123
beta-BHC	0.0133	0.00842		mg/Kg		63	44 - 140
delta-BHC	0.0133	0.00890		mg/Kg		67	57 - 125
Dieldrin	0.0133	0.00908		mg/Kg		68	51 - 133
Endosulfan I	0.0133	0.00668		mg/Kg		50	30 - 120
Endosulfan II	0.0133	0.00753		mg/Kg		57	30 - 120
Endosulfan sulfate	0.0133	0.00909		mg/Kg		68	42 - 150
Endrin	0.0133	0.00960		mg/Kg		72	43 - 144
Endrin aldehyde	0.0133	0.00937		mg/Kg		70	39 - 131
Endrin ketone	0.0133	0.0101		mg/Kg		75	51 - 135
gamma-BHC (Lindane)	0.0133	0.00868		mg/Kg		65	50 - 122
Heptachlor	0.0133	0.00865		mg/Kg		65	53 - 129
Heptachlor epoxide	0.0133	0.00859		mg/Kg		64	50 - 139
Methoxychlor	0.0133	0.0132		mg/Kg		99	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*80*		*33 - 148*
Tetrachloro-m-xylene	*57*		*30 - 121*

Lab Sample ID: 500-256095-1 MS
Matrix: Solid
Analysis Batch: 786796

Client Sample ID: SB24 (0-3)
Prep Type: Total/NA
Prep Batch: 785892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.0093	F1	0.0139	0.131	F1	mg/Kg	☼	941	47 - 137
4,4'-DDE	<0.0089	F1	0.0139	0.0679	F1	mg/Kg	☼	488	50 - 130
4,4'-DDT	<0.0082	F1	0.0139	0.142	F1	mg/Kg	☼	1020	46 - 143
Aldrin	<0.012	F1 F2	0.0139	0.0819	F1	mg/Kg	☼	588	52 - 122
alpha-BHC	<0.0098	F1	0.0139	0.0102	J	mg/Kg	☼	73	50 - 123
beta-BHC	<0.014	F2	0.0139	0.0425		mg/Kg	☼	NC	44 - 140
delta-BHC	<0.0083	F1 F2	0.0139	0.0432	F1	mg/Kg	☼	311	57 - 125
Dieldrin	<0.0091	F1 F2	0.0139	0.115	F1	mg/Kg	☼	824	51 - 133
Endosulfan I	<0.0094	F1 F2	0.0139	0.132	F1	mg/Kg	☼	947	30 - 120
Endosulfan II	<0.0095	F1	0.0139	0.0639	F1	mg/Kg	☼	459	30 - 120
Endosulfan sulfate	<0.0096	F1	0.0139	0.0328	F1	mg/Kg	☼	236	42 - 150
Endrin	<0.0088	F1	0.0139	0.108	F1	mg/Kg	☼	775	43 - 144
Endrin aldehyde	<0.0099	F1	0.0139	0.0679	F1	mg/Kg	☼	488	39 - 131
Endrin ketone	<0.0084	F1	0.0139	<0.0086	F1	mg/Kg	☼	0	51 - 135
Heptachlor	<0.0094	F1 F2	0.0139	0.0606	F1	mg/Kg	☼	435	53 - 129
Heptachlor epoxide	<0.0093	F1 F2	0.0139	0.894	E F1	mg/Kg	☼	6426	50 - 139
Methoxychlor	<0.011	F1	0.0139	<0.012	F1	mg/Kg	☼	0	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*452*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*59*		*30 - 121*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-256095-1 MSD
Matrix: Solid
Analysis Batch: 786796

Client Sample ID: SB24 (0-3)
Prep Type: Total/NA
Prep Batch: 785892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.0093	F1	0.0142	0.0998	F1	mg/Kg	☼	702	47 - 137	27	30
4,4'-DDE	<0.0089	F1	0.0142	0.0519	F1	mg/Kg	☼	366	50 - 130	27	30
4,4'-DDT	<0.0082	F1	0.0142	0.122	F1	mg/Kg	☼	856	46 - 143	15	30
Aldrin	<0.012	F1 F2	0.0142	0.0571	F1 F2	mg/Kg	☼	402	52 - 122	36	30
alpha-BHC	<0.0098	F1	0.0142	<0.010	F1	mg/Kg	☼	0	50 - 123	NC	30
delta-BHC	<0.0083	F1 F2	0.0142	0.0241	F1 F2	mg/Kg	☼	170	57 - 125	57	30
Dieldrin	<0.0091	F1 F2	0.0142	0.0812	F1 F2	mg/Kg	☼	571	51 - 133	34	30
Endosulfan I	<0.0094	F1 F2	0.0142	0.0949	F1 F2	mg/Kg	☼	667	30 - 120	33	30
Endosulfan II	<0.0095	F1	0.0142	0.0584	F1	mg/Kg	☼	411	30 - 120	9	30
Endosulfan sulfate	<0.0096	F1	0.0142	0.0249	F1	mg/Kg	☼	175	42 - 150	27	30
Endrin	<0.0088	F1	0.0142	0.0824	F1	mg/Kg	☼	580	43 - 144	27	30
Endrin aldehyde	<0.0099	F1	0.0142	0.0589	F1	mg/Kg	☼	415	39 - 131	14	30
Endrin ketone	<0.0084	F1	0.0142	<0.0088	F1	mg/Kg	☼	0	51 - 135	NC	30
Heptachlor	<0.0094	F1 F2	0.0142	0.0354	F1 F2	mg/Kg	☼	249	53 - 129	53	30
Heptachlor epoxide	<0.0093	F1 F2	0.0142	0.367	F1 F2	mg/Kg	☼	2579	50 - 139	84	30
Methoxychlor	<0.011	F1	0.0142	0.139	F1	mg/Kg	☼	976	45 - 144	NC	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*671*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*84*		*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-785892/1-A
Matrix: Solid
Analysis Batch: 786715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/13/24 07:40	09/18/24 17:39	1
PCB-1221	<0.017		0.017		mg/Kg		09/13/24 07:40	09/18/24 17:39	1
PCB-1232	<0.017		0.017		mg/Kg		09/13/24 07:40	09/18/24 17:39	1
PCB-1242	<0.017		0.017		mg/Kg		09/13/24 07:40	09/18/24 17:39	1
PCB-1248	<0.017		0.017		mg/Kg		09/13/24 07:40	09/18/24 17:39	1
PCB-1254	<0.017		0.017		mg/Kg		09/13/24 07:40	09/18/24 17:39	1
PCB-1260	<0.017		0.017		mg/Kg		09/13/24 07:40	09/18/24 17:39	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/13/24 07:40	09/18/24 17:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*49 - 129*	*09/13/24 07:40*	*09/18/24 17:39*	*1*
DCB Decachlorobiphenyl	*27*	*S1-*	*37 - 121*	*09/13/24 07:40*	*09/18/24 17:39*	*1*

Lab Sample ID: LCS 500-785892/3-A
Matrix: Solid
Analysis Batch: 786715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.148		mg/Kg		89	57 - 120
PCB-1260	0.167	0.175		mg/Kg		105	61 - 125

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-785892/3-A
Matrix: Solid
Analysis Batch: 786715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785892

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*81*		*49 - 129*
DCB Decachlorobiphenyl	*43*		*37 - 121*

Lab Sample ID: 500-256095-1 MS
Matrix: Solid
Analysis Batch: 786836

Client Sample ID: SB24 (0-3)
Prep Type: Total/NA
Prep Batch: 785892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.086	F2 F1	0.173	0.126		mg/Kg	☼	73	57 - 120
PCB-1260	<0.086	F2 F1	0.173	0.245	F1	mg/Kg	☼	142	61 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	*39*	*S1-*	*49 - 129*
DCB Decachlorobiphenyl	*85*		*37 - 121*

Lab Sample ID: 500-256095-1 MSD
Matrix: Solid
Analysis Batch: 786836

Client Sample ID: SB24 (0-3)
Prep Type: Total/NA
Prep Batch: 785892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.086	F2 F1	0.172	0.584	F1 F2	mg/Kg	☼	341	57 - 120	129	30
PCB-1260	<0.086	F2 F1	0.172	0.515	F1 F2	mg/Kg	☼	300	61 - 125	71	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	*96*		*49 - 129*
DCB Decachlorobiphenyl	*211*	*S1+*	*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-786290/1-A
Matrix: Solid
Analysis Batch: 786593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Antimony	<2.0		2.0		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Arsenic	<1.0		1.0		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Barium	<1.0		1.0		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Beryllium	<0.40		0.40		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Cadmium	<0.20		0.20		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Calcium	<20		20		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Chromium	<1.0		1.0		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Cobalt	<0.50		0.50		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Copper	<1.0		1.0		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Iron	<20		20		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Lead	<0.50		0.50		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Magnesium	<10		10		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Manganese	<1.0		1.0		mg/Kg		09/16/24 14:56	09/17/24 23:39	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-786290/1-A
Matrix: Solid
Analysis Batch: 786593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<1.0		1.0		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Potassium	<50		50		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Selenium	<1.0		1.0		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Silver	<0.50		0.50		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Sodium	<100		100		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Thallium	<1.0		1.0		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Vanadium	<0.50		0.50		mg/Kg		09/16/24 14:56	09/17/24 23:39	1
Zinc	<2.0		2.0		mg/Kg		09/16/24 14:56	09/17/24 23:39	1

Lab Sample ID: LCS 500-786290/2-A
Matrix: Solid
Analysis Batch: 786593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	218		mg/Kg		109	80 - 120
Antimony	50.0	50.1		mg/Kg		100	80 - 120
Arsenic	10.0	10.0		mg/Kg		100	80 - 120
Barium	200	197		mg/Kg		99	80 - 120
Beryllium	5.00	5.09		mg/Kg		102	80 - 120
Cadmium	5.00	4.90		mg/Kg		98	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Chromium	20.0	20.3		mg/Kg		102	80 - 120
Cobalt	50.0	51.0		mg/Kg		102	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Iron	100	87.6		mg/Kg		88	80 - 120
Lead	10.0	10.3		mg/Kg		103	80 - 120
Magnesium	1000	1000		mg/Kg		100	80 - 120
Manganese	50.0	50.4		mg/Kg		101	80 - 120
Nickel	50.0	50.3		mg/Kg		101	80 - 120
Potassium	1000	1010		mg/Kg		101	80 - 120
Selenium	10.0	9.44		mg/Kg		94	80 - 120
Silver	5.00	4.47		mg/Kg		89	80 - 120
Sodium	1000	1040		mg/Kg		104	80 - 120
Thallium	10.0	10.0		mg/Kg		100	80 - 120
Vanadium	50.0	51.5		mg/Kg		103	80 - 120
Zinc	50.0	50.8		mg/Kg		102	80 - 120

Lab Sample ID: MB 500-786292/1-A
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Antimony	<2.0		2.0		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Arsenic	<1.0		1.0		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Barium	<1.0		1.0		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Beryllium	<0.40		0.40		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Cadmium	<0.20		0.20		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Calcium	<20		20		mg/Kg		09/16/24 15:04	09/18/24 00:54	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-786292/1-A
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<1.0		1.0		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Cobalt	<0.50		0.50		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Copper	<1.0		1.0		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Lead	<0.50		0.50		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Magnesium	<10		10		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Manganese	<1.0		1.0		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Nickel	<1.0		1.0		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Potassium	<50		50		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Selenium	<1.0		1.0		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Silver	<0.50		0.50		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Sodium	<100		100		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Thallium	<1.0		1.0		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Vanadium	<0.50		0.50		mg/Kg		09/16/24 15:04	09/18/24 00:54	1
Zinc	<2.0		2.0		mg/Kg		09/16/24 15:04	09/18/24 00:54	1

Lab Sample ID: LCS 500-786292/2-A
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	198		mg/Kg		99	80 - 120
Antimony	50.0	48.2		mg/Kg		96	80 - 120
Arsenic	10.0	9.49		mg/Kg		95	80 - 120
Barium	200	199		mg/Kg		99	80 - 120
Beryllium	5.00	4.75		mg/Kg		95	80 - 120
Cadmium	5.00	4.82		mg/Kg		96	80 - 120
Calcium	1000	1030		mg/Kg		103	80 - 120
Chromium	20.0	19.9		mg/Kg		99	80 - 120
Cobalt	50.0	50.2		mg/Kg		100	80 - 120
Copper	25.0	24.9		mg/Kg		99	80 - 120
Lead	10.0	10.0		mg/Kg		100	80 - 120
Magnesium	1000	966		mg/Kg		97	80 - 120
Manganese	50.0	51.2		mg/Kg		102	80 - 120
Nickel	50.0	52.9		mg/Kg		106	80 - 120
Potassium	1000	1030		mg/Kg		103	80 - 120
Selenium	10.0	9.01		mg/Kg		90	80 - 120
Silver	5.00	4.19		mg/Kg		84	80 - 120
Sodium	1000	1010		mg/Kg		101	80 - 120
Thallium	10.0	9.77		mg/Kg		98	80 - 120
Vanadium	50.0	49.9		mg/Kg		100	80 - 120
Zinc	50.0	51.6		mg/Kg		103	80 - 120

Lab Sample ID: 500-256095-8 MS
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: SB27 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10000		226	10300	4	mg/Kg	☼	-19	75 - 125
Calcium	36000	F2	1130	57100	4	mg/Kg	☼	1832	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256095-8 MS
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: SB27 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	15	F1 F2	22.6	154	F1	mg/Kg	☼	613	75 - 125
Cobalt	8.6		56.4	51.0		mg/Kg	☼	75	75 - 125
Magnesium	2000	F1 F2	1130	5950	F1	mg/Kg	☼	349	75 - 125
Potassium	1300	F1	1130	1970	F1	mg/Kg	☼	61	75 - 125
Sodium	670	F1	1130	1490	F1	mg/Kg	☼	73	75 - 125
Zinc	140	F1 F2	56.4	161	F1	mg/Kg	☼	29	75 - 125

Lab Sample ID: 500-256095-8 MS
Matrix: Solid
Analysis Batch: 786815

Client Sample ID: SB27 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<12	F1	56.4	13.4	F1	mg/Kg	☼	24	75 - 125
Arsenic	<6.2	F2	11.3	9.10		mg/Kg	☼	81	75 - 125
Barium	180	F1	226	343	F1	mg/Kg	☼	73	75 - 125
Beryllium	4.2	F1	5.64	7.99	F1	mg/Kg	☼	67	75 - 125
Cadmium	1.3		5.64	5.74		mg/Kg	☼	79	75 - 125
Copper	19		28.2	42.6		mg/Kg	☼	83	75 - 125
Lead	39	F1 F2	11.3	41.0	F1	mg/Kg	☼	18	75 - 125
Manganese	3700	F2	56.4	6600	4	mg/Kg	☼	5078	75 - 125
Nickel	6.7		56.4	55.3		mg/Kg	☼	86	75 - 125
Selenium	<6.2		11.3	14.6		mg/Kg	☼	89	75 - 125
Silver	<3.1	F1 F2	5.64	3.94	F1	mg/Kg	☼	70	75 - 125
Thallium	23	F1 F2	11.3	44.5	F1	mg/Kg	☼	195	75 - 125
Vanadium	37	F1 F2	56.4	177	F1	mg/Kg	☼	248	75 - 125

Lab Sample ID: 500-256095-8 MSD
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: SB27 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	10000		214	11600	4	mg/Kg	☼	578	75 - 125	12	20
Calcium	36000	F2	1070	36800	4 F2	mg/Kg	☼	36	75 - 125	43	20
Chromium	15	F1 F2	21.4	45.1	F1 F2	mg/Kg	☼	139	75 - 125	109	20
Cobalt	8.6		53.4	58.4		mg/Kg	☼	93	75 - 125	13	20
Magnesium	2000	F1 F2	1070	3610	F1 F2	mg/Kg	☼	150	75 - 125	49	20
Potassium	1300	F1	1070	2080		mg/Kg	☼	75	75 - 125	6	20
Sodium	670	F1	1070	1570		mg/Kg	☼	85	75 - 125	5	20
Zinc	140	F1 F2	53.4	229	F1 F2	mg/Kg	☼	157	75 - 125	35	20

Lab Sample ID: 500-256095-8 MSD
Matrix: Solid
Analysis Batch: 786815

Client Sample ID: SB27 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<12	F1	53.4	16.2	F1	mg/Kg	☼	30	75 - 125	19	20
Arsenic	<6.2	F2	10.7	11.7	F2	mg/Kg	☼	109	75 - 125	25	20
Barium	180	F1	214	396		mg/Kg	☼	102	75 - 125	14	20
Beryllium	4.2	F1	5.34	9.55		mg/Kg	☼	100	75 - 125	18	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256095-8 MSD
Matrix: Solid
Analysis Batch: 786815

Client Sample ID: SB27 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cadmium	1.3		5.34	6.98		mg/Kg	☼	106	75 - 125	19	20
Copper	19		26.7	50.7		mg/Kg	☼	118	75 - 125	17	20
Lead	39	F1 F2	10.7	67.3	F1 F2	mg/Kg	☼	266	75 - 125	49	20
Manganese	3700	F2	53.4	3660	4 F2	mg/Kg	☼	-129	75 - 125	57	20
Nickel	6.7		53.4	66.3		mg/Kg	☼	112	75 - 125	18	20
Selenium	<6.2		10.7	12.6		mg/Kg	☼	75	75 - 125	15	20
Silver	<3.1	F1 F2	5.34	4.87	F2	mg/Kg	☼	91	75 - 125	21	20
Thallium	23	F1 F2	10.7	31.1	F2	mg/Kg	☼	80	75 - 125	36	20
Vanadium	37	F1 F2	53.4	98.5	F2	mg/Kg	☼	115	75 - 125	57	20

Lab Sample ID: 500-256095-8 DU
Matrix: Solid
Analysis Batch: 786585

Client Sample ID: SB27 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786292

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	10000		10500		mg/Kg	☼	2	20
Calcium	36000	F2	31100		mg/Kg	☼	16	20
Chromium	15	F1 F2	40.1	F3	mg/Kg	☼	89	20
Cobalt	8.6		7.97		mg/Kg	☼	8	20
Magnesium	2000	F1 F2	2520	F3	mg/Kg	☼	23	20
Potassium	1300	F1	954	F3	mg/Kg	☼	29	20
Sodium	670	F1	464	F3	mg/Kg	☼	36	20
Zinc	140	F1 F2	169		mg/Kg	☼	15	20

Lab Sample ID: 500-256095-8 DU
Matrix: Solid
Analysis Batch: 786815

Client Sample ID: SB27 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786292

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<12	F1	<12		mg/Kg	☼	NC	20
Arsenic	<6.2	F2	<6.2		mg/Kg	☼	NC	20
Barium	180	F1	674	F3	mg/Kg	☼	117	20
Beryllium	4.2	F1	4.26		mg/Kg	☼	1	20
Cadmium	1.3		1.22		mg/Kg	☼	7	20
Copper	19		32.3	F3	mg/Kg	☼	51	20
Lead	39	F1 F2	48.9	F3	mg/Kg	☼	23	20
Manganese	3700	F2	4240		mg/Kg	☼	13	20
Nickel	6.7		10.3	F5	mg/Kg	☼	42	20
Selenium	<6.2		<6.2		mg/Kg	☼	NC	20
Silver	<3.1	F1 F2	<3.1	*-	mg/Kg	☼	NC	20
Thallium	23	F1 F2	25.1		mg/Kg	☼	11	20
Vanadium	37	F1 F2	59.4	F3	mg/Kg	☼	46	20

Lab Sample ID: MB 500-786722/1-A
Matrix: Solid
Analysis Batch: 786924

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<1.0		1.0		mg/Kg		09/18/24 16:16	09/19/24 13:05	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-786722/1-A
Matrix: Solid
Analysis Batch: 786924

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.40		0.40		mg/Kg		09/18/24 16:16	09/19/24 13:05	1
Cadmium	<0.20		0.20		mg/Kg		09/18/24 16:16	09/19/24 13:05	1
Copper	<1.0		1.0		mg/Kg		09/18/24 16:16	09/19/24 13:05	1
Iron	<20		20		mg/Kg		09/18/24 16:16	09/19/24 13:05	1
Lead	<0.50		0.50		mg/Kg		09/18/24 16:16	09/19/24 13:05	1
Manganese	<1.0		1.0		mg/Kg		09/18/24 16:16	09/19/24 13:05	1
Nickel	<1.0		1.0		mg/Kg		09/18/24 16:16	09/19/24 13:05	1
Selenium	<1.0		1.0		mg/Kg		09/18/24 16:16	09/19/24 13:05	1
Thallium	<1.0		1.0		mg/Kg		09/18/24 16:16	09/19/24 13:05	1
Vanadium	<0.50		0.50		mg/Kg		09/18/24 16:16	09/19/24 13:05	1

Lab Sample ID: LCS 500-786722/2-A
Matrix: Solid
Analysis Batch: 786924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	4.42		mg/Kg		88	80 - 120
Cadmium	5.00	4.82		mg/Kg		96	80 - 120
Copper	25.0	26.5		mg/Kg		106	80 - 120
Iron	100	104		mg/Kg		104	80 - 120
Lead	10.0	9.78		mg/Kg		98	80 - 120
Manganese	50.0	48.2		mg/Kg		96	80 - 120
Nickel	50.0	48.4		mg/Kg		97	80 - 120
Selenium	10.0	10.4		mg/Kg		104	80 - 120
Thallium	10.0	9.93		mg/Kg		99	80 - 120
Vanadium	50.0	51.9		mg/Kg		104	80 - 120

Lab Sample ID: 500-256095-8 MS
Matrix: Solid
Analysis Batch: 786924

Client Sample ID: SB27 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	59000		120	252000	4	mg/Kg	☼	160981	75 - 125

Lab Sample ID: 500-256095-8 MSD
Matrix: Solid
Analysis Batch: 786924

Client Sample ID: SB27 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786722

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	59000		118	246000	4	mg/Kg	☼	158499	75 - 125	2	20

Lab Sample ID: 500-256095-8 DU
Matrix: Solid
Analysis Batch: 786924

Client Sample ID: SB27 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786722

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	59000		261000	F3	mg/Kg	☼	126	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-786644/12-A
Matrix: Solid
Analysis Batch: 786899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/18/24 16:35	09/19/24 07:53	1

Lab Sample ID: LCS 500-786644/13-A
Matrix: Solid
Analysis Batch: 786899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.176		mg/Kg		106	80 - 120

Lab Sample ID: 500-256095-1 MS
Matrix: Solid
Analysis Batch: 786899

Client Sample ID: SB24 (0-3)
Prep Type: Total/NA
Prep Batch: 786644

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.53	F2	0.0845	0.592	4	mg/Kg	☼	79	75 - 125

Lab Sample ID: 500-256095-1 MSD
Matrix: Solid
Analysis Batch: 786899

Client Sample ID: SB24 (0-3)
Prep Type: Total/NA
Prep Batch: 786644

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.53	F2	0.0835	0.751	4 F2	mg/Kg	☼	270	75 - 125	24	20

Lab Sample ID: 500-256095-1 DU
Matrix: Solid
Analysis Batch: 786899

Client Sample ID: SB24 (0-3)
Prep Type: Total/NA
Prep Batch: 786644

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.53	F2	0.519		mg/Kg	☼	1	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-784639/1-A
Matrix: Solid
Analysis Batch: 784959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/05/24 10:02	09/05/24 15:54	1

Lab Sample ID: MB 500-784639/1-A
Matrix: Solid
Analysis Batch: 785352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/05/24 10:02	09/10/24 13:18	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 500-784639/2-A
Matrix: Solid
Analysis Batch: 784959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.31		mg/Kg		96	85 - 115

Lab Sample ID: LCS 500-784639/2-A
Matrix: Solid
Analysis Batch: 785352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.64		mg/Kg		110	85 - 115

Lab Sample ID: MB 500-784697/1-A
Matrix: Solid
Analysis Batch: 785016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784697

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/05/24 12:32	09/08/24 12:00	1

Lab Sample ID: LCS 500-784697/2-A
Matrix: Solid
Analysis Batch: 785016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.43		mg/Kg		101	85 - 115

Lab Sample ID: 500-256095-13 MS
Matrix: Solid
Analysis Batch: 785016

Client Sample ID: SB30 (0-3)
Prep Type: Total/NA
Prep Batch: 784697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	28	F2	2.70	26.5	4	mg/Kg	☼	-44	75 - 125

Lab Sample ID: 500-256095-13 MSD
Matrix: Solid
Analysis Batch: 785016

Client Sample ID: SB30 (0-3)
Prep Type: Total/NA
Prep Batch: 784697

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	28	F2	2.65	42.1	4 F2	mg/Kg	☼	546	75 - 125	46	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-626191/1-A
Matrix: Solid
Analysis Batch: 626237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626191

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/09/24 07:29	09/09/24 09:23	1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 240-626191/2-A
Matrix: Solid
Analysis Batch: 626237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626191

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			82.7	89.3		mg/Kg		108	56 - 120		

Method: 9045D - pH

Lab Sample ID: 500-256095-11 DU
Matrix: Solid
Analysis Batch: 784887

Client Sample ID: SB29 (0-3)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	9.61			9.67		SU				0.6	5

Client Sample ID: SB24 (0-3)
Date Collected: 09/03/24 08:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 11:38
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB24 (0-3)
Date Collected: 09/03/24 08:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-1
Matrix: Solid
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784571		EET CHI	09/04/24 18:07
Total/NA	Analysis	8260D		1	785424	W1T	EET CHI	09/11/24 15:46
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		2	786128	H7CM	EET CHI	09/16/24 15:14
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		10	786796	SB	EET CHI	09/19/24 12:15
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		5	786836	SB	EET CHI	09/19/24 20:47
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		1	786593	SJ	EET CHI	09/18/24 01:21
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		5	786923	SJ	EET CHI	09/19/24 13:59
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 16:15
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 07:56
Total/NA	Prep	9010C			784639	AC	EET CHI	09/05/24 10:02 - 09/05/24 10:32 [1]
Total/NA	Analysis	9012B		1	785352	AC	EET CHI	09/10/24 13:22

Client Sample ID: SB24 (7.5-10)
Date Collected: 09/03/24 08:40
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 11:40
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB24 (7.5-10)
Date Collected: 09/03/24 08:40
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-2
Matrix: Solid
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784571		EET CHI	09/04/24 18:07
Total/NA	Analysis	8260D		1	785424	W1T	EET CHI	09/11/24 16:11
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		2	786128	H7CM	EET CHI	09/16/24 15:39

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB24 (7.5-10)
Date Collected: 09/03/24 08:40
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-2
Matrix: Solid
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		10	786796	SB	EET CHI	09/19/24 12:49
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		1	786715	H7CM	EET CHI	09/18/24 19:57
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		1	786593	SJ	EET CHI	09/18/24 01:26
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		5	786923	SJ	EET CHI	09/19/24 14:03
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 16:28
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:11
Total/NA	Prep	9010C			784639	AC	EET CHI	09/05/24 10:02 - 09/05/24 10:32 [1]
Total/NA	Analysis	9012B		1	784958	AC	EET CHI	09/05/24 17:09

Client Sample ID: SB25 (0-3)
Date Collected: 09/03/24 09:11
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 11:42
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB25 (0-3)
Date Collected: 09/03/24 09:11
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-3
Matrix: Solid
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784571		EET CHI	09/04/24 18:07
Total/NA	Analysis	8260D		1	785424	W1T	EET CHI	09/11/24 16:36
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		2	786128	H7CM	EET CHI	09/16/24 16:04
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		10	786796	SB	EET CHI	09/19/24 13:01
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		5	786836	SB	EET CHI	09/19/24 21:33
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		1	786593	SJ	EET CHI	09/18/24 01:30
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		5	786923	SJ	EET CHI	09/19/24 14:07
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 16:32
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:14

Client Sample ID: SB25 (0-3)

Lab Sample ID: 500-256095-3
Date Collected: 09/03/24 09:11
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			784639	AC	EET CHI	09/05/24 10:02 - 09/05/24 10:32 [1]
Total/NA	Analysis	9012B		5	785016	AC	EET CHI	09/08/24 13:14

Client Sample ID: SB25 (3-5)

Lab Sample ID: 500-256095-4
Date Collected: 09/03/24 09:16
Matrix: Solid
Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 11:47
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB25 (3-5)

Lab Sample ID: 500-256095-4
Date Collected: 09/03/24 09:16
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784571		EET CHI	09/04/24 18:07
Total/NA	Analysis	8260D		1	785424	W1T	EET CHI	09/11/24 17:01
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		2	786128	H7CM	EET CHI	09/16/24 16:29
Total/NA	Prep	3546	DL		785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E	DL	50	786381	JSB	EET CHI	09/17/24 14:35
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		5	786796	SB	EET CHI	09/19/24 13:13
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		1	786715	H7CM	EET CHI	09/18/24 20:28
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		1	786593	SJ	EET CHI	09/18/24 01:35
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		5	786923	SJ	EET CHI	09/19/24 14:12
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 16:37
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:16
Total/NA	Prep	9010C			784639	AC	EET CHI	09/05/24 10:02 - 09/05/24 10:32 [1]
Total/NA	Analysis	9012B		5	785016	AC	EET CHI	09/08/24 13:09

Client Sample ID: SB26 (0-3)

Lab Sample ID: 500-256095-5
Date Collected: 09/03/24 09:58
Matrix: Solid
Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 11:49
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB26 (0-3)

Lab Sample ID: 500-256095-5
Date Collected: 09/03/24 09:58
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784571		EET CHI	09/04/24 18:07
Total/NA	Analysis	8260D		1	785633	SW1	EET CHI	09/12/24 12:51
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		1	786128	H7CM	EET CHI	09/16/24 12:18
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		5	786796	SB	EET CHI	09/19/24 13:24
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		1	786715	H7CM	EET CHI	09/18/24 20:43
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		1	786593	SJ	EET CHI	09/18/24 01:39
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		10	786923	SJ	EET CHI	09/19/24 14:16
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 16:41
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:18
Total/NA	Prep	9010C			784639	AC	EET CHI	09/05/24 10:02 - 09/05/24 10:32 [1]
Total/NA	Analysis	9012B		1	784958	AC	EET CHI	09/05/24 17:15

Client Sample ID: SB26 (7.5-10)

Lab Sample ID: 500-256095-6
Date Collected: 09/03/24 10:12
Matrix: Solid
Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 11:52
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB26 (7.5-10)

Lab Sample ID: 500-256095-6
Date Collected: 09/03/24 10:12
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784571		EET CHI	09/04/24 18:07
Total/NA	Analysis	8260D		1	785424	W1T	EET CHI	09/11/24 17:26
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		1	786128	H7CM	EET CHI	09/16/24 17:44
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		5	786796	SB	EET CHI	09/19/24 13:36
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		1	786715	H7CM	EET CHI	09/18/24 20:58
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		1	786593	SJ	EET CHI	09/18/24 01:44
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		10	786923	SJ	EET CHI	09/19/24 14:20

Client Sample ID: SB26 (7.5-10)

Lab Sample ID: 500-256095-6
Date Collected: 09/03/24 10:12
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 16:46
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:20
Total/NA	Prep	9010C			784697	AC	EET CHI	09/05/24 12:32 - 09/05/24 13:02 [1]
Total/NA	Analysis	9012B		1	785016	AC	EET CHI	09/08/24 12:15

Client Sample ID: SB27 (0-3)

Lab Sample ID: 500-256095-7
Date Collected: 09/03/24 10:42
Matrix: Solid
Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 11:54
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB27 (0-3)

Lab Sample ID: 500-256095-7
Date Collected: 09/03/24 10:42
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784571		EET CHI	09/04/24 18:07
Total/NA	Analysis	8260D		1	785633	SW1	EET CHI	09/12/24 13:15
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		1	786128	H7CM	EET CHI	09/16/24 12:43
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		5	786796	SB	EET CHI	09/19/24 13:48
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		1	786715	H7CM	EET CHI	09/18/24 21:14
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		1	786593	SJ	EET CHI	09/18/24 01:49
Total/NA	Prep	3050B			786290	S1Z	EET CHI	09/16/24 14:56 - 09/16/24 19:56 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 16:50
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:22
Total/NA	Prep	9010C			784697	AC	EET CHI	09/05/24 12:32 - 09/05/24 13:02 [1]
Total/NA	Analysis	9012B		1	785016	AC	EET CHI	09/08/24 12:16

Client Sample ID: SB27 (5-7.5)

Lab Sample ID: 500-256095-8
Date Collected: 09/03/24 10:57
Matrix: Solid
Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 11:56
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB27 (5-7.5)
Lab Sample ID: 500-256095-8
Date Collected: 09/03/24 10:57
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784552		EET CHI	09/03/24 10:57
Total/NA	Analysis	8260D		50	785875	W1T	EET CHI	09/13/24 18:34
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		1	786128	H7CM	EET CHI	09/16/24 13:08
Total/NA	Prep	5035			784552		EET CHI	09/03/24 10:57
Total/NA	Analysis	8015D		100	784769	WRE	EET CHI	09/06/24 07:33
Total/NA	Prep	3541			785024	FRG	EET CHI	09/09/24 07:38 - 09/09/24 15:38 [1]
Total/NA	Analysis	8015D		1	785398	H7CM	EET CHI	09/11/24 03:09
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		5	786796	SB	EET CHI	09/19/24 13:59
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		1	786715	H7CM	EET CHI	09/18/24 21:29
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/18/24 01:03
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 13:56
Total/NA	Prep	3050B			786722	S1Z	EET CHI	09/18/24 16:16 - 09/18/24 21:16 [1]
Total/NA	Analysis	6010D		1	786924	SJ	EET CHI	09/19/24 13:14
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:24
Total/NA	Prep	9010C			784697	AC	EET CHI	09/05/24 12:32 - 09/05/24 13:02 [1]
Total/NA	Analysis	9012B		1	785016	AC	EET CHI	09/08/24 12:22

Client Sample ID: SB28 (0-3)
Lab Sample ID: 500-256095-9
Date Collected: 09/03/24 12:08
Matrix: Solid
Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 11:59
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB28 (0-3)
Lab Sample ID: 500-256095-9
Date Collected: 09/03/24 12:08
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784552		EET CHI	09/03/24 12:08
Total/NA	Analysis	8260D		50	785875	W1T	EET CHI	09/13/24 18:58
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		1	786128	H7CM	EET CHI	09/16/24 13:33
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		10	786796	SB	EET CHI	09/19/24 14:11
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		1	786715	H7CM	EET CHI	09/18/24 21:44

Client Sample ID: SB28 (0-3)

Lab Sample ID: 500-256095-9

Date Collected: 09/03/24 12:08

Matrix: Solid

Date Received: 09/04/24 12:15

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/18/24 01:26
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 14:27
Total/NA	Prep	3050B			786722	S1Z	EET CHI	09/18/24 16:16 - 09/18/24 21:16 [1]
Total/NA	Analysis	6010D		5	786924	SJ	EET CHI	09/19/24 13:45
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:26
Total/NA	Prep	9010C			784697	AC	EET CHI	09/05/24 12:32 - 09/05/24 13:02 [1]
Total/NA	Analysis	9012B		1	785016	AC	EET CHI	09/08/24 12:24

Client Sample ID: SB28 (10-12.5)

Lab Sample ID: 500-256095-10

Date Collected: 09/03/24 12:30

Matrix: Solid

Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 12:01
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB28 (10-12.5)

Lab Sample ID: 500-256095-10

Date Collected: 09/03/24 12:30

Matrix: Solid

Date Received: 09/04/24 12:15

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784571		EET CHI	09/04/24 18:07
Total/NA	Analysis	8260D		1	785424	W1T	EET CHI	09/11/24 19:04
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		1	786128	H7CM	EET CHI	09/16/24 13:58
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		5	786796	SB	EET CHI	09/19/24 14:23
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		1	786715	H7CM	EET CHI	09/18/24 21:59
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/18/24 01:30
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 14:31
Total/NA	Prep	3050B			786722	S1Z	EET CHI	09/18/24 16:16 - 09/18/24 21:16 [1]
Total/NA	Analysis	6010D		5	786924	SJ	EET CHI	09/19/24 13:53
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:33
Total/NA	Prep	9010C			784697	AC	EET CHI	09/05/24 12:32 - 09/05/24 13:02 [1]
Total/NA	Analysis	9012B		1	785016	AC	EET CHI	09/08/24 12:25

Client Sample ID: SB29 (0-3)
Date Collected: 09/03/24 13:18
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 12:03
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB29 (0-3)
Date Collected: 09/03/24 13:18
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-11
Matrix: Solid
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784571		EET CHI	09/04/24 18:07
Total/NA	Analysis	8260D		1	785424	W1T	EET CHI	09/11/24 19:29
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		1	786128	H7CM	EET CHI	09/16/24 14:23
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		5	786796	SB	EET CHI	09/19/24 14:34
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		1	786715	H7CM	EET CHI	09/18/24 22:15
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/18/24 01:44
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 14:35
Total/NA	Prep	3050B			786722	S1Z	EET CHI	09/18/24 16:16 - 09/18/24 21:16 [1]
Total/NA	Analysis	6010D		5	786924	SJ	EET CHI	09/19/24 13:58
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:35
Total/NA	Prep	9010C			784697	AC	EET CHI	09/05/24 12:32 - 09/05/24 13:02 [1]
Total/NA	Analysis	9012B		20	785016	AC	EET CHI	09/08/24 13:21

Client Sample ID: SB29 (7.5-10)
Date Collected: 09/03/24 13:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 12:08
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB29 (7.5-10)
Date Collected: 09/03/24 13:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-12
Matrix: Solid
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784571		EET CHI	09/04/24 18:07
Total/NA	Analysis	8260D		1	785633	SW1	EET CHI	09/12/24 14:04
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		2	786128	H7CM	EET CHI	09/16/24 16:54

Client Sample ID: SB29 (7.5-10)

Lab Sample ID: 500-256095-12

Date Collected: 09/03/24 13:30
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		10	786796	SB	EET CHI	09/19/24 14:46
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		1	786715	H7CM	EET CHI	09/18/24 22:30
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/18/24 01:49
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 14:40
Total/NA	Prep	3050B			786722	S1Z	EET CHI	09/18/24 16:16 - 09/18/24 21:16 [1]
Total/NA	Analysis	6010D		5	786924	SJ	EET CHI	09/19/24 14:07
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:37
Total/NA	Prep	9010C			784697	AC	EET CHI	09/05/24 12:32 - 09/05/24 13:02 [1]
Total/NA	Analysis	9012B		20	785016	AC	EET CHI	09/08/24 13:26

Client Sample ID: SB30 (0-3)

Lab Sample ID: 500-256095-13

Date Collected: 09/03/24 14:50
Matrix: Solid
Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 12:12
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB30 (0-3)

Lab Sample ID: 500-256095-13

Date Collected: 09/03/24 14:50
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784571		EET CHI	09/04/24 18:07
Total/NA	Analysis	8260D		1	785633	SW1	EET CHI	09/12/24 14:28
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		2	786128	H7CM	EET CHI	09/16/24 17:19
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		10	786796	SB	EET CHI	09/19/24 14:58
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		1	786715	H7CM	EET CHI	09/18/24 22:45
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/18/24 01:53
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 14:44
Total/NA	Prep	3050B			786722	S1Z	EET CHI	09/18/24 16:16 - 09/18/24 21:16 [1]
Total/NA	Analysis	6010D		5	786924	SJ	EET CHI	09/19/24 14:25
Total/NA	Prep	3050B			786722	S1Z	EET CHI	09/18/24 16:16 - 09/18/24 21:16 [1]
Total/NA	Analysis	6010D		20	786924	SJ	EET CHI	09/19/24 14:29

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-1

Client Sample ID: SB30 (0-3)

Lab Sample ID: 500-256095-13
Date Collected: 09/03/24 14:50
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:38
Total/NA	Prep	9010C			784697	AC	EET CHI	09/05/24 12:32 - 09/05/24 13:02 [1]
Total/NA	Analysis	9012B		20	785016	AC	EET CHI	09/08/24 13:30

Client Sample ID: SB30 (12.5-15)

Lab Sample ID: 500-256095-14
Date Collected: 09/03/24 15:09
Matrix: Solid
Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	784887	LP	EET CHI	09/06/24 12:15
Total/NA	Analysis	Moisture		1	786215	ER	EET CHI	09/16/24 10:23

Client Sample ID: SB30 (12.5-15)

Lab Sample ID: 500-256095-14
Date Collected: 09/03/24 15:09
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 60.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784552		EET CHI	09/03/24 15:09
Total/NA	Analysis	8260D		50	786367	W1T	EET CHI	09/17/24 12:59
Total/NA	Prep	3546			785981	LH	EET CHI	09/13/24 12:05
Total/NA	Analysis	8270E		1	786128	H7CM	EET CHI	09/16/24 14:48
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8081B		5	786796	SB	EET CHI	09/19/24 15:09
Total/NA	Prep	3541			785892	FRG	EET CHI	09/13/24 07:40 - 09/13/24 16:38 [1]
Total/NA	Analysis	8082A		1	786715	H7CM	EET CHI	09/18/24 23:01
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		1	786585	SJ	EET CHI	09/18/24 01:58
Total/NA	Prep	3050B			786292	S1Z	EET CHI	09/16/24 15:04 - 09/16/24 20:04 [1]
Total/NA	Analysis	6010D		5	786815	SJ	EET CHI	09/18/24 14:49
Total/NA	Prep	3050B			786722	S1Z	EET CHI	09/18/24 16:16 - 09/18/24 21:16 [1]
Total/NA	Analysis	6010D		5	786924	SJ	EET CHI	09/19/24 14:33
Total/NA	Prep	7471B			786644	RN	EET CHI	09/18/24 16:35
Total/NA	Analysis	7471B		1	786899	MJG	EET CHI	09/19/24 08:40
Total/NA	Prep	9010C			784697	AC	EET CHI	09/05/24 12:32 - 09/05/24 13:02 [1]
Total/NA	Analysis	9012B		1	785016	AC	EET CHI	09/08/24 12:36
Total/NA	Prep	9030B			626191	BLW	EET CLE	09/09/24 07:29
Total/NA	Analysis	9034		1	626237	BLW	EET CLE	09/09/24 09:23

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200
EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-1
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	10-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	09-09-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record

670135

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HAMILTON	Site Contact:	Date:	COC No 1 of 2 COCs
Company Name PIONEER	Tel/Email: JHAMILTON@PIONEER.COM	Lab Contact:	Carrier:	Sampler
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below _____			Lab Sampling
Fax	☒ 2 weeks			
Project Name 8080 S THE STATE DR	☐ 1 week			Job / SDG No
Site	☐ 2 days			500-256095
P O # 04-0124-103	☐ 1 day			

500-256095 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL	PDH	Sample Specific Notes
1	SB24 (0-3)	9/3/24	830	G	SO	4			X	X	
2	SB24 (7.5-10)		840								
3	SB25 (0-3)		911								
4	SB25 (3-5)		916								
5	SB26 (0-3)		958								
6	SB26 (7.5-10)		1012								
7	SB27 (0-3)		1042								
8	SB27 (5-7.5)		1057								
9	SB28 (0-3)		1208								
10	SB28 (10-12.5)		1230								
11	SB29 (0-3)		118								
12	SB29 (7.5-10)		130								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 1.9 Corr'd 1.6 | Therm ID No

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	9/4/24	Received by	EETA	9/4/24 1110
Relinquished by	EETA 9/4/24	1215	Received by		
Relinquished by			Received in Laboratory by	EETA	9/4/24 1215

Chain of Custody Record 720773

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager.	Site Contact.	Date:	COC No 2 of 2 COCs
Company Name: PIONEER	Tel/Email:	Lab Contact	Carrier	Sampler
Address	Analysis Turnaround Time			For Lab Use Only
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below _____			Lab Sampling
Fax	☐ 2 weeks			
Project Name	☐ 1 week			Job / SDG No
Site	☐ 2 days			500-256095
P O #	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL VOA															Sample Specific Notes
13	SB30 (0-3)	9/3/24	250	G	SO	4			X															
14	SB30 (12.5-15)	↓	309	↓	↓	↓			X															

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	9/4/24	Received by	EETA	9/4/24 1110
Relinquished by	EETA 9/4/24	1215	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company EETA	Date/Time 9/4/24 1215

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

1.9/2.9

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192276.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256095-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 9/17/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email	WO #:			
Project Name: 8080 S Lakeshore Dr (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

E195

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oi BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB30 (12.5-15) (500-256095-14)	9/3/24	15:09 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/5/24 1600		JESSICA RIGDON	9 6 24 0915	EETN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	*Relinquished by:*	*Date/Time:*	*Company*	*Received by:*	*Date/Time:*	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client Eurofins - Cle Site Name _____ Cooler unpacked by: JESSICA RIGDON

Cooler Received on 9-6 24 Opened on 9-6 24

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 1C Foam Box Client Cooler Box Other _____

Packing material used. (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 19 (CF +1.0 °C) Observed Cooler Temp 1.9 °C Corrected Cooler Temp 2.9 °C

2	Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes) No
	-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No NA
	-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)
	-Were tamper/custody seals intact and uncompromised?	(Yes) No NA
3	Shippers' packing slip attached to the cooler(s)?	(Yes) No
4.	Did custody papers accompany the sample(s)?	(Yes) No
5	Were the custody papers relinquished & signed in the appropriate place?	(Yes) No
6	Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)
7	Did all bottles arrive in good condition (Unbroken)?	(Yes) No
8	Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No
9	For each sample, does the COC specify preservatives (Y(N), # of containers (Y(N), and sample type of grab/comp(Y(N)?	
10	Were correct bottle(s) used for the test(s) indicated?	(Yes) No
11	Sufficient quantity received to perform indicated analyses?	(Yes) No
12.	Are these work share samples and all listed on the COC?	(Yes) No
	If yes, Questions 13-17 have been checked at the originating laboratory	
13	Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA pH Strip Lot# HC442471
14	Were VOAs on the COC?	Yes No
15	Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this	Yes No NA
16.	Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes No
17	Was a LL Hg or Me Hg trip blank present? _____	Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by

_____
_____
_____
_____

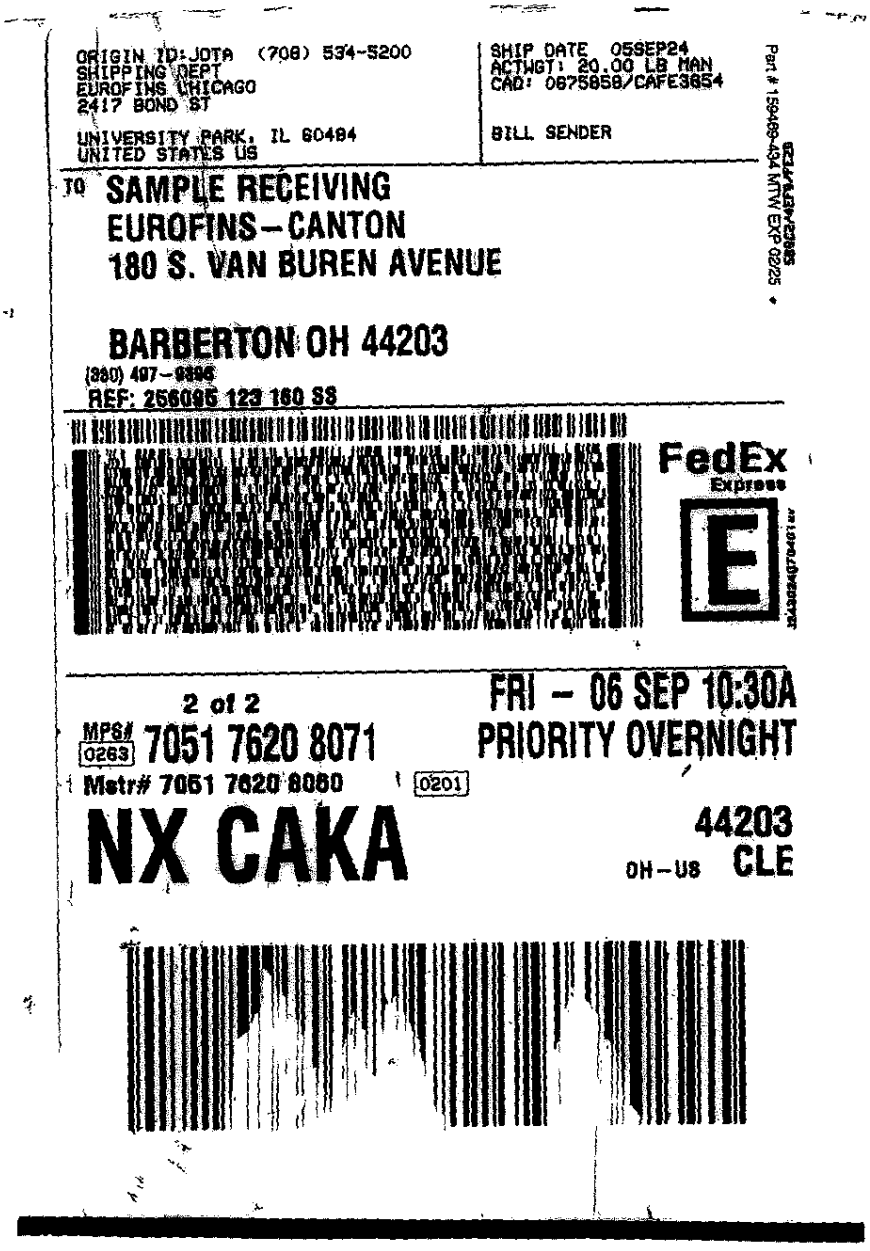
19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired
Sample(s) _____ were received in a broken container
Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory
Time preserved. _____ Preservative(s) added/Lot number(s). _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____



ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE: 05SEP24
ACTWGT: 20.00 LB MAN
CAD: 0675858/CAFE3654

BILL SENDER

Part # 159469-434 MTW EXP 02/25

TO SAMPLE RECEIVING
EUROFINS-CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396
REF: 256095 123 160 SS

FedEx Express

2 of 2
MPS# 0263 7051 7620 8071
Mstr# 7051 7620 8060

FRI - 06 SEP 10:30A
PRIORITY OVERNIGHT

0201

NX CAKA

44203
OH-US CLE

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193729.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256095-2
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/17/2024			Preservation Codes.
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 S Lakeshore Dr (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/1311T_M (MOD) TCLP RCRA Metals	7470A/1311T_Hg TCLP Mercury	6020B/1311T_M (MOD) TCLP TI	Total Number of containers	Special Instructions/Note:
			Preservation Code:								EOS4
SB26 (0-3) (500-256095-5)	9/3/24	09:58 Central	G	Solid			X	X		1	
SB26 (7.5-10) (500-256095-6)	9/3/24	10:12 Central	G	Solid					X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hernandez	10/11/24 1600		KATHARINE MARTIN	10/12/24 920	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :**
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler unpacked by: ICM

Cooler Received on 10/12/24 Opened on 10/12/24

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt [X] *See Multiple Cooler Form*

IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4 Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12 Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved: Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen,

Login # : ______________

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: ______	2.7	3.0	Wet Ice (circled) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES US
SHIP DATE: 11OCT24
ACTWGT: 68.00 LB MAN
CAD: 0675858/CAFE3854
BILL SENDER
TO SAMPLE RECEIVING
EUROFINS - CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203
(330) 497-9396
REF: 257701 255852 917 256054 095 166 275
Part # 159469-434 MTW EXP 02/25
FedEx
Express
2 of 4
MPS# 7051 7621 1593
Mstr# 7051 7621 1582
SATURDAY 12:00P
PRIORITY OVERNIGHT
0263
0201
XO CAKA
44203
OH-US CLE
RT 448 1
12.00
FZ 447
1593
10.12
eurofins
Environment Testing
TAL-0090(1015)
Document America
492

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256095-1

Login Number: 256095
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 8:34:53 AM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256166-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 8:34:53 AM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256166-1 Eurofins Chicago

Job Narrative
500-256166-1

Revision
The report being provided is a revision of the original report sent on 9/26/2024. The report (revision 2) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 12/10/2024 - Reason - The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/5/2024 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 3.3º C.

GC/MS VOA
Method 8260D: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: SB31 (0-3) (500-256166-1) and SB32 (5-7.5) (500-256166-4). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantized with this internal standard. .

Method 8260D: Surrogate recovery for the following samples were outside the upper control limit: SB31 (0-3) (500-256166-1), SB32 (5-7.5) (500-256166-4) and SB33 (5-7.5) (500-256166-6). This sample did not contain any target analytes above the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Internal standard /surrogate responses were outside of acceptance limits for the following sample: SB36 (0-3) (500-256166-11). The sample(s) shows evidence of matrix interference, as sample was analyzed multiple times with concurring failures.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB34 (5-7.5) (500-256166-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB41 (0-3) (500-256166-21), SB41 (5-7.5) (500-256166-22), SB42 (0-3) (500-256166-23), SB43 (0-3) (500-256166-25) and SB43 (10-12.5) (500-256166-26). Elevated reporting limits (RLs) are provided.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-786382 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-786382 was outside the method criteria for the following analyte(s): 2-Nitroaniline and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: SB41 (0-3) (500-256166-21). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E: Surrogate 2,4,6-Tribromophenol (Surr) recovery for the following samples were outside control limits: SB41 (0-3) (500-256166-21) and SB41 (5-7.5) (500-256166-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E: Surrogate 2-Fluorophenol (Surr) and 2,4,6-Tribromophenol (Surr) recovery for the following sample was outside control limits: SB43 (0-3) (500-256166-25). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB35 (0-3) (500-256166-9), SB36 (0-3) (500-256166-11), SB36 (5-7.5) (500-256166-12), SB37 (0-3) (500-256166-13), SB39 (0-3) (500-256166-17) and SB40 (0-3) (500-256166-19). Elevated reporting limits (RLs) are provided.

Job ID: 500-256166-1 (Continued) Eurofins Chicago

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-786395 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 500-786395 recovered above the upper control limit for 2-Nitroaniline, bis(chloroisopropyl) ether and N-Nitrosodi-n-propylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: Surrogate 2,4,6-Tribromophenol (Surr) recovery for the following samples were outside control limits: SB33 (0-3) (500-256166-5), SB35 (0-3) (500-256166-9), SB36 (0-3) (500-256166-11), SB36 (5-7.5) (500-256166-12), SB37 (12.5-15) (500-256166-14), SB39 (0-3) (500-256166-17) and SB39 (7.5-10) (500-256166-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-786597 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analyte to recover outside limits when using this list of analytes. The laboratory control sample (LCS) for preparation batch 500-786293 and analytical batch 500-786597 recovered outside limits for the following analytes: 2,4-Dimethylphenol. These results have been reported and qualified.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: SB38 (12.5-15) (500-256166-16). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples were outside control limits: SB33 (5-7.5) (500-256166-6) and SB34 (5-7.5) (500-256166-8). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1260 for the following samples: SB33 (0-3) (500-256166-5), SB34 (0-3) (500-256166-7) and SB36 (0-3) (500-256166-11). internal standard outside of control limits on column-0; therefore; the higher value on column-1 has been reported and qualified.

Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB32 (0-3) (500-256166-3), SB32 (5-7.5) (500-256166-4), SB33 (0-3) (500-256166-5), SB34 (0-3) (500-256166-7), SB34 (5-7.5) (500-256166-8), SB36 (0-3) (500-256166-11), SB36 (5-7.5) (500-256166-12), SB37 (0-3) (500-256166-13), SB37 (12.5-15) (500-256166-14), SB38 (0-3) (500-256166-15), SB38 (12.5-15) (500-256166-16), SB39 (0-3) (500-256166-17), SB39 (7.5-10) (500-256166-18), SB40 (0-3) (500-256166-19) and (500-256166-D-12-F MSD). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB31 (7.5-10) (500-256166-2), SB32 (0-3) (500-256166-3), SB32 (5-7.5) (500-256166-4), SB33 (0-3) (500-256166-5), SB33 (5-7.5) (500-256166-6), SB34 (0-3) (500-256166-7), SB34 (5-7.5) (500-256166-8), SB36 (0-3) (500-256166-11), SB36 (5-7.5) (500-256166-12), SB37 (0-3) (500-256166-13), SB37 (12.5-15) (500-256166-14), SB38 (0-3) (500-256166-15), SB38 (12.5-15) (500-256166-16), SB39 (0-3) (500-256166-17), SB39 (7.5-10) (500-256166-18), SB40 (0-3) (500-256166-19), (500-256166-D-12-E MS) and (500-256166-D-12-F MSD). Elevated reporting limits (RLs) are provided.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-786310 and analytical batch 500-787130 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 500-256166-1 (Continued) Eurofins Chicago

Method 8081B: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-787250/4). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

Method 8081B: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SB31 (0-3) (500-256166-1), SB35 (7.5-10) (500-256166-10), SB40 (5-7.5) (500-256166-20), (500-256166-D-1-E MS) and (500-256166-D-1-F MSD).

Method 8081B: The following samples required a dilution due to the nature of the sample matrix: SB31 (0-3) (500-256166-1), SB35 (0-3) (500-256166-9), SB35 (7.5-10) (500-256166-10), SB40 (5-7.5) (500-256166-20), (500-256166-D-1-E MS) and (500-256166-D-1-F MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB31 (0-3) (500-256166-1), SB35 (0-3) (500-256166-9), SB35 (7.5-10) (500-256166-10), SB40 (5-7.5) (500-256166-20), SB41 (0-3) (500-256166-21), SB41 (5-7.5) (500-256166-22), SB42 (0-3) (500-256166-23), SB42 (7.5-10) (500-256166-24), SB43 (0-3) (500-256166-25), SB43 (10-12.5) (500-256166-26), (500-256166-D-1-E MS) and (500-256166-D-1-F MSD).

Method 8081B: The following samples were diluted due to abundance of non-target analytes: (500-256166-D-1-E MS) and (500-256166-D-1-F MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: SB35 (7.5-10) (500-256166-10), SB40 (5-7.5) (500-256166-20) and SB41 (5-7.5) (500-256166-22). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Tetrachloro-m-xylene surrogate recovery for the following samples was outside control limits: SB42 (0-3) (500-256166-23) and SB43 (0-3) (500-256166-25). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside control limits: SB40 (0-3) (500-256166-19). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB42 (7.5-10) (500-256166-24). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB36 (5-7.5) (500-256166-12), SB37 (0-3) (500-256166-13), SB37 (12.5-15) (500-256166-14), SB38 (0-3) (500-256166-15), SB38 (12.5-15) (500-256166-16), SB39 (7.5-10) (500-256166-18), SB40 (0-3) (500-256166-19), SB40 (5-7.5) (500-256166-20), SB41 (5-7.5) (500-256166-22), SB42 (7.5-10) (500-256166-24), SB43 (0-3) (500-256166-25), SB43 (10-12.5) (500-256166-26), (500-256166-D-12-G MS) and (500-256166-D-12-H MSD).

Method 8082A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB31 (7.5-10) (500-256166-2) and SB32 (0-3) (500-256166-3).

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples were outside control limits: SB31 (7.5-10) (500-256166-2) and SB32 (0-3) (500-256166-3). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB36 (5-7.5) (500-256166-12), SB37 (0-3) (500-256166-13), SB37 (12.5-15) (500-256166-14), SB38 (0-3) (500-256166-15), SB38 (12.5-15) (500-256166-16), SB40 (0-3) (500-256166-19), SB40 (5-7.5) (500-256166-20), SB41 (5-7.5) (500-256166-22), SB42 (7.5-10) (500-256166-24), SB43 (0-3) (500-256166-25), SB43 (10-12.5) (500-256166-26), (500-256166-D-12-G MS) and (500-256166-D-12-H MSD).

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside control limits: SB40 (0-3) (500-256166-19). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

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Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB42 (7.5-10) (500-256166-24). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-787624/3). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

Method 8082A: The following sample required a dilution due to the nature of the sample matrix: SB39 (0-3) (500-256166-17). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: SB35 (0-3) (500-256166-9) and SB35 (7.5-10) (500-256166-10). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB31 (0-3) (500-256166-1), (500-256166-D-1-G MS) and (500-256166-D-1-H MSD).

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB31 (0-3) (500-256166-1), (500-256166-D-1-G MS) and (500-256166-D-1-H MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-784967 and analytical batch 500-785290 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 9034: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 240-626558 and analytical batch 240-626649 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SB31 (0-3) — Lab Sample ID: 500-256166-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0047	J	0.0070	0.0013	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00056	J	0.0028	0.00056	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.042		0.036	0.0073	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.011	J	0.036	0.0061	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.068		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.48		0.036	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.78		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.99		0.036	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.72		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.35		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.59		0.036	0.0095	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.13		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.75		0.036	0.0084	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.021	J	0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.68		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.016	J	0.036	0.0065	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.30		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.79		0.036	0.0098	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.011	J	0.073	0.0072	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.035	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.021	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	21000		22		mg/Kg	1	☼	6010D	Total/NA
Antimony	4.3	F1	2.2		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.2	F1	1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	200	F1	1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	5.5	F1	0.44		mg/Kg	1	☼	6010D	Total/NA
Calcium	220000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	1400	F2	22		mg/Kg	20	☼	6010D	Total/NA
Cobalt	7.7		0.55		mg/Kg	1	☼	6010D	Total/NA
Copper	25	F1 F2	1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	20000		22		mg/Kg	1	☼	6010D	Total/NA
Lead	22	F1	0.55		mg/Kg	1	☼	6010D	Total/NA
Magnesium	39000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	4100	F2	22		mg/Kg	20	☼	6010D	Total/NA
Nickel	650	F2	1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1300	F1	55		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.5	F1	1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	920	F1	110		mg/Kg	1	☼	6010D	Total/NA
Vanadium	16	F1	0.55		mg/Kg	1	☼	6010D	Total/NA
Zinc	50		2.2		mg/Kg	1	☼	6010D	Total/NA
pH	9.91		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB31 (7.5-10) — Lab Sample ID: 500-256166-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0061		0.0060	0.0011	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00055	J	0.0024	0.00048	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.014	J	0.039	0.0067	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.017	J	0.039	0.0081	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.075		0.039	0.0084	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.082		0.039	0.038	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB31 (7.5-10) (Continued)
Lab Sample ID: 500-256166-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.14		0.039	0.038	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.086		0.039	0.0086	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.050		0.039	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.11		0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.12		0.039	0.0092	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.065		0.039	0.039	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.044		0.039	0.0072	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.32		0.039	0.0086	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.11		0.039	0.011	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.051	J	0.080	0.0080	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.024	J	0.20	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	10000		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.4		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	290		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.5		0.45		mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.3		0.22		mg/Kg	1	☼	6010D	Total/NA
Calcium	45000		22		mg/Kg	1	☼	6010D	Total/NA
Chromium	15		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.5		0.56		mg/Kg	1	☼	6010D	Total/NA
Copper	20		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	37000		22		mg/Kg	1	☼	6010D	Total/NA
Lead	38		0.56		mg/Kg	1	☼	6010D	Total/NA
Magnesium	16000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	1500		1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	22		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	900		56		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.7		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	480		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	5.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	27		0.56		mg/Kg	1	☼	6010D	Total/NA
Zinc	440		2.2		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.068		0.019		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.8		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	8.19		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB32 (0-3)
Lab Sample ID: 500-256166-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0055		0.0055	0.0010	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.051		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.024	J	0.036	0.0062	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.074		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.49		0.036	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.83		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.94		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.77		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.43		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.59		0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.15		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.69		0.036	0.0084	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.027	J	0.036	0.011	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB32 (0-3) (Continued) — Lab Sample ID: 500-256166-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.69		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.036		0.036	0.0066	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.37		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.68		0.036	0.0099	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.048	J	0.073	0.0073	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.037	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.032	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	14000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.0		0.97		mg/Kg	1	☼	6010D	Total/NA
Barium	130		0.97		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.3		0.39		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.28		0.19		mg/Kg	1	☼	6010D	Total/NA
Calcium	150000		97		mg/Kg	5	☼	6010D	Total/NA
Chromium	46		0.97		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.6		0.48		mg/Kg	1	☼	6010D	Total/NA
Copper	15		0.97		mg/Kg	1	☼	6010D	Total/NA
Iron	30000		19		mg/Kg	1	☼	6010D	Total/NA
Lead	30		0.48		mg/Kg	1	☼	6010D	Total/NA
Magnesium	33000		9.7		mg/Kg	1	☼	6010D	Total/NA
Manganese	3100		4.8		mg/Kg	5	☼	6010D	Total/NA
Nickel	13		0.97		mg/Kg	1	☼	6010D	Total/NA
Potassium	1000		48		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.3		0.97		mg/Kg	1	☼	6010D	Total/NA
Sodium	530		97		mg/Kg	1	☼	6010D	Total/NA
Vanadium	25		0.48		mg/Kg	1	☼	6010D	Total/NA
Zinc	87		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.036		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	4.8		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	9.62		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB32 (5-7.5) — Lab Sample ID: 500-256166-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0010	J	0.0025	0.00080	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0050	J	0.0063	0.0012	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0014	J	0.0025	0.00051	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.00088	J	0.0051	0.00087	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.043		0.037	0.0075	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.032	J	0.037	0.0063	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.23		0.037	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.50		0.037	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.44		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.69		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.31		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.26		0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.50		0.037	0.0097	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.076		0.037	0.037	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	1.3		0.037	0.0086	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.053		0.037	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.36		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.075		0.037	0.0067	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB32 (5-7.5) (Continued)
Lab Sample ID: 500-256166-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	1.5		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Pyrene	1.0		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.19		0.075	0.0074	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.087	J	0.19	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.065	J	0.19	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	15000		23		mg/Kg	1	☼	6010D	Total/NA
Arsenic	9.0		5.7		mg/Kg	5	☼	6010D	Total/NA
Barium	240		5.7		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.8		2.3		mg/Kg	5	☼	6010D	Total/NA
Calcium	58000		23		mg/Kg	1	☼	6010D	Total/NA
Chromium	32		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	7.7		0.57		mg/Kg	1	☼	6010D	Total/NA
Copper	60		5.7		mg/Kg	5	☼	6010D	Total/NA
Iron	85000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	53		2.8		mg/Kg	5	☼	6010D	Total/NA
Magnesium	5100		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	9800		5.7		mg/Kg	5	☼	6010D	Total/NA
Nickel	19		5.7		mg/Kg	5	☼	6010D	Total/NA
Potassium	1100		57		mg/Kg	1	☼	6010D	Total/NA
Sodium	690		110		mg/Kg	1	☼	6010D	Total/NA
Vanadium	39		2.8		mg/Kg	5	☼	6010D	Total/NA
Zinc	150		2.3		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.092		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	14		2.4		mg/Kg	10	☼	9012B	Total/NA
pH	8.30		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB33 (0-3)
Lab Sample ID: 500-256166-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0077		0.0044	0.0019	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.032		0.018	0.0074	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.00067	J	0.0018	0.00056	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.011		0.0044	0.00081	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00093	J	0.0018	0.00036	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.00082	J	0.0035	0.00061	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.024	J	0.036	0.0073	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.029	J	0.036	0.0061	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.060		0.036	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.50		0.036	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	1.1		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.5		0.036	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.2		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.54		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.65		0.036	0.0095	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.24		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.66		0.036	0.0083	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.015	J	0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.1		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.050		0.036	0.0065	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.34		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.62		0.036	0.0098	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB33 (0-3) (Continued)
Lab Sample ID: 500-256166-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.026	J	0.072	0.0072	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.028	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.033	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Phenol	0.044	J	0.18	0.016	mg/Kg	1	☼	8270E	Total/NA
PCB-1260	0.30		0.017		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.30		0.017		mg/Kg	1	☼	8082A	Total/NA
Aluminum	15000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	180		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.8		0.41		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.80		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	180000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	570		5.1		mg/Kg	5	☼	6010D	Total/NA
Cobalt	4.5		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	53		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	47000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	94		0.51		mg/Kg	1	☼	6010D	Total/NA
Magnesium	31000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	10000		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	86		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	830		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	5.1		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	460		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	120		0.51		mg/Kg	1	☼	6010D	Total/NA
Zinc	210		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.089		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.0		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	11.25		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB33 (5-7.5)
Lab Sample ID: 500-256166-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.0015	J	0.0028	0.0011	mg/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	0.0046	J	0.0071	0.0031	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.019	J	0.028	0.012	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0051	J	0.0071	0.0013	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0011	J	0.0028	0.00057	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.015	J	0.039	0.0067	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.022	J	0.039	0.0081	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.10		0.039	0.0084	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.11		0.039	0.038	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.19		0.039	0.038	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.16		0.039	0.0086	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.056		0.039	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.13		0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.17		0.039	0.0092	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.039	0.039	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.046		0.039	0.0072	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.30		0.039	0.0086	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.14		0.039	0.011	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.054	J	0.080	0.0080	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB33 (5-7.5) (Continued)
Lab Sample ID: 500-256166-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	0.026	J	0.20	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	10000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.8		5.2		mg/Kg	5	☼	6010D	Total/NA
Barium	130		5.2		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.1		2.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	110000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	460		5.2		mg/Kg	5	☼	6010D	Total/NA
Cobalt	7.4		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	31		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	79000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	21		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	18000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	19000		5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	19		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	430		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	8.6		5.2		mg/Kg	5	☼	6010D	Total/NA
Sodium	470		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	210		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	100		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.061		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.4		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.98		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB34 (0-3)
Lab Sample ID: 500-256166-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.0061		0.0017	0.00070	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.0074	J	0.017	0.0073	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0031	J	0.0043	0.00080	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.0062		0.0017	0.00098	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.083		0.037	0.0076	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.039		0.037	0.0063	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.39		0.037	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.97		0.037	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.89		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.4		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.58		0.037	0.0081	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.47		0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	1.0		0.037	0.0098	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.15		0.037	0.037	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	2.1		0.037	0.0087	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.089		0.037	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.62		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.10		0.037	0.0067	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	1.4		0.037	0.0081	mg/Kg	1	☼	8270E	Total/NA
Pyrene	1.8		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.092		0.075	0.0075	mg/Kg	1	☼	8270E	Total/NA
Butyl benzyl phthalate	0.031	J	0.19	0.019	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.050	J	0.19	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.091	J	0.19	0.013	mg/Kg	1	☼	8270E	Total/NA
Dimethyl phthalate	0.022	J	0.19	0.0081	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB34 (0-3) (Continued)
Lab Sample ID: 500-256166-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.21		0.018		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.21		0.018		mg/Kg	1	☼	8082A	Total/NA
Aluminum	10000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	17		4.7		mg/Kg	5	☼	6010D	Total/NA
Barium	180		4.7		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.3		0.94		mg/Kg	5	☼	6010D	Total/NA
Calcium	110000		94		mg/Kg	5	☼	6010D	Total/NA
Chromium	450		4.7		mg/Kg	5	☼	6010D	Total/NA
Cobalt	8.2		0.47		mg/Kg	1	☼	6010D	Total/NA
Copper	51		4.7		mg/Kg	5	☼	6010D	Total/NA
Iron	140000		94		mg/Kg	5	☼	6010D	Total/NA
Lead	88		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	24000		9.4		mg/Kg	1	☼	6010D	Total/NA
Manganese	14000		4.7		mg/Kg	5	☼	6010D	Total/NA
Nickel	93		4.7		mg/Kg	5	☼	6010D	Total/NA
Potassium	590		47		mg/Kg	1	☼	6010D	Total/NA
Selenium	5.7		4.7		mg/Kg	5	☼	6010D	Total/NA
Sodium	350		94		mg/Kg	1	☼	6010D	Total/NA
Vanadium	160		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	240		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.22		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	4.1		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	9.33		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB34 (5-7.5)
Lab Sample ID: 500-256166-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.15		0.064	0.029	mg/Kg	50	☼	8260D	Total/NA
Ethylbenzene	0.024		0.016	0.011	mg/Kg	50	☼	8260D	Total/NA
Tetrachloroethene	0.12		0.064	0.025	mg/Kg	50	☼	8260D	Total/NA
Toluene	0.023		0.016	0.014	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.055		0.032	0.015	mg/Kg	50	☼	8260D	Total/NA
Acenaphthylene	0.036		0.036	0.0061	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.047		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.31		0.036	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.33		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.60		0.036	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.29		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.18		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.39		0.036	0.0095	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.091		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.58		0.036	0.0084	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.011	J	0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.30		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.058		0.036	0.0065	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.31		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.47		0.036	0.0098	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.065	J	0.073	0.0072	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.023	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.021	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	5600		19		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB34 (5-7.5) (Continued) — Lab Sample ID: 500-256166-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	17		4.8		mg/Kg	5	☼	6010D	Total/NA
Barium	100		4.8		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.0		0.97		mg/Kg	5	☼	6010D	Total/NA
Calcium	21000		19		mg/Kg	1	☼	6010D	Total/NA
Chromium	51		0.97		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.1		0.48		mg/Kg	1	☼	6010D	Total/NA
Copper	27		4.8		mg/Kg	5	☼	6010D	Total/NA
Iron	150000		97		mg/Kg	5	☼	6010D	Total/NA
Lead	49		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	3400		9.7		mg/Kg	1	☼	6010D	Total/NA
Manganese	7300		4.8		mg/Kg	5	☼	6010D	Total/NA
Nickel	10		4.8		mg/Kg	5	☼	6010D	Total/NA
Potassium	170		48		mg/Kg	1	☼	6010D	Total/NA
Sodium	110		97		mg/Kg	1	☼	6010D	Total/NA
Vanadium	50		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	170		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.042		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.5		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	7.71		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB35 (0-3) — Lab Sample ID: 500-256166-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.0020	J	0.0022	0.00091	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0072		0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.0091		0.0022	0.0013	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00057	J	0.0022	0.00045	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.11		0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.043	J	0.069	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.14		0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.2		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	2.1		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	3.1		0.069	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	2.3		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.0		0.069	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.6		0.069	0.018	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.55		0.069	0.069	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	1.5		0.069	0.016	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.040	J	0.069	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.1		0.069	0.068	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.045	J	0.069	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.67		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	1.4		0.069	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.043	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Butyl benzyl phthalate	0.052	J	0.35	0.035	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.073	J	0.35	0.027	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.052	J	0.35	0.025	mg/Kg	2	☼	8270E	Total/NA
Dimethyl phthalate	0.079	J	0.35	0.015	mg/Kg	2	☼	8270E	Total/NA
Aluminum	16000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.4		5.2		mg/Kg	5	☼	6010D	Total/NA
Barium	310		5.2		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB35 (0-3) (Continued)
Lab Sample ID: 500-256166-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	3.5		2.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.2		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	150000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	810		5.2		mg/Kg	5	☼	6010D	Total/NA
Cobalt	6.7		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	72		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	80000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	110		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	26000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	12000		5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	160		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	790		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	6.9		5.2		mg/Kg	5	☼	6010D	Total/NA
Sodium	520		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	150		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	280		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.36		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	8.1		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.22		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB35 (7.5-10)
Lab Sample ID: 500-256166-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.0012	J	0.0020	0.00083	mg/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	0.0028	J	0.0051	0.0023	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.014	J	0.020	0.0086	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0070		0.0051	0.00094	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.0069		0.0020	0.0011	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00052	J	0.0020	0.00041	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.059		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.041		0.036	0.0061	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.11		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.66		0.036	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	1.1		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.6		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.3		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.63		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.89		0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.30		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.95		0.036	0.0084	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.035	J	0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.2		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.044		0.036	0.0066	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.46		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.88		0.036	0.0099	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.048	J	0.073	0.0073	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.056	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.036	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	16000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.7		5.3		mg/Kg	5	☼	6010D	Total/NA
Barium	360		5.3		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB35 (7.5-10) (Continued) — Lab Sample ID: 500-256166-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	4.9		2.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	170000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	810		5.3		mg/Kg	5	☼	6010D	Total/NA
Cobalt	6.1		0.53		mg/Kg	1	☼	6010D	Total/NA
Copper	54		5.3		mg/Kg	5	☼	6010D	Total/NA
Iron	90000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	71		2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	29000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	11000		5.3		mg/Kg	5	☼	6010D	Total/NA
Nickel	150		5.3		mg/Kg	5	☼	6010D	Total/NA
Potassium	800		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	6.1		5.3		mg/Kg	5	☼	6010D	Total/NA
Sodium	600		110		mg/Kg	1	☼	6010D	Total/NA
Vanadium	260		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	220		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.087		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	8.6		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.36		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB36 (0-3) — Lab Sample ID: 500-256166-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.0029		0.0022	0.00088	mg/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	0.015		0.0054	0.0024	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.075		0.022	0.0091	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0080		0.0054	0.0010	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.11		0.0022	0.0012	mg/Kg	1	☼	8260D	Total/NA
Trichloroethene	0.00066	J	0.0022	0.00059	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.054	J	0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.10		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.78		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.95		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	2.0		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.7		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.73		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.99		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.22		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	2.4		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.4		0.071	0.070	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.11		0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	1.8		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	1.7		0.071	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.093	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.036	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.18	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
PCB-1260	0.021		0.017		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.021		0.017		mg/Kg	1	☼	8082A	Total/NA
Aluminum	11000		20		mg/Kg	1	☼	6010D	Total/NA
Antimony	68		2.0		mg/Kg	1	☼	6010D	Total/NA
Arsenic	27		5.1		mg/Kg	5	☼	6010D	Total/NA
Barium	200		5.1		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB36 (0-3) (Continued) — Lab Sample ID: 500-256166-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	2.3		2.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	130000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	6100		51		mg/Kg	50	☼	6010D	Total/NA
Cobalt	18		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	76		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	100000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	72		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	20000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	5600		51		mg/Kg	50	☼	6010D	Total/NA
Nickel	760		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	820		51		mg/Kg	1	☼	6010D	Total/NA
Sodium	420		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	45		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	190		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.077		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	13		2.5		mg/Kg	10	☼	9012B	Total/NA
pH	10.10		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB36 (5-7.5) — Lab Sample ID: 500-256166-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.0016	J	0.0023	0.00092	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.013	J	0.023	0.0096	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0010	J	0.0057	0.0010	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.042		0.0023	0.0013	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.021	J	0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.090		0.072	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.082		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.61		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.61		0.072	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.0		0.072	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.56		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.46		0.072	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.69		0.072	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.12		0.072	0.072	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	1.3		0.072	0.017	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.59		0.072	0.070	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.055	J	0.072	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.85		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	1.0		0.072	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.077	J	0.15	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.037	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.066	J	0.36	0.026	mg/Kg	2	☼	8270E	Total/NA
Aluminum	11000		20		mg/Kg	1	☼	6010D	Total/NA
Antimony	20		2.0		mg/Kg	1	☼	6010D	Total/NA
Arsenic	21		4.9		mg/Kg	5	☼	6010D	Total/NA
Barium	230		4.9		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.6		2.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	110000		99		mg/Kg	5	☼	6010D	Total/NA
Chromium	2800		49		mg/Kg	50	☼	6010D	Total/NA
Cobalt	14		0.49		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB36 (5-7.5) (Continued) — Lab Sample ID: 500-256166-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	82		4.9		mg/Kg	5	☼	6010D	Total/NA
Iron	110000		99		mg/Kg	5	☼	6010D	Total/NA
Lead	79		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	15000		9.9		mg/Kg	1	☼	6010D	Total/NA
Manganese	5600		49		mg/Kg	50	☼	6010D	Total/NA
Nickel	600		4.9		mg/Kg	5	☼	6010D	Total/NA
Potassium	940		49		mg/Kg	1	☼	6010D	Total/NA
Sodium	500		99		mg/Kg	1	☼	6010D	Total/NA
Vanadium	40		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	190		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.12		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	14		2.5		mg/Kg	10	☼	9012B	Total/NA
pH	10.00		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB37 (0-3) — Lab Sample ID: 500-256166-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0018	J	0.0061	0.0011	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.14		0.072	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.096		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.42		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.46		0.072	0.070	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.85		0.072	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.35		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.29		0.072	0.028	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.59		0.072	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.10		0.072	0.072	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.62		0.072	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.026	J	0.072	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.39		0.072	0.071	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.11		0.072	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.45		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.55		0.072	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.17		0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.038	J	0.37	0.029	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.087	J	0.37	0.026	mg/Kg	2	☼	8270E	Total/NA
Aluminum	10000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.5		4.6		mg/Kg	5	☼	6010D	Total/NA
Barium	140		4.6		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.2		0.93		mg/Kg	5	☼	6010D	Total/NA
Calcium	84000		93		mg/Kg	5	☼	6010D	Total/NA
Chromium	150		0.93		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.3		0.46		mg/Kg	1	☼	6010D	Total/NA
Copper	150		4.6		mg/Kg	5	☼	6010D	Total/NA
Iron	73000		93		mg/Kg	5	☼	6010D	Total/NA
Lead	110		2.3		mg/Kg	5	☼	6010D	Total/NA
Magnesium	10000		9.3		mg/Kg	1	☼	6010D	Total/NA
Manganese	3600		4.6		mg/Kg	5	☼	6010D	Total/NA
Nickel	91		4.6		mg/Kg	5	☼	6010D	Total/NA
Potassium	670		46		mg/Kg	1	☼	6010D	Total/NA
Sodium	410		93		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB37 (0-3) (Continued) — Lab Sample ID: 500-256166-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	50		2.3		mg/Kg	5	☼	6010D	Total/NA
Zinc	130		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.40		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.7		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	8.68		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB37 (12.5-15) — Lab Sample ID: 500-256166-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.025	0.010	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0012	J	0.0025	0.00049	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.012	J	0.036	0.0075	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.022	J	0.036	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.053		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.063		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.026	J	0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.052		0.036	0.0097	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.11		0.036	0.0085	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.014	J	0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.029	J	0.036	0.0066	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.18		0.036	0.0080	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.081		0.036	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.037	J	0.074	0.0074	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.018	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Gasoline Range Organics (C6-C9)	38		1.3		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	81		9.1		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	45		18		mg/Kg	1	☼	8015D	Total/NA
Aluminum	3200		19		mg/Kg	1	☼	6010D	Total/NA
Barium	43		4.9		mg/Kg	5	☼	6010D	Total/NA
Calcium	14000		19		mg/Kg	1	☼	6010D	Total/NA
Chromium	46		0.97		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.4		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	32		4.9		mg/Kg	5	☼	6010D	Total/NA
Iron	200000		97		mg/Kg	5	☼	6010D	Total/NA
Lead	34		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	3000		9.7		mg/Kg	1	☼	6010D	Total/NA
Manganese	1100		0.97		mg/Kg	1	☼	6010D	Total/NA
Nickel	21		4.9		mg/Kg	5	☼	6010D	Total/NA
Potassium	82		49		mg/Kg	1	☼	6010D	Total/NA
Sodium	170		97		mg/Kg	1	☼	6010D	Total/NA
Vanadium	23		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	100		1.9		mg/Kg	1	☼	6010D	Total/NA
Sulfide	39		34		mg/Kg	1	☼	9034	Total/NA
pH	7.62		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB38 (0-3) — Lab Sample ID: 500-256166-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.094		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.045	J	0.072	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.27		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.9		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB38 (0-3) (Continued)
Lab Sample ID: 500-256166-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	1.9		0.072	0.070	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	2.9		0.072	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.1		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.1		0.072	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	2.1		0.072	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.29		0.072	0.072	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	3.1		0.072	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.071	J	0.072	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.2		0.072	0.070	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.021	J	0.072	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	1.1		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	2.8		0.072	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.023	J	0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.17	J	0.36	0.029	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.041	J	0.36	0.026	mg/Kg	2	☼	8270E	Total/NA
Aluminum	17000		18		mg/Kg	1	☼	6010D	Total/NA
Antimony	2.3		1.8		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.7		0.92		mg/Kg	1	☼	6010D	Total/NA
Barium	190		0.92		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.6		1.8		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.9		0.18		mg/Kg	1	☼	6010D	Total/NA
Calcium	120000		92		mg/Kg	5	☼	6010D	Total/NA
Chromium	310		4.6		mg/Kg	5	☼	6010D	Total/NA
Cobalt	6.3		0.46		mg/Kg	1	☼	6010D	Total/NA
Copper	51		0.92		mg/Kg	1	☼	6010D	Total/NA
Iron	42000		18		mg/Kg	1	☼	6010D	Total/NA
Lead	100		0.46		mg/Kg	1	☼	6010D	Total/NA
Magnesium	21000		9.2		mg/Kg	1	☼	6010D	Total/NA
Manganese	6800		4.6		mg/Kg	5	☼	6010D	Total/NA
Nickel	150		0.92		mg/Kg	1	☼	6010D	Total/NA
Potassium	670		46		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.7		0.92		mg/Kg	1	☼	6010D	Total/NA
Sodium	420		92		mg/Kg	1	☼	6010D	Total/NA
Vanadium	34		0.46		mg/Kg	1	☼	6010D	Total/NA
Zinc	150		1.8		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.13		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	36		2.6		mg/Kg	10	☼	9012B	Total/NA
pH	8.88		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB38 (12.5-15)
Lab Sample ID: 500-256166-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1.0		0.035	0.0071	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.029	J	0.035	0.0059	mg/Kg	1	☼	8270E	Total/NA
Anthracene	1.8		0.035	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	4.9		0.035	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	4.5		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	6.0		0.035	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	2.0		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	2.3		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	5.0		0.035	0.0092	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB38 (12.5-15) (Continued) — Lab Sample ID: 500-256166-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.64		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.81		0.035	0.010	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.4		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.11		0.035	0.0063	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	6.5		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Pyrene	8.4		0.035	0.0095	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.14		0.071	0.0070	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.65		0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.36		0.18	0.012	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene - DL	11		0.70	0.16	mg/Kg	20	☼	8270E	Total/NA
Aluminum	4900		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.9		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	40		1.0		mg/Kg	1	☼	6010D	Total/NA
Calcium	15000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	12		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.4		0.50		mg/Kg	1	☼	6010D	Total/NA
Copper	24		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	17000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	19		0.50		mg/Kg	1	☼	6010D	Total/NA
Magnesium	2600		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	1900		1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	7.5		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	400		50		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.4		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	180		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	6.7		1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	25		0.50		mg/Kg	1	☼	6010D	Total/NA
Zinc	50		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.017		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	3.1		0.24		mg/Kg	1	☼	9012B	Total/NA
Sulfide	320		33		mg/Kg	1	☼	9034	Total/NA
pH	7.95		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB39 (0-3) — Lab Sample ID: 500-256166-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.030		0.023	0.0098	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0022	J	0.0058	0.0011	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.91		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.085		0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	2.5		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	9.3		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	9.4		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	13		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	4.8		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	4.9		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	9.8		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	1.4		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	19		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.80		0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	5.4		0.071	0.070	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB39 (0-3) (Continued) — Lab Sample ID: 500-256166-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.10		0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	9.1		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	16		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.076	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	1.3		0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.36		0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
PCB-1254	8.5		0.91		mg/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	8.5		0.91		mg/Kg	50	☼	8082A	Total/NA
Aluminum	11000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.9		0.93		mg/Kg	1	☼	6010D	Total/NA
Barium	130		0.93		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.82		0.19		mg/Kg	1	☼	6010D	Total/NA
Calcium	130000		93		mg/Kg	5	☼	6010D	Total/NA
Chromium	390		4.6		mg/Kg	5	☼	6010D	Total/NA
Cobalt	4.1		0.46		mg/Kg	1	☼	6010D	Total/NA
Copper	290		4.6		mg/Kg	5	☼	6010D	Total/NA
Iron	37000		19		mg/Kg	1	☼	6010D	Total/NA
Lead	90		0.46		mg/Kg	1	☼	6010D	Total/NA
Magnesium	24000		9.3		mg/Kg	1	☼	6010D	Total/NA
Manganese	5900		4.6		mg/Kg	5	☼	6010D	Total/NA
Nickel	69		0.93		mg/Kg	1	☼	6010D	Total/NA
Potassium	600		46		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.2		0.93		mg/Kg	1	☼	6010D	Total/NA
Sodium	340		93		mg/Kg	1	☼	6010D	Total/NA
Vanadium	64		0.46		mg/Kg	1	☼	6010D	Total/NA
Zinc	200		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.039		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	7.8		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	10.74		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB39 (7.5-10) — Lab Sample ID: 500-256166-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0038	J	0.0053	0.0023	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.040		0.021	0.0090	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0030	J	0.0053	0.00098	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00055	J	0.0021	0.00043	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.096		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.028	J	0.036	0.0062	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.24		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.85		0.036	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.84		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.3		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.50		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.52		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.93		0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.15		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	1.8		0.036	0.0084	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.080		0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.57		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.025	J	0.036	0.0066	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB39 (7.5-10) (Continued)
Lab Sample ID: 500-256166-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.95		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Pyrene	1.5		0.036	0.0099	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.024	J	0.073	0.0073	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.13	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.049	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Phenol	0.099	J	0.18	0.016	mg/Kg	1	☼	8270E	Total/NA
PCB-1254	3.0		0.17		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	3.0		0.17		mg/Kg	10	☼	8082A	Total/NA
Aluminum	13000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.1		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	130		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.6		2.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	0.26		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	180000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	81		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.8		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	80		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	18000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	23		0.52		mg/Kg	1	☼	6010D	Total/NA
Magnesium	32000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	3300		5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	31		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	850		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.7		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	470		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	16		0.52		mg/Kg	1	☼	6010D	Total/NA
Zinc	61		2.1		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	10		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	11.32		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB40 (0-3)
Lab Sample ID: 500-256166-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0090	J	0.021	0.0086	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.25		0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.021	J	0.068	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.57		0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	2.3		0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	2.4		0.068	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	3.3		0.068	0.065	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.2		0.068	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.2		0.068	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	2.5		0.068	0.018	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.34		0.068	0.068	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	4.9		0.068	0.016	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.19		0.068	0.020	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.4		0.068	0.066	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.058	J	0.068	0.012	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	2.2		0.068	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	4.1		0.068	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.043	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB40 (0-3) (Continued)
Lab Sample ID: 500-256166-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylphenol	0.051	J	0.34	0.036	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.32	J	0.34	0.027	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.095	J	0.34	0.024	mg/Kg	2	☼	8270E	Total/NA
Phenol	0.17	J	0.34	0.029	mg/Kg	2	☼	8270E	Total/NA
Aluminum	6800		20		mg/Kg	1	☼	6010D	Total/NA
Barium	140		5.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.8		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	54000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	540		5.1		mg/Kg	5	☼	6010D	Total/NA
Cobalt	9.0		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	260		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	210000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	140		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	10000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	8600		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	250		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	330		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	6.5		5.1		mg/Kg	5	☼	6010D	Total/NA
Sodium	370		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	150		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	210		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.19		0.015		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.8		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	8.66		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB40 (5-7.5)
Lab Sample ID: 500-256166-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016	J	0.023	0.0096	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0037	J	0.0057	0.0011	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.094		0.037	0.0076	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.20		0.037	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.53		0.037	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.54		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.73		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.27		0.037	0.0081	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.30		0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.59		0.037	0.0099	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.073		0.037	0.037	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	1.2		0.037	0.0087	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.082		0.037	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.32		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.065		0.037	0.0068	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.86		0.037	0.0081	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.96		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
2,4-Dimethylphenol	0.12	J	0.37	0.084	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.12		0.075	0.0075	mg/Kg	1	☼	8270E	Total/NA
3 & 4 Methylphenol	0.12	J	0.19	0.027	mg/Kg	1	☼	8270E	Total/NA
Butyl benzyl phthalate	0.020	J	0.19	0.019	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.091	J	0.19	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.063	J	0.19	0.013	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB40 (5-7.5) (Continued) — Lab Sample ID: 500-256166-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenol	0.81		0.19	0.016	mg/Kg	1	☼	8270E	Total/NA
Aluminum	9700		22		mg/Kg	1	☼	6010D	Total/NA
Antimony	2.4		2.2		mg/Kg	1	☼	6010D	Total/NA
Arsenic	12		5.6		mg/Kg	5	☼	6010D	Total/NA
Barium	190		5.6		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.3		1.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	60000		22		mg/Kg	1	☼	6010D	Total/NA
Chromium	850		5.6		mg/Kg	5	☼	6010D	Total/NA
Cobalt	10		0.56		mg/Kg	1	☼	6010D	Total/NA
Copper	150		5.6		mg/Kg	5	☼	6010D	Total/NA
Iron	180000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	96		2.8		mg/Kg	5	☼	6010D	Total/NA
Magnesium	11000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	16000		5.6		mg/Kg	5	☼	6010D	Total/NA
Nickel	410		5.6		mg/Kg	5	☼	6010D	Total/NA
Potassium	700		56		mg/Kg	1	☼	6010D	Total/NA
Selenium	9.3		5.6		mg/Kg	5	☼	6010D	Total/NA
Sodium	520		110		mg/Kg	1	☼	6010D	Total/NA
Vanadium	150		2.8		mg/Kg	5	☼	6010D	Total/NA
Zinc	180		2.2		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.15		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.2		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	8.66		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB41 (0-3) — Lab Sample ID: 500-256166-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.032		0.031	0.013	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0078		0.0076	0.0014	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	13		0.13	0.026	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.19		0.13	0.021	mg/Kg	2	☼	8270E	Total/NA
Anthracene	23		0.13	0.026	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	22		0.13	0.027	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	20		0.13	0.048	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	10		0.13	0.13	mg/Kg	2	☼	8270E	Total/NA
Fluorene	11		0.13	0.037	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	24		0.13	0.12	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	2.7		0.13	0.023	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	1.6		0.25	0.025	mg/Kg	2	☼	8270E	Total/NA
Carbazole	12		0.64	0.050	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	6.3		0.64	0.045	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene - DL	60		6.3	1.3	mg/Kg	100	☼	8270E	Total/NA
Benzo[a]pyrene - DL	53		6.3	6.1	mg/Kg	100	☼	8270E	Total/NA
Benzo[b]fluoranthene - DL	77		6.3	6.0	mg/Kg	100	☼	8270E	Total/NA
Chrysene - DL	60		6.3	1.7	mg/Kg	100	☼	8270E	Total/NA
Fluoranthene - DL	130		6.3	1.5	mg/Kg	100	☼	8270E	Total/NA
Phenanthrene - DL	99		6.3	1.4	mg/Kg	100	☼	8270E	Total/NA
Pyrene - DL	100		6.3	1.7	mg/Kg	100	☼	8270E	Total/NA
4,4'-DDT	0.32		0.021	0.0099	mg/Kg	10	☼	8081B	Total/NA
PCB-1254	2.9		0.21		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2.9		0.21		mg/Kg	10	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB41 (0-3) (Continued)
Lab Sample ID: 500-256166-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	22000		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.2		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	240		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	5.9		2.2		mg/Kg	5	☼	6010D	Total/NA
Cadmium	0.87		0.22		mg/Kg	1	☼	6010D	Total/NA
Calcium	220000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	93		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.0		0.55		mg/Kg	1	☼	6010D	Total/NA
Copper	35		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	21000		22		mg/Kg	1	☼	6010D	Total/NA
Lead	67		0.55		mg/Kg	1	☼	6010D	Total/NA
Magnesium	28000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	7600		5.5		mg/Kg	5	☼	6010D	Total/NA
Nickel	35		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1000		55		mg/Kg	1	☼	6010D	Total/NA
Selenium	4.5		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	630		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	6.8		5.5		mg/Kg	5	☼	6010D	Total/NA
Vanadium	53		0.55		mg/Kg	1	☼	6010D	Total/NA
Zinc	310		2.2		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.078		0.019		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	13		2.9		mg/Kg	10	☼	9012B	Total/NA
pH	12.35		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB41 (5-7.5)
Lab Sample ID: 500-256166-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0013	J	0.0061	0.0011	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.93		0.11	0.022	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.045	J	0.11	0.019	mg/Kg	2	☼	8270E	Total/NA
Anthracene	1.9		0.11	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	5.0		0.11	0.023	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	4.5		0.11	0.11	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	6.4		0.11	0.10	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	2.5		0.11	0.024	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	2.7		0.11	0.042	mg/Kg	2	☼	8270E	Total/NA
Chrysene	5.2		0.11	0.029	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.90		0.11	0.11	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	11		0.11	0.025	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.78		0.11	0.032	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.7		0.11	0.11	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.17		0.11	0.020	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	7.4		0.11	0.024	mg/Kg	2	☼	8270E	Total/NA
Pyrene	8.5		0.11	0.030	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.14	J	0.22	0.022	mg/Kg	2	☼	8270E	Total/NA
Carbazole	1.2		0.55	0.043	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.44	J	0.55	0.039	mg/Kg	2	☼	8270E	Total/NA
Aluminum	9600		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	12		5.2		mg/Kg	5	☼	6010D	Total/NA
Barium	130		5.2		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.3		2.1		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB41 (5-7.5) (Continued) — Lab Sample ID: 500-256166-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	62000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	470		5.2		mg/Kg	5	☼	6010D	Total/NA
Cobalt	9.6		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	66		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	82000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	80		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	16000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	2900		5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	220		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	750		52		mg/Kg	1	☼	6010D	Total/NA
Sodium	380		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	28		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	200		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.042		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	15		2.6		mg/Kg	10	☼	9012B	Total/NA
pH	10.17		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB42 (0-3) — Lab Sample ID: 500-256166-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.42		0.10	0.021	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.063	J	0.10	0.018	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.78		0.10	0.021	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	2.4		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	2.1		0.10	0.10	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	3.1		0.10	0.099	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.1		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.2		0.10	0.039	mg/Kg	2	☼	8270E	Total/NA
Chrysene	2.5		0.10	0.027	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.33		0.10	0.10	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	5.2		0.10	0.024	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.34		0.10	0.031	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.2		0.10	0.10	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.16		0.10	0.019	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	3.2		0.10	0.023	mg/Kg	2	☼	8270E	Total/NA
Pyrene	4.0		0.10	0.028	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.11	J	0.21	0.021	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.47	J	0.52	0.041	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.17	J	0.52	0.037	mg/Kg	2	☼	8270E	Total/NA
Dieldrin	0.014	J	0.017	0.0089	mg/Kg	10	☼	8081B	Total/NA
PCB-1260	0.87		0.17		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.87		0.17		mg/Kg	10	☼	8082A	Total/NA
Aluminum	10000		19		mg/Kg	1	☼	6010D	Total/NA
Antimony	90		1.9		mg/Kg	1	☼	6010D	Total/NA
Arsenic	29		4.7		mg/Kg	5	☼	6010D	Total/NA
Barium	160		4.7		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.7		1.9		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.4		0.94		mg/Kg	5	☼	6010D	Total/NA
Calcium	50000		19		mg/Kg	1	☼	6010D	Total/NA
Chromium	160		0.94		mg/Kg	1	☼	6010D	Total/NA
Cobalt	11		0.47		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB42 (0-3) (Continued) — Lab Sample ID: 500-256166-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	280		4.7		mg/Kg	5	☼	6010D	Total/NA
Iron	240000		94		mg/Kg	5	☼	6010D	Total/NA
Lead	810		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	12000		9.4		mg/Kg	1	☼	6010D	Total/NA
Manganese	3600		4.7		mg/Kg	5	☼	6010D	Total/NA
Nickel	110		4.7		mg/Kg	5	☼	6010D	Total/NA
Potassium	260		47		mg/Kg	1	☼	6010D	Total/NA
Sodium	330		94		mg/Kg	1	☼	6010D	Total/NA
Thallium	5.2		4.7		mg/Kg	5	☼	6010D	Total/NA
Vanadium	41		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	110		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.039		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	11	F2	2.2		mg/Kg	10	☼	9012B	Total/NA
pH	8.38		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB42 (7.5-10) — Lab Sample ID: 500-256166-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1000		17		mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.3		0.87		mg/Kg	1	☼	6010D	Total/NA
Barium	4.6		0.87		mg/Kg	1	☼	6010D	Total/NA
Calcium	43000		17		mg/Kg	1	☼	6010D	Total/NA
Chromium	2.9		0.87		mg/Kg	1	☼	6010D	Total/NA
Cobalt	1.8		0.43		mg/Kg	1	☼	6010D	Total/NA
Copper	2.8		0.87		mg/Kg	1	☼	6010D	Total/NA
Iron	3300		17		mg/Kg	1	☼	6010D	Total/NA
Lead	0.78		0.43		mg/Kg	1	☼	6010D	Total/NA
Magnesium	20000		8.7		mg/Kg	1	☼	6010D	Total/NA
Manganese	160		4.3		mg/Kg	5	☼	6010D	Total/NA
Nickel	3.3		0.87		mg/Kg	1	☼	6010D	Total/NA
Potassium	240		43		mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.2		0.43		mg/Kg	1	☼	6010D	Total/NA
Zinc	7.9		1.7		mg/Kg	1	☼	6010D	Total/NA
pH	8.58		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB43 (0-3) — Lab Sample ID: 500-256166-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0037	J	0.0061	0.0011	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.056	J	0.11	0.023	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.036	J	0.11	0.028	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.044	J	0.11	0.025	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.025	J	0.11	0.023	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.044	J	0.11	0.029	mg/Kg	2	☼	8270E	Total/NA
Aluminum	9500		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.7		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	120		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.0		2.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	180000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	13		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	1.9		0.50		mg/Kg	1	☼	6010D	Total/NA
Copper	3.3		1.0		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB43 (0-3) (Continued)
Lab Sample ID: 500-256166-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4500		20		mg/Kg	1	☼	6010D	Total/NA
Magnesium	44000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	1400		5.0		mg/Kg	5	☼	6010D	Total/NA
Nickel	4.5		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	630		50		mg/Kg	1	☼	6010D	Total/NA
Sodium	310		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	2.6		1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	10		0.50		mg/Kg	1	☼	6010D	Total/NA
Zinc	8.3		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	7.7		1.2		mg/Kg	5	☼	9012B	Total/NA
pH	12.08		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB43 (10-12.5)
Lab Sample ID: 500-256166-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0094		0.0062	0.0027	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.041		0.025	0.010	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.0057		0.0025	0.00078	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0018	J	0.0062	0.0011	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0033		0.0025	0.00050	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.14		0.073	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.22		0.073	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.11		0.073	0.071	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.14		0.073	0.070	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.070	J	0.073	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.065	J	0.073	0.028	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.30		0.073	0.019	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.41		0.073	0.017	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.19		0.073	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	3.1		0.073	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.34		0.073	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.62		0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.043	J	0.37	0.029	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.17	J	0.37	0.026	mg/Kg	2	☼	8270E	Total/NA
Aluminum	5400		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.2		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	54		1.1		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.31		0.22		mg/Kg	1	☼	6010D	Total/NA
Calcium	19000		22		mg/Kg	1	☼	6010D	Total/NA
Chromium	12		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.0		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	380		5.4		mg/Kg	5	☼	6010D	Total/NA
Iron	42000		22		mg/Kg	1	☼	6010D	Total/NA
Lead	76		0.54		mg/Kg	1	☼	6010D	Total/NA
Magnesium	5900		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	1200		5.4		mg/Kg	5	☼	6010D	Total/NA
Nickel	14		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	480		54		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.0		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	750		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	3.6		1.1		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB43 (10-12.5) (Continued)
Lab Sample ID: 500-256166-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	23		0.54		mg/Kg	1	☼	6010D	Total/NA
Zinc	900		2.2		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.047		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.6		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	7.29		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256166-1	SB31 (0-3)	Solid	09/04/24 08:37	09/05/24 11:17
500-256166-2	SB31 (7.5-10)	Solid	09/04/24 08:58	09/05/24 11:17
500-256166-3	SB32 (0-3)	Solid	09/04/24 09:47	09/05/24 11:17
500-256166-4	SB32 (5-7.5)	Solid	09/04/24 10:00	09/05/24 11:17
500-256166-5	SB33 (0-3)	Solid	09/04/24 10:42	09/05/24 11:17
500-256166-6	SB33 (5-7.5)	Solid	09/04/24 10:57	09/05/24 11:17
500-256166-7	SB34 (0-3)	Solid	09/04/24 11:49	09/05/24 11:17
500-256166-8	SB34 (5-7.5)	Solid	09/04/24 12:08	09/05/24 11:17
500-256166-9	SB35 (0-3)	Solid	09/04/24 13:39	09/05/24 11:17
500-256166-10	SB35 (7.5-10)	Solid	09/04/24 13:59	09/05/24 11:17
500-256166-11	SB36 (0-3)	Solid	09/04/24 14:41	09/05/24 11:17
500-256166-12	SB36 (5-7.5)	Solid	09/04/24 14:58	09/05/24 11:17
500-256166-13	SB37 (0-3)	Solid	09/04/24 09:42	09/05/24 11:17
500-256166-14	SB37 (12.5-15)	Solid	09/04/24 09:48	09/05/24 11:17
500-256166-15	SB38 (0-3)	Solid	09/04/24 10:11	09/05/24 11:17
500-256166-16	SB38 (12.5-15)	Solid	09/04/24 10:14	09/05/24 11:17
500-256166-17	SB39 (0-3)	Solid	09/04/24 10:30	09/05/24 11:17
500-256166-18	SB39 (7.5-10)	Solid	09/04/24 10:41	09/05/24 11:17
500-256166-19	SB40 (0-3)	Solid	09/04/24 10:52	09/05/24 11:17
500-256166-20	SB40 (5-7.5)	Solid	09/04/24 11:12	09/05/24 11:17
500-256166-21	SB41 (0-3)	Solid	09/04/24 11:36	09/05/24 11:17
500-256166-22	SB41 (5-7.5)	Solid	09/04/24 11:42	09/05/24 11:17
500-256166-23	SB42 (0-3)	Solid	09/04/24 12:43	09/05/24 11:17
500-256166-24	SB42 (7.5-10)	Solid	09/04/24 12:52	09/05/24 11:17
500-256166-25	SB43 (0-3)	Solid	09/04/24 13:42	09/05/24 11:17
500-256166-26	SB43 (10-12.5)	Solid	09/04/24 13:47	09/05/24 11:17

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB31 (0-3)
Lab Sample ID: 500-256166-1
Date Collected: 09/04/24 08:37
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 89.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
1,1,2,2-Tetrachloroethane	<0.0014	*3	0.0028	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
1,1,2-Trichloroethane	<0.0010		0.0028	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
1,1-Dichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
1,1-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
1,2-Dichloroethane	<0.0018		0.0070	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
1,2-Dichloropropane	<0.00072		0.0028	0.00072	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
2-Butanone (MEK)	<0.0031		0.0070	0.0031	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
2-Hexanone	<0.0042		0.0070	0.0042	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0070	0.0050	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Acetone	<0.012		0.028	0.012	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Benzene	<0.00088		0.0028	0.00088	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Bromodichloromethane	<0.00090		0.0028	0.00090	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Bromoform	<0.0016		0.0028	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Bromomethane	<0.0034		0.0070	0.0034	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Carbon disulfide	**0.0047**	**J**	0.0070	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Carbon tetrachloride	<0.00095		0.0028	0.00095	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Chlorobenzene	<0.0012		0.0028	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Chloroethane	<0.0023		0.0070	0.0023	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Chloroform	<0.0020		0.0028	0.0020	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Chloromethane	<0.0014		0.0070	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
cis-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
1,3-Dichloropropene, Total	<0.0013		0.0028	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Dibromochloromethane	<0.0013		0.0028	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Ethylbenzene	<0.0015		0.0028	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Methyl tert-butyl ether	<0.00090		0.0028	0.00090	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Methylene Chloride	<0.0030		0.0070	0.0030	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Styrene	<0.0013		0.0028	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Tetrachloroethene	<0.0016		0.0028	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Toluene	**0.00056**	**J**	0.0028	0.00056	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Xylenes, Total	<0.00096		0.0056	0.00096	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
trans-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Trichloroethene	<0.00076		0.0028	0.00076	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1
Vinyl chloride	<0.0011		0.0028	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*09/05/24 18:07*	*09/12/24 02:55*	*1*
4-Bromofluorobenzene (Surr)	*137*	*3 S1+	*75 - 131*	*09/05/24 18:07*	*09/12/24 02:55*	*1*
Dibromofluoromethane	*111*		*75 - 126*	*09/05/24 18:07*	*09/12/24 02:55*	*1*
Toluene-d8 (Surr)	*135*	*S1+	*75 - 124*	*09/05/24 18:07*	*09/12/24 02:55*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.042**		0.036	0.0073	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Acenaphthylene	**0.011**	**J**	0.036	0.0061	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Anthracene	**0.068**		0.036	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Benzo[a]anthracene	**0.48**		0.036	0.0077	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Benzo[a]pyrene	**0.78**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Benzo[b]fluoranthene	**0.99**		0.036	0.034	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Benzo[g,h,i]perylene	**0.72**		0.036	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB31 (0-3)
Lab Sample ID: 500-256166-1
Date Collected: 09/04/24 08:37
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 89.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.35**		0.036	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Chrysene	**0.59**		0.036	0.0095	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Dibenz(a,h)anthracene	**0.13**		0.036	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Fluoranthene	**0.75**		0.036	0.0084	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Fluorene	**0.021**	**J**	0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Indeno[1,2,3-cd]pyrene	**0.68**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Naphthalene	**0.016**	**J**	0.036	0.0065	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Phenanthrene	**0.30**		0.036	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Pyrene	**0.79**		0.036	0.0098	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2,4-Dimethylphenol	<0.081		0.36	0.081	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2-Methylnaphthalene	**0.011**	**J**	0.073	0.0072	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
2-Nitrophenol	<0.024		0.36	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
3-Nitroaniline	<0.016		0.36	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Carbazole	**0.035**	**J**	0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Dibenzofuran	**0.021**	**J**	0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Dimethyl phthalate	<0.0078		0.18	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Hexachlorobenzene	<0.0069		0.073	0.0069	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB31 (0-3)
Lab Sample ID: 500-256166-1
Date Collected: 09/04/24 08:37
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 89.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.73	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
N-Nitrosodi-n-propylamine	<0.0071		0.073	0.0071	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Pentachlorophenol	<0.090		0.73	0.090	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*60*		*31 - 166*	*09/17/24 07:52*	*09/17/24 13:01*	*1*
Phenol-d5 (Surr)	*61*		*30 - 153*	*09/17/24 07:52*	*09/17/24 13:01*	*1*
Nitrobenzene-d5 (Surr)	*61*		*37 - 147*	*09/17/24 07:52*	*09/17/24 13:01*	*1*
2-Fluorobiphenyl (Surr)	*60*		*43 - 145*	*09/17/24 07:52*	*09/17/24 13:01*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*31 - 143*	*09/17/24 07:52*	*09/17/24 13:01*	*1*
Terphenyl-d14 (Surr)	*76*		*42 - 157*	*09/17/24 07:52*	*09/17/24 13:01*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0096	F1	0.018	0.0096	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
4,4'-DDE	<0.0092		0.018	0.0092	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
4,4'-DDT	<0.0085	F2 F1	0.018	0.0085	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
Aldrin	<0.012	F1	0.018	0.012	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
alpha-BHC	<0.010	F1	0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
alpha-Chlordane	<0.0096	F1	0.018	0.0096	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
delta-BHC	<0.043	F2	0.090	0.043	mg/Kg	☼	09/12/24 17:52	09/23/24 12:32	50
Dieldrin	<0.0094		0.018	0.0094	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
Endosulfan I	<0.0097	F1	0.018	0.0097	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
Endosulfan II	<0.0098	F1	0.018	0.0098	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
Endosulfan sulfate	<0.050		0.090	0.050	mg/Kg	☼	09/12/24 17:52	09/23/24 12:32	50
Endrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
Endrin aldehyde	<0.051		0.090	0.051	mg/Kg	☼	09/12/24 17:52	09/23/24 12:32	50
Endrin ketone	<0.0087		0.018	0.0087	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
gamma-BHC (Lindane)	<0.0089	F1	0.018	0.0089	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
Heptachlor	<0.0097		0.018	0.0097	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
Heptachlor epoxide	<0.0097		0.018	0.0097	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
Methoxychlor	<0.012	F1	0.088	0.012	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/12/24 17:52	09/23/24 12:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/12/24 17:52*	*09/23/24 12:32*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/12/24 17:52*	*09/23/24 12:32*	*50*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.36	F1	0.36		mg/Kg	☼	09/12/24 17:52	09/26/24 11:47	20
PCB-1221	<0.36		0.36		mg/Kg	☼	09/12/24 17:52	09/26/24 11:47	20

Client Sample ID: SB31 (0-3)
Date Collected: 09/04/24 08:37
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-1
Matrix: Solid
Percent Solids: 89.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.36		0.36		mg/Kg	☼	09/12/24 17:52	09/26/24 11:47	20
PCB-1242	<0.36		0.36		mg/Kg	☼	09/12/24 17:52	09/26/24 11:47	20
PCB-1248	<0.36		0.36		mg/Kg	☼	09/12/24 17:52	09/26/24 11:47	20
PCB-1254	<0.36		0.36		mg/Kg	☼	09/12/24 17:52	09/26/24 11:47	20
PCB-1260	<0.36	F1 F2	0.36		mg/Kg	☼	09/12/24 17:52	09/26/24 11:47	20
Polychlorinated biphenyls, Total	<0.36		0.36		mg/Kg	☼	09/12/24 17:52	09/26/24 11:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/12/24 17:52*	*09/26/24 11:47*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/12/24 17:52*	*09/26/24 11:47*	*20*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21000**		22		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Antimony	**4.3**	**F1**	2.2		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Arsenic	**5.2**	**F1**	1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Barium	**200**	**F1**	1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Beryllium	**5.5**	**F1**	0.44		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Cadmium	<0.22	F1	0.22		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Calcium	**220000**		110		mg/Kg	☼	09/17/24 16:18	09/19/24 16:14	5
Chromium	**1400**	**F2**	22		mg/Kg	☼	09/17/24 16:18	09/20/24 11:55	20
Cobalt	**7.7**		0.55		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Copper	**25**	**F1 F2**	1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Iron	**20000**		22		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Lead	**22**	**F1**	0.55		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Magnesium	**39000**		11		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Manganese	**4100**	**F2**	22		mg/Kg	☼	09/17/24 16:18	09/20/24 11:55	20
Nickel	**650**	**F2**	1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Potassium	**1300**	**F1**	55		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Selenium	**3.5**	**F1**	1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Silver	<2.8		2.8		mg/Kg	☼	09/17/24 16:18	09/19/24 16:14	5
Sodium	**920**	**F1**	110		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Thallium	<5.5		5.5		mg/Kg	☼	09/17/24 16:18	09/19/24 16:14	5
Vanadium	**16**	**F1**	0.55		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1
Zinc	**50**		2.2		mg/Kg	☼	09/17/24 16:18	09/18/24 21:23	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26	F1 F2	0.26		mg/Kg	☼	09/08/24 11:34	09/09/24 11:41	1
pH (SW846 9045D)	**9.91**		0.20		SU			09/10/24 13:37	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB31 (7.5-10)
Lab Sample ID: 500-256166-2
Date Collected: 09/04/24 08:58
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 83.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00097		0.0024	0.00097	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
1,1,2-Trichloroethane	<0.00090		0.0024	0.00090	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
1,1-Dichloroethane	<0.00090		0.0024	0.00090	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
1,1-Dichloroethene	<0.00099		0.0024	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
1,2-Dichloroethane	<0.0016		0.0060	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
1,2-Dichloropropane	<0.00062		0.0024	0.00062	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
2-Butanone (MEK)	<0.0026		0.0060	0.0026	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
2-Hexanone	<0.0036		0.0060	0.0036	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0060	0.0043	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Acetone	<0.010		0.024	0.010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Benzene	<0.00075		0.0024	0.00075	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Bromodichloromethane	<0.00077		0.0024	0.00077	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Bromomethane	<0.0030		0.0060	0.0030	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Carbon disulfide	**0.0061**		0.0060	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Carbon tetrachloride	<0.00082		0.0024	0.00082	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Chloroethane	<0.0020		0.0060	0.0020	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Chloroform	<0.0017		0.0024	0.0017	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Chloromethane	<0.0012		0.0060	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
cis-1,2-Dichloroethene	<0.00097		0.0024	0.00097	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
1,3-Dichloropropene, Total	<0.0012		0.0024	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Ethylbenzene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Methyl tert-butyl ether	<0.00077		0.0024	0.00077	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Methylene Chloride	<0.0026		0.0060	0.0026	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Styrene	<0.0011		0.0024	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Tetrachloroethene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Toluene	**0.00055**	**J**	0.0024	0.00048	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Xylenes, Total	<0.00082		0.0048	0.00082	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
trans-1,2-Dichloroethene	<0.00091		0.0024	0.00091	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Trichloroethene	<0.00065		0.0024	0.00065	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1
Vinyl chloride	<0.00098		0.0024	0.00098	mg/Kg	☼	09/05/24 18:07	09/12/24 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/05/24 18:07*	*09/12/24 03:20*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*09/05/24 18:07*	*09/12/24 03:20*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*09/05/24 18:07*	*09/12/24 03:20*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*09/05/24 18:07*	*09/12/24 03:20*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0081		0.039	0.0081	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Acenaphthylene	**0.014**	**J**	0.039	0.0067	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Anthracene	**0.017**	**J**	0.039	0.0081	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Benzo[a]anthracene	**0.075**		0.039	0.0084	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Benzo[a]pyrene	**0.082**		0.039	0.038	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Benzo[b]fluoranthene	**0.14**		0.039	0.038	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Benzo[g,h,i]perylene	**0.086**		0.039	0.0086	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1

Client Sample ID: SB31 (7.5-10)
Lab Sample ID: 500-256166-2
Date Collected: 09/04/24 08:58
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 83.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.050**		0.039	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Chrysene	**0.11**		0.039	0.010	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Fluoranthene	**0.12**		0.039	0.0092	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Fluorene	<0.012		0.039	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Indeno[1,2,3-cd]pyrene	**0.065**		0.039	0.039	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Naphthalene	**0.044**		0.039	0.0072	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Phenanthrene	**0.32**		0.039	0.0086	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Pyrene	**0.11**		0.039	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
1,2,4-Trichlorobenzene	<0.028		0.20	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
1,2-Dichlorobenzene	<0.016		0.20	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
1,3-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
1,4-Dichlorobenzene	<0.019		0.20	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2,4,5-Trichlorophenol	<0.015		0.39	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2,4,6-Trichlorophenol	<0.014		0.39	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2,4-Dichlorophenol	<0.014		0.39	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2,4-Dimethylphenol	<0.089		0.39	0.089	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2,4-Dinitrophenol	<0.23		0.80	0.23	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2,4-Dinitrotoluene	<0.023		0.20	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2,6-Dinitrotoluene	<0.014		0.20	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2-Chloronaphthalene	<0.015		0.20	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2-Chlorophenol	<0.013		0.20	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2-Methylnaphthalene	**0.051**	**J**	0.080	0.0080	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2-Methylphenol	<0.021		0.20	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2-Nitroaniline	<0.021		0.20	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
2-Nitrophenol	<0.027		0.39	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
3,3'-Dichlorobenzidine	<0.032		0.20	0.032	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
3 & 4 Methylphenol	<0.029		0.20	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
3-Nitroaniline	<0.018		0.39	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
4,6-Dinitro-2-methylphenol	<0.22		0.80	0.22	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
4-Bromophenyl phenyl ether	<0.027		0.20	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
4-Chloro-3-methylphenol	<0.015		0.39	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
4-Chloroaniline	<0.42		0.80	0.42	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
4-Chlorophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
4-Nitroaniline	<0.029		0.39	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
4-Nitrophenol	<0.15		0.80	0.15	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Bis(2-chloroethoxy)methane	<0.015		0.20	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Bis(2-chloroethyl)ether	<0.018		0.20	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
bis(chloroisopropyl) ether	<0.028		0.20	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Bis(2-ethylhexyl) phthalate	<0.16		0.20	0.16	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Butyl benzyl phthalate	<0.020		0.20	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Carbazole	<0.016		0.20	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Dibenzofuran	**0.024**	**J**	0.20	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Diethyl phthalate	<0.018		0.20	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Dimethyl phthalate	<0.0086		0.20	0.0086	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Di-n-butyl phthalate	<0.013		0.20	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Di-n-octyl phthalate	<0.28		0.39	0.28	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Hexachlorobenzene	<0.0076		0.080	0.0076	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Hexachlorobutadiene	<0.022		0.20	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB31 (7.5-10)
Lab Sample ID: 500-256166-2
Date Collected: 09/04/24 08:58
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 83.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.42		0.80	0.42	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Hexachloroethane	<0.020		0.20	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Isophorone	<0.020		0.20	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Nitrobenzene	<0.013		0.039	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
N-Nitrosodi-n-propylamine	<0.0078		0.080	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
N-Nitrosodiphenylamine	<0.024		0.20	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Pentachlorophenol	<0.099		0.80	0.099	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1
Phenol	<0.017		0.20	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*55*		*31 - 166*	*09/17/24 07:52*	*09/17/24 13:25*	*1*
Phenol-d5 (Surr)	*60*		*30 - 153*	*09/17/24 07:52*	*09/17/24 13:25*	*1*
Nitrobenzene-d5 (Surr)	*63*		*37 - 147*	*09/17/24 07:52*	*09/17/24 13:25*	*1*
2-Fluorobiphenyl (Surr)	*63*		*43 - 145*	*09/17/24 07:52*	*09/17/24 13:25*	*1*
2,4,6-Tribromophenol (Surr)	*44*		*31 - 143*	*09/17/24 07:52*	*09/17/24 13:25*	*1*
Terphenyl-d14 (Surr)	*72*		*42 - 157*	*09/17/24 07:52*	*09/17/24 13:25*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
4,4'-DDT	<0.0092		0.020	0.0092	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Aldrin	<0.013		0.020	0.013	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
alpha-Chlordane	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Chlordane (technical)	<0.037		0.077	0.037	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
delta-BHC	<0.0093		0.020	0.0093	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Endosulfan I	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Endrin	<0.0099		0.020	0.0099	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Endrin aldehyde	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Endrin ketone	<0.0094		0.020	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
gamma-BHC (Lindane)	<0.0097		0.020	0.0097	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
gamma-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Heptachlor epoxide	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Methoxychlor	<0.013		0.096	0.013	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10
Toxaphene	<0.078		0.19	0.078	mg/Kg	☼	09/12/24 17:52	09/21/24 13:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*138*		*33 - 148*	*09/12/24 17:52*	*09/21/24 13:02*	*10*
Tetrachloro-m-xylene	*119*		*30 - 121*	*09/12/24 17:52*	*09/21/24 13:02*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/12/24 17:52	09/24/24 12:29	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/12/24 17:52	09/24/24 12:29	10

Client Sample ID: SB31 (7.5-10)
Lab Sample ID: 500-256166-2
Date Collected: 09/04/24 08:58
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 83.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/12/24 17:52	09/24/24 12:29	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/12/24 17:52	09/24/24 12:29	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/12/24 17:52	09/24/24 12:29	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/12/24 17:52	09/24/24 12:29	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/12/24 17:52	09/24/24 12:29	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/12/24 17:52	09/24/24 12:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*49 - 129*	*09/12/24 17:52*	*09/24/24 12:29*	*10*
DCB Decachlorobiphenyl	*128*	*S1+*	*37 - 121*	*09/12/24 17:52*	*09/24/24 12:29*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		22		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Antimony	<2.2		2.2		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Arsenic	**2.4**		1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Barium	**290**		1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Beryllium	**2.5**		0.45		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Cadmium	**1.3**		0.22		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Calcium	**45000**		22		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Chromium	**15**		1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Cobalt	**6.5**		0.56		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Copper	**20**		1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Iron	**37000**		22		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Lead	**38**		0.56		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Magnesium	**16000**		11		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Manganese	**1500**		1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Nickel	**22**		1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Potassium	**900**		56		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Selenium	**1.7**		1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Silver	<0.56		0.56		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Sodium	**480**		110		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Thallium	**5.3**		1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Vanadium	**27**		0.56		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1
Zinc	**440**		2.2		mg/Kg	☼	09/17/24 16:18	09/18/24 21:46	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.068**		0.019		mg/Kg	☼	09/19/24 17:20	09/20/24 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.8**		0.26		mg/Kg	☼	09/08/24 11:34	09/09/24 11:47	1
pH (SW846 9045D)	**8.19**		0.20		SU			09/10/24 13:39	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB32 (0-3)
Lab Sample ID: 500-256166-3
Date Collected: 09/04/24 09:47
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 90.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00089		0.0022	0.00089	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
1,1,2-Trichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
1,1-Dichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
1,1-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
1,2-Dichloroethane	<0.0014		0.0055	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
2-Hexanone	<0.0033		0.0055	0.0033	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0055	0.0039	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Acetone	<0.0092		0.022	0.0092	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Benzene	<0.00069		0.0022	0.00069	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Bromodichloromethane	<0.00070		0.0022	0.00070	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Bromomethane	<0.0027		0.0055	0.0027	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Carbon disulfide	**0.0055**		0.0055	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Carbon tetrachloride	<0.00075		0.0022	0.00075	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Chlorobenzene	<0.00093		0.0022	0.00093	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Chloroethane	<0.0018		0.0055	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
cis-1,2-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Methyl tert-butyl ether	<0.00071		0.0022	0.00071	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Methylene Chloride	<0.0023		0.0055	0.0023	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Styrene	<0.00099		0.0022	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Xylenes, Total	<0.00075		0.0044	0.00075	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
trans-1,2-Dichloroethene	<0.00083		0.0022	0.00083	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Trichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1
Vinyl chloride	<0.00090		0.0022	0.00090	mg/Kg	☼	09/05/24 18:07	09/12/24 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*09/05/24 18:07*	*09/12/24 03:45*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 131*	*09/05/24 18:07*	*09/12/24 03:45*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/05/24 18:07*	*09/12/24 03:45*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*09/05/24 18:07*	*09/12/24 03:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.051**		0.036	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Acenaphthylene	**0.024**	**J**	0.036	0.0062	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Anthracene	**0.074**		0.036	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Benzo[a]anthracene	**0.49**		0.036	0.0077	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Benzo[a]pyrene	**0.83**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Benzo[b]fluoranthene	**0.94**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Benzo[g,h,i]perylene	**0.77**		0.036	0.0079	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB32 (0-3)
Lab Sample ID: 500-256166-3
Date Collected: 09/04/24 09:47
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 90.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.43**		0.036	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Chrysene	**0.59**		0.036	0.0096	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Dibenz(a,h)anthracene	**0.15**		0.036	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Fluoranthene	**0.69**		0.036	0.0084	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Fluorene	**0.027**	**J**	0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Indeno[1,2,3-cd]pyrene	**0.69**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Naphthalene	**0.036**		0.036	0.0066	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Phenanthrene	**0.37**		0.036	0.0079	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Pyrene	**0.68**		0.036	0.0099	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2,4-Dimethylphenol	<0.081		0.36	0.081	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2-Methylnaphthalene	**0.048**	**J**	0.073	0.0073	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Carbazole	**0.037**	**J**	0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Dibenzofuran	**0.032**	**J**	0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Dimethyl phthalate	<0.0079		0.18	0.0079	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Hexachlorobenzene	<0.0070		0.073	0.0070	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB32 (0-3)
Lab Sample ID: 500-256166-3
Date Collected: 09/04/24 09:47
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 90.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.73	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
N-Nitrosodi-n-propylamine	<0.0072		0.073	0.0072	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Pentachlorophenol	<0.091		0.73	0.091	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*68*		*31 - 166*	*09/17/24 07:52*	*09/17/24 13:50*	*1*
Phenol-d5 (Surr)	*71*		*30 - 153*	*09/17/24 07:52*	*09/17/24 13:50*	*1*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/17/24 07:52*	*09/17/24 13:50*	*1*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/17/24 07:52*	*09/17/24 13:50*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*31 - 143*	*09/17/24 07:52*	*09/17/24 13:50*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*09/17/24 07:52*	*09/17/24 13:50*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
alpha-BHC	<0.0098		0.018	0.0098	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
alpha-Chlordane	<0.0093		0.018	0.0093	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
delta-BHC	<0.0083		0.018	0.0083	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Endosulfan I	<0.0094		0.018	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Heptachlor	<0.0094		0.018	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Methoxychlor	<0.011		0.086	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/12/24 17:52	09/21/24 13:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*460*	*S1+*	*33 - 148*	*09/12/24 17:52*	*09/21/24 13:14*	*10*
Tetrachloro-m-xylene	*80*		*30 - 121*	*09/12/24 17:52*	*09/21/24 13:14*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/12/24 17:52	09/24/24 12:44	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/12/24 17:52	09/24/24 12:44	10

Client Sample ID: SB32 (0-3)
Lab Sample ID: 500-256166-3
Date Collected: 09/04/24 09:47
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 90.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/12/24 17:52	09/24/24 12:44	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/12/24 17:52	09/24/24 12:44	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/12/24 17:52	09/24/24 12:44	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/12/24 17:52	09/24/24 12:44	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/12/24 17:52	09/24/24 12:44	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/12/24 17:52	09/24/24 12:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*49 - 129*	*09/12/24 17:52*	*09/24/24 12:44*	*10*
DCB Decachlorobiphenyl	*194*	*S1+*	*37 - 121*	*09/12/24 17:52*	*09/24/24 12:44*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		19		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Antimony	<1.9		1.9		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Arsenic	**2.0**		0.97		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Barium	**130**		0.97		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Beryllium	**3.3**		0.39		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Cadmium	**0.28**		0.19		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Calcium	**150000**		97		mg/Kg	☼	09/17/24 16:18	09/19/24 16:45	5
Chromium	**46**		0.97		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Cobalt	**2.6**		0.48		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Copper	**15**		0.97		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Iron	**30000**		19		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Lead	**30**		0.48		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Magnesium	**33000**		9.7		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Manganese	**3100**		4.8		mg/Kg	☼	09/17/24 16:18	09/20/24 12:16	5
Nickel	**13**		0.97		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Potassium	**1000**		48		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Selenium	**2.3**		0.97		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Silver	<2.4		2.4		mg/Kg	☼	09/17/24 16:18	09/19/24 16:45	5
Sodium	**530**		97		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Thallium	<4.8		4.8		mg/Kg	☼	09/17/24 16:18	09/19/24 16:45	5
Vanadium	**25**		0.48		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1
Zinc	**87**		1.9		mg/Kg	☼	09/17/24 16:18	09/18/24 21:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**		0.016		mg/Kg	☼	09/19/24 17:20	09/20/24 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**4.8**		0.26		mg/Kg	☼	09/08/24 11:34	09/09/24 11:49	1
pH (SW846 9045D)	**9.62**		0.20		SU			09/10/24 13:42	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB32 (5-7.5)
Lab Sample ID: 500-256166-4
Date Collected: 09/04/24 10:00
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 87.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
1,1,2,2-Tetrachloroethane	<0.0013	*3	0.0025	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
1,1,2-Trichloroethane	<0.00095		0.0025	0.00095	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
1,1-Dichloroethane	<0.00095		0.0025	0.00095	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
1,2-Dichloroethane	<0.0016		0.0063	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
1,2-Dichloropropane	<0.00065		0.0025	0.00065	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
2-Butanone (MEK)	<0.0028		0.0063	0.0028	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
2-Hexanone	<0.0038		0.0063	0.0038	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0063	0.0045	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Acetone	<0.011		0.025	0.011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Benzene	**0.0010**	**J**	0.0025	0.00080	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Bromodichloromethane	<0.00081		0.0025	0.00081	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Bromoform	<0.0015		0.0025	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Bromomethane	<0.0031		0.0063	0.0031	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Carbon disulfide	**0.0050**	**J**	0.0063	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Carbon tetrachloride	<0.00086		0.0025	0.00086	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Chlorobenzene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Chloroethane	<0.0021		0.0063	0.0021	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Chloromethane	<0.0012		0.0063	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
cis-1,2-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Dibromochloromethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Methyl tert-butyl ether	<0.00082		0.0025	0.00082	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Methylene Chloride	<0.0027		0.0063	0.0027	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Styrene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Toluene	**0.0014**	**J**	0.0025	0.00051	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Xylenes, Total	**0.00088**	**J**	0.0051	0.00087	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
trans-1,2-Dichloroethene	<0.00096		0.0025	0.00096	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Trichloroethene	<0.00069		0.0025	0.00069	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*09/05/24 18:07*	*09/12/24 04:09*	*1*
4-Bromofluorobenzene (Surr)	*143*	*3 S1+	*75 - 131*	*09/05/24 18:07*	*09/12/24 04:09*	*1*
Dibromofluoromethane	*110*		*75 - 126*	*09/05/24 18:07*	*09/12/24 04:09*	*1*
Toluene-d8 (Surr)	*133*	*S1+	*75 - 124*	*09/05/24 18:07*	*09/12/24 04:09*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.043**		0.037	0.0075	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Acenaphthylene	**0.032**	**J**	0.037	0.0063	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Anthracene	**0.23**		0.037	0.0076	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Benzo[a]anthracene	**0.50**		0.037	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Benzo[a]pyrene	**0.44**		0.037	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Benzo[b]fluoranthene	**0.69**		0.037	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Benzo[g,h,i]perylene	**0.31**		0.037	0.0080	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB32 (5-7.5)
Lab Sample ID: 500-256166-4
Date Collected: 09/04/24 10:00
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 87.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.26**		0.037	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Chrysene	**0.50**		0.037	0.0097	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Dibenz(a,h)anthracene	**0.076**		0.037	0.037	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Fluoranthene	**1.3**		0.037	0.0086	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Fluorene	**0.053**		0.037	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Indeno[1,2,3-cd]pyrene	**0.36**		0.037	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Naphthalene	**0.075**		0.037	0.0067	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Phenanthrene	**1.5**		0.037	0.0080	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Pyrene	**1.0**		0.037	0.010	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
1,2,4-Trichlorobenzene	<0.026		0.19	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
1,4-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2,4-Dimethylphenol	<0.083		0.37	0.083	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2,4-Dinitrophenol	<0.21		0.75	0.21	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2,4-Dinitrotoluene	<0.021		0.19	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2-Methylnaphthalene	**0.19**		0.075	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2-Methylphenol	<0.019		0.19	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
3,3'-Dichlorobenzidine	<0.030		0.19	0.030	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
3 & 4 Methylphenol	<0.027		0.19	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
4,6-Dinitro-2-methylphenol	<0.21		0.75	0.21	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
4-Bromophenyl phenyl ether	<0.025		0.19	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
4-Chloro-3-methylphenol	<0.014		0.37	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
4-Chloroaniline	<0.39		0.75	0.39	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
4-Chlorophenyl phenyl ether	<0.048		0.19	0.048	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
4-Nitroaniline	<0.027		0.37	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
4-Nitrophenol	<0.14		0.75	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Bis(2-ethylhexyl) phthalate	<0.14		0.19	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Butyl benzyl phthalate	<0.018		0.19	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Carbazole	**0.087**	**J**	0.19	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Dibenzofuran	**0.065**	**J**	0.19	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Dimethyl phthalate	<0.0080		0.19	0.0080	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Hexachlorobenzene	<0.0071		0.075	0.0071	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB32 (5-7.5)
Lab Sample ID: 500-256166-4
Date Collected: 09/04/24 10:00
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 87.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.75	0.39	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Hexachloroethane	<0.018		0.19	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Isophorone	<0.019		0.19	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
N-Nitrosodi-n-propylamine	<0.0073		0.075	0.0073	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Pentachlorophenol	<0.092		0.75	0.092	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1
Phenol	<0.016		0.19	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*48*		*31 - 166*	*09/17/24 07:52*	*09/17/24 15:02*	*1*
Phenol-d5 (Surr)	*54*		*30 - 153*	*09/17/24 07:52*	*09/17/24 15:02*	*1*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*09/17/24 07:52*	*09/17/24 15:02*	*1*
2-Fluorobiphenyl (Surr)	*59*		*43 - 145*	*09/17/24 07:52*	*09/17/24 15:02*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*31 - 143*	*09/17/24 07:52*	*09/17/24 15:02*	*1*
Terphenyl-d14 (Surr)	*59*		*42 - 157*	*09/17/24 07:52*	*09/17/24 15:02*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0099		0.019	0.0099	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
4,4'-DDE	<0.0095		0.019	0.0095	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Endrin	<0.0094		0.019	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/12/24 17:52	09/21/24 13:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*464*	*S1+*	*33 - 148*	*09/12/24 17:52*	*09/21/24 13:26*	*10*
Tetrachloro-m-xylene	*72*		*30 - 121*	*09/12/24 17:52*	*09/21/24 13:26*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 17:18	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 17:18	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Client Sample ID: SB32 (5-7.5)

Date Collected: 09/04/24 10:00
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-4

Matrix: Solid
Percent Solids: 87.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 17:18	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 17:18	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 17:18	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 17:18	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 17:18	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*49 - 129*	*09/12/24 17:52*	*09/19/24 17:18*	*1*
DCB Decachlorobiphenyl	*113*		*37 - 121*	*09/12/24 17:52*	*09/19/24 17:18*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		23		mg/Kg	☼	09/17/24 16:18	09/18/24 21:55	1
Antimony	<2.3		2.3		mg/Kg	☼	09/17/24 16:18	09/18/24 21:55	1
Arsenic	**9.0**		5.7		mg/Kg	☼	09/17/24 16:18	09/19/24 16:50	5
Barium	**240**		5.7		mg/Kg	☼	09/17/24 16:18	09/19/24 16:50	5
Beryllium	**2.8**		2.3		mg/Kg	☼	09/17/24 16:18	09/19/24 16:50	5
Cadmium	<1.1		1.1		mg/Kg	☼	09/17/24 16:18	09/19/24 16:50	5
Calcium	**58000**		23		mg/Kg	☼	09/17/24 16:18	09/18/24 21:55	1
Chromium	**32**		1.1		mg/Kg	☼	09/17/24 16:18	09/18/24 21:55	1
Cobalt	**7.7**		0.57		mg/Kg	☼	09/17/24 16:18	09/18/24 21:55	1
Copper	**60**		5.7		mg/Kg	☼	09/17/24 16:18	09/19/24 16:50	5
Iron	**85000**		110		mg/Kg	☼	09/17/24 16:18	09/19/24 16:50	5
Lead	**53**		2.8		mg/Kg	☼	09/17/24 16:18	09/19/24 16:50	5
Magnesium	**5100**		11		mg/Kg	☼	09/17/24 16:18	09/18/24 21:55	1
Manganese	**9800**		5.7		mg/Kg	☼	09/17/24 16:18	09/20/24 12:21	5
Nickel	**19**		5.7		mg/Kg	☼	09/17/24 16:18	09/19/24 16:50	5
Potassium	**1100**		57		mg/Kg	☼	09/17/24 16:18	09/18/24 21:55	1
Selenium	<5.7		5.7		mg/Kg	☼	09/17/24 16:18	09/19/24 16:50	5
Silver	<2.8		2.8		mg/Kg	☼	09/17/24 16:18	09/19/24 16:50	5
Sodium	**690**		110		mg/Kg	☼	09/17/24 16:18	09/18/24 21:55	1
Thallium	<5.7		5.7		mg/Kg	☼	09/17/24 16:18	09/19/24 16:50	5
Vanadium	**39**		2.8		mg/Kg	☼	09/17/24 16:18	09/19/24 16:50	5
Zinc	**150**		2.3		mg/Kg	☼	09/17/24 16:18	09/18/24 21:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.092**		0.018		mg/Kg	☼	09/19/24 17:20	09/20/24 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**14**		2.4		mg/Kg	☼	09/08/24 11:34	09/17/24 11:01	10
pH (SW846 9045D)	**8.30**		0.20		SU			09/10/24 13:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB33 (0-3)
Lab Sample ID: 500-256166-5
Date Collected: 09/04/24 10:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00071		0.0018	0.00071	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
1,1,2,2-Tetrachloroethane	<0.00088		0.0018	0.00088	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
1,1,2-Trichloroethane	<0.00066		0.0018	0.00066	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
1,1-Dichloroethane	<0.00066		0.0018	0.00066	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
1,1-Dichloroethene	<0.00073		0.0018	0.00073	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
1,2-Dichloroethane	<0.0011		0.0044	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
2-Butanone (MEK)	**0.0077**		0.0044	0.0019	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
2-Hexanone	<0.0027		0.0044	0.0027	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
4-Methyl-2-pentanone (MIBK)	<0.0031		0.0044	0.0031	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Acetone	**0.032**		0.018	0.0074	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Benzene	**0.00067**	**J**	0.0018	0.00056	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Bromodichloromethane	<0.00057		0.0018	0.00057	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Bromoform	<0.0010		0.0018	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Bromomethane	<0.0022		0.0044	0.0022	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Carbon disulfide	**0.011**		0.0044	0.00081	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Carbon tetrachloride	<0.00060		0.0018	0.00060	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Chlorobenzene	<0.00075		0.0018	0.00075	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Chloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Chloroform	<0.0013		0.0018	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Chloromethane	<0.00086		0.0044	0.00086	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
cis-1,2-Dichloroethene	<0.00071		0.0018	0.00071	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
1,3-Dichloropropene, Total	<0.00085		0.0018	0.00085	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Dibromochloromethane	<0.00082		0.0018	0.00082	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Ethylbenzene	<0.00093		0.0018	0.00093	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Methyl tert-butyl ether	<0.00057		0.0018	0.00057	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Methylene Chloride	<0.0019		0.0044	0.0019	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Styrene	<0.00079		0.0018	0.00079	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Tetrachloroethene	<0.00099		0.0018	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Toluene	**0.00093**	**J**	0.0018	0.00036	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Xylenes, Total	**0.00082**	**J**	0.0035	0.00061	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
trans-1,2-Dichloroethene	<0.00067		0.0018	0.00067	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Trichloroethene	<0.00048		0.0018	0.00048	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1
Vinyl chloride	<0.00072		0.0018	0.00072	mg/Kg	☼	09/05/24 18:07	09/12/24 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/05/24 18:07*	*09/12/24 04:34*	*1*
4-Bromofluorobenzene (Surr)	*130*		*75 - 131*	*09/05/24 18:07*	*09/12/24 04:34*	*1*
Dibromofluoromethane	*80*		*75 - 126*	*09/05/24 18:07*	*09/12/24 04:34*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*09/05/24 18:07*	*09/12/24 04:34*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.024**	**J**	0.036	0.0073	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Acenaphthylene	**0.029**	**J**	0.036	0.0061	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Anthracene	**0.060**		0.036	0.0073	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Benzo[a]anthracene	**0.50**		0.036	0.0076	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Benzo[a]pyrene	**1.1**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Benzo[b]fluoranthene	**1.5**		0.036	0.034	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Benzo[g,h,i]perylene	**1.2**		0.036	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB33 (0-3)
Lab Sample ID: 500-256166-5
Date Collected: 09/04/24 10:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.54**		0.036	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Chrysene	**0.65**		0.036	0.0095	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Dibenz(a,h)anthracene	**0.24**		0.036	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Fluoranthene	**0.66**		0.036	0.0083	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Fluorene	**0.015**	**J**	0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Indeno[1,2,3-cd]pyrene	**1.1**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Naphthalene	**0.050**		0.036	0.0065	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Phenanthrene	**0.34**		0.036	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Pyrene	**0.62**		0.036	0.0098	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2,4-Dimethylphenol	<0.080		0.36	0.080	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2,4-Dinitrophenol	<0.21		0.72	0.21	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2-Methylnaphthalene	**0.026**	**J**	0.072	0.0072	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
2-Nitrophenol	<0.024		0.36	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
3-Nitroaniline	<0.016		0.36	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
4,6-Dinitro-2-methylphenol	<0.20		0.72	0.20	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
4-Chloroaniline	<0.38		0.72	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
4-Nitroaniline	<0.026		0.36	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
4-Nitrophenol	<0.13		0.72	0.13	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Carbazole	**0.028**	**J**	0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Dibenzofuran	**0.033**	**J**	0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Dimethyl phthalate	<0.0078		0.18	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Hexachlorobenzene	<0.0069		0.072	0.0069	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1

Client Sample ID: SB33 (0-3)
Date Collected: 09/04/24 10:42
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-5
Matrix: Solid
Percent Solids: 92.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.72	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
N-Nitrosodi-n-propylamine	<0.0071		0.072	0.0071	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Pentachlorophenol	<0.090		0.72	0.090	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1
Phenol	**0.044**	**J**	0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*44*		*31 - 166*	*09/17/24 07:52*	*09/17/24 15:27*	*1*
Phenol-d5 (Surr)	*61*		*30 - 153*	*09/17/24 07:52*	*09/17/24 15:27*	*1*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*09/17/24 07:52*	*09/17/24 15:27*	*1*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*09/17/24 07:52*	*09/17/24 15:27*	*1*
2,4,6-Tribromophenol (Surr)	*5*	*S1-*	*31 - 143*	*09/17/24 07:52*	*09/17/24 15:27*	*1*
Terphenyl-d14 (Surr)	*76*		*42 - 157*	*09/17/24 07:52*	*09/17/24 15:27*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Methoxychlor	<0.012		0.086	0.012	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/12/24 17:52	09/21/24 13:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*236*	*S1+*	*33 - 148*	*09/12/24 17:52*	*09/21/24 13:37*	*10*
Tetrachloro-m-xylene	*116*		*30 - 121*	*09/12/24 17:52*	*09/21/24 13:37*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 17:33	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 17:33	1

Client Sample ID: SB33 (0-3)
Lab Sample ID: 500-256166-5

Date Collected: 09/04/24 10:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 17:33	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 17:33	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 17:33	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 17:33	1
PCB-1260	**0.30**		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 17:33	1
Polychlorinated biphenyls, Total	**0.30**		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/12/24 17:52*	*09/19/24 17:33*	*1*
DCB Decachlorobiphenyl	*63*		*37 - 121*	*09/12/24 17:52*	*09/19/24 17:33*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		20		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Antimony	<2.0		2.0		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Arsenic	**3.3**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Barium	**180**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Beryllium	**2.8**		0.41		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Cadmium	**0.80**		0.20		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Calcium	**180000**		100		mg/Kg	☼	09/17/24 16:18	09/19/24 16:54	5
Chromium	**570**		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 16:54	5
Cobalt	**4.5**		0.51		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Copper	**53**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Iron	**47000**		20		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Lead	**94**		0.51		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Magnesium	**31000**		10		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Manganese	**10000**		5.1		mg/Kg	☼	09/17/24 16:18	09/20/24 12:25	5
Nickel	**86**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Potassium	**830**		51		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Selenium	**5.1**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Silver	<2.5		2.5		mg/Kg	☼	09/17/24 16:18	09/19/24 16:54	5
Sodium	**460**		100		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Thallium	<5.1		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 16:54	5
Vanadium	**120**		0.51		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1
Zinc	**210**		2.0		mg/Kg	☼	09/17/24 16:18	09/18/24 22:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.089**		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.0**		0.25		mg/Kg	☼	09/08/24 11:34	09/09/24 11:56	1
pH (SW846 9045D)	**11.25**		0.20		SU			09/10/24 13:49	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB33 (5-7.5)
Lab Sample ID: 500-256166-6
Date Collected: 09/04/24 10:57
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 83.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.0015**	**J**	0.0028	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0028	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
1,1,2-Trichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
1,1-Dichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
1,1-Dichloroethene	<0.0012		0.0028	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
1,2-Dichloroethane	<0.0018		0.0071	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
1,2-Dichloropropane	<0.00073		0.0028	0.00073	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
2-Butanone (MEK)	**0.0046**	**J**	0.0071	0.0031	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
2-Hexanone	<0.0043		0.0071	0.0043	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0071	0.0050	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Acetone	**0.019**	**J**	0.028	0.012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Benzene	<0.00089		0.0028	0.00089	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Bromodichloromethane	<0.00091		0.0028	0.00091	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Bromoform	<0.0016		0.0028	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Bromomethane	<0.0035		0.0071	0.0035	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Carbon disulfide	**0.0051**	**J**	0.0071	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Carbon tetrachloride	<0.00096		0.0028	0.00096	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Chlorobenzene	<0.0012		0.0028	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Chloroethane	<0.0023		0.0071	0.0023	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Chloroform	<0.0020		0.0028	0.0020	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Chloromethane	<0.0014		0.0071	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
cis-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
1,3-Dichloropropene, Total	<0.0014		0.0028	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Dibromochloromethane	<0.0013		0.0028	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Ethylbenzene	<0.0015		0.0028	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Methyl tert-butyl ether	<0.00091		0.0028	0.00091	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Methylene Chloride	<0.0030		0.0071	0.0030	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Styrene	<0.0013		0.0028	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Tetrachloroethene	<0.0016		0.0028	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Toluene	**0.0011**	**J**	0.0028	0.00057	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Xylenes, Total	<0.00097		0.0057	0.00097	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
trans-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Trichloroethene	<0.00077		0.0028	0.00077	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1
Vinyl chloride	<0.0012		0.0028	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/05/24 18:07*	*09/12/24 04:59*	*1*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*75 - 131*	*09/05/24 18:07*	*09/12/24 04:59*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*09/05/24 18:07*	*09/12/24 04:59*	*1*
Toluene-d8 (Surr)	*119*		*75 - 124*	*09/05/24 18:07*	*09/12/24 04:59*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0081		0.039	0.0081	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Acenaphthylene	**0.015**	**J**	0.039	0.0067	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Anthracene	**0.022**	**J**	0.039	0.0081	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Benzo[a]anthracene	**0.10**		0.039	0.0084	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Benzo[a]pyrene	**0.11**		0.039	0.038	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Benzo[b]fluoranthene	**0.19**		0.039	0.038	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Benzo[g,h,i]perylene	**0.16**		0.039	0.0086	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1

Client Sample ID: SB33 (5-7.5)
Date Collected: 09/04/24 10:57
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-6
Matrix: Solid
Percent Solids: 83.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.056**		0.039	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Chrysene	**0.13**		0.039	0.010	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Fluoranthene	**0.17**		0.039	0.0092	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Fluorene	<0.012		0.039	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Indeno[1,2,3-cd]pyrene	**0.11**		0.039	0.039	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Naphthalene	**0.046**		0.039	0.0072	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Phenanthrene	**0.30**		0.039	0.0086	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Pyrene	**0.14**		0.039	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
1,2,4-Trichlorobenzene	<0.028		0.20	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
1,2-Dichlorobenzene	<0.016		0.20	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
1,3-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
1,4-Dichlorobenzene	<0.019		0.20	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2,4,5-Trichlorophenol	<0.015		0.39	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2,4,6-Trichlorophenol	<0.014		0.39	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2,4-Dichlorophenol	<0.014		0.39	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2,4-Dimethylphenol	<0.089		0.39	0.089	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2,4-Dinitrophenol	<0.23		0.80	0.23	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2,4-Dinitrotoluene	<0.023		0.20	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2,6-Dinitrotoluene	<0.014		0.20	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2-Chloronaphthalene	<0.015		0.20	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2-Chlorophenol	<0.013		0.20	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2-Methylnaphthalene	**0.054**	**J**	0.080	0.0080	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2-Methylphenol	<0.021		0.20	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2-Nitroaniline	<0.021		0.20	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
2-Nitrophenol	<0.027		0.39	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
3,3'-Dichlorobenzidine	<0.032		0.20	0.032	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
3 & 4 Methylphenol	<0.029		0.20	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
3-Nitroaniline	<0.018		0.39	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
4,6-Dinitro-2-methylphenol	<0.22		0.80	0.22	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
4-Bromophenyl phenyl ether	<0.027		0.20	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
4-Chloro-3-methylphenol	<0.015		0.39	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
4-Chloroaniline	<0.42		0.80	0.42	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
4-Chlorophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
4-Nitroaniline	<0.029		0.39	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
4-Nitrophenol	<0.15		0.80	0.15	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Bis(2-chloroethoxy)methane	<0.015		0.20	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Bis(2-chloroethyl)ether	<0.018		0.20	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
bis(chloroisopropyl) ether	<0.028		0.20	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Bis(2-ethylhexyl) phthalate	<0.16		0.20	0.16	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Butyl benzyl phthalate	<0.020		0.20	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Carbazole	<0.016		0.20	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Dibenzofuran	**0.026**	**J**	0.20	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Diethyl phthalate	<0.018		0.20	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Dimethyl phthalate	<0.0086		0.20	0.0086	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Di-n-butyl phthalate	<0.013		0.20	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Di-n-octyl phthalate	<0.28		0.39	0.28	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Hexachlorobenzene	<0.0076		0.080	0.0076	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Hexachlorobutadiene	<0.022		0.20	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB33 (5-7.5)
Lab Sample ID: 500-256166-6
Date Collected: 09/04/24 10:57
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 83.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.42		0.80	0.42	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Hexachloroethane	<0.020		0.20	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Isophorone	<0.020		0.20	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Nitrobenzene	<0.013		0.039	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
N-Nitrosodi-n-propylamine	<0.0078		0.080	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
N-Nitrosodiphenylamine	<0.024		0.20	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Pentachlorophenol	<0.099		0.80	0.099	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1
Phenol	<0.017		0.20	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*68*		*31 - 166*	*09/17/24 07:52*	*09/17/24 15:51*	*1*
Phenol-d5 (Surr)	*71*		*30 - 153*	*09/17/24 07:52*	*09/17/24 15:51*	*1*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*09/17/24 07:52*	*09/17/24 15:51*	*1*
2-Fluorobiphenyl (Surr)	*73*		*43 - 145*	*09/17/24 07:52*	*09/17/24 15:51*	*1*
2,4,6-Tribromophenol (Surr)	*46*		*31 - 143*	*09/17/24 07:52*	*09/17/24 15:51*	*1*
Terphenyl-d14 (Surr)	*75*		*42 - 157*	*09/17/24 07:52*	*09/17/24 15:51*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
4,4'-DDT	<0.0094		0.020	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
alpha-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Chlordane (technical)	<0.038		0.079	0.038	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
delta-BHC	<0.0095		0.020	0.0095	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Endrin	<0.010		0.020	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Endrin aldehyde	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Endrin ketone	<0.0096		0.020	0.0096	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
gamma-BHC (Lindane)	<0.0099		0.020	0.0099	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
gamma-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Heptachlor epoxide	<0.011		0.020	0.011	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Methoxychlor	<0.013		0.097	0.013	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10
Toxaphene	<0.079		0.20	0.079	mg/Kg	☼	09/12/24 17:52	09/21/24 13:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*33 - 148*	*09/12/24 17:52*	*09/21/24 13:49*	*10*
Tetrachloro-m-xylene	*76*		*30 - 121*	*09/12/24 17:52*	*09/21/24 13:49*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.020		0.020		mg/Kg	☼	09/12/24 17:52	09/19/24 17:47	1
PCB-1221	<0.020		0.020		mg/Kg	☼	09/12/24 17:52	09/19/24 17:47	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Client Sample ID: SB33 (5-7.5)

Date Collected: 09/04/24 10:57
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-6

Matrix: Solid
Percent Solids: 83.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.020		0.020		mg/Kg	☼	09/12/24 17:52	09/19/24 17:47	1
PCB-1242	<0.020		0.020		mg/Kg	☼	09/12/24 17:52	09/19/24 17:47	1
PCB-1248	<0.020		0.020		mg/Kg	☼	09/12/24 17:52	09/19/24 17:47	1
PCB-1254	<0.020		0.020		mg/Kg	☼	09/12/24 17:52	09/19/24 17:47	1
PCB-1260	<0.020		0.020		mg/Kg	☼	09/12/24 17:52	09/19/24 17:47	1
Polychlorinated biphenyls, Total	<0.020		0.020		mg/Kg	☼	09/12/24 17:52	09/19/24 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*49 - 129*	*09/12/24 17:52*	*09/19/24 17:47*	*1*
DCB Decachlorobiphenyl	*9*	*S1-*	*37 - 121*	*09/12/24 17:52*	*09/19/24 17:47*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		21		mg/Kg	☼	09/17/24 16:18	09/18/24 22:13	1
Antimony	<2.1		2.1		mg/Kg	☼	09/17/24 16:18	09/18/24 22:13	1
Arsenic	**8.8**		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Barium	**130**		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Beryllium	**2.1**		2.1		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Cadmium	<1.0		1.0		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Calcium	**110000**		100		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Chromium	**460**		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Cobalt	**7.4**		0.52		mg/Kg	☼	09/17/24 16:18	09/18/24 22:13	1
Copper	**31**		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Iron	**79000**		100		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Lead	**21**		2.6		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Magnesium	**18000**		10		mg/Kg	☼	09/17/24 16:18	09/18/24 22:13	1
Manganese	**19000**		5.2		mg/Kg	☼	09/17/24 16:18	09/20/24 12:29	5
Nickel	**19**		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Potassium	**430**		52		mg/Kg	☼	09/17/24 16:18	09/18/24 22:13	1
Selenium	**8.6**		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Silver	<2.6		2.6		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Sodium	**470**		100		mg/Kg	☼	09/17/24 16:18	09/18/24 22:13	1
Thallium	<5.2		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Vanadium	**210**		2.6		mg/Kg	☼	09/17/24 16:18	09/19/24 16:59	5
Zinc	**100**		2.1		mg/Kg	☼	09/17/24 16:18	09/18/24 22:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.061**		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.4**		0.25		mg/Kg	☼	09/08/24 11:34	09/09/24 11:58	1
pH (SW846 9045D)	**9.98**		0.20		SU			09/10/24 13:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB34 (0-3)
Lab Sample ID: 500-256166-7
Date Collected: 09/04/24 11:49
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.0061**		0.0017	0.00070	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
1,1,2,2-Tetrachloroethane	<0.00086		0.0017	0.00086	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
1,1,2-Trichloroethane	<0.00065		0.0017	0.00065	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
1,1-Dichloroethane	<0.00066		0.0017	0.00066	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
1,1-Dichloroethene	<0.00072		0.0017	0.00072	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
1,2-Dichloroethane	<0.0011		0.0043	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
2-Hexanone	<0.0026		0.0043	0.0026	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
4-Methyl-2-pentanone (MIBK)	<0.0031		0.0043	0.0031	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Acetone	**0.0074**	**J**	0.017	0.0073	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Benzene	<0.00055		0.0017	0.00055	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Bromodichloromethane	<0.00056		0.0017	0.00056	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Bromoform	<0.0010		0.0017	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Bromomethane	<0.0021		0.0043	0.0021	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Carbon disulfide	**0.0031**	**J**	0.0043	0.00080	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Carbon tetrachloride	<0.00059		0.0017	0.00059	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Chlorobenzene	<0.00073		0.0017	0.00073	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Chloroethane	<0.0014		0.0043	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Chloroform	<0.0012		0.0017	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Chloromethane	<0.00084		0.0043	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
cis-1,2-Dichloroethene	<0.00070		0.0017	0.00070	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
1,3-Dichloropropene, Total	<0.00083		0.0017	0.00083	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Dibromochloromethane	<0.00081		0.0017	0.00081	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Ethylbenzene	<0.00091		0.0017	0.00091	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Methyl tert-butyl ether	<0.00056		0.0017	0.00056	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Methylene Chloride	<0.0019		0.0043	0.0019	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Styrene	<0.00078		0.0017	0.00078	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Tetrachloroethene	**0.0062**		0.0017	0.00098	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Toluene	<0.00035		0.0017	0.00035	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Xylenes, Total	<0.00060		0.0035	0.00060	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
trans-1,2-Dichloroethene	<0.00066		0.0017	0.00066	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Trichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1
Vinyl chloride	<0.00071		0.0017	0.00071	mg/Kg	☼	09/05/24 18:07	09/12/24 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*09/05/24 18:07*	*09/12/24 05:24*	*1*
4-Bromofluorobenzene (Surr)	*121*		*75 - 131*	*09/05/24 18:07*	*09/12/24 05:24*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*09/05/24 18:07*	*09/12/24 05:24*	*1*
Toluene-d8 (Surr)	*112*		*75 - 124*	*09/05/24 18:07*	*09/12/24 05:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.083**		0.037	0.0076	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Acenaphthylene	**0.039**		0.037	0.0063	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Anthracene	**0.39**		0.037	0.0076	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Benzo[a]anthracene	**0.97**		0.037	0.0079	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Benzo[a]pyrene	**0.89**		0.037	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Benzo[b]fluoranthene	**1.4**		0.037	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Benzo[g,h,i]perylene	**0.58**		0.037	0.0081	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB34 (0-3)
Lab Sample ID: 500-256166-7
Date Collected: 09/04/24 11:49
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.47**		0.037	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Chrysene	**1.0**		0.037	0.0098	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Dibenz(a,h)anthracene	**0.15**		0.037	0.037	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Fluoranthene	**2.1**		0.037	0.0087	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Fluorene	**0.089**		0.037	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Indeno[1,2,3-cd]pyrene	**0.62**		0.037	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Naphthalene	**0.10**		0.037	0.0067	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Phenanthrene	**1.4**		0.037	0.0081	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Pyrene	**1.8**		0.037	0.010	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2,4-Dimethylphenol	<0.084		0.37	0.084	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2,4-Dinitrophenol	<0.22		0.75	0.22	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2,4-Dinitrotoluene	<0.021		0.19	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2-Methylnaphthalene	**0.092**		0.075	0.0075	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
3,3'-Dichlorobenzidine	<0.030		0.19	0.030	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
3 & 4 Methylphenol	<0.027		0.19	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
4,6-Dinitro-2-methylphenol	<0.21		0.75	0.21	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
4-Chloro-3-methylphenol	<0.015		0.37	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
4-Chloroaniline	<0.39		0.75	0.39	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
4-Chlorophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
4-Nitroaniline	<0.028		0.37	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
4-Nitrophenol	<0.14		0.75	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Butyl benzyl phthalate	**0.031**	**J**	0.19	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Carbazole	**0.050**	**J**	0.19	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Dibenzofuran	**0.091**	**J**	0.19	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Dimethyl phthalate	**0.022**	**J**	0.19	0.0081	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Hexachlorobenzene	<0.0071		0.075	0.0071	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1

Client Sample ID: SB34 (0-3)
Lab Sample ID: 500-256166-7
Date Collected: 09/04/24 11:49
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.40		0.75	0.40	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Isophorone	<0.019		0.19	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
N-Nitrosodi-n-propylamine	<0.0074		0.075	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Pentachlorophenol	<0.093		0.75	0.093	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1
Phenol	<0.016		0.19	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*71*		*31 - 166*	*09/17/24 07:52*	*09/17/24 16:15*	*1*
Phenol-d5 (Surr)	*69*		*30 - 153*	*09/17/24 07:52*	*09/17/24 16:15*	*1*
Nitrobenzene-d5 (Surr)	*82*		*37 - 147*	*09/17/24 07:52*	*09/17/24 16:15*	*1*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*	*09/17/24 07:52*	*09/17/24 16:15*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*31 - 143*	*09/17/24 07:52*	*09/17/24 16:15*	*1*
Terphenyl-d14 (Surr)	*69*		*42 - 157*	*09/17/24 07:52*	*09/17/24 16:15*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0096		0.018	0.0096	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
4,4'-DDE	<0.0092		0.018	0.0092	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
4,4'-DDT	<0.0085		0.018	0.0085	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
alpha-Chlordane	<0.0096		0.018	0.0096	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
delta-BHC	<0.0086		0.018	0.0086	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Dieldrin	<0.0094		0.018	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Endosulfan I	<0.0097		0.018	0.0097	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Endosulfan II	<0.0098		0.018	0.0098	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Endosulfan sulfate	<0.0099		0.018	0.0099	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Endrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Endrin ketone	<0.0087		0.018	0.0087	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
gamma-BHC (Lindane)	<0.0089		0.018	0.0089	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Heptachlor	<0.0097		0.018	0.0097	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Heptachlor epoxide	<0.0097		0.018	0.0097	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Methoxychlor	<0.012		0.088	0.012	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/12/24 17:52	09/21/24 14:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*319*	*S1+*	*33 - 148*	*09/12/24 17:52*	*09/21/24 14:01*	*10*
Tetrachloro-m-xylene	*72*		*30 - 121*	*09/12/24 17:52*	*09/21/24 14:01*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:02	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:02	1

Client Sample ID: SB34 (0-3)
Lab Sample ID: 500-256166-7
Date Collected: 09/04/24 11:49
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:02	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:02	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:02	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:02	1
PCB-1260	**0.21**		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:02	1
Polychlorinated biphenyls, Total	**0.21**		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*49 - 129*	*09/12/24 17:52*	*09/19/24 18:02*	*1*
DCB Decachlorobiphenyl	*105*		*37 - 121*	*09/12/24 17:52*	*09/19/24 18:02*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		19		mg/Kg	☼	09/17/24 16:18	09/18/24 22:18	1
Antimony	<1.9		1.9		mg/Kg	☼	09/17/24 16:18	09/18/24 22:18	1
Arsenic	**17**		4.7		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Barium	**180**		4.7		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Beryllium	<1.9		1.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Cadmium	**1.3**		0.94		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Calcium	**110000**		94		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Chromium	**450**		4.7		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Cobalt	**8.2**		0.47		mg/Kg	☼	09/17/24 16:18	09/18/24 22:18	1
Copper	**51**		4.7		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Iron	**140000**		94		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Lead	**88**		2.4		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Magnesium	**24000**		9.4		mg/Kg	☼	09/17/24 16:18	09/18/24 22:18	1
Manganese	**14000**		4.7		mg/Kg	☼	09/17/24 16:18	09/20/24 12:34	5
Nickel	**93**		4.7		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Potassium	**590**		47		mg/Kg	☼	09/17/24 16:18	09/18/24 22:18	1
Selenium	**5.7**		4.7		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Silver	<2.4		2.4		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Sodium	**350**		94		mg/Kg	☼	09/17/24 16:18	09/18/24 22:18	1
Thallium	<4.7		4.7		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Vanadium	**160**		2.4		mg/Kg	☼	09/17/24 16:18	09/19/24 17:03	5
Zinc	**240**		1.9		mg/Kg	☼	09/17/24 16:18	09/18/24 22:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.018		mg/Kg	☼	09/19/24 17:20	09/20/24 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**4.1**		0.26		mg/Kg	☼	09/08/24 11:34	09/09/24 12:00	1
pH (SW846 9045D)	**9.33**		0.20		SU			09/10/24 13:56	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB34 (5-7.5)
Lab Sample ID: 500-256166-8
Date Collected: 09/04/24 12:08
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.15**		0.064	0.029	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
1,1,2,2-Tetrachloroethane	<0.042		0.064	0.042	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
1,1,2-Trichloroethane	<0.047		0.064	0.047	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
1,1-Dichloroethane	<0.023		0.064	0.023	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
1,1-Dichloroethene	<0.031		0.064	0.031	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
1,2-Dichloroethane	<0.037		0.064	0.037	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
1,2-Dichloropropane	<0.024		0.064	0.024	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
2-Butanone (MEK)	<0.20		0.32	0.20	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
2-Hexanone	<0.19		0.32	0.19	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
4-Methyl-2-pentanone (MIBK)	<0.17		0.32	0.17	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Acetone	<0.47		0.64	0.47	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Benzene	<0.0079		0.016	0.0079	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Bromodichloromethane	<0.037		0.064	0.037	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Bromoform	<0.062		0.064	0.062	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Bromomethane	<0.12		0.19	0.12	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Carbon disulfide	<0.069		0.13	0.069	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Carbon tetrachloride	<0.027		0.064	0.027	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Chlorobenzene	<0.026		0.064	0.026	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Chloroethane	<0.030		0.32	0.030	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Chloroform	<0.059		0.13	0.059	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Chloromethane	<0.051		0.32	0.051	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
cis-1,2-Dichloroethene	<0.027		0.064	0.027	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
1,3-Dichloropropene, Total	<0.041		0.064	0.041	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Dibromochloromethane	<0.053		0.064	0.053	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Ethylbenzene	**0.024**		0.016	0.011	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Methyl tert-butyl ether	<0.028		0.064	0.028	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Methylene Chloride	<0.14		0.32	0.14	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Styrene	<0.020		0.064	0.020	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Tetrachloroethene	**0.12**		0.064	0.025	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Toluene	**0.023**		0.016	0.014	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Xylenes, Total	**0.055**		0.032	0.015	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
trans-1,2-Dichloroethene	<0.028		0.064	0.028	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Trichloroethene	<0.0095		0.032	0.0095	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50
Vinyl chloride	<0.030		0.064	0.030	mg/Kg	☼	09/04/24 12:08	09/13/24 19:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*09/04/24 12:08*	*09/13/24 19:46*	*50*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*09/04/24 12:08*	*09/13/24 19:46*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*09/04/24 12:08*	*09/13/24 19:46*	*50*
Toluene-d8 (Surr)	*86*		*75 - 120*	*09/04/24 12:08*	*09/13/24 19:46*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.036	0.0073	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Acenaphthylene	**0.036**		0.036	0.0061	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Anthracene	**0.047**		0.036	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Benzo[a]anthracene	**0.31**		0.036	0.0076	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Benzo[a]pyrene	**0.33**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Benzo[b]fluoranthene	**0.60**		0.036	0.034	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Benzo[g,h,i]perylene	**0.29**		0.036	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB34 (5-7.5)
Lab Sample ID: 500-256166-8
Date Collected: 09/04/24 12:08
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.18**		0.036	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Chrysene	**0.39**		0.036	0.0095	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Dibenz(a,h)anthracene	**0.091**		0.036	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Fluoranthene	**0.58**		0.036	0.0084	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Fluorene	**0.011**	**J**	0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Indeno[1,2,3-cd]pyrene	**0.30**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Naphthalene	**0.058**		0.036	0.0065	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Phenanthrene	**0.31**		0.036	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Pyrene	**0.47**		0.036	0.0098	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2,4-Dimethylphenol	<0.081		0.36	0.081	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2-Methylnaphthalene	**0.065**	**J**	0.073	0.0072	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
2-Nitrophenol	<0.024		0.36	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
3-Nitroaniline	<0.016		0.36	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Carbazole	**0.023**	**J**	0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Dibenzofuran	**0.021**	**J**	0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Dimethyl phthalate	<0.0078		0.18	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Hexachlorobenzene	<0.0069		0.073	0.0069	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB34 (5-7.5)
Lab Sample ID: 500-256166-8
Date Collected: 09/04/24 12:08
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.73	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
N-Nitrosodi-n-propylamine	<0.0071		0.073	0.0071	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Pentachlorophenol	<0.090		0.73	0.090	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*80*		*31 - 166*	*09/17/24 07:52*	*09/17/24 16:40*	*1*
Phenol-d5 (Surr)	*80*		*30 - 153*	*09/17/24 07:52*	*09/17/24 16:40*	*1*
Nitrobenzene-d5 (Surr)	*84*		*37 - 147*	*09/17/24 07:52*	*09/17/24 16:40*	*1*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*09/17/24 07:52*	*09/17/24 16:40*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*31 - 143*	*09/17/24 07:52*	*09/17/24 16:40*	*1*
Terphenyl-d14 (Surr)	*84*		*42 - 157*	*09/17/24 07:52*	*09/17/24 16:40*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/12/24 17:52	09/21/24 14:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*369*	*S1+*	*33 - 148*	*09/12/24 17:52*	*09/21/24 14:12*	*10*
Tetrachloro-m-xylene	*62*		*30 - 121*	*09/12/24 17:52*	*09/21/24 14:12*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 18:17	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 18:17	1

Client Sample ID: SB34 (5-7.5)
Lab Sample ID: 500-256166-8

Date Collected: 09/04/24 12:08
Matrix: Solid

Date Received: 09/05/24 11:17
Percent Solids: 91.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 18:17	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 18:17	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 18:17	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 18:17	1
PCB-1260	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 18:17	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*49 - 129*	*09/12/24 17:52*	*09/19/24 18:17*	*1*
DCB Decachlorobiphenyl	*136*	*S1+*	*37 - 121*	*09/12/24 17:52*	*09/19/24 18:17*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5600**		19		mg/Kg	☼	09/17/24 16:18	09/18/24 22:22	1
Antimony	<9.7		9.7		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Arsenic	**17**		4.8		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Barium	**100**		4.8		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Beryllium	<1.9		1.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Cadmium	**1.0**		0.97		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Calcium	**21000**		19		mg/Kg	☼	09/17/24 16:18	09/18/24 22:22	1
Chromium	**51**		0.97		mg/Kg	☼	09/17/24 16:18	09/18/24 22:22	1
Cobalt	**6.1**		0.48		mg/Kg	☼	09/17/24 16:18	09/18/24 22:22	1
Copper	**27**		4.8		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Iron	**150000**		97		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Lead	**49**		2.4		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Magnesium	**3400**		9.7		mg/Kg	☼	09/17/24 16:18	09/18/24 22:22	1
Manganese	**7300**		4.8		mg/Kg	☼	09/17/24 16:18	09/20/24 12:47	5
Nickel	**10**		4.8		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Potassium	**170**		48		mg/Kg	☼	09/17/24 16:18	09/18/24 22:22	1
Selenium	<4.8		4.8		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Silver	<2.4		2.4		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Sodium	**110**		97		mg/Kg	☼	09/17/24 16:18	09/18/24 22:22	1
Thallium	<4.8		4.8		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Vanadium	**50**		2.4		mg/Kg	☼	09/17/24 16:18	09/19/24 17:08	5
Zinc	**170**		1.9		mg/Kg	☼	09/17/24 16:18	09/18/24 22:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.5**		0.24		mg/Kg	☼	09/08/24 11:34	09/09/24 12:01	1
pH (SW846 9045D)	**7.71**		0.20		SU			09/10/24 13:59	1

Client Sample ID: SB35 (0-3)
Date Collected: 09/04/24 13:39
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-9
Matrix: Solid
Percent Solids: 92.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.0020**	**J**	0.0022	0.00091	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
1,1,2-Trichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
1,1-Dichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
1,1-Dichloroethene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
1,2-Dichloroethane	<0.0015		0.0056	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
1,2-Dichloropropane	<0.00058		0.0022	0.00058	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
2-Butanone (MEK)	<0.0025		0.0056	0.0025	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Acetone	<0.0094		0.022	0.0094	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Benzene	<0.00070		0.0022	0.00070	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Bromodichloromethane	<0.00072		0.0022	0.00072	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Bromomethane	<0.0028		0.0056	0.0028	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Carbon disulfide	**0.0072**		0.0056	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Carbon tetrachloride	<0.00076		0.0022	0.00076	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Chlorobenzene	<0.00095		0.0022	0.00095	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
cis-1,2-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Methyl tert-butyl ether	<0.00072		0.0022	0.00072	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Styrene	<0.0010		0.0022	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Tetrachloroethene	**0.0091**		0.0022	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Toluene	**0.00057**	**J**	0.0022	0.00045	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Xylenes, Total	<0.00077		0.0045	0.00077	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
trans-1,2-Dichloroethene	<0.00085		0.0022	0.00085	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Trichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1
Vinyl chloride	<0.00092		0.0022	0.00092	mg/Kg	☼	09/05/24 18:07	09/12/24 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*09/05/24 18:07*	*09/12/24 06:13*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*09/05/24 18:07*	*09/12/24 06:13*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*09/05/24 18:07*	*09/12/24 06:13*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*09/05/24 18:07*	*09/12/24 06:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.11**		0.069	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Acenaphthylene	**0.043**	**J**	0.069	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Anthracene	**0.14**		0.069	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Benzo[a]anthracene	**1.2**		0.069	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Benzo[a]pyrene	**2.1**		0.069	0.067	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Benzo[b]fluoranthene	**3.1**		0.069	0.066	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Benzo[g,h,i]perylene	**2.3**		0.069	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB35 (0-3)
Lab Sample ID: 500-256166-9
Date Collected: 09/04/24 13:39
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.0**		0.069	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Chrysene	**1.6**		0.069	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Dibenz(a,h)anthracene	**0.55**		0.069	0.069	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Fluoranthene	**1.5**		0.069	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Fluorene	**0.040**	**J**	0.069	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Indeno[1,2,3-cd]pyrene	**2.1**		0.069	0.068	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Naphthalene	**0.045**	**J**	0.069	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Phenanthrene	**0.67**		0.069	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Pyrene	**1.4**		0.069	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
1,2,4-Trichlorobenzene	<0.050		0.35	0.050	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
1,3-Dichlorobenzene	<0.031		0.35	0.031	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2,4,5-Trichlorophenol	<0.026		0.69	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2,4,6-Trichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2,4-Dichlorophenol	<0.025		0.69	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2,4-Dimethylphenol	<0.16		0.69	0.16	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2,4-Dinitrotoluene	<0.040		0.35	0.040	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2-Chlorophenol	<0.022		0.35	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2-Methylnaphthalene	**0.043**	**J**	0.14	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2-Methylphenol	<0.037		0.35	0.037	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
2-Nitrophenol	<0.047		0.69	0.047	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
3,3'-Dichlorobenzidine	<0.057		0.35	0.057	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
3-Nitroaniline	<0.032		0.69	0.032	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
4-Bromophenyl phenyl ether	<0.048		0.35	0.048	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
4-Chloro-3-methylphenol	<0.027		0.69	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
4-Chloroaniline	<0.73		1.4	0.73	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
4-Chlorophenyl phenyl ether	<0.091		0.35	0.091	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
4-Nitroaniline	<0.051		0.69	0.051	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Butyl benzyl phthalate	**0.052**	**J**	0.35	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Carbazole	**0.073**	**J**	0.35	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Dibenzofuran	**0.052**	**J**	0.35	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Dimethyl phthalate	**0.079**	**J**	0.35	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Di-n-octyl phthalate	<0.49		0.69	0.49	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB35 (0-3)
Lab Sample ID: 500-256166-9
Date Collected: 09/04/24 13:39
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.74		1.4	0.74	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Nitrobenzene	<0.022		0.069	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/17/24 07:52	09/17/24 17:04	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*48*		*31 - 166*	*09/17/24 07:52*	*09/17/24 17:04*	*2*
Phenol-d5 (Surr)	*48*		*30 - 153*	*09/17/24 07:52*	*09/17/24 17:04*	*2*
Nitrobenzene-d5 (Surr)	*53*		*37 - 147*	*09/17/24 07:52*	*09/17/24 17:04*	*2*
2-Fluorobiphenyl (Surr)	*51*		*43 - 145*	*09/17/24 07:52*	*09/17/24 17:04*	*2*
2,4,6-Tribromophenol (Surr)	*25*	*S1-*	*31 - 143*	*09/17/24 07:52*	*09/17/24 17:04*	*2*
Terphenyl-d14 (Surr)	*54*		*42 - 157*	*09/17/24 07:52*	*09/17/24 17:04*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.048		0.089	0.048	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
4,4'-DDE	<0.046		0.089	0.046	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
4,4'-DDT	<0.042		0.089	0.042	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Aldrin	<0.062		0.089	0.062	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
alpha-BHC	<0.050		0.089	0.050	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
alpha-Chlordane	<0.047		0.089	0.047	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
beta-BHC	<0.071		0.089	0.071	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Chlordane (technical)	<0.17		0.35	0.17	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
delta-BHC	<0.042		0.089	0.042	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Dieldrin	<0.046		0.089	0.046	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Endosulfan I	<0.048		0.089	0.048	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Endosulfan II	<0.049		0.089	0.049	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Endosulfan sulfate	<0.049		0.089	0.049	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Endrin	<0.045		0.089	0.045	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Endrin aldehyde	<0.051		0.089	0.051	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Endrin ketone	<0.043		0.089	0.043	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
gamma-BHC (Lindane)	<0.044		0.089	0.044	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
gamma-Chlordane	<0.051		0.089	0.051	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Heptachlor	<0.048		0.089	0.048	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Heptachlor epoxide	<0.048		0.089	0.048	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Methoxychlor	<0.058		0.44	0.058	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50
Toxaphene	<0.35		0.88	0.35	mg/Kg	☼	09/12/24 17:52	09/23/24 13:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/12/24 17:52*	*09/23/24 13:42*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/12/24 17:52*	*09/23/24 13:42*	*50*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:32	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:32	1

Client Sample ID: SB35 (0-3)
Lab Sample ID: 500-256166-9
Date Collected: 09/04/24 13:39
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:32	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:32	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:32	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:32	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:32	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/12/24 17:52	09/19/24 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*49 - 129*	*09/12/24 17:52*	*09/19/24 18:32*	*1*
DCB Decachlorobiphenyl	*142*	*S1+*	*37 - 121*	*09/12/24 17:52*	*09/19/24 18:32*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		21		mg/Kg	☼	09/17/24 16:18	09/18/24 22:27	1
Antimony	<2.1		2.1		mg/Kg	☼	09/17/24 16:18	09/18/24 22:27	1
Arsenic	**8.4**		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Barium	**310**		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Beryllium	**3.5**		2.1		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Cadmium	**1.2**		1.0		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Calcium	**150000**		100		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Chromium	**810**		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Cobalt	**6.7**		0.52		mg/Kg	☼	09/17/24 16:18	09/18/24 22:27	1
Copper	**72**		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Iron	**80000**		100		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Lead	**110**		2.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Magnesium	**26000**		10		mg/Kg	☼	09/17/24 16:18	09/18/24 22:27	1
Manganese	**12000**		5.2		mg/Kg	☼	09/17/24 16:18	09/20/24 12:51	5
Nickel	**160**		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Potassium	**790**		52		mg/Kg	☼	09/17/24 16:18	09/18/24 22:27	1
Selenium	**6.9**		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Silver	<0.52		0.52		mg/Kg	☼	09/17/24 16:18	09/18/24 22:27	1
Sodium	**520**		100		mg/Kg	☼	09/17/24 16:18	09/18/24 22:27	1
Thallium	<5.2		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Vanadium	**150**		2.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:12	5
Zinc	**280**		2.1		mg/Kg	☼	09/17/24 16:18	09/18/24 22:27	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.36**		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**8.1**		0.25		mg/Kg	☼	09/08/24 11:34	09/09/24 12:03	1
pH (SW846 9045D)	**9.22**		0.20		SU			09/10/24 14:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB35 (7.5-10)
Lab Sample ID: 500-256166-10
Date Collected: 09/04/24 13:59
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.0012**	**J**	0.0020	0.00083	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0020	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
1,1,2-Trichloroethane	<0.00077		0.0020	0.00077	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
1,1-Dichloroethane	<0.00077		0.0020	0.00077	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
1,1-Dichloroethene	<0.00084		0.0020	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
1,2-Dichloroethane	<0.0013		0.0051	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
1,2-Dichloropropane	<0.00053		0.0020	0.00053	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
2-Butanone (MEK)	**0.0028**	**J**	0.0051	0.0023	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
2-Hexanone	<0.0031		0.0051	0.0031	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0051	0.0036	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Acetone	**0.014**	**J**	0.020	0.0086	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Benzene	<0.00064		0.0020	0.00064	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Bromodichloromethane	<0.00066		0.0020	0.00066	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Bromomethane	<0.0025		0.0051	0.0025	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Carbon disulfide	**0.0070**		0.0051	0.00094	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Carbon tetrachloride	<0.00070		0.0020	0.00070	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Chlorobenzene	<0.00086		0.0020	0.00086	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Chloroethane	<0.0017		0.0051	0.0017	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Chloroform	<0.0015		0.0020	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Chloromethane	<0.00099		0.0051	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
cis-1,2-Dichloroethene	<0.00083		0.0020	0.00083	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
1,3-Dichloropropene, Total	<0.00098		0.0020	0.00098	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Dibromochloromethane	<0.00095		0.0020	0.00095	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Methyl tert-butyl ether	<0.00066		0.0020	0.00066	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Methylene Chloride	<0.0022		0.0051	0.0022	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Styrene	<0.00092		0.0020	0.00092	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Tetrachloroethene	**0.0069**		0.0020	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Toluene	**0.00052**	**J**	0.0020	0.00041	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Xylenes, Total	<0.00070		0.0041	0.00070	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
trans-1,2-Dichloroethene	<0.00077		0.0020	0.00077	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Trichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1
Vinyl chloride	<0.00084		0.0020	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 06:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*09/05/24 18:07*	*09/12/24 06:38*	*1*
4-Bromofluorobenzene (Surr)	*113*		*75 - 131*	*09/05/24 18:07*	*09/12/24 06:38*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*09/05/24 18:07*	*09/12/24 06:38*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/05/24 18:07*	*09/12/24 06:38*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.059**		0.036	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Acenaphthylene	**0.041**		0.036	0.0061	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Anthracene	**0.11**		0.036	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Benzo[a]anthracene	**0.66**		0.036	0.0077	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Benzo[a]pyrene	**1.1**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Benzo[b]fluoranthene	**1.6**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Benzo[g,h,i]perylene	**1.3**		0.036	0.0079	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB35 (7.5-10)
Lab Sample ID: 500-256166-10
Date Collected: 09/04/24 13:59
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.63**		0.036	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Chrysene	**0.89**		0.036	0.0096	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Dibenz(a,h)anthracene	**0.30**		0.036	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Fluoranthene	**0.95**		0.036	0.0084	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Fluorene	**0.035**	**J**	0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Indeno[1,2,3-cd]pyrene	**1.2**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Naphthalene	**0.044**		0.036	0.0066	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Phenanthrene	**0.46**		0.036	0.0079	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Pyrene	**0.88**		0.036	0.0099	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2,4-Dimethylphenol	<0.081		0.36	0.081	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2-Methylnaphthalene	**0.048**	**J**	0.073	0.0073	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
3-Nitroaniline	<0.016		0.36	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Carbazole	**0.056**	**J**	0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Dibenzofuran	**0.036**	**J**	0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Dimethyl phthalate	<0.0079		0.18	0.0079	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Hexachlorobenzene	<0.0069		0.073	0.0069	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB35 (7.5-10)
Lab Sample ID: 500-256166-10
Date Collected: 09/04/24 13:59
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.73	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
N-Nitrosodi-n-propylamine	<0.0072		0.073	0.0072	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Pentachlorophenol	<0.091		0.73	0.091	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*31 - 166*	*09/17/24 07:52*	*09/17/24 17:28*	*1*
Phenol-d5 (Surr)	*64*		*30 - 153*	*09/17/24 07:52*	*09/17/24 17:28*	*1*
Nitrobenzene-d5 (Surr)	*68*		*37 - 147*	*09/17/24 07:52*	*09/17/24 17:28*	*1*
2-Fluorobiphenyl (Surr)	*66*		*43 - 145*	*09/17/24 07:52*	*09/17/24 17:28*	*1*
2,4,6-Tribromophenol (Surr)	*32*		*31 - 143*	*09/17/24 07:52*	*09/17/24 17:28*	*1*
Terphenyl-d14 (Surr)	*71*		*42 - 157*	*09/17/24 07:52*	*09/17/24 17:28*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
4,4'-DDE	<0.0097		0.019	0.0097	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
4,4'-DDT	<0.0089		0.019	0.0089	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
Chlordane (technical)	<0.036		0.075	0.036	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
delta-BHC	<0.045		0.095	0.045	mg/Kg	☼	09/12/24 17:52	09/23/24 14:06	50
Dieldrin	<0.0099		0.019	0.0099	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
Endosulfan sulfate	<0.052		0.095	0.052	mg/Kg	☼	09/12/24 17:52	09/23/24 14:06	50
Endrin	<0.0096		0.019	0.0096	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
Endrin aldehyde	<0.054		0.095	0.054	mg/Kg	☼	09/12/24 17:52	09/23/24 14:06	50
Endrin ketone	<0.0092		0.019	0.0092	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
gamma-BHC (Lindane)	<0.0094		0.019	0.0094	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
Methoxychlor	<0.012		0.093	0.012	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10
Toxaphene	<0.075		0.19	0.075	mg/Kg	☼	09/12/24 17:52	09/23/24 13:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*348*	*S1+*	*33 - 148*	*09/12/24 17:52*	*09/23/24 13:54*	*10*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/12/24 17:52*	*09/23/24 14:06*	*50*
Tetrachloro-m-xylene	*57*		*30 - 121*	*09/12/24 17:52*	*09/23/24 13:54*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/12/24 17:52*	*09/23/24 14:06*	*50*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Client Sample ID: SB35 (7.5-10)

Date Collected: 09/04/24 13:59
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-10

Matrix: Solid
Percent Solids: 88.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	09/12/24 17:52	09/19/24 18:47	1
PCB-1221	<0.019		0.019		mg/Kg	☼	09/12/24 17:52	09/19/24 18:47	1
PCB-1232	<0.019		0.019		mg/Kg	☼	09/12/24 17:52	09/19/24 18:47	1
PCB-1242	<0.019		0.019		mg/Kg	☼	09/12/24 17:52	09/19/24 18:47	1
PCB-1248	<0.019		0.019		mg/Kg	☼	09/12/24 17:52	09/19/24 18:47	1
PCB-1254	<0.019		0.019		mg/Kg	☼	09/12/24 17:52	09/19/24 18:47	1
PCB-1260	<0.019		0.019		mg/Kg	☼	09/12/24 17:52	09/19/24 18:47	1
Polychlorinated biphenyls, Total	<0.019		0.019		mg/Kg	☼	09/12/24 17:52	09/19/24 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*49 - 129*	*09/12/24 17:52*	*09/19/24 18:47*	*1*
DCB Decachlorobiphenyl	*131*	*S1+*	*37 - 121*	*09/12/24 17:52*	*09/19/24 18:47*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		21		mg/Kg	☼	09/17/24 16:18	09/18/24 22:32	1
Antimony	<2.1		2.1		mg/Kg	☼	09/17/24 16:18	09/18/24 22:32	1
Arsenic	**7.7**		5.3		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Barium	**360**		5.3		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Beryllium	**4.9**		2.1		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Cadmium	<1.1		1.1		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Calcium	**170000**		110		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Chromium	**810**		5.3		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Cobalt	**6.1**		0.53		mg/Kg	☼	09/17/24 16:18	09/18/24 22:32	1
Copper	**54**		5.3		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Iron	**90000**		110		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Lead	**71**		2.7		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Magnesium	**29000**		11		mg/Kg	☼	09/17/24 16:18	09/18/24 22:32	1
Manganese	**11000**		5.3		mg/Kg	☼	09/17/24 16:18	09/20/24 12:56	5
Nickel	**150**		5.3		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Potassium	**800**		53		mg/Kg	☼	09/17/24 16:18	09/18/24 22:32	1
Selenium	**6.1**		5.3		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Silver	<0.53		0.53		mg/Kg	☼	09/17/24 16:18	09/18/24 22:32	1
Sodium	**600**		110		mg/Kg	☼	09/17/24 16:18	09/18/24 22:32	1
Thallium	<5.3		5.3		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Vanadium	**260**		2.7		mg/Kg	☼	09/17/24 16:18	09/19/24 17:17	5
Zinc	**220**		2.1		mg/Kg	☼	09/17/24 16:18	09/18/24 22:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.087**		0.018		mg/Kg	☼	09/19/24 17:20	09/20/24 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**8.6**		0.25		mg/Kg	☼	09/08/24 11:34	09/09/24 12:05	1
pH (SW846 9045D)	**9.36**		0.20		SU			09/10/24 14:04	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB36 (0-3)
Lab Sample ID: 500-256166-11
Date Collected: 09/04/24 14:41
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.0029**		0.0022	0.00088	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
1,1-Dichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
1,1-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
2-Butanone (MEK)	**0.015**		0.0054	0.0024	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0054	0.0038	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Acetone	**0.075**		0.022	0.0091	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Benzene	<0.00068		0.0022	0.00068	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Bromodichloromethane	<0.00069		0.0022	0.00069	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Bromomethane	<0.0027		0.0054	0.0027	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Carbon disulfide	**0.0080**		0.0054	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Carbon tetrachloride	<0.00074		0.0022	0.00074	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Chlorobenzene	<0.00091		0.0022	0.00091	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Chloromethane	<0.0010		0.0054	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
cis-1,2-Dichloroethene	<0.00087		0.0022	0.00087	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Methyl tert-butyl ether	<0.00070		0.0022	0.00070	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Styrene	<0.00097		0.0022	0.00097	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Tetrachloroethene	**0.11**		0.0022	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Xylenes, Total	<0.00074		0.0043	0.00074	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
trans-1,2-Dichloroethene	<0.00082		0.0022	0.00082	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Trichloroethene	**0.00066**	**J**	0.0022	0.00059	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1
Vinyl chloride	<0.00088		0.0022	0.00088	mg/Kg	☼	09/05/24 18:07	09/12/24 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/05/24 18:07*	*09/12/24 07:02*	*1*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*75 - 131*	*09/05/24 18:07*	*09/12/24 07:02*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*09/05/24 18:07*	*09/12/24 07:02*	*1*
Toluene-d8 (Surr)	*116*		*75 - 124*	*09/05/24 18:07*	*09/12/24 07:02*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015		0.071	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Acenaphthylene	**0.054**	**J**	0.071	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Anthracene	**0.10**		0.071	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Benzo[a]anthracene	**0.78**		0.071	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Benzo[a]pyrene	**0.95**		0.071	0.069	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Benzo[b]fluoranthene	**2.0**		0.071	0.068	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Benzo[g,h,i]perylene	**1.7**		0.071	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB36 (0-3)
Lab Sample ID: 500-256166-11
Date Collected: 09/04/24 14:41
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.73**		0.071	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Chrysene	**0.99**		0.071	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Dibenz(a,h)anthracene	**0.22**		0.071	0.071	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Fluoranthene	**2.4**		0.071	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Fluorene	<0.021		0.071	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Indeno[1,2,3-cd]pyrene	**1.4**		0.071	0.070	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Naphthalene	**0.11**		0.071	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Phenanthrene	**1.8**		0.071	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Pyrene	**1.7**		0.071	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2-Methylnaphthalene	**0.093**	**J**	0.14	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
2-Nitrophenol	<0.049		0.71	0.049	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
3,3'-Dichlorobenzidine	<0.059		0.36	0.059	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
3-Nitroaniline	<0.033		0.71	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
4-Nitrophenol	<0.27		1.4	0.27	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Carbazole	**0.036**	**J**	0.36	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Dibenzofuran	**0.18**	**J**	0.36	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2

Client Sample ID: SB36 (0-3)
Lab Sample ID: 500-256166-11
Date Collected: 09/04/24 14:41
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76		1.4	0.76	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
N-Nitrosodiphenylamine	<0.043		0.36	0.043	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/17/24 07:52	09/17/24 17:52	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*38*		*31 - 166*	*09/17/24 07:52*	*09/17/24 17:52*	*2*
Phenol-d5 (Surr)	*44*		*30 - 153*	*09/17/24 07:52*	*09/17/24 17:52*	*2*
Nitrobenzene-d5 (Surr)	*42*		*37 - 147*	*09/17/24 07:52*	*09/17/24 17:52*	*2*
2-Fluorobiphenyl (Surr)	*49*		*43 - 145*	*09/17/24 07:52*	*09/17/24 17:52*	*2*
2,4,6-Tribromophenol (Surr)	*13*	*S1-*	*31 - 143*	*09/17/24 07:52*	*09/17/24 17:52*	*2*
Terphenyl-d14 (Surr)	*65*		*42 - 157*	*09/17/24 07:52*	*09/17/24 17:52*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/12/24 17:52	09/21/24 14:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*213*	*S1+*	*33 - 148*	*09/12/24 17:52*	*09/21/24 14:47*	*10*
Tetrachloro-m-xylene	*70*		*30 - 121*	*09/12/24 17:52*	*09/21/24 14:47*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 19:02	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 19:02	1

Client Sample ID: SB36 (0-3)
Lab Sample ID: 500-256166-11
Date Collected: 09/04/24 14:41
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 19:02	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 19:02	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 19:02	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 19:02	1
PCB-1260	**0.021**		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 19:02	1
Polychlorinated biphenyls, Total	**0.021**		0.017		mg/Kg	☼	09/12/24 17:52	09/19/24 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*49 - 129*	*09/12/24 17:52*	*09/19/24 19:02*	*1*
DCB Decachlorobiphenyl	*103*		*37 - 121*	*09/12/24 17:52*	*09/19/24 19:02*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		20		mg/Kg	☼	09/17/24 16:18	09/18/24 22:37	1
Antimony	**68**		2.0		mg/Kg	☼	09/17/24 16:18	09/18/24 22:37	1
Arsenic	**27**		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Barium	**200**		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Beryllium	**2.3**		2.0		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Cadmium	<1.0		1.0		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Calcium	**130000**		100		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Chromium	**6100**		51		mg/Kg	☼	09/17/24 16:18	09/20/24 13:00	50
Cobalt	**18**		0.51		mg/Kg	☼	09/17/24 16:18	09/18/24 22:37	1
Copper	**76**		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Iron	**100000**		100		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Lead	**72**		2.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Magnesium	**20000**		10		mg/Kg	☼	09/17/24 16:18	09/18/24 22:37	1
Manganese	**5600**		51		mg/Kg	☼	09/17/24 16:18	09/20/24 13:00	50
Nickel	**760**		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Potassium	**820**		51		mg/Kg	☼	09/17/24 16:18	09/18/24 22:37	1
Selenium	<5.1		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Silver	<2.6		2.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Sodium	**420**		100		mg/Kg	☼	09/17/24 16:18	09/18/24 22:37	1
Thallium	<5.1		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Vanadium	**45**		2.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:30	5
Zinc	**190**		2.0		mg/Kg	☼	09/17/24 16:18	09/18/24 22:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.077**		0.016		mg/Kg	☼	09/19/24 17:20	09/20/24 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**13**		2.5		mg/Kg	☼	09/08/24 11:34	09/09/24 13:16	10
pH (SW846 9045D)	**10.10**		0.20		SU			09/10/24 14:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB36 (5-7.5)
Lab Sample ID: 500-256166-12
Date Collected: 09/04/24 14:58
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.0016**	**J**	0.0023	0.00092	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
1,1,2-Trichloroethane	<0.00085		0.0023	0.00085	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
1,1-Dichloroethane	<0.00086		0.0023	0.00086	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
1,1-Dichloroethene	<0.00094		0.0023	0.00094	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
1,2-Dichloroethane	<0.0015		0.0057	0.0015	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
1,2-Dichloropropane	<0.00059		0.0023	0.00059	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
2-Butanone (MEK)	<0.0025		0.0057	0.0025	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
2-Hexanone	<0.0035		0.0057	0.0035	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0057	0.0040	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Acetone	**0.013**	**J**	0.023	0.0096	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Benzene	<0.00072		0.0023	0.00072	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Bromodichloromethane	<0.00073		0.0023	0.00073	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Bromomethane	<0.0028		0.0057	0.0028	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Carbon disulfide	**0.0010**	**J**	0.0057	0.0010	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Carbon tetrachloride	<0.00078		0.0023	0.00078	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Chlorobenzene	<0.00096		0.0023	0.00096	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Chloroethane	<0.0019		0.0057	0.0019	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Chloroform	<0.0016		0.0023	0.0016	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Chloromethane	<0.0011		0.0057	0.0011	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
cis-1,2-Dichloroethene	<0.00092		0.0023	0.00092	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Methyl tert-butyl ether	<0.00074		0.0023	0.00074	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Methylene Chloride	<0.0024		0.0057	0.0024	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Tetrachloroethene	**0.042**		0.0023	0.0013	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Toluene	<0.00046		0.0023	0.00046	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Xylenes, Total	<0.00078		0.0046	0.00078	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
trans-1,2-Dichloroethene	<0.00086		0.0023	0.00086	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Trichloroethene	<0.00062		0.0023	0.00062	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1
Vinyl chloride	<0.00093		0.0023	0.00093	mg/Kg	☼	09/05/24 18:07	09/11/24 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*	*09/05/24 18:07*	*09/11/24 23:01*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*09/05/24 18:07*	*09/11/24 23:01*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*09/05/24 18:07*	*09/11/24 23:01*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*	*09/05/24 18:07*	*09/11/24 23:01*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.021**	**J**	0.072	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Acenaphthylene	**0.090**		0.072	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Anthracene	**0.082**		0.072	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Benzo[a]anthracene	**0.61**		0.072	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Benzo[a]pyrene	**0.61**		0.072	0.069	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Benzo[b]fluoranthene	**1.0**		0.072	0.068	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Benzo[g,h,i]perylene	**0.56**		0.072	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2

Client Sample ID: SB36 (5-7.5)
Lab Sample ID: 500-256166-12
Date Collected: 09/04/24 14:58
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.46**		0.072	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Chrysene	**0.69**		0.072	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Dibenz(a,h)anthracene	**0.12**		0.072	0.072	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Fluoranthene	**1.3**		0.072	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Fluorene	<0.021		0.072	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Indeno[1,2,3-cd]pyrene	**0.59**		0.072	0.070	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Naphthalene	**0.055**	J	0.072	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Phenanthrene	**0.85**		0.072	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Pyrene	**1.0**		0.072	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
1,3-Dichlorobenzene	<0.033		0.36	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2,4,5-Trichlorophenol	<0.027		0.72	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2,4,6-Trichlorophenol	<0.024		0.72	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2,4-Dichlorophenol	<0.025		0.72	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2,4-Dimethylphenol	<0.16		0.72	0.16	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2-Methylnaphthalene	**0.077**	J	0.15	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2-Nitroaniline	<0.039		0.36	0.039	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
2-Nitrophenol	<0.049		0.72	0.049	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
3,3'-Dichlorobenzidine	<0.059		0.36	0.059	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
3 & 4 Methylphenol	<0.053		0.36	0.053	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
3-Nitroaniline	<0.033		0.72	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
4-Chloro-3-methylphenol	<0.028		0.72	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
4-Chloroaniline	<0.75		1.5	0.75	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
4-Nitroaniline	<0.053		0.72	0.053	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
bis(chloroisopropyl) ether	<0.052		0.36	0.052	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Carbazole	**0.037**	J	0.36	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Dibenzofuran	**0.066**	J	0.36	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Di-n-octyl phthalate	<0.50		0.72	0.50	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Hexachlorobutadiene	<0.041		0.36	0.041	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2

Client Sample ID: SB36 (5-7.5)
Lab Sample ID: 500-256166-12
Date Collected: 09/04/24 14:58
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76		1.5	0.76	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Nitrobenzene	<0.023		0.072	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
N-Nitrosodiphenylamine	<0.043		0.36	0.043	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/17/24 07:52	09/17/24 18:17	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*34*		*31 - 166*	*09/17/24 07:52*	*09/17/24 18:17*	*2*
Phenol-d5 (Surr)	*41*		*30 - 153*	*09/17/24 07:52*	*09/17/24 18:17*	*2*
Nitrobenzene-d5 (Surr)	*39*		*37 - 147*	*09/17/24 07:52*	*09/17/24 18:17*	*2*
2-Fluorobiphenyl (Surr)	*45*		*43 - 145*	*09/17/24 07:52*	*09/17/24 18:17*	*2*
2,4,6-Tribromophenol (Surr)	*11*	*S1-*	*31 - 143*	*09/17/24 07:52*	*09/17/24 18:17*	*2*
Terphenyl-d14 (Surr)	*67*		*42 - 157*	*09/17/24 07:52*	*09/17/24 18:17*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Aldrin	<0.012	F1	0.018	0.012	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
alpha-BHC	<0.0098	F1	0.018	0.0098	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
alpha-Chlordane	<0.0094	F2	0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Endosulfan I	<0.0095	F1	0.018	0.0095	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Endrin ketone	<0.0085	F1	0.018	0.0085	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
gamma-Chlordane	<0.010	F1 F2	0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Heptachlor	<0.0095	F1 F2	0.018	0.0095	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Heptachlor epoxide	<0.0094	F1 F2	0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Methoxychlor	<0.012	F1	0.086	0.012	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/16/24 16:28	09/21/24 14:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*315*	*S1+*	*33 - 148*	*09/16/24 16:28*	*09/21/24 14:59*	*10*
Tetrachloro-m-xylene	*65*		*30 - 121*	*09/16/24 16:28*	*09/21/24 14:59*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 17:32	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 17:32	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB36 (5-7.5)
Lab Sample ID: 500-256166-12

Date Collected: 09/04/24 14:58
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 17:32	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 17:32	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 17:32	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 17:32	10
PCB-1260	<0.17	F1	0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 17:32	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 17:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*49 - 129*	*09/16/24 16:28*	*09/23/24 17:32*	*10*
DCB Decachlorobiphenyl	*100*		*37 - 121*	*09/16/24 16:28*	*09/23/24 17:32*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		20		mg/Kg	☼	09/17/24 16:18	09/18/24 22:41	1
Antimony	**20**		2.0		mg/Kg	☼	09/17/24 16:18	09/18/24 22:41	1
Arsenic	**21**		4.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Barium	**230**		4.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Beryllium	**2.6**		2.0		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Cadmium	<0.99		0.99		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Calcium	**110000**		99		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Chromium	**2800**		49		mg/Kg	☼	09/17/24 16:18	09/20/24 13:04	50
Cobalt	**14**		0.49		mg/Kg	☼	09/17/24 16:18	09/18/24 22:41	1
Copper	**82**		4.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Iron	**110000**		99		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Lead	**79**		2.5		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Magnesium	**15000**		9.9		mg/Kg	☼	09/17/24 16:18	09/18/24 22:41	1
Manganese	**5600**		49		mg/Kg	☼	09/17/24 16:18	09/20/24 13:04	50
Nickel	**600**		4.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Potassium	**940**		49		mg/Kg	☼	09/17/24 16:18	09/18/24 22:41	1
Selenium	<4.9		4.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Silver	<2.5		2.5		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Sodium	**500**		99		mg/Kg	☼	09/17/24 16:18	09/18/24 22:41	1
Thallium	<4.9		4.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Vanadium	**40**		2.5		mg/Kg	☼	09/17/24 16:18	09/19/24 17:34	5
Zinc	**190**		2.0		mg/Kg	☼	09/17/24 16:18	09/18/24 22:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**14**		2.5		mg/Kg	☼	09/08/24 11:34	09/09/24 13:21	10
pH (SW846 9045D)	**10.00**		0.20		SU			09/10/24 14:09	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB37 (0-3)
Lab Sample ID: 500-256166-13
Date Collected: 09/04/24 09:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 89.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00099		0.0025	0.00099	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
1,1,2-Trichloroethane	<0.00092		0.0025	0.00092	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
1,1-Dichloroethane	<0.00092		0.0025	0.00092	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
1,2-Dichloroethane	<0.0016		0.0061	0.0016	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
1,2-Dichloropropane	<0.00063		0.0025	0.00063	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
2-Butanone (MEK)	<0.0027		0.0061	0.0027	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
2-Hexanone	<0.0037		0.0061	0.0037	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0061	0.0044	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Acetone	<0.010		0.025	0.010	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Benzene	<0.00077		0.0025	0.00077	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Bromodichloromethane	<0.00079		0.0025	0.00079	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Bromoform	<0.0014		0.0025	0.0014	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Bromomethane	<0.0030		0.0061	0.0030	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Carbon disulfide	**0.0018**	**J**	0.0061	0.0011	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Carbon tetrachloride	<0.00084		0.0025	0.00084	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Chlorobenzene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Chloroethane	<0.0020		0.0061	0.0020	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Chloromethane	<0.0012		0.0061	0.0012	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
cis-1,2-Dichloroethene	<0.00099		0.0025	0.00099	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Dibromochloromethane	<0.0011		0.0025	0.0011	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Methyl tert-butyl ether	<0.00079		0.0025	0.00079	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Methylene Chloride	<0.0026		0.0061	0.0026	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Styrene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Toluene	<0.00049		0.0025	0.00049	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Xylenes, Total	<0.00084		0.0049	0.00084	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
trans-1,2-Dichloroethene	<0.00093		0.0025	0.00093	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Trichloroethene	<0.00067		0.0025	0.00067	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/11/24 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*09/05/24 18:07*	*09/11/24 23:25*	*1*
4-Bromofluorobenzene (Surr)	*120*		*75 - 131*	*09/05/24 18:07*	*09/11/24 23:25*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*09/05/24 18:07*	*09/11/24 23:25*	*1*
Toluene-d8 (Surr)	*112*		*75 - 124*	*09/05/24 18:07*	*09/11/24 23:25*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015		0.072	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Acenaphthylene	**0.14**		0.072	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Anthracene	**0.096**		0.072	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Benzo[a]anthracene	**0.42**		0.072	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Benzo[a]pyrene	**0.46**		0.072	0.070	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Benzo[b]fluoranthene	**0.85**		0.072	0.069	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Benzo[g,h,i]perylene	**0.35**		0.072	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB37 (0-3)
Lab Sample ID: 500-256166-13
Date Collected: 09/04/24 09:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 89.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.29**		0.072	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Chrysene	**0.59**		0.072	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Dibenz(a,h)anthracene	**0.10**		0.072	0.072	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Fluoranthene	**0.62**		0.072	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Fluorene	**0.026**	**J**	0.072	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Indeno[1,2,3-cd]pyrene	**0.39**		0.072	0.071	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Naphthalene	**0.11**		0.072	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Phenanthrene	**0.45**		0.072	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Pyrene	**0.55**		0.072	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
1,2,4-Trichlorobenzene	<0.052		0.37	0.052	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
1,3-Dichlorobenzene	<0.033		0.37	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
1,4-Dichlorobenzene	<0.034		0.37	0.034	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2,4,5-Trichlorophenol	<0.027		0.72	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2,4,6-Trichlorophenol	<0.025		0.72	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2,4-Dichlorophenol	<0.026		0.72	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2,4-Dimethylphenol	<0.16		0.72	0.16	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2,4-Dinitrotoluene	<0.041		0.37	0.041	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2-Chloronaphthalene	<0.027		0.37	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2-Chlorophenol	<0.023		0.37	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2-Methylnaphthalene	**0.17**		0.15	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2-Methylphenol	<0.038		0.37	0.038	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2-Nitroaniline	<0.039		0.37	0.039	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
2-Nitrophenol	<0.049		0.72	0.049	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
3,3'-Dichlorobenzidine	<0.059		0.37	0.059	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
3 & 4 Methylphenol	<0.053		0.37	0.053	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
3-Nitroaniline	<0.033		0.72	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
4-Bromophenyl phenyl ether	<0.050		0.37	0.050	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
4-Chloro-3-methylphenol	<0.028		0.72	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
4-Chloroaniline	<0.76		1.5	0.76	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
4-Chlorophenyl phenyl ether	<0.095		0.37	0.095	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
4-Nitroaniline	<0.054		0.72	0.054	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Bis(2-chloroethoxy)methane	<0.027		0.37	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Bis(2-chloroethyl)ether	<0.033		0.37	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
bis(chloroisopropyl) ether	<0.052		0.37	0.052	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Bis(2-ethylhexyl) phthalate	<0.28		0.37	0.28	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Butyl benzyl phthalate	<0.036		0.37	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Carbazole	**0.038**	**J**	0.37	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Dibenzofuran	**0.087**	**J**	0.37	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Diethyl phthalate	<0.033		0.37	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Di-n-butyl phthalate	<0.023		0.37	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Di-n-octyl phthalate	<0.51		0.72	0.51	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Hexachlorobutadiene	<0.041		0.37	0.041	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2

Client Sample ID: SB37 (0-3)
Lab Sample ID: 500-256166-13
Date Collected: 09/04/24 09:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 89.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.77		1.5	0.77	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Hexachloroethane	<0.036		0.37	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Isophorone	<0.037		0.37	0.037	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Nitrobenzene	<0.023		0.072	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
N-Nitrosodiphenylamine	<0.043		0.37	0.043	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2
Phenol	<0.032		0.37	0.032	mg/Kg	☼	09/17/24 07:52	09/17/24 18:41	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*43*		*31 - 166*	*09/17/24 07:52*	*09/17/24 18:41*	*2*
Phenol-d5 (Surr)	*51*		*30 - 153*	*09/17/24 07:52*	*09/17/24 18:41*	*2*
Nitrobenzene-d5 (Surr)	*51*		*37 - 147*	*09/17/24 07:52*	*09/17/24 18:41*	*2*
2-Fluorobiphenyl (Surr)	*56*		*43 - 145*	*09/17/24 07:52*	*09/17/24 18:41*	*2*
2,4,6-Tribromophenol (Surr)	*38*		*31 - 143*	*09/17/24 07:52*	*09/17/24 18:41*	*2*
Terphenyl-d14 (Surr)	*60*		*42 - 157*	*09/17/24 07:52*	*09/17/24 18:41*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0099		0.019	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
4,4'-DDE	<0.0095		0.019	0.0095	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
4,4'-DDT	<0.0087		0.019	0.0087	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
alpha-Chlordane	<0.0098		0.019	0.0098	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
delta-BHC	<0.0088		0.019	0.0088	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Dieldrin	<0.0096		0.019	0.0096	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Endosulfan I	<0.0099		0.019	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Endrin	<0.0094		0.019	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Endrin aldehyde	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Endrin ketone	<0.0089		0.019	0.0089	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Heptachlor epoxide	<0.0099		0.019	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Methoxychlor	<0.012		0.090	0.012	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10
Toxaphene	<0.073		0.18	0.073	mg/Kg	☼	09/16/24 16:28	09/21/24 15:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*345*	*S1+*	*33 - 148*	*09/16/24 16:28*	*09/21/24 15:34*	*10*
Tetrachloro-m-xylene	*57*		*30 - 121*	*09/16/24 16:28*	*09/21/24 15:34*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:18	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:18	10

Client Sample ID: SB37 (0-3)
Lab Sample ID: 500-256166-13
Date Collected: 09/04/24 09:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 89.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:18	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:18	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:18	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:18	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:18	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*49 - 129*	*09/16/24 16:28*	*09/23/24 18:18*	*10*
DCB Decachlorobiphenyl	*77*		*37 - 121*	*09/16/24 16:28*	*09/23/24 18:18*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		19		mg/Kg	☼	09/17/24 16:18	09/18/24 22:46	1
Antimony	<1.9		1.9		mg/Kg	☼	09/17/24 16:18	09/18/24 22:46	1
Arsenic	**8.5**		4.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:39	5
Barium	**140**		4.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:39	5
Beryllium	<1.9		1.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:39	5
Cadmium	**1.2**		0.93		mg/Kg	☼	09/17/24 16:18	09/19/24 17:39	5
Calcium	**84000**		93		mg/Kg	☼	09/17/24 16:18	09/19/24 17:39	5
Chromium	**150**		0.93		mg/Kg	☼	09/17/24 16:18	09/18/24 22:46	1
Cobalt	**6.3**		0.46		mg/Kg	☼	09/17/24 16:18	09/18/24 22:46	1
Copper	**150**		4.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:39	5
Iron	**73000**		93		mg/Kg	☼	09/17/24 16:18	09/19/24 17:39	5
Lead	**110**		2.3		mg/Kg	☼	09/17/24 16:18	09/19/24 17:39	5
Magnesium	**10000**		9.3		mg/Kg	☼	09/17/24 16:18	09/18/24 22:46	1
Manganese	**3600**		4.6		mg/Kg	☼	09/17/24 16:18	09/20/24 13:09	5
Nickel	**91**		4.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:39	5
Potassium	**670**		46		mg/Kg	☼	09/17/24 16:18	09/18/24 22:46	1
Selenium	<4.6		4.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:39	5
Silver	<0.46		0.46		mg/Kg	☼	09/17/24 16:18	09/18/24 22:46	1
Sodium	**410**		93		mg/Kg	☼	09/17/24 16:18	09/18/24 22:46	1
Thallium	<4.6		4.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:39	5
Vanadium	**50**		2.3		mg/Kg	☼	09/17/24 16:18	09/19/24 17:39	5
Zinc	**130**		1.9		mg/Kg	☼	09/17/24 16:18	09/18/24 22:46	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.40**		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.7**		0.26		mg/Kg	☼	09/09/24 11:02	09/09/24 15:13	1
pH (SW846 9045D)	**8.68**		0.20		SU			09/10/24 14:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB37 (12.5-15)
Lab Sample ID: 500-256166-14
Date Collected: 09/04/24 09:48
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00099		0.0025	0.00099	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
1,1,2-Trichloroethane	<0.00092		0.0025	0.00092	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
1,1-Dichloroethane	<0.00092		0.0025	0.00092	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
1,2-Dichloroethane	<0.0016		0.0061	0.0016	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
1,2-Dichloropropane	<0.00063		0.0025	0.00063	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
2-Butanone (MEK)	<0.0027		0.0061	0.0027	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
2-Hexanone	<0.0037		0.0061	0.0037	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0061	0.0044	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Acetone	**0.015**	**J**	0.025	0.010	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Benzene	<0.00077		0.0025	0.00077	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Bromodichloromethane	<0.00079		0.0025	0.00079	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Bromoform	<0.0014		0.0025	0.0014	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Bromomethane	<0.0030		0.0061	0.0030	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Carbon disulfide	<0.0011		0.0061	0.0011	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Carbon tetrachloride	<0.00084		0.0025	0.00084	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Chlorobenzene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Chloroethane	<0.0020		0.0061	0.0020	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Chloromethane	<0.0012		0.0061	0.0012	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
cis-1,2-Dichloroethene	<0.00099		0.0025	0.00099	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Dibromochloromethane	<0.0011		0.0025	0.0011	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Methyl tert-butyl ether	<0.00079		0.0025	0.00079	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Methylene Chloride	<0.0026		0.0061	0.0026	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Styrene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Toluene	**0.0012**	**J**	0.0025	0.00049	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Xylenes, Total	<0.00084		0.0049	0.00084	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
trans-1,2-Dichloroethene	<0.00093		0.0025	0.00093	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Trichloroethene	<0.00067		0.0025	0.00067	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/11/24 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*09/05/24 18:07*	*09/11/24 23:49*	*1*
4-Bromofluorobenzene (Surr)	*116*		*75 - 131*	*09/05/24 18:07*	*09/11/24 23:49*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*09/05/24 18:07*	*09/11/24 23:49*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*	*09/05/24 18:07*	*09/11/24 23:49*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.012**	**J**	0.036	0.0075	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Acenaphthylene	<0.0062		0.036	0.0062	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Anthracene	**0.022**	**J**	0.036	0.0075	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Benzo[a]anthracene	**0.053**		0.036	0.0078	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Benzo[a]pyrene	<0.035		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Benzo[b]fluoranthene	**0.063**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Benzo[g,h,i]perylene	**0.026**	**J**	0.036	0.0079	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB37 (12.5-15)
Lab Sample ID: 500-256166-14
Date Collected: 09/04/24 09:48
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.014		0.036	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Chrysene	**0.052**		0.036	0.0097	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Fluoranthene	**0.11**		0.036	0.0085	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Fluorene	**0.014**	**J**	0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Naphthalene	**0.029**	**J**	0.036	0.0066	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Phenanthrene	**0.18**		0.036	0.0080	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Pyrene	**0.081**		0.036	0.010	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
1,3-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2,4-Dimethylphenol	<0.082		0.36	0.082	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2-Methylnaphthalene	**0.037**	**J**	0.074	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
4-Chloroaniline	<0.38		0.74	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Dibenzofuran	**0.018**	**J**	0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Dimethyl phthalate	<0.0080		0.18	0.0080	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Di-n-octyl phthalate	<0.26		0.36	0.26	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1

Client Sample ID: SB37 (12.5-15)
Lab Sample ID: 500-256166-14
Date Collected: 09/04/24 09:48
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Nitrobenzene	<0.012		0.036	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
N-Nitrosodi-n-propylamine	<0.0072		0.074	0.0072	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Pentachlorophenol	<0.092		0.74	0.092	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*38*		*31 - 166*	*09/17/24 07:52*	*09/17/24 19:05*	*1*
Phenol-d5 (Surr)	*42*		*30 - 153*	*09/17/24 07:52*	*09/17/24 19:05*	*1*
Nitrobenzene-d5 (Surr)	*44*		*37 - 147*	*09/17/24 07:52*	*09/17/24 19:05*	*1*
2-Fluorobiphenyl (Surr)	*47*		*43 - 145*	*09/17/24 07:52*	*09/17/24 19:05*	*1*
2,4,6-Tribromophenol (Surr)	*30*	*S1-*	*31 - 143*	*09/17/24 07:52*	*09/17/24 19:05*	*1*
Terphenyl-d14 (Surr)	*52*		*42 - 157*	*09/17/24 07:52*	*09/17/24 19:05*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	**38**		1.3		mg/Kg	☼	09/04/24 09:48	09/09/24 02:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*107*		*70 - 130*	*09/04/24 09:48*	*09/09/24 02:44*	*50*
4-Bromofluorobenzene	*117*		*60 - 130*	*09/04/24 09:48*	*09/09/24 02:44*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**81**		9.1		mg/Kg	☼	09/09/24 07:38	09/11/24 03:38	1
Oil Range Organics (C28-C36)	**45**		18		mg/Kg	☼	09/09/24 07:38	09/11/24 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*88*		*50 - 126*	*09/09/24 07:38*	*09/11/24 03:38*	*1*
2-Fluorobiphenyl (Surr)	*71*		*40 - 133*	*09/09/24 07:38*	*09/11/24 03:38*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0099		0.018	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
4,4'-DDE	<0.0094		0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
4,4'-DDT	<0.0087		0.018	0.0087	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
alpha-Chlordane	<0.0098		0.018	0.0098	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
delta-BHC	<0.0088		0.018	0.0088	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
Dieldrin	<0.0096		0.018	0.0096	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
Endosulfan I	<0.0099		0.018	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
Endosulfan II	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
Endrin	<0.0094		0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10

Client Sample ID: SB37 (12.5-15)
Lab Sample ID: 500-256166-14
Date Collected: 09/04/24 09:48
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.3

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	<0.0089		0.018	0.0089	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
gamma-BHC (Lindane)	<0.0091		0.018	0.0091	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
gamma-Chlordane	<0.011		0.018	0.011	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
Heptachlor	<0.0099		0.018	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
Heptachlor epoxide	<0.0099		0.018	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
Methoxychlor	<0.012		0.090	0.012	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10
Toxaphene	<0.073		0.18	0.073	mg/Kg	☼	09/16/24 16:28	09/21/24 15:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*149*	*S1+*	*33 - 148*	*09/16/24 16:28*	*09/21/24 15:45*	*10*
Tetrachloro-m-xylene	*74*		*30 - 121*	*09/16/24 16:28*	*09/21/24 15:45*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:33	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:33	10
PCB-1232	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:33	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:33	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:33	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:33	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:33	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 18:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*49 - 129*	*09/16/24 16:28*	*09/23/24 18:33*	*10*
DCB Decachlorobiphenyl	*79*		*37 - 121*	*09/16/24 16:28*	*09/23/24 18:33*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3200**		19		mg/Kg	☼	09/17/24 16:18	09/18/24 22:50	1
Antimony	<9.7		9.7		mg/Kg	☼	09/17/24 16:18	09/19/24 17:43	5
Arsenic	<0.97		0.97		mg/Kg	☼	09/17/24 16:18	09/18/24 22:50	1
Barium	**43**		4.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:43	5
Beryllium	<1.9		1.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:43	5
Cadmium	<0.97		0.97		mg/Kg	☼	09/17/24 16:18	09/19/24 17:43	5
Calcium	**14000**		19		mg/Kg	☼	09/17/24 16:18	09/18/24 22:50	1
Chromium	**46**		0.97		mg/Kg	☼	09/17/24 16:18	09/18/24 22:50	1
Cobalt	**5.4**		0.49		mg/Kg	☼	09/17/24 16:18	09/18/24 22:50	1
Copper	**32**		4.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:43	5
Iron	**200000**		97		mg/Kg	☼	09/17/24 16:18	09/19/24 17:43	5
Lead	**34**		2.4		mg/Kg	☼	09/17/24 16:18	09/19/24 17:43	5
Magnesium	**3000**		9.7		mg/Kg	☼	09/17/24 16:18	09/18/24 22:50	1
Manganese	**1100**		0.97		mg/Kg	☼	09/17/24 16:18	09/18/24 22:50	1
Nickel	**21**		4.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:43	5
Potassium	**82**		49		mg/Kg	☼	09/17/24 16:18	09/18/24 22:50	1
Selenium	<4.9		4.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:43	5
Silver	<2.4		2.4		mg/Kg	☼	09/17/24 16:18	09/19/24 17:43	5
Sodium	**170**		97		mg/Kg	☼	09/17/24 16:18	09/18/24 22:50	1
Thallium	<4.9		4.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:43	5
Vanadium	**23**		2.4		mg/Kg	☼	09/17/24 16:18	09/19/24 17:43	5

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB37 (12.5-15)
Lab Sample ID: 500-256166-14
Date Collected: 09/04/24 09:48
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.3

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**100**		1.9		mg/Kg	☼	09/17/24 16:18	09/18/24 22:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/19/24 17:20	09/20/24 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25		mg/Kg	☼	09/09/24 11:02	09/09/24 15:15	1
Sulfide (SW846 9034)	**39**		34		mg/Kg	☼	09/11/24 08:43	09/11/24 13:09	1
pH (SW846 9045D)	**7.62**		0.20		SU			09/10/24 14:14	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB38 (0-3)
Date Collected: 09/04/24 10:11
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-15
Matrix: Solid
Percent Solids: 91.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0025	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
1,1,2-Trichloroethane	<0.00095		0.0025	0.00095	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
1,1-Dichloroethane	<0.00096		0.0025	0.00096	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
1,2-Dichloroethane	<0.0017		0.0064	0.0017	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
1,2-Dichloropropane	<0.00066		0.0025	0.00066	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
2-Butanone (MEK)	<0.0028		0.0064	0.0028	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
2-Hexanone	<0.0039		0.0064	0.0039	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0064	0.0045	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Acetone	<0.011		0.025	0.011	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Benzene	<0.00080		0.0025	0.00080	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Bromodichloromethane	<0.00082		0.0025	0.00082	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Bromoform	<0.0015		0.0025	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Bromomethane	<0.0031		0.0064	0.0031	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Carbon disulfide	<0.0012		0.0064	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Carbon tetrachloride	<0.00087		0.0025	0.00087	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Chlorobenzene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Chloroethane	<0.0021		0.0064	0.0021	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Chloromethane	<0.0012		0.0064	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
cis-1,2-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Dibromochloromethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Methyl tert-butyl ether	<0.00082		0.0025	0.00082	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Methylene Chloride	<0.0027		0.0064	0.0027	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Styrene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Toluene	<0.00051		0.0025	0.00051	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Xylenes, Total	<0.00087		0.0051	0.00087	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
trans-1,2-Dichloroethene	<0.00096		0.0025	0.00096	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Trichloroethene	<0.00069		0.0025	0.00069	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*09/05/24 18:07*	*09/12/24 00:13*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*09/05/24 18:07*	*09/12/24 00:13*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/05/24 18:07*	*09/12/24 00:13*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*	*09/05/24 18:07*	*09/12/24 00:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.094**		0.072	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Acenaphthylene	**0.045**	**J**	0.072	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Anthracene	**0.27**		0.072	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Benzo[a]anthracene	**1.9**		0.072	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Benzo[a]pyrene	**1.9**		0.072	0.070	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Benzo[b]fluoranthene	**2.9**		0.072	0.069	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Benzo[g,h,i]perylene	**1.1**		0.072	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB38 (0-3)
Lab Sample ID: 500-256166-15
Date Collected: 09/04/24 10:11
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.1**		0.072	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Chrysene	**2.1**		0.072	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Dibenz(a,h)anthracene	**0.29**		0.072	0.072	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Fluoranthene	**3.1**		0.072	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Fluorene	**0.071**	**J**	0.072	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Indeno[1,2,3-cd]pyrene	**1.2**		0.072	0.070	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Naphthalene	**0.021**	**J**	0.072	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Phenanthrene	**1.1**		0.072	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Pyrene	**2.8**		0.072	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
1,2,4-Trichlorobenzene	<0.052		0.36	0.052	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
1,3-Dichlorobenzene	<0.033		0.36	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2,4,5-Trichlorophenol	<0.027		0.72	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2,4,6-Trichlorophenol	<0.025		0.72	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2,4-Dichlorophenol	<0.026		0.72	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2,4-Dimethylphenol	<0.16		0.72	0.16	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2,6-Dinitrotoluene	<0.025		0.36	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2-Methylnaphthalene	**0.023**	**J**	0.15	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2-Nitroaniline	<0.039		0.36	0.039	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
2-Nitrophenol	<0.049		0.72	0.049	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
3,3'-Dichlorobenzidine	<0.059		0.36	0.059	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
3 & 4 Methylphenol	<0.053		0.36	0.053	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
3-Nitroaniline	<0.033		0.72	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
4-Chloro-3-methylphenol	<0.028		0.72	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
4-Chloroaniline	<0.76		1.5	0.76	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
4-Chlorophenyl phenyl ether	<0.095		0.36	0.095	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
4-Nitroaniline	<0.053		0.72	0.053	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
bis(chloroisopropyl) ether	<0.052		0.36	0.052	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Carbazole	**0.17**	**J**	0.36	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Dibenzofuran	**0.041**	**J**	0.36	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Di-n-octyl phthalate	<0.51		0.72	0.51	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Hexachlorobutadiene	<0.041		0.36	0.041	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB38 (0-3)
Lab Sample ID: 500-256166-15
Date Collected: 09/04/24 10:11
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.77		1.5	0.77	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Nitrobenzene	<0.023		0.072	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
N-Nitrosodiphenylamine	<0.043		0.36	0.043	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/17/24 07:52	09/17/24 19:29	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*44*		*31 - 166*	*09/17/24 07:52*	*09/17/24 19:29*	*2*
Phenol-d5 (Surr)	*49*		*30 - 153*	*09/17/24 07:52*	*09/17/24 19:29*	*2*
Nitrobenzene-d5 (Surr)	*46*		*37 - 147*	*09/17/24 07:52*	*09/17/24 19:29*	*2*
2-Fluorobiphenyl (Surr)	*50*		*43 - 145*	*09/17/24 07:52*	*09/17/24 19:29*	*2*
2,4,6-Tribromophenol (Surr)	*45*		*31 - 143*	*09/17/24 07:52*	*09/17/24 19:29*	*2*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*09/17/24 07:52*	*09/17/24 19:29*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
alpha-BHC	<0.0098		0.018	0.0098	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
alpha-Chlordane	<0.0093		0.018	0.0093	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
delta-BHC	<0.0083		0.018	0.0083	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Endosulfan I	<0.0094		0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Endosulfan II	<0.0095		0.018	0.0095	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Endosulfan sulfate	<0.0096		0.018	0.0096	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Endrin aldehyde	<0.0099		0.018	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Heptachlor	<0.0094		0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Methoxychlor	<0.011		0.086	0.011	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/16/24 16:28	09/21/24 15:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*476*	*S1+*	*33 - 148*	*09/16/24 16:28*	*09/21/24 15:57*	*10*
Tetrachloro-m-xylene	*56*		*30 - 121*	*09/16/24 16:28*	*09/21/24 15:57*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 18:49	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 18:49	10

Client Sample ID: SB38 (0-3)
Date Collected: 09/04/24 10:11
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-15
Matrix: Solid
Percent Solids: 91.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 18:49	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 18:49	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 18:49	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 18:49	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 18:49	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 18:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*09/16/24 16:28*	*09/23/24 18:49*	*10*
DCB Decachlorobiphenyl	*120*		*37 - 121*	*09/16/24 16:28*	*09/23/24 18:49*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17000**		18		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Antimony	**2.3**		1.8		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Arsenic	**5.7**		0.92		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Barium	**190**		0.92		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Beryllium	**3.6**		1.8		mg/Kg	☼	09/17/24 16:18	09/19/24 17:48	5
Cadmium	**1.9**		0.18		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Calcium	**120000**		92		mg/Kg	☼	09/17/24 16:18	09/19/24 17:48	5
Chromium	**310**		4.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:48	5
Cobalt	**6.3**		0.46		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Copper	**51**		0.92		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Iron	**42000**		18		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Lead	**100**		0.46		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Magnesium	**21000**		9.2		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Manganese	**6800**		4.6		mg/Kg	☼	09/17/24 16:18	09/20/24 13:17	5
Nickel	**150**		0.92		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Potassium	**670**		46		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Selenium	**3.7**		0.92		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Silver	<0.46		0.46		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Sodium	**420**		92		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Thallium	<4.6		4.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:48	5
Vanadium	**34**		0.46		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1
Zinc	**150**		1.8		mg/Kg	☼	09/17/24 16:18	09/18/24 23:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**36**		2.6		mg/Kg	☼	09/09/24 11:02	09/09/24 16:42	10
pH (SW846 9045D)	**8.88**		0.20		SU			09/10/24 14:16	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB38 (12.5-15)
Lab Sample ID: 500-256166-16
Date Collected: 09/04/24 10:14
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00089		0.0022	0.00089	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
1,1,2-Trichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
1,1-Dichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
1,1-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
1,2-Dichloroethane	<0.0014		0.0055	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
2-Hexanone	<0.0033		0.0055	0.0033	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0055	0.0039	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Acetone	<0.0092		0.022	0.0092	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Benzene	<0.00069		0.0022	0.00069	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Bromodichloromethane	<0.00070		0.0022	0.00070	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Bromomethane	<0.0027		0.0055	0.0027	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Carbon disulfide	<0.0010		0.0055	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Carbon tetrachloride	<0.00075		0.0022	0.00075	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Chlorobenzene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Chloroethane	<0.0018		0.0055	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
cis-1,2-Dichloroethene	<0.00088		0.0022	0.00088	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Methyl tert-butyl ether	<0.00071		0.0022	0.00071	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Methylene Chloride	<0.0023		0.0055	0.0023	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Styrene	<0.00099		0.0022	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Xylenes, Total	<0.00075		0.0044	0.00075	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
trans-1,2-Dichloroethene	<0.00083		0.0022	0.00083	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Trichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1
Vinyl chloride	<0.00089		0.0022	0.00089	mg/Kg	☼	09/05/24 18:07	09/12/24 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*09/05/24 18:07*	*09/12/24 00:37*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*09/05/24 18:07*	*09/12/24 00:37*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/05/24 18:07*	*09/12/24 00:37*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*09/05/24 18:07*	*09/12/24 00:37*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1.0**		0.035	0.0071	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Acenaphthylene	**0.029**	**J**	0.035	0.0059	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Anthracene	**1.8**		0.035	0.0071	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Benzo[a]anthracene	**4.9**		0.035	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Benzo[a]pyrene	**4.5**		0.035	0.034	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Benzo[b]fluoranthene	**6.0**		0.035	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Benzo[g,h,i]perylene	**2.0**		0.035	0.0076	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB38 (12.5-15)
Lab Sample ID: 500-256166-16
Date Collected: 09/04/24 10:14
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**2.3**		0.035	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Chrysene	**5.0**		0.035	0.0092	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Dibenz(a,h)anthracene	**0.64**		0.035	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Fluorene	**0.81**		0.035	0.010	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Indeno[1,2,3-cd]pyrene	**2.4**		0.035	0.034	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Naphthalene	**0.11**		0.035	0.0063	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Phenanthrene	**6.5**		0.035	0.0076	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Pyrene	**8.4**		0.035	0.0095	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2,4-Dimethylphenol	<0.078		0.35	0.078	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2,4-Dinitrophenol	<0.20		0.71	0.20	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2-Methylnaphthalene	**0.14**		0.071	0.0070	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2-Methylphenol	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
4,6-Dinitro-2-methylphenol	<0.20		0.71	0.20	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
4-Chloroaniline	<0.37		0.71	0.37	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
4-Nitrophenol	<0.13		0.71	0.13	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Butyl benzyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Carbazole	**0.65**		0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Dibenzofuran	**0.36**		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Dimethyl phthalate	<0.0076		0.18	0.0076	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Di-n-octyl phthalate	<0.24		0.35	0.24	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Hexachlorobenzene	<0.0067		0.071	0.0067	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Hexachlorocyclopentadiene	<0.37		0.71	0.37	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1

Client Sample ID: SB38 (12.5-15)
Lab Sample ID: 500-256166-16
Date Collected: 09/04/24 10:14
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
N-Nitrosodi-n-propylamine	<0.0069		0.071	0.0069	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Pentachlorophenol	<0.087		0.71	0.087	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*67*		*31 - 166*	*09/17/24 07:52*	*09/17/24 19:53*	*1*
Phenol-d5 (Surr)	*69*		*30 - 153*	*09/17/24 07:52*	*09/17/24 19:53*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*09/17/24 07:52*	*09/17/24 19:53*	*1*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/17/24 07:52*	*09/17/24 19:53*	*1*
2,4,6-Tribromophenol (Surr)	*56*		*31 - 143*	*09/17/24 07:52*	*09/17/24 19:53*	*1*
Terphenyl-d14 (Surr)	*75*		*42 - 157*	*09/17/24 07:52*	*09/17/24 19:53*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**11**		0.70	0.16	mg/Kg	☼	09/17/24 07:52	09/18/24 16:02	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*0*	*S1-*	*31 - 166*	*09/17/24 07:52*	*09/18/24 16:02*	*20*
Phenol-d5 (Surr)	*0*	*S1-*	*30 - 153*	*09/17/24 07:52*	*09/18/24 16:02*	*20*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*37 - 147*	*09/17/24 07:52*	*09/18/24 16:02*	*20*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*43 - 145*	*09/17/24 07:52*	*09/18/24 16:02*	*20*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/17/24 07:52*	*09/18/24 16:02*	*20*
Terphenyl-d14 (Surr)	*0*	*S1-*	*42 - 157*	*09/17/24 07:52*	*09/18/24 16:02*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
Chlordane (technical)	<0.033		0.068	0.033	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
delta-BHC	<0.0082		0.017	0.0082	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
Endosulfan II	<0.0094		0.017	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
Endosulfan sulfate	<0.0095		0.017	0.0095	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
Endrin aldehyde	<0.0098		0.017	0.0098	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
Heptachlor	<0.0093		0.017	0.0093	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB38 (12.5-15)
Lab Sample ID: 500-256166-16
Date Collected: 09/04/24 10:14
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/16/24 16:28	09/21/24 16:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*294*	*S1+*	*33 - 148*	*09/16/24 16:28*	*09/21/24 16:09*	*10*
Tetrachloro-m-xylene	*69*		*30 - 121*	*09/16/24 16:28*	*09/21/24 16:09*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:04	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:04	10
PCB-1232	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:04	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:04	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:04	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:04	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:04	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*49 - 129*	*09/16/24 16:28*	*09/23/24 19:04*	*10*
DCB Decachlorobiphenyl	*83*		*37 - 121*	*09/16/24 16:28*	*09/23/24 19:04*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4900**		20		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Antimony	<2.0		2.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Arsenic	**3.9**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Barium	**40**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Beryllium	<2.0		2.0		mg/Kg	☼	09/17/24 16:18	09/19/24 17:52	5
Cadmium	<0.20		0.20		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Calcium	**15000**		20		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Chromium	**12**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Cobalt	**3.4**		0.50		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Copper	**24**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Iron	**17000**		20		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Lead	**19**		0.50		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Magnesium	**2600**		10		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Manganese	**1900**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Nickel	**7.5**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Potassium	**400**		50		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Selenium	**1.4**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Silver	<0.50		0.50		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Sodium	**180**		100		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Thallium	**6.7**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Vanadium	**25**		0.50		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1
Zinc	**50**		2.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 09:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB38 (12.5-15)
Lab Sample ID: 500-256166-16
Date Collected: 09/04/24 10:14
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	3.1		0.24		mg/Kg	☼	09/09/24 11:02	09/09/24 15:18	1
Sulfide (SW846 9034)	320		33		mg/Kg	☼	09/11/24 08:43	09/11/24 13:09	1
pH (SW846 9045D)	7.95		0.20		SU			09/10/24 14:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB39 (0-3)
Lab Sample ID: 500-256166-17
Date Collected: 09/04/24 10:30
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00095		0.0023	0.00095	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0023	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
1,1,2-Trichloroethane	<0.00087		0.0023	0.00087	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
1,1-Dichloroethane	<0.00088		0.0023	0.00088	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
1,1-Dichloroethene	<0.00096		0.0023	0.00096	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
1,2-Dichloroethane	<0.0015		0.0058	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
1,2-Dichloropropane	<0.00060		0.0023	0.00060	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
2-Butanone (MEK)	<0.0026		0.0058	0.0026	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
2-Hexanone	<0.0035		0.0058	0.0035	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0058	0.0042	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Acetone	**0.030**		0.023	0.0098	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Benzene	<0.00073		0.0023	0.00073	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Bromodichloromethane	<0.00075		0.0023	0.00075	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Bromoform	<0.0014		0.0023	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Bromomethane	<0.0029		0.0058	0.0029	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Carbon disulfide	**0.0022**	**J**	0.0058	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Carbon tetrachloride	<0.00080		0.0023	0.00080	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Chlorobenzene	<0.00099		0.0023	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Chloroethane	<0.0019		0.0058	0.0019	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Chloroform	<0.0017		0.0023	0.0017	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Chloromethane	<0.0011		0.0058	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
cis-1,2-Dichloroethene	<0.00094		0.0023	0.00094	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Methyl tert-butyl ether	<0.00075		0.0023	0.00075	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Methylene Chloride	<0.0025		0.0058	0.0025	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Styrene	<0.0011		0.0023	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Toluene	<0.00047		0.0023	0.00047	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Xylenes, Total	<0.00080		0.0047	0.00080	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
trans-1,2-Dichloroethene	<0.00088		0.0023	0.00088	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Trichloroethene	<0.00064		0.0023	0.00064	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1
Vinyl chloride	<0.00095		0.0023	0.00095	mg/Kg	☼	09/05/24 18:07	09/12/24 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*09/05/24 18:07*	*09/12/24 01:01*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*09/05/24 18:07*	*09/12/24 01:01*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*09/05/24 18:07*	*09/12/24 01:01*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*09/05/24 18:07*	*09/12/24 01:01*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.91**		0.071	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Acenaphthylene	**0.085**		0.071	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Anthracene	**2.5**		0.071	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Benzo[a]anthracene	**9.3**		0.071	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Benzo[a]pyrene	**9.4**		0.071	0.069	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Benzo[b]fluoranthene	**13**		0.071	0.068	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Benzo[g,h,i]perylene	**4.8**		0.071	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB39 (0-3)
Lab Sample ID: 500-256166-17
Date Collected: 09/04/24 10:30
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**4.9**		0.071	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Chrysene	**9.8**		0.071	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Dibenz(a,h)anthracene	**1.4**		0.071	0.071	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Fluoranthene	**19**		0.071	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Fluorene	**0.80**		0.071	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Indeno[1,2,3-cd]pyrene	**5.4**		0.071	0.070	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Naphthalene	**0.10**		0.071	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Phenanthrene	**9.1**		0.071	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Pyrene	**16**		0.071	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2-Methylnaphthalene	**0.076**	**J**	0.14	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
2-Nitrophenol	<0.048		0.71	0.048	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
3-Nitroaniline	<0.032		0.71	0.032	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Carbazole	**1.3**		0.36	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Dibenzofuran	**0.36**		0.36	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2

Client Sample ID: SB39 (0-3)
Lab Sample ID: 500-256166-17
Date Collected: 09/04/24 10:30
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76		1.4	0.76	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/17/24 07:52	09/17/24 20:17	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*31 - 166*	*09/17/24 07:52*	*09/17/24 20:17*	*2*
Phenol-d5 (Surr)	*52*		*30 - 153*	*09/17/24 07:52*	*09/17/24 20:17*	*2*
Nitrobenzene-d5 (Surr)	*53*		*37 - 147*	*09/17/24 07:52*	*09/17/24 20:17*	*2*
2-Fluorobiphenyl (Surr)	*59*		*43 - 145*	*09/17/24 07:52*	*09/17/24 20:17*	*2*
2,4,6-Tribromophenol (Surr)	*7*	*S1-*	*31 - 143*	*09/17/24 07:52*	*09/17/24 20:17*	*2*
Terphenyl-d14 (Surr)	*73*		*42 - 157*	*09/17/24 07:52*	*09/17/24 20:17*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0098		0.018	0.0098	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
4,4'-DDE	<0.0094		0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
4,4'-DDT	<0.0087		0.018	0.0087	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
alpha-Chlordane	<0.0098		0.018	0.0098	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
delta-BHC	<0.0088		0.018	0.0088	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Dieldrin	<0.0096		0.018	0.0096	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Endosulfan I	<0.0099		0.018	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Endosulfan II	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Endrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Endrin ketone	<0.0089		0.018	0.0089	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
gamma-BHC (Lindane)	<0.0091		0.018	0.0091	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
gamma-Chlordane	<0.011		0.018	0.011	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Heptachlor	<0.0099		0.018	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Heptachlor epoxide	<0.0099		0.018	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Methoxychlor	<0.012		0.090	0.012	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10
Toxaphene	<0.073		0.18	0.073	mg/Kg	☼	09/16/24 16:28	09/21/24 16:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*1950*	*S1+*	*33 - 148*	*09/16/24 16:28*	*09/21/24 16:20*	*10*
Tetrachloro-m-xylene	*87*		*30 - 121*	*09/16/24 16:28*	*09/21/24 16:20*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.91		0.91		mg/Kg	☼	09/16/24 16:28	09/26/24 13:38	50
PCB-1221	<0.91		0.91		mg/Kg	☼	09/16/24 16:28	09/26/24 13:38	50

Client Sample ID: SB39 (0-3)
Lab Sample ID: 500-256166-17

Date Collected: 09/04/24 10:30
Matrix: Solid

Date Received: 09/05/24 11:17
Percent Solids: 91.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.91		0.91		mg/Kg	☼	09/16/24 16:28	09/26/24 13:38	50
PCB-1242	<0.91		0.91		mg/Kg	☼	09/16/24 16:28	09/26/24 13:38	50
PCB-1248	<0.91		0.91		mg/Kg	☼	09/16/24 16:28	09/26/24 13:38	50
PCB-1254	**8.5**		0.91		mg/Kg	☼	09/16/24 16:28	09/26/24 13:38	50
PCB-1260	<0.91		0.91		mg/Kg	☼	09/16/24 16:28	09/26/24 13:38	50
Polychlorinated biphenyls, Total	**8.5**		0.91		mg/Kg	☼	09/16/24 16:28	09/26/24 13:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/16/24 16:28*	*09/26/24 13:38*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/16/24 16:28*	*09/26/24 13:38*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		19		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Antimony	<1.9		1.9		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Arsenic	**2.9**		0.93		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Barium	**130**		0.93		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Beryllium	<1.9		1.9		mg/Kg	☼	09/17/24 16:18	09/19/24 17:57	5
Cadmium	**0.82**		0.19		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Calcium	**130000**		93		mg/Kg	☼	09/17/24 16:18	09/19/24 17:57	5
Chromium	**390**		4.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:57	5
Cobalt	**4.1**		0.46		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Copper	**290**		4.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:57	5
Iron	**37000**		19		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Lead	**90**		0.46		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Magnesium	**24000**		9.3		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Manganese	**5900**		4.6		mg/Kg	☼	09/17/24 16:18	09/20/24 13:26	5
Nickel	**69**		0.93		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Potassium	**600**		46		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Selenium	**3.2**		0.93		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Silver	<0.46		0.46		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Sodium	**340**		93		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Thallium	<4.6		4.6		mg/Kg	☼	09/17/24 16:18	09/19/24 17:57	5
Vanadium	**64**		0.46		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1
Zinc	**200**		1.9		mg/Kg	☼	09/17/24 16:18	09/18/24 23:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**7.8**		0.24		mg/Kg	☼	09/09/24 11:02	09/09/24 15:24	1
pH (SW846 9045D)	**10.74**		0.20		SU			09/10/24 14:23	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB39 (7.5-10)
Lab Sample ID: 500-256166-18
Date Collected: 09/04/24 10:41
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00086		0.0021	0.00086	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0021	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
1,1,2-Trichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
1,1-Dichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
1,1-Dichloroethene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
1,2-Dichloroethane	<0.0014		0.0053	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
2-Butanone (MEK)	**0.0038**	**J**	0.0053	0.0023	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
2-Hexanone	<0.0032		0.0053	0.0032	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0053	0.0038	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Acetone	**0.040**		0.021	0.0090	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Benzene	<0.00067		0.0021	0.00067	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Bromodichloromethane	<0.00069		0.0021	0.00069	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Bromomethane	<0.0026		0.0053	0.0026	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Carbon disulfide	**0.0030**	**J**	0.0053	0.00098	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Carbon tetrachloride	<0.00073		0.0021	0.00073	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Chlorobenzene	<0.00090		0.0021	0.00090	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Chloroethane	<0.0018		0.0053	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Chloromethane	<0.0010		0.0053	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
cis-1,2-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Dibromochloromethane	<0.00099		0.0021	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Methyl tert-butyl ether	<0.00069		0.0021	0.00069	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Methylene Chloride	<0.0023		0.0053	0.0023	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Styrene	<0.00096		0.0021	0.00096	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Toluene	**0.00055**	**J**	0.0021	0.00043	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Xylenes, Total	<0.00073		0.0043	0.00073	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
trans-1,2-Dichloroethene	<0.00081		0.0021	0.00081	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Trichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1
Vinyl chloride	<0.00087		0.0021	0.00087	mg/Kg	☼	09/05/24 18:07	09/12/24 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*09/05/24 18:07*	*09/12/24 01:25*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*09/05/24 18:07*	*09/12/24 01:25*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*09/05/24 18:07*	*09/12/24 01:25*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*09/05/24 18:07*	*09/12/24 01:25*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.096**		0.036	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Acenaphthylene	**0.028**	**J**	0.036	0.0062	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Anthracene	**0.24**		0.036	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Benzo[a]anthracene	**0.85**		0.036	0.0077	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Benzo[a]pyrene	**0.84**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Benzo[b]fluoranthene	**1.3**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Benzo[g,h,i]perylene	**0.50**		0.036	0.0079	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB39 (7.5-10)
Lab Sample ID: 500-256166-18
Date Collected: 09/04/24 10:41
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.52**		0.036	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Chrysene	**0.93**		0.036	0.0096	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Dibenz(a,h)anthracene	**0.15**		0.036	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Fluoranthene	**1.8**		0.036	0.0084	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Fluorene	**0.080**		0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Indeno[1,2,3-cd]pyrene	**0.57**		0.036	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Naphthalene	**0.025**	**J**	0.036	0.0066	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Phenanthrene	**0.95**		0.036	0.0079	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Pyrene	**1.5**		0.036	0.0099	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2,4-Dimethylphenol	<0.081		0.36	0.081	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2-Methylnaphthalene	**0.024**	**J**	0.073	0.0073	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Carbazole	**0.13**	**J**	0.18	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Dibenzofuran	**0.049**	**J**	0.18	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Dimethyl phthalate	<0.0079		0.18	0.0079	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Hexachlorobenzene	<0.0070		0.073	0.0070	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1

Client Sample ID: SB39 (7.5-10) | **Lab Sample ID: 500-256166-18**
Date Collected: 09/04/24 10:41 | **Matrix: Solid**
Date Received: 09/05/24 11:17 | **Percent Solids: 91.2**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.73	0.39	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
N-Nitrosodi-n-propylamine	<0.0072		0.073	0.0072	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Pentachlorophenol	<0.091		0.73	0.091	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1
Phenol	**0.099**	**J**	0.18	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*42*		*31 - 166*	*09/17/24 07:52*	*09/17/24 20:42*	*1*
Phenol-d5 (Surr)	*65*		*30 - 153*	*09/17/24 07:52*	*09/17/24 20:42*	*1*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*09/17/24 07:52*	*09/17/24 20:42*	*1*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/17/24 07:52*	*09/17/24 20:42*	*1*
2,4,6-Tribromophenol (Surr)	*6*	*S1-*	*31 - 143*	*09/17/24 07:52*	*09/17/24 20:42*	*1*
Terphenyl-d14 (Surr)	*79*		*42 - 157*	*09/17/24 07:52*	*09/17/24 20:42*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
alpha-BHC	<0.0098		0.018	0.0098	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
alpha-Chlordane	<0.0093		0.018	0.0093	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
delta-BHC	<0.0083		0.018	0.0083	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Endosulfan I	<0.0094		0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Endosulfan sulfate	<0.0096		0.018	0.0096	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Endrin aldehyde	<0.0099		0.018	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Heptachlor	<0.0094		0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Methoxychlor	<0.011		0.086	0.011	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/16/24 16:28	09/21/24 16:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*247*	*S1+*	*33 - 148*	*09/16/24 16:28*	*09/21/24 16:32*	*10*
Tetrachloro-m-xylene	*60*		*30 - 121*	*09/16/24 16:28*	*09/21/24 16:32*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:35	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:35	10

Client Sample ID: SB39 (7.5-10)
Lab Sample ID: 500-256166-18
Date Collected: 09/04/24 10:41
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:35	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:35	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:35	10
PCB-1254	**3.0**		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:35	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:35	10
Polychlorinated biphenyls, Total	**3.0**		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*49 - 129*	*09/16/24 16:28*	*09/23/24 19:35*	*10*
DCB Decachlorobiphenyl	*89*		*37 - 121*	*09/16/24 16:28*	*09/23/24 19:35*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		21		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Antimony	<2.1		2.1		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Arsenic	**2.1**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Barium	**130**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Beryllium	**2.6**		2.1		mg/Kg	☼	09/17/24 16:18	09/19/24 18:01	5
Cadmium	**0.26**		0.21		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Calcium	**180000**		100		mg/Kg	☼	09/17/24 16:18	09/19/24 18:01	5
Chromium	**81**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Cobalt	**2.8**		0.52		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Copper	**80**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Iron	**18000**		21		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Lead	**23**		0.52		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Magnesium	**32000**		10		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Manganese	**3300**		5.2		mg/Kg	☼	09/17/24 16:18	09/20/24 13:39	5
Nickel	**31**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Potassium	**850**		52		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Selenium	**1.7**		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Silver	<0.52		0.52		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Sodium	**470**		100		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Thallium	<5.2		5.2		mg/Kg	☼	09/17/24 16:18	09/19/24 18:01	5
Vanadium	**16**		0.52		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1
Zinc	**61**		2.1		mg/Kg	☼	09/17/24 16:18	09/18/24 23:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**10**		0.24		mg/Kg	☼	09/09/24 11:02	09/09/24 15:26	1
pH (SW846 9045D)	**11.32**		0.20		SU			09/10/24 14:25	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB40 (0-3)
Lab Sample ID: 500-256166-19
Date Collected: 09/04/24 10:52
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 94.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00083		0.0021	0.00083	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0021	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
1,1,2-Trichloroethane	<0.00077		0.0021	0.00077	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
1,1-Dichloroethane	<0.00077		0.0021	0.00077	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
1,1-Dichloroethene	<0.00085		0.0021	0.00085	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
1,2-Dichloroethane	<0.0013		0.0051	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
1,2-Dichloropropane	<0.00053		0.0021	0.00053	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
2-Butanone (MEK)	<0.0023		0.0051	0.0023	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
2-Hexanone	<0.0031		0.0051	0.0031	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0051	0.0037	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Acetone	**0.0090**	**J**	0.021	0.0086	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Benzene	<0.00065		0.0021	0.00065	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Bromodichloromethane	<0.00066		0.0021	0.00066	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Bromomethane	<0.0025		0.0051	0.0025	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Carbon disulfide	<0.00095		0.0051	0.00095	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Carbon tetrachloride	<0.00070		0.0021	0.00070	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Chlorobenzene	<0.00087		0.0021	0.00087	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Chloroethane	<0.0017		0.0051	0.0017	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Chloromethane	<0.0010		0.0051	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
cis-1,2-Dichloroethene	<0.00083		0.0021	0.00083	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
1,3-Dichloropropene, Total	<0.00099		0.0021	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Dibromochloromethane	<0.00095		0.0021	0.00095	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Methyl tert-butyl ether	<0.00066		0.0021	0.00066	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Methylene Chloride	<0.0022		0.0051	0.0022	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Styrene	<0.00093		0.0021	0.00093	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Toluene	<0.00041		0.0021	0.00041	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Xylenes, Total	<0.00071		0.0041	0.00071	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
trans-1,2-Dichloroethene	<0.00078		0.0021	0.00078	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Trichloroethene	<0.00056		0.0021	0.00056	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1
Vinyl chloride	<0.00084		0.0021	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*09/05/24 18:07*	*09/12/24 01:49*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*09/05/24 18:07*	*09/12/24 01:49*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/05/24 18:07*	*09/12/24 01:49*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/05/24 18:07*	*09/12/24 01:49*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.25**		0.068	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Acenaphthylene	**0.021**	**J**	0.068	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Anthracene	**0.57**		0.068	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Benzo[a]anthracene	**2.3**		0.068	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Benzo[a]pyrene	**2.4**		0.068	0.066	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Benzo[b]fluoranthene	**3.3**		0.068	0.065	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Benzo[g,h,i]perylene	**1.2**		0.068	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB40 (0-3)
Lab Sample ID: 500-256166-19
Date Collected: 09/04/24 10:52
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 94.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.2**		0.068	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Chrysene	**2.5**		0.068	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Dibenz(a,h)anthracene	**0.34**		0.068	0.068	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Fluoranthene	**4.9**		0.068	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Fluorene	**0.19**		0.068	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Indeno[1,2,3-cd]pyrene	**1.4**		0.068	0.066	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Naphthalene	**0.058**	**J**	0.068	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Phenanthrene	**2.2**		0.068	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Pyrene	**4.1**		0.068	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
1,2,4-Trichlorobenzene	<0.049		0.34	0.049	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
1,2-Dichlorobenzene	<0.028		0.34	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
1,3-Dichlorobenzene	<0.031		0.34	0.031	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
1,4-Dichlorobenzene	<0.032		0.34	0.032	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2,4,5-Trichlorophenol	<0.026		0.68	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2,4,6-Trichlorophenol	<0.023		0.68	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2,4-Dichlorophenol	<0.024		0.68	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2,4-Dimethylphenol	<0.15		0.68	0.15	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2,4-Dinitrophenol	<0.39		1.4	0.39	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2,4-Dinitrotoluene	<0.039		0.34	0.039	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2,6-Dinitrotoluene	<0.023		0.34	0.023	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2-Chloronaphthalene	<0.025		0.34	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2-Chlorophenol	<0.022		0.34	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2-Methylnaphthalene	**0.043**	**J**	0.14	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2-Methylphenol	**0.051**	**J**	0.34	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2-Nitroaniline	<0.036		0.34	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
2-Nitrophenol	<0.046		0.68	0.046	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
3,3'-Dichlorobenzidine	<0.055		0.34	0.055	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
3 & 4 Methylphenol	<0.050		0.34	0.050	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
3-Nitroaniline	<0.031		0.68	0.031	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
4,6-Dinitro-2-methylphenol	<0.38		1.4	0.38	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
4-Bromophenyl phenyl ether	<0.046		0.34	0.046	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
4-Chloro-3-methylphenol	<0.026		0.68	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
4-Chloroaniline	<0.71		1.4	0.71	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
4-Chlorophenyl phenyl ether	<0.089		0.34	0.089	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
4-Nitroaniline	<0.050		0.68	0.050	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
4-Nitrophenol	<0.25		1.4	0.25	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Bis(2-chloroethoxy)methane	<0.025		0.34	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Bis(2-chloroethyl)ether	<0.031		0.34	0.031	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
bis(chloroisopropyl) ether	<0.049		0.34	0.049	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Bis(2-ethylhexyl) phthalate	<0.27		0.34	0.27	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Butyl benzyl phthalate	<0.034		0.34	0.034	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Carbazole	**0.32**	**J**	0.34	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Dibenzofuran	**0.095**	**J**	0.34	0.024	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Diethyl phthalate	<0.031		0.34	0.031	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Dimethyl phthalate	<0.015		0.34	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Di-n-butyl phthalate	<0.022		0.34	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Di-n-octyl phthalate	<0.48		0.68	0.48	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Hexachlorobutadiene	<0.038		0.34	0.038	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB40 (0-3)
Lab Sample ID: 500-256166-19
Date Collected: 09/04/24 10:52
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 94.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.72		1.4	0.72	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Hexachloroethane	<0.034		0.34	0.034	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Isophorone	<0.035		0.34	0.035	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Nitrobenzene	<0.022		0.068	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
N-Nitrosodi-n-propylamine	<0.013		0.14	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
N-Nitrosodiphenylamine	<0.040		0.34	0.040	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2
Phenol	**0.17**	**J**	0.34	0.029	mg/Kg	☼	09/17/24 07:52	09/17/24 21:06	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*48*		*31 - 166*	*09/17/24 07:52*	*09/17/24 21:06*	*2*
Phenol-d5 (Surr)	*50*		*30 - 153*	*09/17/24 07:52*	*09/17/24 21:06*	*2*
Nitrobenzene-d5 (Surr)	*53*		*37 - 147*	*09/17/24 07:52*	*09/17/24 21:06*	*2*
2-Fluorobiphenyl (Surr)	*54*		*43 - 145*	*09/17/24 07:52*	*09/17/24 21:06*	*2*
2,4,6-Tribromophenol (Surr)	*40*		*31 - 143*	*09/17/24 07:52*	*09/17/24 21:06*	*2*
Terphenyl-d14 (Surr)	*58*		*42 - 157*	*09/17/24 07:52*	*09/17/24 21:06*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
alpha-Chlordane	<0.0093		0.017	0.0093	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
delta-BHC	<0.0083		0.017	0.0083	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Endosulfan I	<0.0094		0.017	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Endosulfan II	<0.0095		0.017	0.0095	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Endosulfan sulfate	<0.0096		0.017	0.0096	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Endrin aldehyde	<0.0099		0.017	0.0099	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
gamma-Chlordane	<0.010		0.017	0.010	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Heptachlor	<0.0094		0.017	0.0094	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/16/24 16:28	09/21/24 16:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*850*	*S1+*	*33 - 148*	*09/16/24 16:28*	*09/21/24 16:44*	*10*
Tetrachloro-m-xylene	*60*		*30 - 121*	*09/16/24 16:28*	*09/21/24 16:44*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:50	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:50	10

Client Sample ID: SB40 (0-3)
Lab Sample ID: 500-256166-19
Date Collected: 09/04/24 10:52
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 94.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:50	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:50	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:50	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:50	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:50	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 19:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*53*		*49 - 129*	*09/16/24 16:28*	*09/23/24 19:50*	*10*
DCB Decachlorobiphenyl	*122*	*S1+*	*37 - 121*	*09/16/24 16:28*	*09/23/24 19:50*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6800**		20		mg/Kg	☼	09/17/24 16:18	09/18/24 23:22	1
Antimony	<2.0		2.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:22	1
Arsenic	<1.0		1.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:22	1
Barium	**140**		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 18:06	5
Beryllium	<2.0		2.0		mg/Kg	☼	09/17/24 16:18	09/19/24 18:06	5
Cadmium	**1.8**		1.0		mg/Kg	☼	09/17/24 16:18	09/19/24 18:06	5
Calcium	**54000**		20		mg/Kg	☼	09/17/24 16:18	09/18/24 23:22	1
Chromium	**540**		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 18:06	5
Cobalt	**9.0**		0.51		mg/Kg	☼	09/17/24 16:18	09/18/24 23:22	1
Copper	**260**		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 18:06	5
Iron	**210000**		100		mg/Kg	☼	09/17/24 16:18	09/19/24 18:06	5
Lead	**140**		2.5		mg/Kg	☼	09/17/24 16:18	09/19/24 18:06	5
Magnesium	**10000**		10		mg/Kg	☼	09/17/24 16:18	09/18/24 23:22	1
Manganese	**8600**		5.1		mg/Kg	☼	09/17/24 16:18	09/20/24 13:43	5
Nickel	**250**		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 18:06	5
Potassium	**330**		51		mg/Kg	☼	09/17/24 16:18	09/18/24 23:22	1
Selenium	**6.5**		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 18:06	5
Silver	<2.5		2.5		mg/Kg	☼	09/17/24 16:18	09/19/24 18:06	5
Sodium	**370**		100		mg/Kg	☼	09/17/24 16:18	09/18/24 23:22	1
Thallium	<5.1		5.1		mg/Kg	☼	09/17/24 16:18	09/19/24 18:06	5
Vanadium	**150**		2.5		mg/Kg	☼	09/17/24 16:18	09/19/24 18:06	5
Zinc	**210**		2.0		mg/Kg	☼	09/17/24 16:18	09/18/24 23:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.19**		0.015		mg/Kg	☼	09/19/24 17:20	09/20/24 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.8**		0.25		mg/Kg	☼	09/09/24 11:02	09/09/24 15:27	1
pH (SW846 9045D)	**8.66**		0.20		SU			09/10/24 14:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB40 (5-7.5)
Lab Sample ID: 500-256166-20
Date Collected: 09/04/24 11:12
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 87.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00093		0.0023	0.00093	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
1,1,2-Trichloroethane	<0.00086		0.0023	0.00086	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
1,1-Dichloroethane	<0.00086		0.0023	0.00086	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
1,1-Dichloroethene	<0.00094		0.0023	0.00094	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
1,2-Dichloroethane	<0.0015		0.0057	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
1,2-Dichloropropane	<0.00059		0.0023	0.00059	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
2-Butanone (MEK)	<0.0025		0.0057	0.0025	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
2-Hexanone	<0.0035		0.0057	0.0035	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0057	0.0041	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Acetone	**0.016**	**J**	0.023	0.0096	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Benzene	<0.00072		0.0023	0.00072	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Bromodichloromethane	<0.00074		0.0023	0.00074	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Bromomethane	<0.0028		0.0057	0.0028	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Carbon disulfide	**0.0037**	**J**	0.0057	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Carbon tetrachloride	<0.00078		0.0023	0.00078	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Chlorobenzene	<0.00097		0.0023	0.00097	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Chloroethane	<0.0019		0.0057	0.0019	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Chloroform	<0.0016		0.0023	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Chloromethane	<0.0011		0.0057	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
cis-1,2-Dichloroethene	<0.00092		0.0023	0.00092	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Methyl tert-butyl ether	<0.00074		0.0023	0.00074	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Methylene Chloride	<0.0024		0.0057	0.0024	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Toluene	<0.00046		0.0023	0.00046	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Xylenes, Total	<0.00079		0.0046	0.00079	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
trans-1,2-Dichloroethene	<0.00087		0.0023	0.00087	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Trichloroethene	<0.00062		0.0023	0.00062	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1
Vinyl chloride	<0.00094		0.0023	0.00094	mg/Kg	☼	09/05/24 18:07	09/12/24 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*09/05/24 18:07*	*09/12/24 02:13*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*09/05/24 18:07*	*09/12/24 02:13*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*09/05/24 18:07*	*09/12/24 02:13*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*09/05/24 18:07*	*09/12/24 02:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.094**		0.037	0.0076	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Acenaphthylene	<0.0063		0.037	0.0063	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Anthracene	**0.20**		0.037	0.0076	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Benzo[a]anthracene	**0.53**		0.037	0.0079	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Benzo[a]pyrene	**0.54**		0.037	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Benzo[b]fluoranthene	**0.73**		0.037	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Benzo[g,h,i]perylene	**0.27**		0.037	0.0081	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB40 (5-7.5)
Lab Sample ID: 500-256166-20
Date Collected: 09/04/24 11:12
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 87.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.30**		0.037	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Chrysene	**0.59**		0.037	0.0099	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Dibenz(a,h)anthracene	**0.073**		0.037	0.037	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Fluoranthene	**1.2**		0.037	0.0087	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Fluorene	**0.082**		0.037	0.011	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Indeno[1,2,3-cd]pyrene	**0.32**		0.037	0.036	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Naphthalene	**0.065**		0.037	0.0068	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Phenanthrene	**0.86**		0.037	0.0081	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Pyrene	**0.96**		0.037	0.010	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2,4-Dimethylphenol	**0.12**	**J**	0.37	0.084	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2,4-Dinitrophenol	<0.22		0.75	0.22	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2,4-Dinitrotoluene	<0.021		0.19	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2-Methylnaphthalene	**0.12**		0.075	0.0075	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
3 & 4 Methylphenol	**0.12**	**J**	0.19	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
4,6-Dinitro-2-methylphenol	<0.21		0.75	0.21	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
4-Chloro-3-methylphenol	<0.015		0.37	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
4-Chloroaniline	<0.39		0.75	0.39	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
4-Chlorophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
4-Nitroaniline	<0.028		0.37	0.028	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
4-Nitrophenol	<0.14		0.75	0.14	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Butyl benzyl phthalate	**0.020**	**J**	0.19	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Carbazole	**0.091**	**J**	0.19	0.015	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Dibenzofuran	**0.063**	**J**	0.19	0.013	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Dimethyl phthalate	<0.0081		0.19	0.0081	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Hexachlorobenzene	<0.0072		0.075	0.0072	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB40 (5-7.5)
Lab Sample ID: 500-256166-20
Date Collected: 09/04/24 11:12
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 87.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.40		0.75	0.40	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Isophorone	<0.019		0.19	0.019	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
N-Nitrosodi-n-propylamine	<0.0074		0.075	0.0074	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Pentachlorophenol	<0.094		0.75	0.094	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1
Phenol	**0.81**		0.19	0.016	mg/Kg	☼	09/17/24 07:52	09/17/24 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*65*		*31 - 166*	*09/17/24 07:52*	*09/17/24 21:30*	*1*
Phenol-d5 (Surr)	*66*		*30 - 153*	*09/17/24 07:52*	*09/17/24 21:30*	*1*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/17/24 07:52*	*09/17/24 21:30*	*1*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/17/24 07:52*	*09/17/24 21:30*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*31 - 143*	*09/17/24 07:52*	*09/17/24 21:30*	*1*
Terphenyl-d14 (Surr)	*70*		*42 - 157*	*09/17/24 07:52*	*09/17/24 21:30*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
4,4'-DDE	<0.0097		0.019	0.0097	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
4,4'-DDT	<0.0089		0.019	0.0089	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
Chlordane (technical)	<0.036		0.075	0.036	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
delta-BHC	<0.045		0.095	0.045	mg/Kg	☼	09/16/24 16:28	09/23/24 14:29	50
Dieldrin	<0.0098		0.019	0.0098	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
Endosulfan sulfate	<0.052		0.095	0.052	mg/Kg	☼	09/16/24 16:28	09/23/24 14:29	50
Endrin	<0.0096		0.019	0.0096	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
Endrin ketone	<0.0092		0.019	0.0092	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
gamma-BHC (Lindane)	<0.0094		0.019	0.0094	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
Methoxychlor	<0.012		0.093	0.012	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10
Toxaphene	<0.075		0.19	0.075	mg/Kg	☼	09/16/24 16:28	09/23/24 14:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*156*	*S1+*	*33 - 148*	*09/16/24 16:28*	*09/23/24 14:17*	*10*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/16/24 16:28*	*09/23/24 14:29*	*50*
Tetrachloro-m-xylene	*50*		*30 - 121*	*09/16/24 16:28*	*09/23/24 14:17*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/16/24 16:28*	*09/23/24 14:29*	*50*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB40 (5-7.5)
Lab Sample ID: 500-256166-20
Date Collected: 09/04/24 11:12
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 87.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 20:06	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 20:06	10
PCB-1232	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 20:06	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 20:06	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 20:06	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 20:06	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 20:06	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 20:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*113*		*49 - 129*	*09/16/24 16:28*	*09/23/24 20:06*	*10*
DCB Decachlorobiphenyl	*100*		*37 - 121*	*09/16/24 16:28*	*09/23/24 20:06*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9700**		22		mg/Kg	☼	09/17/24 16:18	09/18/24 23:27	1
Antimony	**2.4**		2.2		mg/Kg	☼	09/17/24 16:18	09/18/24 23:27	1
Arsenic	**12**		5.6		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Barium	**190**		5.6		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Beryllium	<2.2		2.2		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Cadmium	**1.3**		1.1		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Calcium	**60000**		22		mg/Kg	☼	09/17/24 16:18	09/18/24 23:27	1
Chromium	**850**		5.6		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Cobalt	**10**		0.56		mg/Kg	☼	09/17/24 16:18	09/18/24 23:27	1
Copper	**150**		5.6		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Iron	**180000**		110		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Lead	**96**		2.8		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Magnesium	**11000**		11		mg/Kg	☼	09/17/24 16:18	09/18/24 23:27	1
Manganese	**16000**		5.6		mg/Kg	☼	09/17/24 16:18	09/20/24 13:47	5
Nickel	**410**		5.6		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Potassium	**700**		56		mg/Kg	☼	09/17/24 16:18	09/18/24 23:27	1
Selenium	**9.3**		5.6		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Silver	<2.8		2.8		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Sodium	**520**		110		mg/Kg	☼	09/17/24 16:18	09/18/24 23:27	1
Thallium	<5.6		5.6		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Vanadium	**150**		2.8		mg/Kg	☼	09/17/24 16:18	09/19/24 18:10	5
Zinc	**180**		2.2		mg/Kg	☼	09/17/24 16:18	09/18/24 23:27	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**		0.018		mg/Kg	☼	09/19/24 17:20	09/20/24 09:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.2**		0.24		mg/Kg	☼	09/09/24 11:02	09/09/24 15:29	1
pH (SW846 9045D)	**8.66**		0.20		SU			09/10/24 14:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB41 (0-3)
Date Collected: 09/04/24 11:36
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-21
Matrix: Solid
Percent Solids: 78.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0031	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
1,1,2-Trichloroethane	<0.0011		0.0031	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
1,1-Dichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
1,1-Dichloroethene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
1,2-Dichloroethane	<0.0020		0.0076	0.0020	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
1,2-Dichloropropane	<0.00079		0.0031	0.00079	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
2-Butanone (MEK)	<0.0034		0.0076	0.0034	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
2-Hexanone	<0.0046		0.0076	0.0046	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0076	0.0054	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Acetone	**0.032**		0.031	0.013	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Benzene	<0.00096		0.0031	0.00096	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Bromodichloromethane	<0.00098		0.0031	0.00098	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Bromoform	<0.0018		0.0031	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Bromomethane	<0.0038		0.0076	0.0038	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Carbon disulfide	**0.0078**		0.0076	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Carbon tetrachloride	<0.0010		0.0031	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Chlorobenzene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Chloroethane	<0.0025		0.0076	0.0025	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Chloroform	<0.0022		0.0031	0.0022	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Chloromethane	<0.0015		0.0076	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
cis-1,2-Dichloroethene	<0.0012		0.0031	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
1,3-Dichloropropene, Total	<0.0015		0.0031	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Dibromochloromethane	<0.0014		0.0031	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Ethylbenzene	<0.0016		0.0031	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Methyl tert-butyl ether	<0.00099		0.0031	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Methylene Chloride	<0.0033		0.0076	0.0033	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Styrene	<0.0014		0.0031	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Tetrachloroethene	<0.0017		0.0031	0.0017	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Toluene	<0.00061		0.0031	0.00061	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Xylenes, Total	<0.0010		0.0061	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
trans-1,2-Dichloroethene	<0.0012		0.0031	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Trichloroethene	<0.00083		0.0031	0.00083	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1
Vinyl chloride	<0.0012		0.0031	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*09/05/24 18:07*	*09/12/24 02:37*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*09/05/24 18:07*	*09/12/24 02:37*	*1*
Dibromofluoromethane	*76*		*75 - 126*	*09/05/24 18:07*	*09/12/24 02:37*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*09/05/24 18:07*	*09/12/24 02:37*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**13**		0.13	0.026	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Acenaphthylene	**0.19**		0.13	0.021	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Anthracene	**23**		0.13	0.026	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Benzo[g,h,i]perylene	**22**		0.13	0.027	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Benzo[k]fluoranthene	**20**		0.13	0.048	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Dibenz(a,h)anthracene	**10**		0.13	0.13	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Fluorene	**11**		0.13	0.037	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB41 (0-3)
Lab Sample ID: 500-256166-21
Date Collected: 09/04/24 11:36
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 78.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**24**		0.13	0.12	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Naphthalene	**2.7**		0.13	0.023	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
1,2,4-Trichlorobenzene	<0.090		0.64	0.090	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
1,2-Dichlorobenzene	<0.051		0.64	0.051	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
1,3-Dichlorobenzene	<0.057		0.64	0.057	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
1,4-Dichlorobenzene	<0.060		0.64	0.060	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2,4,5-Trichlorophenol	<0.048		1.3	0.048	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2,4,6-Trichlorophenol	<0.043		1.3	0.043	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2,4-Dichlorophenol	<0.044		1.3	0.044	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2,4-Dimethylphenol	<0.28	*+	1.3	0.28	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2,4-Dinitrophenol	<0.73		2.5	0.73	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2,4-Dinitrotoluene	<0.072		0.64	0.072	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2,6-Dinitrotoluene	<0.043		0.64	0.043	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2-Chloronaphthalene	<0.047		0.64	0.047	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2-Chlorophenol	<0.041		0.64	0.041	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2-Methylnaphthalene	**1.6**		0.25	0.025	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2-Methylphenol	<0.067		0.64	0.067	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2-Nitroaniline	<0.068		0.64	0.068	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
2-Nitrophenol	<0.086		1.3	0.086	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
3,3'-Dichlorobenzidine	<0.10		0.64	0.10	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
3 & 4 Methylphenol	<0.092		0.64	0.092	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
3-Nitroaniline	<0.057		1.3	0.057	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
4,6-Dinitro-2-methylphenol	<0.71		2.5	0.71	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
4-Bromophenyl phenyl ether	<0.086		0.64	0.086	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
4-Chloro-3-methylphenol	<0.049		1.3	0.049	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
4-Chloroaniline	<1.3		2.5	1.3	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
4-Chlorophenyl phenyl ether	<0.17		0.64	0.17	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
4-Nitroaniline	<0.093		1.3	0.093	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
4-Nitrophenol	<0.47		2.5	0.47	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Bis(2-chloroethoxy)methane	<0.047		0.64	0.047	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Bis(2-chloroethyl)ether	<0.058		0.64	0.058	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
bis(chloroisopropyl) ether	<0.091		0.64	0.091	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Bis(2-ethylhexyl) phthalate	<0.49		0.64	0.49	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Butyl benzyl phthalate	<0.063		0.64	0.063	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Carbazole	**12**		0.64	0.050	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Dibenzofuran	**6.3**		0.64	0.045	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Diethyl phthalate	<0.058		0.64	0.058	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Dimethyl phthalate	<0.027		0.64	0.027	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Di-n-butyl phthalate	<0.040		0.64	0.040	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Di-n-octyl phthalate	<0.88		1.3	0.88	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Hexachlorobenzene	<0.024		0.25	0.024	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Hexachlorobutadiene	<0.071		0.64	0.071	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Hexachlorocyclopentadiene	<1.3		2.5	1.3	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Hexachloroethane	<0.063		0.64	0.063	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Isophorone	<0.065		0.64	0.065	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Nitrobenzene	<0.040		0.13	0.040	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
N-Nitrosodi-n-propylamine	<0.025		0.25	0.025	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
N-Nitrosodiphenylamine	<0.075		0.64	0.075	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2
Pentachlorophenol	<0.32		2.5	0.32	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2

Client Sample ID: SB41 (0-3)
Lab Sample ID: 500-256166-21
Date Collected: 09/04/24 11:36
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 78.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.055		0.64	0.055	mg/Kg	☼	09/16/24 15:05	09/17/24 14:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*38*		*31 - 166*	*09/16/24 15:05*	*09/17/24 14:40*	*2*
Phenol-d5 (Surr)	*57*		*30 - 153*	*09/16/24 15:05*	*09/17/24 14:40*	*2*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*09/16/24 15:05*	*09/17/24 14:40*	*2*
2-Fluorobiphenyl (Surr)	*57*		*43 - 145*	*09/16/24 15:05*	*09/17/24 14:40*	*2*
2,4,6-Tribromophenol (Surr)	*3*	*S1-*	*31 - 143*	*09/16/24 15:05*	*09/17/24 14:40*	*2*
Terphenyl-d14 (Surr)	*54*		*42 - 157*	*09/16/24 15:05*	*09/17/24 14:40*	*2*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**60**		6.3	1.3	mg/Kg	☼	09/16/24 15:05	09/17/24 17:09	100
Benzo[a]pyrene	**53**		6.3	6.1	mg/Kg	☼	09/16/24 15:05	09/17/24 17:09	100
Benzo[b]fluoranthene	**77**		6.3	6.0	mg/Kg	☼	09/16/24 15:05	09/17/24 17:09	100
Chrysene	**60**		6.3	1.7	mg/Kg	☼	09/16/24 15:05	09/17/24 17:09	100
Fluoranthene	**130**		6.3	1.5	mg/Kg	☼	09/16/24 15:05	09/17/24 17:09	100
Phenanthrene	**99**		6.3	1.4	mg/Kg	☼	09/16/24 15:05	09/17/24 17:09	100
Pyrene	**100**		6.3	1.7	mg/Kg	☼	09/16/24 15:05	09/17/24 17:09	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*0*	*S1-*	*31 - 166*	*09/16/24 15:05*	*09/17/24 17:09*	*100*
Phenol-d5 (Surr)	*0*	*S1-*	*30 - 153*	*09/16/24 15:05*	*09/17/24 17:09*	*100*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*37 - 147*	*09/16/24 15:05*	*09/17/24 17:09*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*43 - 145*	*09/16/24 15:05*	*09/17/24 17:09*	*100*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/16/24 15:05*	*09/17/24 17:09*	*100*
Terphenyl-d14 (Surr)	*0*	*S1-*	*42 - 157*	*09/16/24 15:05*	*09/17/24 17:09*	*100*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.021	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
4,4'-DDE	<0.011		0.021	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
4,4'-DDT	**0.32**		0.021	0.0099	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
Aldrin	<0.015		0.021	0.015	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
alpha-BHC	<0.012		0.021	0.012	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
alpha-Chlordane	<0.011		0.021	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
beta-BHC	<0.017		0.021	0.017	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
Chlordane (technical)	<0.040		0.083	0.040	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
delta-BHC	<0.010		0.021	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
Dieldrin	<0.011		0.021	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
Endosulfan I	<0.011		0.021	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
Endosulfan II	<0.011		0.021	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
Endosulfan sulfate	<0.012		0.021	0.012	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
Endrin	<0.011		0.021	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
Endrin aldehyde	<0.012		0.021	0.012	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
Endrin ketone	<0.010		0.021	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
gamma-BHC (Lindane)	<0.010		0.021	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
gamma-Chlordane	<0.012		0.021	0.012	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
Heptachlor	<0.011		0.021	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
Heptachlor epoxide	<0.011		0.021	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB41 (0-3)
Lab Sample ID: 500-256166-21

Date Collected: 09/04/24 11:36
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 78.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.014		0.10	0.014	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10
Toxaphene	<0.084		0.21	0.084	mg/Kg	☼	09/16/24 16:28	09/23/24 14:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*38*		*33 - 148*	*09/16/24 16:28*	*09/23/24 14:41*	*10*
Tetrachloro-m-xylene	*19*	*S1-*	*30 - 121*	*09/16/24 16:28*	*09/23/24 14:41*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.21		0.21		mg/Kg	☼	09/16/24 16:28	09/23/24 20:21	10
PCB-1221	<0.21		0.21		mg/Kg	☼	09/16/24 16:28	09/23/24 20:21	10
PCB-1232	<0.21		0.21		mg/Kg	☼	09/16/24 16:28	09/23/24 20:21	10
PCB-1242	<0.21		0.21		mg/Kg	☼	09/16/24 16:28	09/23/24 20:21	10
PCB-1248	<0.21		0.21		mg/Kg	☼	09/16/24 16:28	09/23/24 20:21	10
PCB-1254	**2.9**		0.21		mg/Kg	☼	09/16/24 16:28	09/23/24 20:21	10
PCB-1260	<0.21		0.21		mg/Kg	☼	09/16/24 16:28	09/23/24 20:21	10
Polychlorinated biphenyls, Total	**2.9**		0.21		mg/Kg	☼	09/16/24 16:28	09/23/24 20:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*49 - 129*	*09/16/24 16:28*	*09/23/24 20:21*	*10*
DCB Decachlorobiphenyl	*75*		*37 - 121*	*09/16/24 16:28*	*09/23/24 20:21*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22000**		22		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Antimony	<2.2		2.2		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Arsenic	**3.2**		1.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Barium	**240**		1.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Beryllium	**5.9**		2.2		mg/Kg	☼	09/17/24 10:12	09/19/24 12:37	5
Cadmium	**0.87**		0.22		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Calcium	**220000**		110		mg/Kg	☼	09/17/24 10:12	09/19/24 12:37	5
Chromium	**93**		1.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Cobalt	**4.0**		0.55		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Copper	**35**		1.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Iron	**21000**		22		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Lead	**67**		0.55		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Magnesium	**28000**		11		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Manganese	**7600**		5.5		mg/Kg	☼	09/17/24 10:12	09/19/24 12:37	5
Nickel	**35**		1.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Potassium	**1000**		55		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Selenium	**4.5**		1.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Silver	<2.7		2.7		mg/Kg	☼	09/17/24 10:12	09/19/24 12:37	5
Sodium	**630**		110		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Thallium	**6.8**		5.5		mg/Kg	☼	09/17/24 10:12	09/19/24 12:37	5
Vanadium	**53**		0.55		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1
Zinc	**310**		2.2		mg/Kg	☼	09/17/24 10:12	09/19/24 01:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.078**		0.019		mg/Kg	☼	09/19/24 17:20	09/20/24 09:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB41 (0-3)
Lab Sample ID: 500-256166-21
Date Collected: 09/04/24 11:36
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 78.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	13		2.9		mg/Kg	☼	09/09/24 11:02	09/09/24 17:00	10
pH (SW846 9045D)	12.35		0.20		SU			09/10/24 14:33	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB41 (5-7.5)
Lab Sample ID: 500-256166-22
Date Collected: 09/04/24 11:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 90.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00099		0.0024	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
1,1,2-Trichloroethane	<0.00092		0.0024	0.00092	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
1,1-Dichloroethane	<0.00092		0.0024	0.00092	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
1,1-Dichloroethene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
1,2-Dichloroethane	<0.0016		0.0061	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
1,2-Dichloropropane	<0.00063		0.0024	0.00063	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
2-Butanone (MEK)	<0.0027		0.0061	0.0027	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
2-Hexanone	<0.0037		0.0061	0.0037	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0061	0.0044	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Acetone	<0.010		0.024	0.010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Benzene	<0.00077		0.0024	0.00077	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Bromodichloromethane	<0.00079		0.0024	0.00079	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Bromomethane	<0.0030		0.0061	0.0030	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Carbon disulfide	**0.0013**	**J**	0.0061	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Carbon tetrachloride	<0.00083		0.0024	0.00083	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Chloroethane	<0.0020		0.0061	0.0020	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Chloroform	<0.0018		0.0024	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Chloromethane	<0.0012		0.0061	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
cis-1,2-Dichloroethene	<0.00099		0.0024	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
1,3-Dichloropropene, Total	<0.0012		0.0024	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Ethylbenzene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Methyl tert-butyl ether	<0.00079		0.0024	0.00079	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Methylene Chloride	<0.0026		0.0061	0.0026	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Styrene	<0.0011		0.0024	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Tetrachloroethene	<0.0014		0.0024	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Toluene	<0.00049		0.0024	0.00049	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Xylenes, Total	<0.00084		0.0049	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
trans-1,2-Dichloroethene	<0.00093		0.0024	0.00093	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Trichloroethene	<0.00067		0.0024	0.00067	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1
Vinyl chloride	<0.0010		0.0024	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 134*	*09/05/24 18:07*	*09/12/24 03:01*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*09/05/24 18:07*	*09/12/24 03:01*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*09/05/24 18:07*	*09/12/24 03:01*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*09/05/24 18:07*	*09/12/24 03:01*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.93**		0.11	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Acenaphthylene	**0.045**	**J**	0.11	0.019	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Anthracene	**1.9**		0.11	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Benzo[a]anthracene	**5.0**		0.11	0.023	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Benzo[a]pyrene	**4.5**		0.11	0.11	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Benzo[b]fluoranthene	**6.4**		0.11	0.10	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Benzo[g,h,i]perylene	**2.5**		0.11	0.024	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB41 (5-7.5)
Lab Sample ID: 500-256166-22
Date Collected: 09/04/24 11:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 90.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**2.7**		0.11	0.042	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Chrysene	**5.2**		0.11	0.029	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Dibenz(a,h)anthracene	**0.90**		0.11	0.11	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Fluoranthene	**11**		0.11	0.025	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Fluorene	**0.78**		0.11	0.032	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Indeno[1,2,3-cd]pyrene	**2.7**		0.11	0.11	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Naphthalene	**0.17**		0.11	0.020	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Phenanthrene	**7.4**		0.11	0.024	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Pyrene	**8.5**		0.11	0.030	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
1,2,4-Trichlorobenzene	<0.078		0.55	0.078	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
1,2-Dichlorobenzene	<0.045		0.55	0.045	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
1,3-Dichlorobenzene	<0.050		0.55	0.050	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
1,4-Dichlorobenzene	<0.052		0.55	0.052	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2,4,5-Trichlorophenol	<0.041		1.1	0.041	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2,4,6-Trichlorophenol	<0.037		1.1	0.037	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2,4-Dichlorophenol	<0.039		1.1	0.039	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2,4-Dimethylphenol	<0.25	*+	1.1	0.25	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2,4-Dinitrophenol	<0.63		2.2	0.63	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2,4-Dinitrotoluene	<0.062		0.55	0.062	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2,6-Dinitrotoluene	<0.037		0.55	0.037	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2-Chloronaphthalene	<0.041		0.55	0.041	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2-Chlorophenol	<0.035		0.55	0.035	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2-Methylnaphthalene	**0.14**	**J**	0.22	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2-Methylphenol	<0.058		0.55	0.058	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2-Nitroaniline	<0.059		0.55	0.059	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
2-Nitrophenol	<0.074		1.1	0.074	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
3,3'-Dichlorobenzidine	<0.090		0.55	0.090	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
3 & 4 Methylphenol	<0.080		0.55	0.080	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
3-Nitroaniline	<0.050		1.1	0.050	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
4,6-Dinitro-2-methylphenol	<0.62		2.2	0.62	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
4-Bromophenyl phenyl ether	<0.075		0.55	0.075	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
4-Chloro-3-methylphenol	<0.043		1.1	0.043	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
4-Chloroaniline	<1.2		2.2	1.2	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
4-Chlorophenyl phenyl ether	<0.14		0.55	0.14	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
4-Nitroaniline	<0.081		1.1	0.081	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
4-Nitrophenol	<0.41		2.2	0.41	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Bis(2-chloroethoxy)methane	<0.041		0.55	0.041	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Bis(2-chloroethyl)ether	<0.051		0.55	0.051	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
bis(chloroisopropyl) ether	<0.079		0.55	0.079	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Bis(2-ethylhexyl) phthalate	<0.43		0.55	0.43	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Butyl benzyl phthalate	<0.055		0.55	0.055	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Carbazole	**1.2**		0.55	0.043	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Dibenzofuran	**0.44**	**J**	0.55	0.039	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Diethyl phthalate	<0.050		0.55	0.050	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Dimethyl phthalate	<0.024		0.55	0.024	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Di-n-butyl phthalate	<0.035		0.55	0.035	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Di-n-octyl phthalate	<0.77		1.1	0.77	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Hexachlorobenzene	<0.021		0.22	0.021	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Hexachlorobutadiene	<0.062		0.55	0.062	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB41 (5-7.5)
Lab Sample ID: 500-256166-22
Date Collected: 09/04/24 11:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 90.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.2		2.2	1.2	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Hexachloroethane	<0.055		0.55	0.055	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Isophorone	<0.057		0.55	0.057	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Nitrobenzene	<0.035		0.11	0.035	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
N-Nitrosodi-n-propylamine	<0.022		0.22	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
N-Nitrosodiphenylamine	<0.065		0.55	0.065	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Pentachlorophenol	<0.27		2.2	0.27	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2
Phenol	<0.048		0.55	0.048	mg/Kg	☼	09/16/24 15:05	09/17/24 15:05	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*31 - 166*	*09/16/24 15:05*	*09/17/24 15:05*	*2*
Phenol-d5 (Surr)	*55*		*30 - 153*	*09/16/24 15:05*	*09/17/24 15:05*	*2*
Nitrobenzene-d5 (Surr)	*53*		*37 - 147*	*09/16/24 15:05*	*09/17/24 15:05*	*2*
2-Fluorobiphenyl (Surr)	*55*		*43 - 145*	*09/16/24 15:05*	*09/17/24 15:05*	*2*
2,4,6-Tribromophenol (Surr)	*8*	*S1-*	*31 - 143*	*09/16/24 15:05*	*09/17/24 15:05*	*2*
Terphenyl-d14 (Surr)	*70*		*42 - 157*	*09/16/24 15:05*	*09/17/24 15:05*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
4,4'-DDE	<0.0096		0.019	0.0096	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Chlordane (technical)	<0.035		0.074	0.035	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Endrin	<0.0095		0.019	0.0095	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/16/24 16:28	09/23/24 14:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*2016*	*S1+*	*33 - 148*	*09/16/24 16:28*	*09/23/24 14:52*	*10*
Tetrachloro-m-xylene	*82*		*30 - 121*	*09/16/24 16:28*	*09/23/24 14:52*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 20:36	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 20:36	10

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Client Sample ID: SB41 (5-7.5)

Date Collected: 09/04/24 11:42
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-22

Matrix: Solid
Percent Solids: 90.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 20:36	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 20:36	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 20:36	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 20:36	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 20:36	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 20:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*49 - 129*	*09/16/24 16:28*	*09/23/24 20:36*	*10*
DCB Decachlorobiphenyl	*85*		*37 - 121*	*09/16/24 16:28*	*09/23/24 20:36*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9600**		21		mg/Kg	☼	09/17/24 10:12	09/19/24 01:11	1
Antimony	<2.1		2.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:11	1
Arsenic	**12**		5.2		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Barium	**130**		5.2		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Beryllium	**2.3**		2.1		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Cadmium	<1.0		1.0		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Calcium	**62000**		21		mg/Kg	☼	09/17/24 10:12	09/19/24 01:11	1
Chromium	**470**		5.2		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Cobalt	**9.6**		0.52		mg/Kg	☼	09/17/24 10:12	09/19/24 01:11	1
Copper	**66**		5.2		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Iron	**82000**		100		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Lead	**80**		2.6		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Magnesium	**16000**		10		mg/Kg	☼	09/17/24 10:12	09/19/24 01:11	1
Manganese	**2900**		5.2		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Nickel	**220**		5.2		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Potassium	**750**		52		mg/Kg	☼	09/17/24 10:12	09/19/24 01:11	1
Selenium	<5.2		5.2		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Silver	<2.6		2.6		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Sodium	**380**		100		mg/Kg	☼	09/17/24 10:12	09/19/24 01:11	1
Thallium	<5.2		5.2		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Vanadium	**28**		2.6		mg/Kg	☼	09/17/24 10:12	09/19/24 12:42	5
Zinc	**200**		2.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**15**		2.6		mg/Kg	☼	09/09/24 11:02	09/09/24 17:05	10
pH (SW846 9045D)	**10.17**		0.20		SU			09/10/24 14:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB42 (0-3)
Date Collected: 09/04/24 12:43
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-23
Matrix: Solid
Percent Solids: 95.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00084		0.0021	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0021	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
1,1,2-Trichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
1,1-Dichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
1,1-Dichloroethene	<0.00085		0.0021	0.00085	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
1,2-Dichloroethane	<0.0013		0.0052	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
2-Hexanone	<0.0032		0.0052	0.0032	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0052	0.0037	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Acetone	<0.0087		0.021	0.0087	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Benzene	<0.00065		0.0021	0.00065	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Bromodichloromethane	<0.00067		0.0021	0.00067	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Bromomethane	<0.0026		0.0052	0.0026	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Carbon disulfide	<0.00096		0.0052	0.00096	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Carbon tetrachloride	<0.00071		0.0021	0.00071	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Chlorobenzene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Chloroethane	<0.0017		0.0052	0.0017	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Chloromethane	<0.0010		0.0052	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
cis-1,2-Dichloroethene	<0.00084		0.0021	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Dibromochloromethane	<0.00096		0.0021	0.00096	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Methyl tert-butyl ether	<0.00067		0.0021	0.00067	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Methylene Chloride	<0.0022		0.0052	0.0022	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Styrene	<0.00093		0.0021	0.00093	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Toluene	<0.00042		0.0021	0.00042	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Xylenes, Total	<0.00071		0.0042	0.00071	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
trans-1,2-Dichloroethene	<0.00079		0.0021	0.00079	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Trichloroethene	<0.00056		0.0021	0.00056	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1
Vinyl chloride	<0.00085		0.0021	0.00085	mg/Kg	☼	09/05/24 18:07	09/12/24 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*09/05/24 18:07*	*09/12/24 03:25*	*1*
4-Bromofluorobenzene (Surr)	*113*		*75 - 131*	*09/05/24 18:07*	*09/12/24 03:25*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*09/05/24 18:07*	*09/12/24 03:25*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/05/24 18:07*	*09/12/24 03:25*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.42**		0.10	0.021	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Acenaphthylene	**0.063**	**J**	0.10	0.018	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Anthracene	**0.78**		0.10	0.021	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Benzo[a]anthracene	**2.4**		0.10	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Benzo[a]pyrene	**2.1**		0.10	0.10	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Benzo[b]fluoranthene	**3.1**		0.10	0.099	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Benzo[g,h,i]perylene	**1.1**		0.10	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2

Client Sample ID: SB42 (0-3)
Lab Sample ID: 500-256166-23
Date Collected: 09/04/24 12:43
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 95.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.2**		0.10	0.039	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Chrysene	**2.5**		0.10	0.027	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Dibenz(a,h)anthracene	**0.33**		0.10	0.10	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Fluoranthene	**5.2**		0.10	0.024	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Fluorene	**0.34**		0.10	0.031	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Indeno[1,2,3-cd]pyrene	**1.2**		0.10	0.10	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Naphthalene	**0.16**		0.10	0.019	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Phenanthrene	**3.2**		0.10	0.023	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Pyrene	**4.0**		0.10	0.028	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
1,2,4-Trichlorobenzene	<0.074		0.52	0.074	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
1,2-Dichlorobenzene	<0.042		0.52	0.042	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
1,3-Dichlorobenzene	<0.047		0.52	0.047	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
1,4-Dichlorobenzene	<0.049		0.52	0.049	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2,4,5-Trichlorophenol	<0.039		1.0	0.039	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2,4,6-Trichlorophenol	<0.035		1.0	0.035	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2,4-Dichlorophenol	<0.037		1.0	0.037	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2,4-Dimethylphenol	<0.23	*+	1.0	0.23	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2,4-Dinitrophenol	<0.60		2.1	0.60	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2,4-Dinitrotoluene	<0.059		0.52	0.059	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2,6-Dinitrotoluene	<0.035		0.52	0.035	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2-Chloronaphthalene	<0.039		0.52	0.039	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2-Chlorophenol	<0.033		0.52	0.033	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2-Methylnaphthalene	**0.11**	**J**	0.21	0.021	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2-Methylphenol	<0.055		0.52	0.055	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2-Nitroaniline	<0.056		0.52	0.056	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
2-Nitrophenol	<0.070		1.0	0.070	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
3,3'-Dichlorobenzidine	<0.085		0.52	0.085	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
3 & 4 Methylphenol	<0.076		0.52	0.076	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
3-Nitroaniline	<0.047		1.0	0.047	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
4,6-Dinitro-2-methylphenol	<0.58		2.1	0.58	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
4-Bromophenyl phenyl ether	<0.071		0.52	0.071	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
4-Chloro-3-methylphenol	<0.040		1.0	0.040	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
4-Chloroaniline	<1.1		2.1	1.1	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
4-Chlorophenyl phenyl ether	<0.14		0.52	0.14	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
4-Nitroaniline	<0.076		1.0	0.076	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
4-Nitrophenol	<0.38		2.1	0.38	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Bis(2-chloroethoxy)methane	<0.039		0.52	0.039	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Bis(2-chloroethyl)ether	<0.048		0.52	0.048	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
bis(chloroisopropyl) ether	<0.074		0.52	0.074	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Bis(2-ethylhexyl) phthalate	<0.41		0.52	0.41	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Butyl benzyl phthalate	<0.052		0.52	0.052	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Carbazole	**0.47**	**J**	0.52	0.041	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Dibenzofuran	**0.17**	**J**	0.52	0.037	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Diethyl phthalate	<0.047		0.52	0.047	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Dimethyl phthalate	<0.023		0.52	0.023	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Di-n-butyl phthalate	<0.033		0.52	0.033	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Di-n-octyl phthalate	<0.72		1.0	0.72	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Hexachlorobenzene	<0.020		0.21	0.020	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Hexachlorobutadiene	<0.058		0.52	0.058	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2

Client Sample ID: SB42 (0-3) — **Lab Sample ID: 500-256166-23**
Date Collected: 09/04/24 12:43 — **Matrix: Solid**
Date Received: 09/05/24 11:17 — **Percent Solids: 95.1**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.1		2.1	1.1	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Hexachloroethane	<0.052		0.52	0.052	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Isophorone	<0.053		0.52	0.053	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Nitrobenzene	<0.033		0.10	0.033	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
N-Nitrosodi-n-propylamine	<0.020		0.21	0.020	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
N-Nitrosodiphenylamine	<0.061		0.52	0.061	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Pentachlorophenol	<0.26		2.1	0.26	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2
Phenol	<0.045		0.52	0.045	mg/Kg	☼	09/16/24 15:05	09/17/24 15:30	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*62*		*31 - 166*	*09/16/24 15:05*	*09/17/24 15:30*	*2*
Phenol-d5 (Surr)	*70*		*30 - 153*	*09/16/24 15:05*	*09/17/24 15:30*	*2*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*	*09/16/24 15:05*	*09/17/24 15:30*	*2*
2-Fluorobiphenyl (Surr)	*70*		*43 - 145*	*09/16/24 15:05*	*09/17/24 15:30*	*2*
2,4,6-Tribromophenol (Surr)	*56*		*31 - 143*	*09/16/24 15:05*	*09/17/24 15:30*	*2*
Terphenyl-d14 (Surr)	*67*		*42 - 157*	*09/16/24 15:05*	*09/17/24 15:30*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0091		0.017	0.0091	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
4,4'-DDE	<0.0088		0.017	0.0088	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
4,4'-DDT	<0.0081		0.017	0.0081	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
alpha-BHC	<0.0096		0.017	0.0096	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
alpha-Chlordane	<0.0091		0.017	0.0091	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Chlordane (technical)	<0.032		0.068	0.032	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
delta-BHC	<0.0081		0.017	0.0081	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Dieldrin	**0.014**	**J**	0.017	0.0089	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Endosulfan I	<0.0092		0.017	0.0092	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Endosulfan II	<0.0093		0.017	0.0093	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Endosulfan sulfate	<0.0094		0.017	0.0094	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Endrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Endrin aldehyde	<0.0097		0.017	0.0097	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Endrin ketone	<0.0083		0.017	0.0083	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
gamma-BHC (Lindane)	<0.0085		0.017	0.0085	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
gamma-Chlordane	<0.0098		0.017	0.0098	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Heptachlor	<0.0092		0.017	0.0092	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Heptachlor epoxide	<0.0092		0.017	0.0092	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Methoxychlor	<0.011		0.084	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10
Toxaphene	<0.068		0.17	0.068	mg/Kg	☼	09/16/24 16:28	09/23/24 15:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*33 - 148*	*09/16/24 16:28*	*09/23/24 15:04*	*10*
Tetrachloro-m-xylene	*25*	*S1-*	*30 - 121*	*09/16/24 16:28*	*09/23/24 15:04*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 20:52	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 20:52	10

Client Sample ID: SB42 (0-3)
Lab Sample ID: 500-256166-23

Date Collected: 09/04/24 12:43
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 95.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 20:52	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 20:52	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 20:52	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 20:52	10
PCB-1260	**0.87**		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 20:52	10
Polychlorinated biphenyls, Total	**0.87**		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 20:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*49 - 129*	*09/16/24 16:28*	*09/23/24 20:52*	*10*
DCB Decachlorobiphenyl	*88*		*37 - 121*	*09/16/24 16:28*	*09/23/24 20:52*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		19		mg/Kg	☼	09/17/24 10:12	09/19/24 01:16	1
Antimony	**90**		1.9		mg/Kg	☼	09/17/24 10:12	09/19/24 01:16	1
Arsenic	**29**		4.7		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Barium	**160**		4.7		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Beryllium	**2.7**		1.9		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Cadmium	**1.4**		0.94		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Calcium	**50000**		19		mg/Kg	☼	09/17/24 10:12	09/19/24 01:16	1
Chromium	**160**		0.94		mg/Kg	☼	09/17/24 10:12	09/19/24 01:16	1
Cobalt	**11**		0.47		mg/Kg	☼	09/17/24 10:12	09/19/24 01:16	1
Copper	**280**		4.7		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Iron	**240000**		94		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Lead	**810**		2.4		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Magnesium	**12000**		9.4		mg/Kg	☼	09/17/24 10:12	09/19/24 01:16	1
Manganese	**3600**		4.7		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Nickel	**110**		4.7		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Potassium	**260**		47		mg/Kg	☼	09/17/24 10:12	09/19/24 01:16	1
Selenium	<4.7		4.7		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Silver	<2.4		2.4		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Sodium	**330**		94		mg/Kg	☼	09/17/24 10:12	09/19/24 01:16	1
Thallium	**5.2**		4.7		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Vanadium	**41**		2.4		mg/Kg	☼	09/17/24 10:12	09/19/24 12:46	5
Zinc	**110**		1.9		mg/Kg	☼	09/17/24 10:12	09/19/24 01:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**		0.016		mg/Kg	☼	09/19/24 17:20	09/20/24 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**11**	**F2**	2.2		mg/Kg	☼	09/09/24 11:02	09/09/24 17:10	10
pH (SW846 9045D)	**8.38**		0.20		SU			09/10/24 14:38	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB42 (7.5-10)
Lab Sample ID: 500-256166-24
Date Collected: 09/04/24 12:52
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 96.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00084		0.0021	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0021	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
1,1,2-Trichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
1,1-Dichloroethane	<0.00079		0.0021	0.00079	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
1,1-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
1,2-Dichloroethane	<0.0014		0.0052	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
2-Hexanone	<0.0032		0.0052	0.0032	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0052	0.0037	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Acetone	<0.0088		0.021	0.0088	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Benzene	<0.00066		0.0021	0.00066	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Bromodichloromethane	<0.00067		0.0021	0.00067	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Bromomethane	<0.0026		0.0052	0.0026	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Carbon disulfide	<0.00096		0.0052	0.00096	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Carbon tetrachloride	<0.00071		0.0021	0.00071	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Chlorobenzene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Chloroethane	<0.0017		0.0052	0.0017	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Chloromethane	<0.0010		0.0052	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
cis-1,2-Dichloroethene	<0.00084		0.0021	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Dibromochloromethane	<0.00097		0.0021	0.00097	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Methyl tert-butyl ether	<0.00067		0.0021	0.00067	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Methylene Chloride	<0.0022		0.0052	0.0022	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Styrene	<0.00094		0.0021	0.00094	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Toluene	<0.00042		0.0021	0.00042	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Xylenes, Total	<0.00072		0.0042	0.00072	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
trans-1,2-Dichloroethene	<0.00079		0.0021	0.00079	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Trichloroethene	<0.00057		0.0021	0.00057	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1
Vinyl chloride	<0.00085		0.0021	0.00085	mg/Kg	☼	09/05/24 18:07	09/12/24 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*09/05/24 18:07*	*09/12/24 03:49*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*09/05/24 18:07*	*09/12/24 03:49*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*09/05/24 18:07*	*09/12/24 03:49*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*09/05/24 18:07*	*09/12/24 03:49*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0098		0.048	0.0098	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Acenaphthylene	<0.0082		0.048	0.0082	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Anthracene	<0.0098		0.048	0.0098	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Benzo[a]anthracene	<0.010		0.048	0.010	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Benzo[a]pyrene	<0.046		0.048	0.046	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Benzo[b]fluoranthene	<0.046		0.048	0.046	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Benzo[g,h,i]perylene	<0.010		0.048	0.010	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB42 (7.5-10)
Lab Sample ID: 500-256166-24
Date Collected: 09/04/24 12:52
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 96.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.018		0.048	0.018	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Chrysene	<0.013		0.048	0.013	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Dibenz(a,h)anthracene	<0.048		0.048	0.048	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Fluoranthene	<0.011		0.048	0.011	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Fluorene	<0.014		0.048	0.014	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Indeno[1,2,3-cd]pyrene	<0.047		0.048	0.047	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Naphthalene	<0.0087		0.048	0.0087	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Phenanthrene	<0.010		0.048	0.010	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Pyrene	<0.013		0.048	0.013	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
1,2,4-Trichlorobenzene	<0.034		0.24	0.034	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
1,2-Dichlorobenzene	<0.020		0.24	0.020	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
1,3-Dichlorobenzene	<0.022		0.24	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
1,4-Dichlorobenzene	<0.023		0.24	0.023	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2,4,5-Trichlorophenol	<0.018		0.48	0.018	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2,4,6-Trichlorophenol	<0.016		0.48	0.016	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2,4-Dichlorophenol	<0.017		0.48	0.017	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2,4-Dimethylphenol	<0.11	*+	0.48	0.11	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2,4-Dinitrophenol	<0.28		0.97	0.28	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2,4-Dinitrotoluene	<0.027		0.24	0.027	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2,6-Dinitrotoluene	<0.016		0.24	0.016	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2-Chloronaphthalene	<0.018		0.24	0.018	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2-Chlorophenol	<0.015		0.24	0.015	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2-Methylnaphthalene	<0.0096		0.097	0.0096	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2-Methylphenol	<0.025		0.24	0.025	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2-Nitroaniline	<0.026		0.24	0.026	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
2-Nitrophenol	<0.033		0.48	0.033	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
3,3'-Dichlorobenzidine	<0.039		0.24	0.039	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
3 & 4 Methylphenol	<0.035		0.24	0.035	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
3-Nitroaniline	<0.022		0.48	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
4,6-Dinitro-2-methylphenol	<0.27		0.97	0.27	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
4-Bromophenyl phenyl ether	<0.033		0.24	0.033	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
4-Chloro-3-methylphenol	<0.019		0.48	0.019	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
4-Chloroaniline	<0.50		0.97	0.50	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
4-Chlorophenyl phenyl ether	<0.063		0.24	0.063	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
4-Nitroaniline	<0.035		0.48	0.035	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
4-Nitrophenol	<0.18		0.97	0.18	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Bis(2-chloroethoxy)methane	<0.018		0.24	0.018	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Bis(2-chloroethyl)ether	<0.022		0.24	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
bis(chloroisopropyl) ether	<0.034		0.24	0.034	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.24	0.19	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Butyl benzyl phthalate	<0.024		0.24	0.024	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Carbazole	<0.019		0.24	0.019	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Dibenzofuran	<0.017		0.24	0.017	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Diethyl phthalate	<0.022		0.24	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Dimethyl phthalate	<0.010		0.24	0.010	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Di-n-butyl phthalate	<0.015		0.24	0.015	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Di-n-octyl phthalate	<0.34		0.48	0.34	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Hexachlorobenzene	<0.0092		0.097	0.0092	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Hexachlorobutadiene	<0.027		0.24	0.027	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB42 (7.5-10)
Lab Sample ID: 500-256166-24
Date Collected: 09/04/24 12:52
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 96.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.51		0.97	0.51	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Hexachloroethane	<0.024		0.24	0.024	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Isophorone	<0.025		0.24	0.025	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Nitrobenzene	<0.015		0.048	0.015	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
N-Nitrosodi-n-propylamine	<0.0095		0.097	0.0095	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
N-Nitrosodiphenylamine	<0.029		0.24	0.029	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Pentachlorophenol	<0.12		0.97	0.12	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1
Phenol	<0.021		0.24	0.021	mg/Kg	☼	09/16/24 15:05	09/17/24 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*81*		*31 - 166*	*09/16/24 15:05*	*09/17/24 15:55*	*1*
Phenol-d5 (Surr)	*80*		*30 - 153*	*09/16/24 15:05*	*09/17/24 15:55*	*1*
Nitrobenzene-d5 (Surr)	*82*		*37 - 147*	*09/16/24 15:05*	*09/17/24 15:55*	*1*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*	*09/16/24 15:05*	*09/17/24 15:55*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*31 - 143*	*09/16/24 15:05*	*09/17/24 15:55*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*09/16/24 15:05*	*09/17/24 15:55*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0090		0.017	0.0090	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
4,4'-DDE	<0.0086		0.017	0.0086	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
4,4'-DDT	<0.0079		0.017	0.0079	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
alpha-BHC	<0.0094		0.017	0.0094	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
alpha-Chlordane	<0.0090		0.017	0.0090	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
beta-BHC	<0.013		0.017	0.013	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Chlordane (technical)	<0.032		0.066	0.032	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
delta-BHC	<0.0080		0.017	0.0080	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Dieldrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Endosulfan I	<0.0090		0.017	0.0090	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Endosulfan II	<0.0092		0.017	0.0092	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Endosulfan sulfate	<0.0093		0.017	0.0093	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Endrin	<0.0085		0.017	0.0085	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Endrin aldehyde	<0.0095		0.017	0.0095	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Endrin ketone	<0.0081		0.017	0.0081	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
gamma-BHC (Lindane)	<0.0083		0.017	0.0083	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
gamma-Chlordane	<0.0096		0.017	0.0096	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Heptachlor	<0.0091		0.017	0.0091	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Heptachlor epoxide	<0.0090		0.017	0.0090	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Methoxychlor	<0.011		0.082	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10
Toxaphene	<0.067		0.17	0.067	mg/Kg	☼	09/16/24 16:28	09/23/24 15:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*33 - 148*	*09/16/24 16:28*	*09/23/24 15:15*	*10*
Tetrachloro-m-xylene	*35*		*30 - 121*	*09/16/24 16:28*	*09/23/24 15:15*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 21:07	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 21:07	10

Client Sample ID: SB42 (7.5-10)
Date Collected: 09/04/24 12:52
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-24
Matrix: Solid
Percent Solids: 96.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 21:07	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 21:07	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 21:07	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 21:07	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 21:07	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/16/24 16:28	09/23/24 21:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*46*	*S1-*	*49 - 129*	*09/16/24 16:28*	*09/23/24 21:07*	*10*
DCB Decachlorobiphenyl	*70*		*37 - 121*	*09/16/24 16:28*	*09/23/24 21:07*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1000**		17		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Antimony	<1.7		1.7		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Arsenic	**1.3**		0.87		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Barium	**4.6**		0.87		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Beryllium	<1.7		1.7		mg/Kg	☼	09/17/24 10:12	09/19/24 12:51	5
Cadmium	<0.17		0.17		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Calcium	**43000**		17		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Chromium	**2.9**		0.87		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Cobalt	**1.8**		0.43		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Copper	**2.8**		0.87		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Iron	**3300**		17		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Lead	**0.78**		0.43		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Magnesium	**20000**		8.7		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Manganese	**160**		4.3		mg/Kg	☼	09/17/24 10:12	09/19/24 12:51	5
Nickel	**3.3**		0.87		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Potassium	**240**		43		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Selenium	<0.87		0.87		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Silver	<0.43		0.43		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Sodium	<87		87		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Thallium	<0.87		0.87		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Vanadium	**6.2**		0.43		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1
Zinc	**7.9**		1.7		mg/Kg	☼	09/17/24 10:12	09/19/24 01:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.23		0.23		mg/Kg	☼	09/09/24 11:02	09/09/24 15:40	1
pH (SW846 9045D)	**8.58**		0.20		SU			09/10/24 14:40	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB43 (0-3)
Lab Sample ID: 500-256166-25
Date Collected: 09/04/24 13:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00099		0.0024	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
1,1,2-Trichloroethane	<0.00092		0.0024	0.00092	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
1,1-Dichloroethane	<0.00092		0.0024	0.00092	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
1,1-Dichloroethene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
1,2-Dichloroethane	<0.0016		0.0061	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
1,2-Dichloropropane	<0.00063		0.0024	0.00063	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
2-Butanone (MEK)	<0.0027		0.0061	0.0027	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
2-Hexanone	<0.0037		0.0061	0.0037	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0061	0.0044	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Acetone	<0.010		0.024	0.010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Benzene	<0.00077		0.0024	0.00077	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Bromodichloromethane	<0.00079		0.0024	0.00079	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Bromomethane	<0.0030		0.0061	0.0030	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Carbon disulfide	**0.0037**	**J**	0.0061	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Carbon tetrachloride	<0.00083		0.0024	0.00083	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Chloroethane	<0.0020		0.0061	0.0020	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Chloroform	<0.0018		0.0024	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Chloromethane	<0.0012		0.0061	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
cis-1,2-Dichloroethene	<0.00099		0.0024	0.00099	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
1,3-Dichloropropene, Total	<0.0012		0.0024	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Ethylbenzene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Methyl tert-butyl ether	<0.00079		0.0024	0.00079	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Methylene Chloride	<0.0026		0.0061	0.0026	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Styrene	<0.0011		0.0024	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Tetrachloroethene	<0.0014		0.0024	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Toluene	<0.00049		0.0024	0.00049	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Xylenes, Total	<0.00084		0.0049	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
trans-1,2-Dichloroethene	<0.00093		0.0024	0.00093	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Trichloroethene	<0.00067		0.0024	0.00067	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1
Vinyl chloride	<0.0010		0.0024	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*09/05/24 18:07*	*09/12/24 04:14*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*09/05/24 18:07*	*09/12/24 04:14*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*09/05/24 18:07*	*09/12/24 04:14*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/05/24 18:07*	*09/12/24 04:14*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.022		0.11	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Acenaphthylene	<0.018		0.11	0.018	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Anthracene	<0.022		0.11	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Benzo[a]anthracene	**0.056**	**J**	0.11	0.023	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Benzo[a]pyrene	<0.10		0.11	0.10	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Benzo[b]fluoranthene	<0.10		0.11	0.10	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Benzo[g,h,i]perylene	<0.023		0.11	0.023	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2

Client Sample ID: SB43 (0-3)
Lab Sample ID: 500-256166-25
Date Collected: 09/04/24 13:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.041		0.11	0.041	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Chrysene	**0.036**	**J**	0.11	0.028	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Dibenz(a,h)anthracene	<0.11		0.11	0.11	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Fluoranthene	**0.044**	**J**	0.11	0.025	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Fluorene	<0.032		0.11	0.032	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Indeno[1,2,3-cd]pyrene	<0.10		0.11	0.10	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Naphthalene	<0.019		0.11	0.019	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Phenanthrene	**0.025**	**J**	0.11	0.023	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Pyrene	**0.044**	**J**	0.11	0.029	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
1,2,4-Trichlorobenzene	<0.077		0.54	0.077	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
1,2-Dichlorobenzene	<0.044		0.54	0.044	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
1,3-Dichlorobenzene	<0.049		0.54	0.049	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
1,4-Dichlorobenzene	<0.051		0.54	0.051	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2,4,5-Trichlorophenol	<0.040		1.1	0.040	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2,4,6-Trichlorophenol	<0.037		1.1	0.037	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2,4-Dichlorophenol	<0.038		1.1	0.038	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2,4-Dimethylphenol	<0.24	*+	1.1	0.24	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2,4-Dinitrophenol	<0.62		2.2	0.62	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2,4-Dinitrotoluene	<0.061		0.54	0.061	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2,6-Dinitrotoluene	<0.037		0.54	0.037	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2-Chloronaphthalene	<0.040		0.54	0.040	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2-Chlorophenol	<0.035		0.54	0.035	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2-Methylnaphthalene	<0.022		0.22	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2-Methylphenol	<0.057		0.54	0.057	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2-Nitroaniline	<0.058		0.54	0.058	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
2-Nitrophenol	<0.073		1.1	0.073	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
3,3'-Dichlorobenzidine	<0.088		0.54	0.088	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
3 & 4 Methylphenol	<0.079		0.54	0.079	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
3-Nitroaniline	<0.049		1.1	0.049	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
4,6-Dinitro-2-methylphenol	<0.61		2.2	0.61	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
4-Bromophenyl phenyl ether	<0.073		0.54	0.073	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
4-Chloro-3-methylphenol	<0.042		1.1	0.042	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
4-Chloroaniline	<1.1		2.2	1.1	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
4-Chlorophenyl phenyl ether	<0.14		0.54	0.14	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
4-Nitroaniline	<0.079		1.1	0.079	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
4-Nitrophenol	<0.40		2.2	0.40	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Bis(2-chloroethoxy)methane	<0.040		0.54	0.040	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Bis(2-chloroethyl)ether	<0.050		0.54	0.050	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
bis(chloroisopropyl) ether	<0.077		0.54	0.077	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Bis(2-ethylhexyl) phthalate	<0.42		0.54	0.42	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Butyl benzyl phthalate	<0.053		0.54	0.053	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Carbazole	<0.042		0.54	0.042	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Dibenzofuran	<0.038		0.54	0.038	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Diethyl phthalate	<0.049		0.54	0.049	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Dimethyl phthalate	<0.023		0.54	0.023	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Di-n-butyl phthalate	<0.034		0.54	0.034	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Di-n-octyl phthalate	<0.75		1.1	0.75	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Hexachlorobenzene	<0.021		0.22	0.021	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Hexachlorobutadiene	<0.061		0.54	0.061	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB43 (0-3)
Lab Sample ID: 500-256166-25
Date Collected: 09/04/24 13:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.1		2.2	1.1	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Hexachloroethane	<0.054		0.54	0.054	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Isophorone	<0.055		0.54	0.055	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Nitrobenzene	<0.034		0.11	0.034	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
N-Nitrosodi-n-propylamine	<0.021		0.22	0.021	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
N-Nitrosodiphenylamine	<0.064		0.54	0.064	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Pentachlorophenol	<0.27		2.2	0.27	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2
Phenol	<0.047		0.54	0.047	mg/Kg	☼	09/16/24 15:05	09/17/24 16:20	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*21*	*S1-*	*31 - 166*	*09/16/24 15:05*	*09/17/24 16:20*	*2*
Phenol-d5 (Surr)	*56*		*30 - 153*	*09/16/24 15:05*	*09/17/24 16:20*	*2*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*09/16/24 15:05*	*09/17/24 16:20*	*2*
2-Fluorobiphenyl (Surr)	*64*		*43 - 145*	*09/16/24 15:05*	*09/17/24 16:20*	*2*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/16/24 15:05*	*09/17/24 16:20*	*2*
Terphenyl-d14 (Surr)	*68*		*42 - 157*	*09/16/24 15:05*	*09/17/24 16:20*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0096		0.018	0.0096	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
4,4'-DDE	<0.0092		0.018	0.0092	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
4,4'-DDT	<0.0085		0.018	0.0085	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
alpha-Chlordane	<0.0095		0.018	0.0095	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
delta-BHC	<0.0085		0.018	0.0085	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Dieldrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Endosulfan I	<0.0096		0.018	0.0096	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Endosulfan II	<0.0098		0.018	0.0098	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Endosulfan sulfate	<0.0099		0.018	0.0099	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Endrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Endrin ketone	<0.0087		0.018	0.0087	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
gamma-BHC (Lindane)	<0.0089		0.018	0.0089	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Heptachlor	<0.0097		0.018	0.0097	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Heptachlor epoxide	<0.0096		0.018	0.0096	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Methoxychlor	<0.012		0.088	0.012	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/16/24 16:28	09/23/24 15:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*33 - 148*	*09/16/24 16:28*	*09/23/24 15:27*	*10*
Tetrachloro-m-xylene	*26*	*S1-*	*30 - 121*	*09/16/24 16:28*	*09/23/24 15:27*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 21:22	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 21:22	10

Client Sample ID: SB43 (0-3)
Lab Sample ID: 500-256166-25
Date Collected: 09/04/24 13:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 21:22	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 21:22	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 21:22	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 21:22	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 21:22	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/16/24 16:28	09/23/24 21:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*49 - 129*	*09/16/24 16:28*	*09/23/24 21:22*	*10*
DCB Decachlorobiphenyl	*67*		*37 - 121*	*09/16/24 16:28*	*09/23/24 21:22*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9500**		20		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Antimony	<2.0		2.0		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Arsenic	**1.7**		1.0		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Barium	**120**		1.0		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Beryllium	**2.0**		2.0		mg/Kg	☼	09/17/24 10:12	09/19/24 12:55	5
Cadmium	<0.20		0.20		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Calcium	**180000**		100		mg/Kg	☼	09/17/24 10:12	09/19/24 12:55	5
Chromium	**13**		1.0		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Cobalt	**1.9**		0.50		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Copper	**3.3**		1.0		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Iron	**4500**		20		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Lead	<0.50		0.50		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Magnesium	**44000**		10		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Manganese	**1400**		5.0		mg/Kg	☼	09/17/24 10:12	09/19/24 12:55	5
Nickel	**4.5**		1.0		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Potassium	**630**		50		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Selenium	<1.0		1.0		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Silver	<2.5		2.5		mg/Kg	☼	09/17/24 10:12	09/19/24 12:55	5
Sodium	**310**		100		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Thallium	**2.6**		1.0		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Vanadium	**10**		0.50		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1
Zinc	**8.3**		2.0		mg/Kg	☼	09/17/24 10:12	09/19/24 01:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/19/24 17:20	09/20/24 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**7.7**		1.2		mg/Kg	☼	09/09/24 11:02	09/09/24 17:24	5
pH (SW846 9045D)	**12.08**		0.20		SU			09/10/24 14:43	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB43 (10-12.5)
Lab Sample ID: 500-256166-26
Date Collected: 09/04/24 13:47
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
1,1,2-Trichloroethane	<0.00093		0.0025	0.00093	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
1,1-Dichloroethane	<0.00093		0.0025	0.00093	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
1,2-Dichloroethane	<0.0016		0.0062	0.0016	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
1,2-Dichloropropane	<0.00064		0.0025	0.00064	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
2-Butanone (MEK)	**0.0094**		0.0062	0.0027	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
2-Hexanone	<0.0038		0.0062	0.0038	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0062	0.0044	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Acetone	**0.041**		0.025	0.010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Benzene	**0.0057**		0.0025	0.00078	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Bromodichloromethane	<0.00080		0.0025	0.00080	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Bromoform	<0.0014		0.0025	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Bromomethane	<0.0031		0.0062	0.0031	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Carbon disulfide	**0.0018**	**J**	0.0062	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Carbon tetrachloride	<0.00084		0.0025	0.00084	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Chlorobenzene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Chloroethane	<0.0020		0.0062	0.0020	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Chloromethane	<0.0012		0.0062	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
cis-1,2-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Dibromochloromethane	<0.0011		0.0025	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Methyl tert-butyl ether	<0.00080		0.0025	0.00080	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Methylene Chloride	<0.0026		0.0062	0.0026	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Styrene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Toluene	**0.0033**		0.0025	0.00050	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Xylenes, Total	<0.00085		0.0050	0.00085	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
trans-1,2-Dichloroethene	<0.00094		0.0025	0.00094	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Trichloroethene	<0.00067		0.0025	0.00067	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	09/05/24 18:07	09/12/24 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*09/05/24 18:07*	*09/12/24 04:38*	*1*
4-Bromofluorobenzene (Surr)	*126*		*75 - 131*	*09/05/24 18:07*	*09/12/24 04:38*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*09/05/24 18:07*	*09/12/24 04:38*	*1*
Toluene-d8 (Surr)	*112*		*75 - 124*	*09/05/24 18:07*	*09/12/24 04:38*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015		0.073	0.015	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Acenaphthylene	<0.012		0.073	0.012	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Anthracene	**0.14**		0.073	0.015	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Benzo[a]anthracene	**0.22**		0.073	0.016	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Benzo[a]pyrene	**0.11**		0.073	0.071	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Benzo[b]fluoranthene	**0.14**		0.073	0.070	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Benzo[g,h,i]perylene	**0.070**	**J**	0.073	0.016	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB43 (10-12.5)
Lab Sample ID: 500-256166-26
Date Collected: 09/04/24 13:47
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.065**	**J**	0.073	0.028	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Chrysene	**0.30**		0.073	0.019	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Dibenz(a,h)anthracene	<0.073		0.073	0.073	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Fluoranthene	**0.41**		0.073	0.017	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Fluorene	<0.022		0.073	0.022	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Indeno[1,2,3-cd]pyrene	<0.071		0.073	0.071	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Naphthalene	**0.19**		0.073	0.013	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Phenanthrene	**3.1**		0.073	0.016	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Pyrene	**0.34**		0.073	0.020	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
1,2,4-Trichlorobenzene	<0.052		0.37	0.052	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
1,3-Dichlorobenzene	<0.033		0.37	0.033	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
1,4-Dichlorobenzene	<0.035		0.37	0.035	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2,4,5-Trichlorophenol	<0.028		0.73	0.028	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2,4,6-Trichlorophenol	<0.025		0.73	0.025	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2,4-Dichlorophenol	<0.026		0.73	0.026	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2,4-Dimethylphenol	<0.16	*+	0.73	0.16	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2,4-Dinitrotoluene	<0.042		0.37	0.042	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2-Chloronaphthalene	<0.027		0.37	0.027	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2-Chlorophenol	<0.024		0.37	0.024	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2-Methylnaphthalene	**0.62**		0.15	0.015	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2-Methylphenol	<0.039		0.37	0.039	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2-Nitroaniline	<0.039		0.37	0.039	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
2-Nitrophenol	<0.050		0.73	0.050	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
3,3'-Dichlorobenzidine	<0.060		0.37	0.060	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
3 & 4 Methylphenol	<0.054		0.37	0.054	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
3-Nitroaniline	<0.033		0.73	0.033	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
4-Bromophenyl phenyl ether	<0.050		0.37	0.050	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
4-Chloro-3-methylphenol	<0.029		0.73	0.029	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
4-Chloroaniline	<0.77		1.5	0.77	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
4-Chlorophenyl phenyl ether	<0.096		0.37	0.096	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
4-Nitroaniline	<0.054		0.73	0.054	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Bis(2-chloroethoxy)methane	<0.027		0.37	0.027	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Bis(2-chloroethyl)ether	<0.034		0.37	0.034	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
bis(chloroisopropyl) ether	<0.053		0.37	0.053	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Bis(2-ethylhexyl) phthalate	<0.29		0.37	0.29	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Butyl benzyl phthalate	<0.037		0.37	0.037	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Carbazole	**0.043**	**J**	0.37	0.029	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Dibenzofuran	**0.17**	**J**	0.37	0.026	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Diethyl phthalate	<0.034		0.37	0.034	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Di-n-butyl phthalate	<0.023		0.37	0.023	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Di-n-octyl phthalate	<0.51		0.73	0.51	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Hexachlorobutadiene	<0.041		0.37	0.041	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB43 (10-12.5)
Lab Sample ID: 500-256166-26
Date Collected: 09/04/24 13:47
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.78		1.5	0.78	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Hexachloroethane	<0.037		0.37	0.037	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Isophorone	<0.038		0.37	0.038	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Nitrobenzene	<0.023		0.073	0.023	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
N-Nitrosodiphenylamine	<0.044		0.37	0.044	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2
Phenol	<0.032		0.37	0.032	mg/Kg	☼	09/16/24 15:05	09/17/24 16:45	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*31 - 166*	*09/16/24 15:05*	*09/17/24 16:45*	*2*
Phenol-d5 (Surr)	*63*		*30 - 153*	*09/16/24 15:05*	*09/17/24 16:45*	*2*
Nitrobenzene-d5 (Surr)	*63*		*37 - 147*	*09/16/24 15:05*	*09/17/24 16:45*	*2*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/16/24 15:05*	*09/17/24 16:45*	*2*
2,4,6-Tribromophenol (Surr)	*52*		*31 - 143*	*09/16/24 15:05*	*09/17/24 16:45*	*2*
Terphenyl-d14 (Surr)	*61*		*42 - 157*	*09/16/24 15:05*	*09/17/24 16:45*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
4,4'-DDE	<0.0098		0.019	0.0098	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
4,4'-DDT	<0.0090		0.019	0.0090	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Chlordane (technical)	<0.036		0.075	0.036	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
delta-BHC	<0.0091		0.019	0.0091	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Dieldrin	<0.0099		0.019	0.0099	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Endrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Endrin ketone	<0.0092		0.019	0.0092	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
gamma-BHC (Lindane)	<0.0094		0.019	0.0094	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Methoxychlor	<0.012		0.093	0.012	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10
Toxaphene	<0.076		0.19	0.076	mg/Kg	☼	09/16/24 16:28	09/23/24 15:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*255*	*S1+*	*33 - 148*	*09/16/24 16:28*	*09/23/24 15:39*	*10*
Tetrachloro-m-xylene	*885*	*S1+*	*30 - 121*	*09/16/24 16:28*	*09/23/24 15:39*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 21:38	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 21:38	10

Client Sample ID: SB43 (10-12.5)
Date Collected: 09/04/24 13:47
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-26
Matrix: Solid
Percent Solids: 88.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 21:38	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 21:38	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 21:38	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 21:38	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 21:38	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/16/24 16:28	09/23/24 21:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*116*		*49 - 129*	*09/16/24 16:28*	*09/23/24 21:38*	*10*
DCB Decachlorobiphenyl	*69*		*37 - 121*	*09/16/24 16:28*	*09/23/24 21:38*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5400**		22		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Antimony	<2.2		2.2		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Arsenic	**5.2**		1.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Barium	**54**		1.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Beryllium	<2.2		2.2		mg/Kg	☼	09/17/24 10:12	09/19/24 13:00	5
Cadmium	**0.31**		0.22		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Calcium	**19000**		22		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Chromium	**12**		1.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Cobalt	**6.0**		0.54		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Copper	**380**		5.4		mg/Kg	☼	09/17/24 10:12	09/19/24 13:00	5
Iron	**42000**		22		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Lead	**76**		0.54		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Magnesium	**5900**		11		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Manganese	**1200**		5.4		mg/Kg	☼	09/17/24 10:12	09/19/24 13:00	5
Nickel	**14**		1.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Potassium	**480**		54		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Selenium	**2.0**		1.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Silver	<0.54		0.54		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Sodium	**750**		110		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Thallium	**3.6**		1.1		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Vanadium	**23**		0.54		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1
Zinc	**900**		2.2		mg/Kg	☼	09/17/24 10:12	09/19/24 01:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.047**		0.017		mg/Kg	☼	09/19/24 17:20	09/20/24 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.6**		0.26		mg/Kg	☼	09/09/24 11:02	09/09/24 16:30	1
pH (SW846 9045D)	**7.29**		0.20		SU			09/10/24 14:47	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 784775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	5035	

Prep Batch: 784790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	5035	
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	5035	
500-256166-3	SB32 (0-3)	Total/NA	Solid	5035	
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	5035	
500-256166-5	SB33 (0-3)	Total/NA	Solid	5035	
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	5035	
500-256166-7	SB34 (0-3)	Total/NA	Solid	5035	
500-256166-9	SB35 (0-3)	Total/NA	Solid	5035	
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	5035	
500-256166-11	SB36 (0-3)	Total/NA	Solid	5035	
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	5035	
500-256166-13	SB37 (0-3)	Total/NA	Solid	5035	
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	5035	
500-256166-15	SB38 (0-3)	Total/NA	Solid	5035	
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	5035	
500-256166-17	SB39 (0-3)	Total/NA	Solid	5035	
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	5035	
500-256166-19	SB40 (0-3)	Total/NA	Solid	5035	
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	5035	
500-256166-21	SB41 (0-3)	Total/NA	Solid	5035	
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	5035	
500-256166-23	SB42 (0-3)	Total/NA	Solid	5035	
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	5035	
500-256166-25	SB43 (0-3)	Total/NA	Solid	5035	
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	5035	

Analysis Batch: 785608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	8260D	784790
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	8260D	784790
500-256166-3	SB32 (0-3)	Total/NA	Solid	8260D	784790
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	8260D	784790
500-256166-5	SB33 (0-3)	Total/NA	Solid	8260D	784790
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	8260D	784790
500-256166-7	SB34 (0-3)	Total/NA	Solid	8260D	784790
500-256166-9	SB35 (0-3)	Total/NA	Solid	8260D	784790
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	8260D	784790
500-256166-11	SB36 (0-3)	Total/NA	Solid	8260D	784790
MB 500-785608/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785608/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-785608/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 785609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	8260D	784790
500-256166-13	SB37 (0-3)	Total/NA	Solid	8260D	784790
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	8260D	784790

GC/MS VOA (Continued)

Analysis Batch: 785609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-15	SB38 (0-3)	Total/NA	Solid	8260D	784790
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	8260D	784790
500-256166-17	SB39 (0-3)	Total/NA	Solid	8260D	784790
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	8260D	784790
500-256166-19	SB40 (0-3)	Total/NA	Solid	8260D	784790
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	8260D	784790
500-256166-21	SB41 (0-3)	Total/NA	Solid	8260D	784790
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	8260D	784790
500-256166-23	SB42 (0-3)	Total/NA	Solid	8260D	784790
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	8260D	784790
500-256166-25	SB43 (0-3)	Total/NA	Solid	8260D	784790
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	8260D	784790
MB 500-785609/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785609/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-785609/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 785875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	8260D	784775
MB 500-785875/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785875/4	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 786293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-21 - DL	SB41 (0-3)	Total/NA	Solid	3546	
500-256166-21	SB41 (0-3)	Total/NA	Solid	3546	
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	3546	
500-256166-23	SB42 (0-3)	Total/NA	Solid	3546	
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	3546	
500-256166-25	SB43 (0-3)	Total/NA	Solid	3546	
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	3546	
MB 500-786293/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-786293/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 786368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	3546	
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	3546	
500-256166-3	SB32 (0-3)	Total/NA	Solid	3546	
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	3546	
500-256166-5	SB33 (0-3)	Total/NA	Solid	3546	
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	3546	
500-256166-7	SB34 (0-3)	Total/NA	Solid	3546	
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	3546	
500-256166-9	SB35 (0-3)	Total/NA	Solid	3546	
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	3546	
500-256166-11	SB36 (0-3)	Total/NA	Solid	3546	
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	3546	
500-256166-13	SB37 (0-3)	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 786368 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	3546	
500-256166-15	SB38 (0-3)	Total/NA	Solid	3546	
500-256166-16 - DL	SB38 (12.5-15)	Total/NA	Solid	3546	
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	3546	
500-256166-17	SB39 (0-3)	Total/NA	Solid	3546	
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	3546	
500-256166-19	SB40 (0-3)	Total/NA	Solid	3546	
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	3546	
MB 500-786368/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-786368/2-A	Lab Control Sample	Total/NA	Solid	3546	
500-256166-3 MS	SB32 (0-3)	Total/NA	Solid	3546	
500-256166-3 MSD	SB32 (0-3)	Total/NA	Solid	3546	

Analysis Batch: 786382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-21	SB41 (0-3)	Total/NA	Solid	8270E	786293
500-256166-21 - DL	SB41 (0-3)	Total/NA	Solid	8270E	786293
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	8270E	786293
500-256166-23	SB42 (0-3)	Total/NA	Solid	8270E	786293
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	8270E	786293
500-256166-25	SB43 (0-3)	Total/NA	Solid	8270E	786293
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	8270E	786293

Analysis Batch: 786395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	8270E	786368
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	8270E	786368
500-256166-3	SB32 (0-3)	Total/NA	Solid	8270E	786368
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	8270E	786368
500-256166-5	SB33 (0-3)	Total/NA	Solid	8270E	786368
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	8270E	786368
500-256166-7	SB34 (0-3)	Total/NA	Solid	8270E	786368
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	8270E	786368
500-256166-9	SB35 (0-3)	Total/NA	Solid	8270E	786368
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	8270E	786368
500-256166-11	SB36 (0-3)	Total/NA	Solid	8270E	786368
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	8270E	786368
500-256166-13	SB37 (0-3)	Total/NA	Solid	8270E	786368
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	8270E	786368
500-256166-15	SB38 (0-3)	Total/NA	Solid	8270E	786368
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	8270E	786368
500-256166-17	SB39 (0-3)	Total/NA	Solid	8270E	786368
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	8270E	786368
500-256166-19	SB40 (0-3)	Total/NA	Solid	8270E	786368
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	8270E	786368
MB 500-786368/1-A	Method Blank	Total/NA	Solid	8270E	786368
LCS 500-786368/2-A	Lab Control Sample	Total/NA	Solid	8270E	786368
500-256166-3 MS	SB32 (0-3)	Total/NA	Solid	8270E	786368
500-256166-3 MSD	SB32 (0-3)	Total/NA	Solid	8270E	786368

GC/MS Semi VOA

Analysis Batch: 786597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-16 - DL	SB38 (12.5-15)	Total/NA	Solid	8270E	786368
MB 500-786293/1-A	Method Blank	Total/NA	Solid	8270E	786293
LCS 500-786293/2-A	Lab Control Sample	Total/NA	Solid	8270E	786293

GC VOA

Prep Batch: 784775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	5035	

Analysis Batch: 784948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	8015D	784775
MB 500-784948/3	Method Blank	Total/NA	Solid	8015D	
LCS 500-784948/4	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 785024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	3541	
MB 500-785024/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-785024/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-256166-14 MS	SB37 (12.5-15)	Total/NA	Solid	3541	
500-256166-14 MSD	SB37 (12.5-15)	Total/NA	Solid	3541	

Analysis Batch: 785398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	8015D	785024
MB 500-785024/1-A	Method Blank	Total/NA	Solid	8015D	785024
LCS 500-785024/2-A	Lab Control Sample	Total/NA	Solid	8015D	785024
500-256166-14 MS	SB37 (12.5-15)	Total/NA	Solid	8015D	785024
500-256166-14 MSD	SB37 (12.5-15)	Total/NA	Solid	8015D	785024

Prep Batch: 785839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	3541	
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	3541	
500-256166-3	SB32 (0-3)	Total/NA	Solid	3541	
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	3541	
500-256166-5	SB33 (0-3)	Total/NA	Solid	3541	
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	3541	
500-256166-7	SB34 (0-3)	Total/NA	Solid	3541	
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	3541	
500-256166-9	SB35 (0-3)	Total/NA	Solid	3541	
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	3541	
500-256166-11	SB36 (0-3)	Total/NA	Solid	3541	
MB 500-785839/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-785839/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-785839/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256166-1 MS	SB31 (0-3)	Total/NA	Solid	3541	
500-256166-1 MS	SB31 (0-3)	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 785839 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1 MSD	SB31 (0-3)	Total/NA	Solid	3541	
500-256166-1 MSD	SB31 (0-3)	Total/NA	Solid	3541	

Prep Batch: 786310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	3541	
500-256166-13	SB37 (0-3)	Total/NA	Solid	3541	
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	3541	
500-256166-15	SB38 (0-3)	Total/NA	Solid	3541	
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	3541	
500-256166-17	SB39 (0-3)	Total/NA	Solid	3541	
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	3541	
500-256166-19	SB40 (0-3)	Total/NA	Solid	3541	
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	3541	
500-256166-21	SB41 (0-3)	Total/NA	Solid	3541	
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	3541	
500-256166-23	SB42 (0-3)	Total/NA	Solid	3541	
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	3541	
500-256166-25	SB43 (0-3)	Total/NA	Solid	3541	
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	3541	
MB 500-786310/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-786310/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-786310/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256166-12 MS	SB36 (5-7.5)	Total/NA	Solid	3541	
500-256166-12 MS	SB36 (5-7.5)	Total/NA	Solid	3541	
500-256166-12 MSD	SB36 (5-7.5)	Total/NA	Solid	3541	
500-256166-12 MSD	SB36 (5-7.5)	Total/NA	Solid	3541	

Analysis Batch: 786882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	8082A	785839
500-256166-5	SB33 (0-3)	Total/NA	Solid	8082A	785839
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	8082A	785839
500-256166-7	SB34 (0-3)	Total/NA	Solid	8082A	785839
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	8082A	785839
500-256166-9	SB35 (0-3)	Total/NA	Solid	8082A	785839
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	8082A	785839
500-256166-11	SB36 (0-3)	Total/NA	Solid	8082A	785839
MB 500-785839/1-A	Method Blank	Total/NA	Solid	8082A	785839
LCS 500-785839/3-A	Lab Control Sample	Total/NA	Solid	8082A	785839

Analysis Batch: 787130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	8081B	785839
500-256166-3	SB32 (0-3)	Total/NA	Solid	8081B	785839
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	8081B	785839
500-256166-5	SB33 (0-3)	Total/NA	Solid	8081B	785839
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	8081B	785839
500-256166-7	SB34 (0-3)	Total/NA	Solid	8081B	785839
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	8081B	785839
500-256166-11	SB36 (0-3)	Total/NA	Solid	8081B	785839

GC Semi VOA (Continued)

Analysis Batch: 787130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	8081B	786310
500-256166-13	SB37 (0-3)	Total/NA	Solid	8081B	786310
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	8081B	786310
500-256166-15	SB38 (0-3)	Total/NA	Solid	8081B	786310
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	8081B	786310
500-256166-17	SB39 (0-3)	Total/NA	Solid	8081B	786310
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	8081B	786310
500-256166-19	SB40 (0-3)	Total/NA	Solid	8081B	786310
MB 500-785839/1-A	Method Blank	Total/NA	Solid	8081B	785839
MB 500-786310/1-A	Method Blank	Total/NA	Solid	8081B	786310
LCS 500-785839/2-A	Lab Control Sample	Total/NA	Solid	8081B	785839
LCS 500-786310/2-A	Lab Control Sample	Total/NA	Solid	8081B	786310
500-256166-12 MS	SB36 (5-7.5)	Total/NA	Solid	8081B	786310
500-256166-12 MSD	SB36 (5-7.5)	Total/NA	Solid	8081B	786310

Analysis Batch: 787250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	8081B	785839
500-256166-1	SB31 (0-3)	Total/NA	Solid	8081B	785839
500-256166-9	SB35 (0-3)	Total/NA	Solid	8081B	785839
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	8081B	785839
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	8081B	785839
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	8081B	786310
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	8081B	786310
500-256166-21	SB41 (0-3)	Total/NA	Solid	8081B	786310
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	8081B	786310
500-256166-23	SB42 (0-3)	Total/NA	Solid	8081B	786310
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	8081B	786310
500-256166-25	SB43 (0-3)	Total/NA	Solid	8081B	786310
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	8081B	786310
MB 500-785839/1-A	Method Blank	Total/NA	Solid	8081B	785839
LCS 500-785839/2-A	Lab Control Sample	Total/NA	Solid	8081B	785839
500-256166-1 MS	SB31 (0-3)	Total/NA	Solid	8081B	785839
500-256166-1 MS	SB31 (0-3)	Total/NA	Solid	8081B	785839
500-256166-1 MSD	SB31 (0-3)	Total/NA	Solid	8081B	785839
500-256166-1 MSD	SB31 (0-3)	Total/NA	Solid	8081B	785839

Analysis Batch: 787365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	8082A	786310
500-256166-13	SB37 (0-3)	Total/NA	Solid	8082A	786310
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	8082A	786310
500-256166-15	SB38 (0-3)	Total/NA	Solid	8082A	786310
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	8082A	786310
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	8082A	786310
500-256166-19	SB40 (0-3)	Total/NA	Solid	8082A	786310
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	8082A	786310
500-256166-21	SB41 (0-3)	Total/NA	Solid	8082A	786310
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	8082A	786310
500-256166-23	SB42 (0-3)	Total/NA	Solid	8082A	786310
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	8082A	786310

GC Semi VOA (Continued)

Analysis Batch: 787365 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-25	SB43 (0-3)	Total/NA	Solid	8082A	786310
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	8082A	786310
500-256166-12 MS	SB36 (5-7.5)	Total/NA	Solid	8082A	786310
500-256166-12 MSD	SB36 (5-7.5)	Total/NA	Solid	8082A	786310

Analysis Batch: 787465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	8082A	785839
500-256166-3	SB32 (0-3)	Total/NA	Solid	8082A	785839

Analysis Batch: 787624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-786310/1-A	Method Blank	Total/NA	Solid	8082A	786310
LCS 500-786310/3-A	Lab Control Sample	Total/NA	Solid	8082A	786310

Analysis Batch: 787802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	8082A	785839
500-256166-1 MS	SB31 (0-3)	Total/NA	Solid	8082A	785839
500-256166-1 MSD	SB31 (0-3)	Total/NA	Solid	8082A	785839

Analysis Batch: 787803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-17	SB39 (0-3)	Total/NA	Solid	8082A	786310

Metals

Prep Batch: 786420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-21	SB41 (0-3)	Total/NA	Solid	3050B	
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	3050B	
500-256166-23	SB42 (0-3)	Total/NA	Solid	3050B	
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	3050B	
500-256166-25	SB43 (0-3)	Total/NA	Solid	3050B	
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	3050B	
MB 500-786420/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786420/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 786514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	3050B	
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	3050B	
500-256166-3	SB32 (0-3)	Total/NA	Solid	3050B	
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	3050B	
500-256166-5	SB33 (0-3)	Total/NA	Solid	3050B	
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	3050B	
500-256166-7	SB34 (0-3)	Total/NA	Solid	3050B	
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	3050B	
500-256166-9	SB35 (0-3)	Total/NA	Solid	3050B	
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	3050B	
500-256166-11	SB36 (0-3)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 786514 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	3050B	
500-256166-13	SB37 (0-3)	Total/NA	Solid	3050B	
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	3050B	
500-256166-15	SB38 (0-3)	Total/NA	Solid	3050B	
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	3050B	
500-256166-17	SB39 (0-3)	Total/NA	Solid	3050B	
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	3050B	
500-256166-19	SB40 (0-3)	Total/NA	Solid	3050B	
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	3050B	
MB 500-786514/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786514/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-256166-1 MS	SB31 (0-3)	Total/NA	Solid	3050B	
500-256166-1 MSD	SB31 (0-3)	Total/NA	Solid	3050B	
500-256166-1 DU	SB31 (0-3)	Total/NA	Solid	3050B	

Analysis Batch: 786816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	6010D	786514
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	6010D	786514
500-256166-3	SB32 (0-3)	Total/NA	Solid	6010D	786514
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-5	SB33 (0-3)	Total/NA	Solid	6010D	786514
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-7	SB34 (0-3)	Total/NA	Solid	6010D	786514
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-9	SB35 (0-3)	Total/NA	Solid	6010D	786514
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	6010D	786514
500-256166-11	SB36 (0-3)	Total/NA	Solid	6010D	786514
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-13	SB37 (0-3)	Total/NA	Solid	6010D	786514
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	6010D	786514
500-256166-15	SB38 (0-3)	Total/NA	Solid	6010D	786514
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	6010D	786514
500-256166-17	SB39 (0-3)	Total/NA	Solid	6010D	786514
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	6010D	786514
500-256166-19	SB40 (0-3)	Total/NA	Solid	6010D	786514
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-21	SB41 (0-3)	Total/NA	Solid	6010D	786420
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	6010D	786420
500-256166-23	SB42 (0-3)	Total/NA	Solid	6010D	786420
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	6010D	786420
500-256166-25	SB43 (0-3)	Total/NA	Solid	6010D	786420
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	6010D	786420
MB 500-786420/1-A	Method Blank	Total/NA	Solid	6010D	786420
MB 500-786514/1-A	Method Blank	Total/NA	Solid	6010D	786514
LCS 500-786420/2-A	Lab Control Sample	Total/NA	Solid	6010D	786420
LCS 500-786514/2-A	Lab Control Sample	Total/NA	Solid	6010D	786514
500-256166-1 MS	SB31 (0-3)	Total/NA	Solid	6010D	786514
500-256166-1 MSD	SB31 (0-3)	Total/NA	Solid	6010D	786514
500-256166-1 DU	SB31 (0-3)	Total/NA	Solid	6010D	786514

Metals

Prep Batch: 786905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	7471B	
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	7471B	
500-256166-3	SB32 (0-3)	Total/NA	Solid	7471B	
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	7471B	
500-256166-5	SB33 (0-3)	Total/NA	Solid	7471B	
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	7471B	
500-256166-7	SB34 (0-3)	Total/NA	Solid	7471B	
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	7471B	
500-256166-9	SB35 (0-3)	Total/NA	Solid	7471B	
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	7471B	
500-256166-11	SB36 (0-3)	Total/NA	Solid	7471B	
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	7471B	
500-256166-13	SB37 (0-3)	Total/NA	Solid	7471B	
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	7471B	
500-256166-15	SB38 (0-3)	Total/NA	Solid	7471B	
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	7471B	
500-256166-17	SB39 (0-3)	Total/NA	Solid	7471B	
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	7471B	
500-256166-19	SB40 (0-3)	Total/NA	Solid	7471B	
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	7471B	
MB 500-786905/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-786905/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-256166-10 MS	SB35 (7.5-10)	Total/NA	Solid	7471B	
500-256166-10 MSD	SB35 (7.5-10)	Total/NA	Solid	7471B	
500-256166-10 DU	SB35 (7.5-10)	Total/NA	Solid	7471B	

Prep Batch: 786922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-21	SB41 (0-3)	Total/NA	Solid	7471B	
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	7471B	
500-256166-23	SB42 (0-3)	Total/NA	Solid	7471B	
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	7471B	
500-256166-25	SB43 (0-3)	Total/NA	Solid	7471B	
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	7471B	
MB 500-786922/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-786922/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 786924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-21	SB41 (0-3)	Total/NA	Solid	6010D	786420
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	6010D	786420
500-256166-23	SB42 (0-3)	Total/NA	Solid	6010D	786420
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	6010D	786420
500-256166-25	SB43 (0-3)	Total/NA	Solid	6010D	786420
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	6010D	786420
MB 500-786420/1-A	Method Blank	Total/NA	Solid	6010D	786420
LCS 500-786420/2-A	Lab Control Sample	Total/NA	Solid	6010D	786420

Analysis Batch: 787025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	6010D	786514

Metals (Continued)

Analysis Batch: 787025 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-3	SB32 (0-3)	Total/NA	Solid	6010D	786514
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-5	SB33 (0-3)	Total/NA	Solid	6010D	786514
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-7	SB34 (0-3)	Total/NA	Solid	6010D	786514
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-9	SB35 (0-3)	Total/NA	Solid	6010D	786514
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	6010D	786514
500-256166-11	SB36 (0-3)	Total/NA	Solid	6010D	786514
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-13	SB37 (0-3)	Total/NA	Solid	6010D	786514
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	6010D	786514
500-256166-15	SB38 (0-3)	Total/NA	Solid	6010D	786514
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	6010D	786514
500-256166-17	SB39 (0-3)	Total/NA	Solid	6010D	786514
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	6010D	786514
500-256166-19	SB40 (0-3)	Total/NA	Solid	6010D	786514
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-1 MS	SB31 (0-3)	Total/NA	Solid	6010D	786514
500-256166-1 MSD	SB31 (0-3)	Total/NA	Solid	6010D	786514
500-256166-1 DU	SB31 (0-3)	Total/NA	Solid	6010D	786514

Analysis Batch: 787087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	7471B	786905
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	7471B	786905
500-256166-3	SB32 (0-3)	Total/NA	Solid	7471B	786905
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	7471B	786905
500-256166-5	SB33 (0-3)	Total/NA	Solid	7471B	786905
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	7471B	786905
500-256166-7	SB34 (0-3)	Total/NA	Solid	7471B	786905
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	7471B	786905
500-256166-9	SB35 (0-3)	Total/NA	Solid	7471B	786905
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	7471B	786905
500-256166-11	SB36 (0-3)	Total/NA	Solid	7471B	786905
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	7471B	786905
500-256166-13	SB37 (0-3)	Total/NA	Solid	7471B	786905
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	7471B	786905
500-256166-15	SB38 (0-3)	Total/NA	Solid	7471B	786905
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	7471B	786905
500-256166-17	SB39 (0-3)	Total/NA	Solid	7471B	786905
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	7471B	786905
500-256166-19	SB40 (0-3)	Total/NA	Solid	7471B	786905
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	7471B	786905
500-256166-21	SB41 (0-3)	Total/NA	Solid	7471B	786922
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	7471B	786922
500-256166-23	SB42 (0-3)	Total/NA	Solid	7471B	786922
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	7471B	786922
500-256166-25	SB43 (0-3)	Total/NA	Solid	7471B	786922
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	7471B	786922
MB 500-786905/12-A	Method Blank	Total/NA	Solid	7471B	786905

Metals (Continued)

Analysis Batch: 787087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-786922/12-A	Method Blank	Total/NA	Solid	7471B	786922
LCS 500-786905/13-A	Lab Control Sample	Total/NA	Solid	7471B	786905
LCS 500-786922/13-A	Lab Control Sample	Total/NA	Solid	7471B	786922
500-256166-10 MS	SB35 (7.5-10)	Total/NA	Solid	7471B	786905
500-256166-10 MSD	SB35 (7.5-10)	Total/NA	Solid	7471B	786905
500-256166-10 DU	SB35 (7.5-10)	Total/NA	Solid	7471B	786905

Analysis Batch: 787103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	6010D	786514
500-256166-3	SB32 (0-3)	Total/NA	Solid	6010D	786514
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-5	SB33 (0-3)	Total/NA	Solid	6010D	786514
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-7	SB34 (0-3)	Total/NA	Solid	6010D	786514
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-9	SB35 (0-3)	Total/NA	Solid	6010D	786514
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	6010D	786514
500-256166-11	SB36 (0-3)	Total/NA	Solid	6010D	786514
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	6010D	786514
500-256166-13	SB37 (0-3)	Total/NA	Solid	6010D	786514
500-256166-15	SB38 (0-3)	Total/NA	Solid	6010D	786514
500-256166-17	SB39 (0-3)	Total/NA	Solid	6010D	786514
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	6010D	786514
500-256166-19	SB40 (0-3)	Total/NA	Solid	6010D	786514
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	6010D	786514
MRL 500-787103/15	Lab Control Sample	Total/NA	Solid	6010D	
500-256166-1 MS	SB31 (0-3)	Total/NA	Solid	6010D	786514
500-256166-1 MSD	SB31 (0-3)	Total/NA	Solid	6010D	786514
500-256166-1 DU	SB31 (0-3)	Total/NA	Solid	6010D	786514

General Chemistry

Prep Batch: 626558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	9030B	
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	9030B	
MB 240-626558/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-626558/2-A	Lab Control Sample	Total/NA	Solid	9030B	
500-256166-14 MS	SB37 (12.5-15)	Total/NA	Solid	9030B	
500-256166-14 MSD	SB37 (12.5-15)	Total/NA	Solid	9030B	

Analysis Batch: 626649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	9034	626558
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	9034	626558
MB 240-626558/1-A	Method Blank	Total/NA	Solid	9034	626558
LCS 240-626558/2-A	Lab Control Sample	Total/NA	Solid	9034	626558
500-256166-14 MS	SB37 (12.5-15)	Total/NA	Solid	9034	626558
500-256166-14 MSD	SB37 (12.5-15)	Total/NA	Solid	9034	626558

General Chemistry

Prep Batch: 784967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	9010C	
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	9010C	
500-256166-3	SB32 (0-3)	Total/NA	Solid	9010C	
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	9010C	
500-256166-5	SB33 (0-3)	Total/NA	Solid	9010C	
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	9010C	
500-256166-7	SB34 (0-3)	Total/NA	Solid	9010C	
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	9010C	
500-256166-9	SB35 (0-3)	Total/NA	Solid	9010C	
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	9010C	
500-256166-11	SB36 (0-3)	Total/NA	Solid	9010C	
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	9010C	
MB 500-784967/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-784967/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256166-1 MS	SB31 (0-3)	Total/NA	Solid	9010C	
500-256166-1 MSD	SB31 (0-3)	Total/NA	Solid	9010C	
500-256166-12 MS	SB36 (5-7.5)	Total/NA	Solid	9010C	
500-256166-12 MSD	SB36 (5-7.5)	Total/NA	Solid	9010C	

Prep Batch: 785065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-13	SB37 (0-3)	Total/NA	Solid	9010C	
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	9010C	
500-256166-15	SB38 (0-3)	Total/NA	Solid	9010C	
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	9010C	
500-256166-17	SB39 (0-3)	Total/NA	Solid	9010C	
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	9010C	
500-256166-19	SB40 (0-3)	Total/NA	Solid	9010C	
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	9010C	
500-256166-21	SB41 (0-3)	Total/NA	Solid	9010C	
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	9010C	
500-256166-23	SB42 (0-3)	Total/NA	Solid	9010C	
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	9010C	
500-256166-25	SB43 (0-3)	Total/NA	Solid	9010C	
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	9010C	
MB 500-785065/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-785065/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256166-23 MS	SB42 (0-3)	Total/NA	Solid	9010C	
500-256166-23 MSD	SB42 (0-3)	Total/NA	Solid	9010C	

Analysis Batch: 785290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	9012B	784967
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	9012B	784967
500-256166-3	SB32 (0-3)	Total/NA	Solid	9012B	784967
500-256166-5	SB33 (0-3)	Total/NA	Solid	9012B	784967
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	9012B	784967
500-256166-7	SB34 (0-3)	Total/NA	Solid	9012B	784967
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	9012B	784967
500-256166-9	SB35 (0-3)	Total/NA	Solid	9012B	784967
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	9012B	784967

General Chemistry (Continued)

Analysis Batch: 785290 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-784967/1-A	Method Blank	Total/NA	Solid	9012B	784967
LCS 500-784967/2-A	Lab Control Sample	Total/NA	Solid	9012B	784967
500-256166-1 MS	SB31 (0-3)	Total/NA	Solid	9012B	784967
500-256166-1 MSD	SB31 (0-3)	Total/NA	Solid	9012B	784967

Analysis Batch: 785291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-11	SB36 (0-3)	Total/NA	Solid	9012B	784967
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	9012B	784967
500-256166-13	SB37 (0-3)	Total/NA	Solid	9012B	785065
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	9012B	785065
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	9012B	785065
500-256166-17	SB39 (0-3)	Total/NA	Solid	9012B	785065
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	9012B	785065
500-256166-19	SB40 (0-3)	Total/NA	Solid	9012B	785065
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	9012B	785065
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	9012B	785065
MB 500-785065/1-A	Method Blank	Total/NA	Solid	9012B	785065
LCS 500-785065/2-A	Lab Control Sample	Total/NA	Solid	9012B	785065
500-256166-12 MS	SB36 (5-7.5)	Total/NA	Solid	9012B	784967
500-256166-12 MSD	SB36 (5-7.5)	Total/NA	Solid	9012B	784967
500-256166-12 MSD	SB36 (5-7.5)	Total/NA	Solid	9012B	784967

Analysis Batch: 785292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-15	SB38 (0-3)	Total/NA	Solid	9012B	785065
500-256166-21	SB41 (0-3)	Total/NA	Solid	9012B	785065
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	9012B	785065
500-256166-23	SB42 (0-3)	Total/NA	Solid	9012B	785065
500-256166-25	SB43 (0-3)	Total/NA	Solid	9012B	785065
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	9012B	785065
500-256166-23 MS	SB42 (0-3)	Total/NA	Solid	9012B	785065
500-256166-23 MSD	SB42 (0-3)	Total/NA	Solid	9012B	785065

Analysis Batch: 785458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	9045D	
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	9045D	
500-256166-3	SB32 (0-3)	Total/NA	Solid	9045D	
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	9045D	
500-256166-5	SB33 (0-3)	Total/NA	Solid	9045D	
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	9045D	
500-256166-7	SB34 (0-3)	Total/NA	Solid	9045D	
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	9045D	
500-256166-9	SB35 (0-3)	Total/NA	Solid	9045D	
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	9045D	
500-256166-11	SB36 (0-3)	Total/NA	Solid	9045D	
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	9045D	
500-256166-13	SB37 (0-3)	Total/NA	Solid	9045D	
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	9045D	
500-256166-15	SB38 (0-3)	Total/NA	Solid	9045D	

General Chemistry (Continued)

Analysis Batch: 785458 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	9045D	
500-256166-17	SB39 (0-3)	Total/NA	Solid	9045D	
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	9045D	
500-256166-19	SB40 (0-3)	Total/NA	Solid	9045D	
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	9045D	
500-256166-21	SB41 (0-3)	Total/NA	Solid	9045D	
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	9045D	
500-256166-23	SB42 (0-3)	Total/NA	Solid	9045D	
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	9045D	
500-256166-25	SB43 (0-3)	Total/NA	Solid	9045D	
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	9045D	
LCS 500-785458/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-785458/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-256166-3 DU	SB32 (0-3)	Total/NA	Solid	9045D	

Analysis Batch: 785986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	Total/NA	Solid	Moisture	
500-256166-2	SB31 (7.5-10)	Total/NA	Solid	Moisture	
500-256166-3	SB32 (0-3)	Total/NA	Solid	Moisture	
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	Moisture	
500-256166-5	SB33 (0-3)	Total/NA	Solid	Moisture	
500-256166-6	SB33 (5-7.5)	Total/NA	Solid	Moisture	
500-256166-7	SB34 (0-3)	Total/NA	Solid	Moisture	
500-256166-8	SB34 (5-7.5)	Total/NA	Solid	Moisture	
500-256166-9	SB35 (0-3)	Total/NA	Solid	Moisture	
500-256166-10	SB35 (7.5-10)	Total/NA	Solid	Moisture	
500-256166-11	SB36 (0-3)	Total/NA	Solid	Moisture	
500-256166-12	SB36 (5-7.5)	Total/NA	Solid	Moisture	
500-256166-13	SB37 (0-3)	Total/NA	Solid	Moisture	
500-256166-14	SB37 (12.5-15)	Total/NA	Solid	Moisture	
500-256166-15	SB38 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 785990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-16	SB38 (12.5-15)	Total/NA	Solid	Moisture	
500-256166-17	SB39 (0-3)	Total/NA	Solid	Moisture	
500-256166-18	SB39 (7.5-10)	Total/NA	Solid	Moisture	
500-256166-19	SB40 (0-3)	Total/NA	Solid	Moisture	
500-256166-20	SB40 (5-7.5)	Total/NA	Solid	Moisture	
500-256166-21	SB41 (0-3)	Total/NA	Solid	Moisture	
500-256166-22	SB41 (5-7.5)	Total/NA	Solid	Moisture	
500-256166-23	SB42 (0-3)	Total/NA	Solid	Moisture	
500-256166-24	SB42 (7.5-10)	Total/NA	Solid	Moisture	
500-256166-25	SB43 (0-3)	Total/NA	Solid	Moisture	
500-256166-26	SB43 (10-12.5)	Total/NA	Solid	Moisture	

Analysis Batch: 786447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-4	SB32 (5-7.5)	Total/NA	Solid	9012B	784967

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-256166-1	SB31 (0-3)	108	137 *3 S1+	111	135 S1+
500-256166-2	SB31 (7.5-10)	98	110	93	98
500-256166-3	SB32 (0-3)	99	112	99	102
500-256166-4	SB32 (5-7.5)	107	143 *3 S1+	110	133 S1+
500-256166-5	SB33 (0-3)	102	130	80	107
500-256166-6	SB33 (5-7.5)	102	133 S1+	98	119
500-256166-7	SB34 (0-3)	100	121	103	112
500-256166-9	SB35 (0-3)	97	110	96	106
500-256166-10	SB35 (7.5-10)	96	113	101	105
500-256166-11	SB36 (0-3)	102	137 S1+	89	116
500-256166-12	SB36 (5-7.5)	111	107	104	109
500-256166-13	SB37 (0-3)	106	120	98	112
500-256166-14	SB37 (12.5-15)	110	116	104	109
500-256166-15	SB38 (0-3)	104	103	99	109
500-256166-16	SB38 (12.5-15)	104	103	99	108
500-256166-17	SB39 (0-3)	107	106	88	99
500-256166-18	SB39 (7.5-10)	110	100	98	102
500-256166-19	SB40 (0-3)	106	110	99	105
500-256166-20	SB40 (5-7.5)	109	107	100	104
500-256166-21	SB41 (0-3)	108	104	76	99
500-256166-22	SB41 (5-7.5)	113	104	101	102
500-256166-23	SB42 (0-3)	109	113	105	105
500-256166-24	SB42 (7.5-10)	110	103	103	100
500-256166-25	SB43 (0-3)	109	107	95	101
500-256166-26	SB43 (10-12.5)	107	126	106	112
LCS 500-785608/4	Lab Control Sample	93	93	97	98
LCS 500-785609/4	Lab Control Sample	104	91	103	100
LCSD 500-785608/5	Lab Control Sample Dup	96	96	100	98
LCSD 500-785609/5	Lab Control Sample Dup	101	98	96	103
MB 500-785608/7	Method Blank	100	98	99	98
MB 500-785609/7	Method Blank	105	96	100	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-256166-8	SB34 (5-7.5)	102	94	89	86
LCS 500-785875/4	Lab Control Sample	91	91	86	91
MB 500-785875/7	Method Blank	94	95	86	88

Surrogate Legend

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256166-1	SB31 (0-3)	60	61	61	60	39	76
500-256166-2	SB31 (7.5-10)	55	60	63	63	44	72
500-256166-3	SB32 (0-3)	68	71	65	67	49	81
500-256166-3 MS	SB32 (0-3)	84	84	86	82	60	85
500-256166-3 MSD	SB32 (0-3)	80	81	85	81	60	85
500-256166-4	SB32 (5-7.5)	48	54	57	59	39	59
500-256166-5	SB33 (0-3)	44	61	57	62	5 S1-	76
500-256166-6	SB33 (5-7.5)	68	71	72	73	46	75
500-256166-7	SB34 (0-3)	71	69	82	78	42	69
500-256166-8	SB34 (5-7.5)	80	80	84	81	63	84
500-256166-9	SB35 (0-3)	48	48	53	51	25 S1-	54
500-256166-10	SB35 (7.5-10)	58	64	68	66	32	71
500-256166-11	SB36 (0-3)	38	44	42	49	13 S1-	65
500-256166-12	SB36 (5-7.5)	34	41	39	45	11 S1-	67
500-256166-13	SB37 (0-3)	43	51	51	56	38	60
500-256166-14	SB37 (12.5-15)	38	42	44	47	30 S1-	52
500-256166-15	SB38 (0-3)	44	49	46	50	45	66
500-256166-16	SB38 (12.5-15)	67	69	67	69	56	75
500-256166-16 - DL	SB38 (12.5-15)	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
500-256166-17	SB39 (0-3)	46	52	53	59	7 S1-	73
500-256166-18	SB39 (7.5-10)	42	65	72	72	6 S1-	79
500-256166-19	SB40 (0-3)	48	50	53	54	40	58
500-256166-20	SB40 (5-7.5)	65	66	65	67	51	70
500-256166-21	SB41 (0-3)	38	57	60	57	3 S1-	54
500-256166-21 - DL	SB41 (0-3)	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
500-256166-22	SB41 (5-7.5)	46	55	53	55	8 S1-	70
500-256166-23	SB42 (0-3)	62	70	69	70	56	67
500-256166-24	SB42 (7.5-10)	81	80	82	78	74	86
500-256166-25	SB43 (0-3)	21 S1-	56	66	64	0 S1-	68
500-256166-26	SB43 (10-12.5)	58	63	63	67	52	61
LCS 500-786293/2-A	Lab Control Sample	83	88	90	90	88	98
LCS 500-786368/2-A	Lab Control Sample	85	82	85	80	71	86
MB 500-786293/1-A	Method Blank	80	82	86	81	75	88
MB 500-786368/1-A	Method Blank	81	80	86	76	63	87

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-256166-14	SB37 (12.5-15)	107	117
LCS 500-784948/4	Lab Control Sample	108	110
MB 500-784948/3	Method Blank	104	109

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-256166-14	SB37 (12.5-15)	88	71
500-256166-14 MS	SB37 (12.5-15)	81	67
500-256166-14 MSD	SB37 (12.5-15)	80	68
LCS 500-785024/2-A	Lab Control Sample	85	76
MB 500-785024/1-A	Method Blank	76	71

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(33-148)	(30-121)
500-256166-1	SB31 (0-3)	0 S1-	0 S1-
500-256166-1 MS	SB31 (0-3)	83	44
500-256166-1 MS	SB31 (0-3)	0 S1-	0 S1-
500-256166-1 MSD	SB31 (0-3)	93	34
500-256166-1 MSD	SB31 (0-3)	0 S1-	0 S1-
500-256166-10	SB35 (7.5-10)	0 S1-	0 S1-
500-256166-21	SB41 (0-3)	38	19 S1-
500-256166-23	SB42 (0-3)	110	25 S1-
500-256166-24	SB42 (7.5-10)	68	35
500-256166-25	SB43 (0-3)	68	26 S1-
500-256166-26	SB43 (10-12.5)	255 S1+	885 S1+
LCS 500-785839/2-A	Lab Control Sample	75	47
MB 500-785839/1-A	Method Blank	81	64

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (33-148)	TCX2 (30-121)
500-256166-2	SB31 (7.5-10)	138	119
500-256166-3	SB32 (0-3)	460 S1+	80
500-256166-4	SB32 (5-7.5)	464 S1+	72
500-256166-5	SB33 (0-3)	236 S1+	116
500-256166-6	SB33 (5-7.5)	110	76
500-256166-7	SB34 (0-3)	319 S1+	72
500-256166-8	SB34 (5-7.5)	369 S1+	62
500-256166-9	SB35 (0-3)	0 S1-	0 S1-
500-256166-10	SB35 (7.5-10)	348 S1+	57
500-256166-11	SB36 (0-3)	213 S1+	70
500-256166-12	SB36 (5-7.5)	315 S1+	65
500-256166-12 MS	SB36 (5-7.5)	90	70
500-256166-12 MSD	SB36 (5-7.5)	286 S1+	72
500-256166-13	SB37 (0-3)	345 S1+	57
500-256166-14	SB37 (12.5-15)	149 S1+	74
500-256166-15	SB38 (0-3)	476 S1+	56
500-256166-16	SB38 (12.5-15)	294 S1+	69
500-256166-17	SB39 (0-3)	1950 S1+	87
500-256166-18	SB39 (7.5-10)	247 S1+	60
500-256166-19	SB40 (0-3)	850 S1+	60
500-256166-20	SB40 (5-7.5)	156 S1+	50
500-256166-20	SB40 (5-7.5)	0 S1-	0 S1-
500-256166-22	SB41 (5-7.5)	2016 S1+	82
LCS 500-785839/2-A	Lab Control Sample	80	47
LCS 500-786310/2-A	Lab Control Sample	90	70
MB 500-785839/1-A	Method Blank	99	74
MB 500-786310/1-A	Method Blank	95	64

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-256166-1	SB31 (0-3)	0 S1-	0 S1-
500-256166-1 MS	SB31 (0-3)	0 S1-	0 S1-
500-256166-1 MSD	SB31 (0-3)	0 S1-	0 S1-
500-256166-12	SB36 (5-7.5)	68	100
500-256166-12 MS	SB36 (5-7.5)	55	72
500-256166-12 MSD	SB36 (5-7.5)	52	74
500-256166-13	SB37 (0-3)	51	77
500-256166-14	SB37 (12.5-15)	82	79
500-256166-15	SB38 (0-3)	60	120
500-256166-16	SB38 (12.5-15)	52	83
500-256166-17	SB39 (0-3)	0 S1-	0 S1-
500-256166-18	SB39 (7.5-10)	51	89
500-256166-19	SB40 (0-3)	53	122 S1+

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-256166-20	SB40 (5-7.5)	113	100
500-256166-23	SB42 (0-3)	61	88
500-256166-24	SB42 (7.5-10)	46 S1-	70
500-256166-25	SB43 (0-3)	55	67
500-256166-26	SB43 (10-12.5)	116	69
LCS 500-786310/3-A	Lab Control Sample	73	109
MB 500-786310/1-A	Method Blank	63	111

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (49-129)	DCBP2 (37-121)
500-256166-2	SB31 (7.5-10)	75	128 S1+
500-256166-3	SB32 (0-3)	69	194 S1+
500-256166-4	SB32 (5-7.5)	61	113
500-256166-5	SB33 (0-3)	59	63
500-256166-6	SB33 (5-7.5)	70	9 S1-
500-256166-7	SB34 (0-3)	63	105
500-256166-8	SB34 (5-7.5)	66	136 S1+
500-256166-9	SB35 (0-3)	61	142 S1+
500-256166-10	SB35 (7.5-10)	76	131 S1+
500-256166-11	SB36 (0-3)	65	103
500-256166-21	SB41 (0-3)	61	75
500-256166-22	SB41 (5-7.5)	64	85
LCS 500-785839/3-A	Lab Control Sample	71	89
MB 500-785839/1-A	Method Blank	70	87

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-785608/7
Matrix: Solid
Analysis Batch: 785608

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/11/24 22:47	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/11/24 22:47	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/11/24 22:47	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/11/24 22:47	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/11/24 22:47	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/11/24 22:47	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/11/24 22:47	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/11/24 22:47	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/11/24 22:47	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/11/24 22:47	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/11/24 22:47	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/11/24 22:47	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/11/24 22:47	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/11/24 22:47	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/11/24 22:47	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/11/24 22:47	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/11/24 22:47	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/11/24 22:47	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/11/24 22:47	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/11/24 22:47	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/11/24 22:47	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/11/24 22:47	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/11/24 22:47	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/11/24 22:47	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/11/24 22:47	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/11/24 22:47	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/11/24 22:47	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/11/24 22:47	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/11/24 22:47	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/11/24 22:47	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/11/24 22:47	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/11/24 22:47	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/11/24 22:47	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/11/24 22:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*09/11/24 22:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*		*09/11/24 22:47*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*09/11/24 22:47*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*		*09/11/24 22:47*	*1*

Lab Sample ID: LCS 500-785608/4
Matrix: Solid
Analysis Batch: 785608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0528		mg/Kg		106	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0591		mg/Kg		118	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785608/4
Matrix: Solid
Analysis Batch: 785608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0573		mg/Kg		115	70 - 125
1,1-Dichloroethane	0.0500	0.0534		mg/Kg		107	70 - 125
1,1-Dichloroethene	0.0500	0.0550		mg/Kg		110	70 - 120
1,2-Dichloroethane	0.0500	0.0525		mg/Kg		105	70 - 130
1,2-Dichloropropane	0.0500	0.0564		mg/Kg		113	70 - 125
2-Butanone (MEK)	0.0500	0.0595		mg/Kg		119	47 - 138
2-Hexanone	0.0500	0.0638		mg/Kg		128	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0637		mg/Kg		127	50 - 148
Acetone	0.0500	0.0608		mg/Kg		122	40 - 150
Benzene	0.0500	0.0552		mg/Kg		110	70 - 125
Bromodichloromethane	0.0500	0.0568		mg/Kg		114	67 - 129
Bromoform	0.0500	0.0644		mg/Kg		129	68 - 136
Bromomethane	0.0500	0.0466		mg/Kg		93	70 - 130
Carbon disulfide	0.0500	0.0542		mg/Kg		108	70 - 129
Carbon tetrachloride	0.0500	0.0534		mg/Kg		107	75 - 125
Chlorobenzene	0.0500	0.0552		mg/Kg		110	50 - 150
Chloroethane	0.0500	0.0531		mg/Kg		106	75 - 125
Chloroform	0.0500	0.0533		mg/Kg		107	57 - 135
Chloromethane	0.0500	0.0422		mg/Kg		84	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0556		mg/Kg		111	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0561		mg/Kg		112	70 - 125
Dibromochloromethane	0.0500	0.0589		mg/Kg		118	69 - 125
Ethylbenzene	0.0500	0.0554		mg/Kg		111	61 - 136
Methyl tert-butyl ether	0.0500	0.0583		mg/Kg		117	50 - 140
Methylene Chloride	0.0500	0.0501		mg/Kg		100	70 - 126
Styrene	0.0500	0.0593		mg/Kg		119	70 - 125
Tetrachloroethene	0.0500	0.0532		mg/Kg		106	70 - 124
Toluene	0.0500	0.0541		mg/Kg		108	70 - 125
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0551		mg/Kg		110	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0566		mg/Kg		113	70 - 125
Trichloroethene	0.0500	0.0541		mg/Kg		108	70 - 125
Vinyl chloride	0.0500	0.0417		mg/Kg		83	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*
Dibromofluoromethane	*97*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 124*

Lab Sample ID: LCSD 500-785608/5
Matrix: Solid
Analysis Batch: 785608

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0505		mg/Kg		101	70 - 128	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0584		mg/Kg		117	70 - 122	1	30
1,1,2-Trichloroethane	0.0500	0.0554		mg/Kg		111	70 - 125	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-785608/5
Matrix: Solid
Analysis Batch: 785608

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0517		mg/Kg		103	70 - 125	3	30
1,1-Dichloroethene			0.0500	0.0524		mg/Kg		105	70 - 120	5	30
1,2-Dichloroethane			0.0500	0.0513		mg/Kg		103	70 - 130	2	30
1,2-Dichloropropane			0.0500	0.0548		mg/Kg		110	70 - 125	3	30
2-Butanone (MEK)			0.0500	0.0594		mg/Kg		119	47 - 138	0	30
2-Hexanone			0.0500	0.0637		mg/Kg		127	48 - 146	0	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0635		mg/Kg		127	50 - 148	0	30
Acetone			0.0500	0.0602		mg/Kg		120	40 - 150	1	30
Benzene			0.0500	0.0537		mg/Kg		107	70 - 125	3	30
Bromodichloromethane			0.0500	0.0553		mg/Kg		111	67 - 129	3	30
Bromoform			0.0500	0.0618		mg/Kg		124	68 - 136	4	30
Bromomethane			0.0500	0.0490		mg/Kg		98	70 - 130	5	30
Carbon disulfide			0.0500	0.0524		mg/Kg		105	70 - 129	3	30
Carbon tetrachloride			0.0500	0.0514		mg/Kg		103	75 - 125	4	30
Chlorobenzene			0.0500	0.0532		mg/Kg		106	50 - 150	4	30
Chloroethane			0.0500	0.0467		mg/Kg		93	75 - 125	13	30
Chloroform			0.0500	0.0515		mg/Kg		103	57 - 135	3	30
Chloromethane			0.0500	0.0420		mg/Kg		84	70 - 125	0	30
cis-1,2-Dichloroethene			0.0500	0.0565		mg/Kg		113	70 - 125	2	30
cis-1,3-Dichloropropene			0.0500	0.0536		mg/Kg		107	70 - 125	4	30
Dibromochloromethane			0.0500	0.0574		mg/Kg		115	69 - 125	3	30
Ethylbenzene			0.0500	0.0541		mg/Kg		108	61 - 136	2	30
Methyl tert-butyl ether			0.0500	0.0571		mg/Kg		114	50 - 140	2	30
Methylene Chloride			0.0500	0.0492		mg/Kg		98	70 - 126	2	30
Styrene			0.0500	0.0582		mg/Kg		116	70 - 125	2	30
Tetrachloroethene			0.0500	0.0525		mg/Kg		105	70 - 124	1	30
Toluene			0.0500	0.0530		mg/Kg		106	70 - 125	2	30
Xylenes, Total			0.100	0.108		mg/Kg		108	53 - 147	3	30
trans-1,2-Dichloroethene			0.0500	0.0545		mg/Kg		109	70 - 125	1	30
trans-1,3-Dichloropropene			0.0500	0.0545		mg/Kg		109	70 - 125	4	30
Trichloroethene			0.0500	0.0529		mg/Kg		106	70 - 125	2	30
Vinyl chloride			0.0500	0.0422		mg/Kg		84	70 - 125	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*
4-Bromofluorobenzene (Surr)	*96*		*75 - 131*
Dibromofluoromethane	*100*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 124*

Lab Sample ID: MB 500-785609/7
Matrix: Solid
Analysis Batch: 785609

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/11/24 22:37	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/11/24 22:37	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/11/24 22:37	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/11/24 22:37	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-785609/7
Matrix: Solid
Analysis Batch: 785609

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/11/24 22:37	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/11/24 22:37	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/11/24 22:37	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/11/24 22:37	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/11/24 22:37	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/11/24 22:37	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/11/24 22:37	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/11/24 22:37	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/11/24 22:37	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/11/24 22:37	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/11/24 22:37	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/11/24 22:37	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/11/24 22:37	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/11/24 22:37	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/11/24 22:37	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/11/24 22:37	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/11/24 22:37	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/11/24 22:37	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/11/24 22:37	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/11/24 22:37	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/11/24 22:37	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/11/24 22:37	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/11/24 22:37	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/11/24 22:37	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/11/24 22:37	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/11/24 22:37	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/11/24 22:37	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/11/24 22:37	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/11/24 22:37	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/11/24 22:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*09/11/24 22:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*75 - 131*		*09/11/24 22:37*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*09/11/24 22:37*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*		*09/11/24 22:37*	*1*

Lab Sample ID: LCS 500-785609/4
Matrix: Solid
Analysis Batch: 785609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0542		mg/Kg		108	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0422		mg/Kg		84	70 - 122
1,1,2-Trichloroethane	0.0500	0.0459		mg/Kg		92	70 - 125
1,1-Dichloroethane	0.0500	0.0479		mg/Kg		96	70 - 125
1,1-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 120
1,2-Dichloroethane	0.0500	0.0495		mg/Kg		99	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785609/4
Matrix: Solid
Analysis Batch: 785609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0452		mg/Kg		90	70 - 125
2-Butanone (MEK)	0.0500	0.0436		mg/Kg		87	47 - 138
2-Hexanone	0.0500	0.0455		mg/Kg		91	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0491		mg/Kg		98	50 - 148
Acetone	0.0500	0.0472		mg/Kg		94	40 - 150
Benzene	0.0500	0.0482		mg/Kg		96	70 - 125
Bromodichloromethane	0.0500	0.0493		mg/Kg		99	67 - 129
Bromoform	0.0500	0.0520		mg/Kg		104	68 - 136
Bromomethane	0.0500	0.0511		mg/Kg		102	70 - 130
Carbon disulfide	0.0500	0.0484		mg/Kg		97	70 - 129
Carbon tetrachloride	0.0500	0.0548		mg/Kg		110	75 - 125
Chlorobenzene	0.0500	0.0474		mg/Kg		95	50 - 150
Chloroethane	0.0500	0.0471		mg/Kg		94	75 - 125
Chloroform	0.0500	0.0491		mg/Kg		98	57 - 135
Chloromethane	0.0500	0.0446		mg/Kg		89	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0494		mg/Kg		99	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0483		mg/Kg		97	70 - 125
Dibromochloromethane	0.0500	0.0501		mg/Kg		100	69 - 125
Ethylbenzene	0.0500	0.0494		mg/Kg		99	61 - 136
Methyl tert-butyl ether	0.0500	0.0515		mg/Kg		103	50 - 140
Methylene Chloride	0.0500	0.0436		mg/Kg		87	70 - 126
Styrene	0.0500	0.0508		mg/Kg		102	70 - 125
Tetrachloroethene	0.0500	0.0518		mg/Kg		104	70 - 124
Toluene	0.0500	0.0483		mg/Kg		97	70 - 125
Xylenes, Total	0.100	0.102		mg/Kg		102	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0483		mg/Kg		97	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0480		mg/Kg		96	70 - 125
Trichloroethene	0.0500	0.0480		mg/Kg		96	70 - 125
Vinyl chloride	0.0500	0.0490		mg/Kg		98	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*
Dibromofluoromethane	*103*		*75 - 126*
Toluene-d8 (Surr)	*100*		*75 - 124*

Lab Sample ID: LCSD 500-785609/5
Matrix: Solid
Analysis Batch: 785609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 128	6	30
1,1,2,2-Tetrachloroethane	0.0500	0.0414		mg/Kg		83	70 - 122	2	30
1,1,2-Trichloroethane	0.0500	0.0474		mg/Kg		95	70 - 125	3	30
1,1-Dichloroethane	0.0500	0.0444		mg/Kg		89	70 - 125	8	30
1,1-Dichloroethene	0.0500	0.0439		mg/Kg		88	70 - 120	11	30
1,2-Dichloroethane	0.0500	0.0474		mg/Kg		95	70 - 130	4	30
1,2-Dichloropropane	0.0500	0.0462		mg/Kg		92	70 - 125	2	30

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-785609/5
Matrix: Solid
Analysis Batch: 785609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			0.0500	0.0424		mg/Kg		85	47 - 138	3	30
2-Hexanone			0.0500	0.0507		mg/Kg		101	48 - 146	11	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0484		mg/Kg		97	50 - 148	1	30
Acetone			0.0500	0.0425		mg/Kg		85	40 - 150	11	30
Benzene			0.0500	0.0467		mg/Kg		93	70 - 125	3	30
Bromodichloromethane			0.0500	0.0499		mg/Kg		100	67 - 129	1	30
Bromoform			0.0500	0.0468		mg/Kg		94	68 - 136	11	30
Bromomethane			0.0500	0.0458		mg/Kg		92	70 - 130	11	30
Carbon disulfide			0.0500	0.0432		mg/Kg		86	70 - 129	11	30
Carbon tetrachloride			0.0500	0.0504		mg/Kg		101	75 - 125	8	30
Chlorobenzene			0.0500	0.0477		mg/Kg		95	50 - 150	1	30
Chloroethane			0.0500	0.0428		mg/Kg		86	75 - 125	10	30
Chloroform			0.0500	0.0455		mg/Kg		91	57 - 135	8	30
Chloromethane			0.0500	0.0402		mg/Kg		80	70 - 125	10	30
cis-1,2-Dichloroethene			0.0500	0.0450		mg/Kg		90	70 - 125	9	30
cis-1,3-Dichloropropene			0.0500	0.0508		mg/Kg		102	70 - 125	5	30
Dibromochloromethane			0.0500	0.0489		mg/Kg		98	69 - 125	2	30
Ethylbenzene			0.0500	0.0502		mg/Kg		100	61 - 136	1	30
Methyl tert-butyl ether			0.0500	0.0453		mg/Kg		91	50 - 140	13	30
Methylene Chloride			0.0500	0.0371		mg/Kg		74	70 - 126	16	30
Styrene			0.0500	0.0495		mg/Kg		99	70 - 125	3	30
Tetrachloroethene			0.0500	0.0522		mg/Kg		104	70 - 124	1	30
Toluene			0.0500	0.0488		mg/Kg		98	70 - 125	1	30
Xylenes, Total			0.100	0.0977		mg/Kg		98	53 - 147	4	30
trans-1,2-Dichloroethene			0.0500	0.0439		mg/Kg		88	70 - 125	10	30
trans-1,3-Dichloropropene			0.0500	0.0504		mg/Kg		101	70 - 125	5	30
Trichloroethene			0.0500	0.0501		mg/Kg		100	70 - 125	4	30
Vinyl chloride			0.0500	0.0454		mg/Kg		91	70 - 125	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*
Dibromofluoromethane	*96*		*75 - 126*
Toluene-d8 (Surr)	*103*		*75 - 124*

Lab Sample ID: MB 500-785875/7
Matrix: Solid
Analysis Batch: 785875

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			09/13/24 12:36	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			09/13/24 12:36	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			09/13/24 12:36	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			09/13/24 12:36	1
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			09/13/24 12:36	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			09/13/24 12:36	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			09/13/24 12:36	1
2-Butanone (MEK)	<0.0031		0.0050	0.0031	mg/Kg			09/13/24 12:36	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-785875/7
Matrix: Solid
Analysis Batch: 785875

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<0.0029		0.0050	0.0029	mg/Kg			09/13/24 12:36	1
4-Methyl-2-pentanone (MIBK)	<0.0027		0.0050	0.0027	mg/Kg			09/13/24 12:36	1
Acetone	<0.0072		0.010	0.0072	mg/Kg			09/13/24 12:36	1
Benzene	<0.00012		0.00025	0.00012	mg/Kg			09/13/24 12:36	1
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			09/13/24 12:36	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			09/13/24 12:36	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			09/13/24 12:36	1
Carbon disulfide	<0.0011		0.0020	0.0011	mg/Kg			09/13/24 12:36	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			09/13/24 12:36	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			09/13/24 12:36	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			09/13/24 12:36	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			09/13/24 12:36	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			09/13/24 12:36	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			09/13/24 12:36	1
1,3-Dichloropropene, Total	<0.00063		0.0010	0.00063	mg/Kg			09/13/24 12:36	1
Dibromochloromethane	<0.00083		0.0010	0.00083	mg/Kg			09/13/24 12:36	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			09/13/24 12:36	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			09/13/24 12:36	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/13/24 12:36	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			09/13/24 12:36	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			09/13/24 12:36	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			09/13/24 12:36	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			09/13/24 12:36	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			09/13/24 12:36	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			09/13/24 12:36	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			09/13/24 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*09/13/24 12:36*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*09/13/24 12:36*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*09/13/24 12:36*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*09/13/24 12:36*	*1*

Lab Sample ID: LCS 500-785875/4
Matrix: Solid
Analysis Batch: 785875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0530		mg/Kg		106	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0395		mg/Kg		79	62 - 140
1,1,2-Trichloroethane	0.0500	0.0411		mg/Kg		82	71 - 130
1,1-Dichloroethane	0.0500	0.0491		mg/Kg		98	70 - 125
1,1-Dichloroethene	0.0500	0.0520		mg/Kg		104	67 - 122
1,2-Dichloroethane	0.0500	0.0481		mg/Kg		96	68 - 127
1,2-Dichloropropane	0.0500	0.0433		mg/Kg		87	67 - 130
2-Butanone (MEK)	0.0500	0.0406		mg/Kg		81	46 - 144
2-Hexanone	0.0500	0.0423		mg/Kg		85	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0438		mg/Kg		88	55 - 139

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785875/4
Matrix: Solid
Analysis Batch: 785875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0487		mg/Kg		97	40 - 143
Benzene	0.0500	0.0420		mg/Kg		84	70 - 120
Bromodichloromethane	0.0500	0.0418		mg/Kg		84	69 - 120
Bromoform	0.0500	0.0411		mg/Kg		82	56 - 132
Bromomethane	0.0500	0.0633		mg/Kg		127	40 - 152
Carbon disulfide	0.0500	0.0484		mg/Kg		97	66 - 120
Carbon tetrachloride	0.0500	0.0535		mg/Kg		107	59 - 133
Chlorobenzene	0.0500	0.0462		mg/Kg		92	70 - 120
Chloroethane	0.0500	0.0611		mg/Kg		122	48 - 136
Chloroform	0.0500	0.0456		mg/Kg		91	70 - 120
Chloromethane	0.0500	0.0651		mg/Kg		130	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0452		mg/Kg		90	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0453		mg/Kg		91	64 - 127
Dibromochloromethane	0.0500	0.0441		mg/Kg		88	68 - 125
Ethylbenzene	0.0500	0.0450		mg/Kg		90	70 - 123
Methyl tert-butyl ether	0.0500	0.0421		mg/Kg		84	55 - 123
Methylene Chloride	0.0500	0.0434		mg/Kg		87	69 - 125
Styrene	0.0500	0.0474		mg/Kg		95	70 - 120
Tetrachloroethene	0.0500	0.0500		mg/Kg		100	70 - 128
Toluene	0.0500	0.0427		mg/Kg		85	70 - 125
Xylenes, Total	0.100	0.0923		mg/Kg		92	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0498		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0413		mg/Kg		83	62 - 128
Trichloroethene	0.0500	0.0430		mg/Kg		86	70 - 125
Vinyl chloride	0.0500	0.0398		mg/Kg		80	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane	*86*		*75 - 120*
Toluene-d8 (Surr)	*91*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-786293/1-A
Matrix: Solid
Analysis Batch: 786597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/16/24 15:05	09/18/24 11:50	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786293/1-A
Matrix: Solid
Analysis Batch: 786597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/16/24 15:05	09/18/24 11:50	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786293/1-A
Matrix: Solid
Analysis Batch: 786597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/16/24 15:05	09/18/24 11:50	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/16/24 15:05	09/18/24 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*80*		*31 - 166*	*09/16/24 15:05*	*09/18/24 11:50*	*1*
Phenol-d5 (Surr)	*82*		*30 - 153*	*09/16/24 15:05*	*09/18/24 11:50*	*1*
Nitrobenzene-d5 (Surr)	*86*		*37 - 147*	*09/16/24 15:05*	*09/18/24 11:50*	*1*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*09/16/24 15:05*	*09/18/24 11:50*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*31 - 143*	*09/16/24 15:05*	*09/18/24 11:50*	*1*
Terphenyl-d14 (Surr)	*88*		*42 - 157*	*09/16/24 15:05*	*09/18/24 11:50*	*1*

Lab Sample ID: LCS 500-786293/2-A
Matrix: Solid
Analysis Batch: 786597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	3.07		mg/Kg		92	63 - 109
Acenaphthylene	3.33	3.09		mg/Kg		93	61 - 115
Anthracene	3.33	3.09		mg/Kg		93	68 - 120
Benzo[a]anthracene	3.33	3.06		mg/Kg		92	70 - 121
Benzo[a]pyrene	3.33	3.28		mg/Kg		98	73 - 132
Benzo[b]fluoranthene	3.33	3.67		mg/Kg		110	68 - 123
Benzo[g,h,i]perylene	3.33	3.60		mg/Kg		108	65 - 126
Benzo[k]fluoranthene	3.33	3.31		mg/Kg		99	64 - 128
Chrysene	3.33	2.97		mg/Kg		89	70 - 123
Dibenz(a,h)anthracene	3.33	3.49		mg/Kg		105	66 - 125
Fluoranthene	3.33	2.98		mg/Kg		89	66 - 123
Fluorene	3.33	3.05		mg/Kg		92	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.52		mg/Kg		106	66 - 131
Naphthalene	3.33	2.89		mg/Kg		87	54 - 98
Phenanthrene	3.33	3.03		mg/Kg		91	65 - 115
Pyrene	3.33	3.37		mg/Kg		101	71 - 128
1,2,4-Trichlorobenzene	3.33	2.75		mg/Kg		82	49 - 100
1,2-Dichlorobenzene	3.33	2.68		mg/Kg		80	47 - 94
1,3-Dichlorobenzene	3.33	2.59		mg/Kg		78	47 - 92
1,4-Dichlorobenzene	3.33	2.62		mg/Kg		79	46 - 92
2,4,5-Trichlorophenol	3.33	2.96		mg/Kg		89	48 - 121
2,4,6-Trichlorophenol	3.33	2.85		mg/Kg		86	50 - 121
2,4-Dichlorophenol	3.33	2.91		mg/Kg		87	51 - 109
2,4-Dimethylphenol	3.33	3.15	*+	mg/Kg		95	48 - 93
2,4-Dinitrophenol	6.67	3.50		mg/Kg		52	10 - 130
2,4-Dinitrotoluene	3.33	3.10		mg/Kg		93	65 - 120
2,6-Dinitrotoluene	3.33	3.07		mg/Kg		92	66 - 117
2-Chloronaphthalene	3.33	2.99		mg/Kg		90	60 - 107
2-Chlorophenol	3.33	2.85		mg/Kg		86	50 - 102

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-786293/2-A
Matrix: Solid
Analysis Batch: 786597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	3.33	2.60		mg/Kg		78	58 - 103
2-Methylphenol	3.33	2.93		mg/Kg		88	50 - 104
2-Nitroaniline	3.33	3.30		mg/Kg		99	61 - 126
2-Nitrophenol	3.33	2.69		mg/Kg		81	41 - 114
3,3'-Dichlorobenzidine	3.33	2.66		mg/Kg		80	36 - 131
3 & 4 Methylphenol	3.33	2.93		mg/Kg		88	49 - 109
3-Nitroaniline	3.33	2.68		mg/Kg		80	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.68		mg/Kg		70	36 - 138
4-Bromophenyl phenyl ether	3.33	3.05		mg/Kg		91	57 - 124
4-Chloro-3-methylphenol	3.33	3.10		mg/Kg		93	57 - 113
4-Chloroaniline	3.33	2.64		mg/Kg		79	22 - 110
4-Chlorophenyl phenyl ether	3.33	3.05		mg/Kg		92	60 - 112
4-Nitroaniline	3.33	2.88		mg/Kg		86	60 - 115
4-Nitrophenol	6.67	5.50		mg/Kg		82	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.94		mg/Kg		88	54 - 102
Bis(2-chloroethyl)ether	3.33	2.73		mg/Kg		82	49 - 99
bis(chloroisopropyl) ether	3.33	3.03		mg/Kg		91	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.41		mg/Kg		102	70 - 139
Butyl benzyl phthalate	3.33	3.44		mg/Kg		103	65 - 140
Carbazole	3.33	2.92		mg/Kg		88	68 - 120
Dibenzofuran	3.33	2.95		mg/Kg		88	64 - 112
Diethyl phthalate	3.33	3.28		mg/Kg		98	66 - 115
Dimethyl phthalate	3.33	3.11		mg/Kg		93	65 - 114
Di-n-butyl phthalate	3.33	3.36		mg/Kg		101	69 - 125
Di-n-octyl phthalate	3.33	2.82		mg/Kg		85	61 - 131
Hexachlorobenzene	3.33	3.15		mg/Kg		95	52 - 126
Hexachlorobutadiene	3.33	2.88		mg/Kg		87	42 - 103
Hexachlorocyclopentadiene	3.33	2.44		mg/Kg		73	10 - 100
Hexachloroethane	3.33	2.78		mg/Kg		83	45 - 95
Isophorone	3.33	2.92		mg/Kg		88	47 - 108
Nitrobenzene	3.33	2.92		mg/Kg		88	52 - 105
N-Nitrosodi-n-propylamine	3.33	3.12		mg/Kg		94	48 - 110
N-Nitrosodiphenylamine	3.33	3.05		mg/Kg		92	67 - 112
Pentachlorophenol	6.67	3.49		mg/Kg		52	32 - 128
Phenol	3.33	3.04		mg/Kg		91	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*83*		*31 - 166*
Phenol-d5 (Surr)	*88*		*30 - 153*
Nitrobenzene-d5 (Surr)	*90*		*37 - 147*
2-Fluorobiphenyl (Surr)	*90*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*88*		*31 - 143*
Terphenyl-d14 (Surr)	*98*		*42 - 157*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786368/1-A
Matrix: Solid
Analysis Batch: 786395

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/17/24 07:52	09/17/24 12:13	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786368/1-A
Matrix: Solid
Analysis Batch: 786395

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	<0.013		0.17	0.013	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/17/24 07:52	09/17/24 12:13	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/17/24 07:52	09/17/24 12:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*81*		*31 - 166*	*09/17/24 07:52*	*09/17/24 12:13*	*1*
Phenol-d5 (Surr)	*80*		*30 - 153*	*09/17/24 07:52*	*09/17/24 12:13*	*1*
Nitrobenzene-d5 (Surr)	*86*		*37 - 147*	*09/17/24 07:52*	*09/17/24 12:13*	*1*
2-Fluorobiphenyl (Surr)	*76*		*43 - 145*	*09/17/24 07:52*	*09/17/24 12:13*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*31 - 143*	*09/17/24 07:52*	*09/17/24 12:13*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*09/17/24 07:52*	*09/17/24 12:13*	*1*

Lab Sample ID: LCS 500-786368/2-A
Matrix: Solid
Analysis Batch: 786395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.70		mg/Kg		81	63 - 109
Acenaphthylene	3.33	2.88		mg/Kg		86	61 - 115
Anthracene	3.33	2.93		mg/Kg		88	68 - 120
Benzo[a]anthracene	3.33	2.94		mg/Kg		88	70 - 121
Benzo[a]pyrene	3.33	3.17		mg/Kg		95	73 - 132
Benzo[b]fluoranthene	3.33	3.18		mg/Kg		96	68 - 123
Benzo[g,h,i]perylene	3.33	3.17		mg/Kg		95	65 - 126
Benzo[k]fluoranthene	3.33	3.14		mg/Kg		94	64 - 128
Chrysene	3.33	2.89		mg/Kg		87	70 - 123
Dibenz(a,h)anthracene	3.33	3.09		mg/Kg		93	66 - 125
Fluoranthene	3.33	2.86		mg/Kg		86	66 - 123
Fluorene	3.33	2.73		mg/Kg		82	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.30		mg/Kg		99	66 - 131
Naphthalene	3.33	2.65		mg/Kg		80	54 - 98
Phenanthrene	3.33	2.87		mg/Kg		86	65 - 115
Pyrene	3.33	3.03		mg/Kg		91	71 - 128
1,2,4-Trichlorobenzene	3.33	2.46		mg/Kg		74	49 - 100
1,2-Dichlorobenzene	3.33	2.51		mg/Kg		75	47 - 94

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-786368/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 786395
Prep Batch: 786368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	3.33	2.45		mg/Kg		74	47 - 92
1,4-Dichlorobenzene	3.33	2.44		mg/Kg		73	46 - 92
2,4,5-Trichlorophenol	3.33	2.53		mg/Kg		76	48 - 121
2,4,6-Trichlorophenol	3.33	2.45		mg/Kg		74	50 - 121
2,4-Dichlorophenol	3.33	2.68		mg/Kg		80	51 - 109
2,4-Dimethylphenol	3.33	2.91		mg/Kg		87	48 - 93
2,4-Dinitrophenol	6.67	3.88		mg/Kg		58	10 - 130
2,4-Dinitrotoluene	3.33	2.99		mg/Kg		90	65 - 120
2,6-Dinitrotoluene	3.33	2.86		mg/Kg		86	66 - 117
2-Chloronaphthalene	3.33	2.67		mg/Kg		80	60 - 107
2-Chlorophenol	3.33	2.71		mg/Kg		81	50 - 102
2-Methylnaphthalene	3.33	2.37		mg/Kg		71	58 - 103
2-Methylphenol	3.33	2.77		mg/Kg		83	50 - 104
2-Nitroaniline	3.33	3.13		mg/Kg		94	61 - 126
2-Nitrophenol	3.33	2.67		mg/Kg		80	41 - 114
3,3'-Dichlorobenzidine	3.33	2.47		mg/Kg		74	36 - 131
3 & 4 Methylphenol	3.33	2.78		mg/Kg		84	49 - 109
3-Nitroaniline	3.33	2.77		mg/Kg		83	44 - 124
4,6-Dinitro-2-methylphenol	6.67	5.05		mg/Kg		76	36 - 138
4-Bromophenyl phenyl ether	3.33	2.71		mg/Kg		81	57 - 124
4-Chloro-3-methylphenol	3.33	2.85		mg/Kg		86	57 - 113
4-Chloroaniline	3.33	2.55		mg/Kg		77	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.65		mg/Kg		80	60 - 112
4-Nitroaniline	3.33	2.72		mg/Kg		82	60 - 115
4-Nitrophenol	6.67	5.54		mg/Kg		83	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.78		mg/Kg		83	54 - 102
Bis(2-chloroethyl)ether	3.33	2.75		mg/Kg		83	49 - 99
bis(chloroisopropyl) ether	3.33	3.01		mg/Kg		90	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.44		mg/Kg		103	70 - 139
Butyl benzyl phthalate	3.33	3.34		mg/Kg		100	65 - 140
Carbazole	3.33	2.91		mg/Kg		87	68 - 120
Dibenzofuran	3.33	2.68		mg/Kg		80	64 - 112
Diethyl phthalate	3.33	2.95		mg/Kg		88	66 - 115
Dimethyl phthalate	3.33	2.81		mg/Kg		84	65 - 114
Di-n-butyl phthalate	3.33	3.16		mg/Kg		95	69 - 125
Di-n-octyl phthalate	3.33	3.29		mg/Kg		99	61 - 131
Hexachlorobenzene	3.33	2.75		mg/Kg		82	52 - 126
Hexachlorobutadiene	3.33	2.45		mg/Kg		74	42 - 103
Hexachlorocyclopentadiene	3.33	1.86		mg/Kg		56	10 - 100
Hexachloroethane	3.33	2.71		mg/Kg		81	45 - 95
Isophorone	3.33	2.80		mg/Kg		84	47 - 108
Nitrobenzene	3.33	2.99		mg/Kg		90	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.85		mg/Kg		86	48 - 110
N-Nitrosodiphenylamine	3.33	2.83		mg/Kg		85	67 - 112
Pentachlorophenol	6.67	3.26		mg/Kg		49	32 - 128
Phenol	3.33	2.99		mg/Kg		90	52 - 110

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-786368/2-A
Matrix: Solid
Analysis Batch: 786395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786368

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	85		31 - 166
Phenol-d5 (Surr)	82		30 - 153
Nitrobenzene-d5 (Surr)	85		37 - 147
2-Fluorobiphenyl (Surr)	80		43 - 145
2,4,6-Tribromophenol (Surr)	71		31 - 143
Terphenyl-d14 (Surr)	86		42 - 157

Lab Sample ID: 500-256166-3 MS
Matrix: Solid
Analysis Batch: 786395

Client Sample ID: SB32 (0-3)
Prep Type: Total/NA
Prep Batch: 786368

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.051		3.63	3.02		mg/Kg	☼	82	65 - 124
Acenaphthylene	0.024	J	3.63	3.22		mg/Kg	☼	88	68 - 120
Anthracene	0.074		3.63	3.27		mg/Kg	☼	88	70 - 114
Benzo[a]anthracene	0.49		3.63	3.90		mg/Kg	☼	94	67 - 122
Benzo[a]pyrene	0.83		3.63	4.50		mg/Kg	☼	101	65 - 133
Benzo[b]fluoranthene	0.94		3.63	4.55		mg/Kg	☼	100	69 - 129
Benzo[g,h,i]perylene	0.77		3.63	4.56		mg/Kg	☼	105	72 - 131
Benzo[k]fluoranthene	0.43		3.63	3.82		mg/Kg	☼	94	68 - 127
Chrysene	0.59		3.63	3.92		mg/Kg	☼	92	63 - 120
Dibenz(a,h)anthracene	0.15		3.63	3.43		mg/Kg	☼	90	64 - 131
Fluoranthene	0.69		3.63	4.25		mg/Kg	☼	98	62 - 120
Fluorene	0.027	J	3.63	2.98		mg/Kg	☼	82	62 - 120
Indeno[1,2,3-cd]pyrene	0.69		3.63	5.14		mg/Kg	☼	123	68 - 130
Naphthalene	0.036		3.63	2.92		mg/Kg	☼	80	63 - 110
Phenanthrene	0.37		3.63	3.77		mg/Kg	☼	94	62 - 120
Pyrene	0.68		3.63	4.38		mg/Kg	☼	102	61 - 128
1,2,4-Trichlorobenzene	<0.026		3.63	2.65		mg/Kg	☼	73	66 - 117
1,2-Dichlorobenzene	<0.015		3.63	2.65		mg/Kg	☼	73	62 - 110
1,3-Dichlorobenzene	<0.016		3.63	2.60		mg/Kg	☼	72	60 - 110
1,4-Dichlorobenzene	<0.017		3.63	2.63		mg/Kg	☼	72	61 - 110
2,4,5-Trichlorophenol	<0.014		3.63	2.60		mg/Kg	☼	72	50 - 120
2,4,6-Trichlorophenol	<0.012		3.63	2.27		mg/Kg	☼	63	57 - 120
2,4-Dichlorophenol	<0.013		3.63	2.77		mg/Kg	☼	76	58 - 120
2,4-Dimethylphenol	<0.081		3.63	3.14		mg/Kg	☼	86	60 - 110
2,4-Dinitrophenol	<0.21		7.25	1.37		mg/Kg	☼	19	10 - 100
2,4-Dinitrotoluene	<0.021		3.63	3.15		mg/Kg	☼	87	69 - 124
2,6-Dinitrotoluene	<0.012		3.63	3.07		mg/Kg	☼	85	70 - 123
2-Chloronaphthalene	<0.014		3.63	2.99		mg/Kg	☼	82	69 - 114
2-Chlorophenol	<0.012		3.63	2.93		mg/Kg	☼	81	64 - 110
2-Methylnaphthalene	0.048	J	3.63	2.60		mg/Kg	☼	70	69 - 112
2-Methylphenol	<0.019		3.63	2.99		mg/Kg	☼	83	60 - 120
2-Nitroaniline	<0.019		3.63	3.39		mg/Kg	☼	94	57 - 124
2-Nitrophenol	<0.025		3.63	2.68		mg/Kg	☼	74	60 - 120
3,3'-Dichlorobenzidine	<0.030		3.63	2.36		mg/Kg	☼	65	35 - 128
3 & 4 Methylphenol	<0.027		3.63	2.99		mg/Kg	☼	83	57 - 120
3-Nitroaniline	<0.017		3.63	2.91		mg/Kg	☼	80	40 - 122

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256166-3 MS
Matrix: Solid
Analysis Batch: 786395

Client Sample ID: SB32 (0-3)
Prep Type: Total/NA
Prep Batch: 786368

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-2-methylphenol	<0.20		7.25	2.78		mg/Kg	☼	38	10 - 110
4-Bromophenyl phenyl ether	<0.025		3.63	2.99		mg/Kg	☼	83	68 - 118
4-Chloro-3-methylphenol	<0.014		3.63	2.96		mg/Kg	☼	82	65 - 122
4-Chloroaniline	<0.38		3.63	2.60		mg/Kg	☼	72	30 - 150
4-Chlorophenyl phenyl ether	<0.048		3.63	2.82		mg/Kg	☼	78	62 - 119
4-Nitroaniline	<0.027		3.63	2.82		mg/Kg	☼	78	60 - 160
4-Nitrophenol	<0.13		7.25	5.33		mg/Kg	☼	73	30 - 122
Bis(2-chloroethoxy)methane	<0.014		3.63	2.94		mg/Kg	☼	81	60 - 112
Bis(2-chloroethyl)ether	<0.017		3.63	2.96		mg/Kg	☼	82	55 - 111
bis(chloroisopropyl) ether	<0.026		3.63	3.23		mg/Kg	☼	89	40 - 124
Bis(2-ethylhexyl) phthalate	<0.14		3.63	3.63		mg/Kg	☼	100	72 - 131
Butyl benzyl phthalate	<0.018		3.63	3.59		mg/Kg	☼	99	71 - 129
Carbazole	0.037	J	3.63	3.16		mg/Kg	☼	86	65 - 142
Dibenzofuran	0.032	J	3.63	2.94		mg/Kg	☼	80	66 - 115
Diethyl phthalate	<0.017		3.63	3.10		mg/Kg	☼	86	58 - 120
Dimethyl phthalate	<0.0079		3.63	2.95		mg/Kg	☼	81	69 - 116
Di-n-butyl phthalate	<0.011		3.63	3.38		mg/Kg	☼	93	65 - 120
Di-n-octyl phthalate	<0.25		3.63	3.60		mg/Kg	☼	99	68 - 134
Hexachlorobenzene	<0.0070		3.63	2.99		mg/Kg	☼	82	63 - 124
Hexachlorobutadiene	<0.020		3.63	2.60		mg/Kg	☼	72	56 - 120
Hexachlorocyclopentadiene	<0.38		3.63	1.63		mg/Kg	☼	45	10 - 133
Hexachloroethane	<0.018		3.63	2.92		mg/Kg	☼	80	60 - 114
Isophorone	<0.019		3.63	2.97		mg/Kg	☼	82	55 - 110
Nitrobenzene	<0.011		3.63	3.27		mg/Kg	☼	90	60 - 116
N-Nitrosodi-n-propylamine	<0.0072		3.63	3.08		mg/Kg	☼	85	56 - 118
N-Nitrosodiphenylamine	<0.022		3.63	3.17		mg/Kg	☼	87	65 - 112
Pentachlorophenol	<0.091		7.25	1.83		mg/Kg	☼	25	13 - 112
Phenol	<0.016		3.63	3.24		mg/Kg	☼	89	56 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*84*		*31 - 166*
Phenol-d5 (Surr)	*84*		*30 - 153*
Nitrobenzene-d5 (Surr)	*86*		*37 - 147*
2-Fluorobiphenyl (Surr)	*82*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*60*		*31 - 143*
Terphenyl-d14 (Surr)	*85*		*42 - 157*

Lab Sample ID: 500-256166-3 MSD
Matrix: Solid
Analysis Batch: 786395

Client Sample ID: SB32 (0-3)
Prep Type: Total/NA
Prep Batch: 786368

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.051		3.60	3.03		mg/Kg	☼	83	65 - 124	0	30
Acenaphthylene	0.024	J	3.60	3.16		mg/Kg	☼	87	68 - 120	2	30
Anthracene	0.074		3.60	3.33		mg/Kg	☼	90	70 - 114	2	30
Benzo[a]anthracene	0.49		3.60	3.67		mg/Kg	☼	88	67 - 122	6	30
Benzo[a]pyrene	0.83		3.60	4.22		mg/Kg	☼	94	65 - 133	6	30
Benzo[b]fluoranthene	0.94		3.60	4.22		mg/Kg	☼	91	69 - 129	7	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256166-3 MSD
Client Sample ID: SB32 (0-3)
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 786395
Prep Batch: 786368

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	0.77		3.60	4.30		mg/Kg	☼	98	72 - 131	6	30
Benzo[k]fluoranthene	0.43		3.60	3.78		mg/Kg	☼	93	68 - 127	1	30
Chrysene	0.59		3.60	3.72		mg/Kg	☼	87	63 - 120	5	30
Dibenz(a,h)anthracene	0.15		3.60	3.46		mg/Kg	☼	92	64 - 131	1	30
Fluoranthene	0.69		3.60	3.96		mg/Kg	☼	91	62 - 120	7	30
Fluorene	0.027	J	3.60	3.04		mg/Kg	☼	84	62 - 120	2	30
Indeno[1,2,3-cd]pyrene	0.69		3.60	4.92		mg/Kg	☼	118	68 - 130	5	30
Naphthalene	0.036		3.60	2.90		mg/Kg	☼	80	63 - 110	1	30
Phenanthrene	0.37		3.60	3.65		mg/Kg	☼	91	62 - 120	3	30
Pyrene	0.68		3.60	3.99		mg/Kg	☼	92	61 - 128	9	30
1,2,4-Trichlorobenzene	<0.026		3.60	2.66		mg/Kg	☼	74	66 - 117	0	30
1,2-Dichlorobenzene	<0.015		3.60	2.65		mg/Kg	☼	74	62 - 110	0	30
1,3-Dichlorobenzene	<0.016		3.60	2.56		mg/Kg	☼	71	60 - 110	1	30
1,4-Dichlorobenzene	<0.017		3.60	2.58		mg/Kg	☼	72	61 - 110	2	30
2,4,5-Trichlorophenol	<0.014		3.60	2.64		mg/Kg	☼	73	50 - 120	2	30
2,4,6-Trichlorophenol	<0.012		3.60	2.30		mg/Kg	☼	64	57 - 120	1	30
2,4-Dichlorophenol	<0.013		3.60	2.77		mg/Kg	☼	77	58 - 120	0	30
2,4-Dimethylphenol	<0.081		3.60	3.13		mg/Kg	☼	87	60 - 110	0	30
2,4-Dinitrophenol	<0.21		7.20	1.46		mg/Kg	☼	20	10 - 100	7	30
2,4-Dinitrotoluene	<0.021		3.60	3.18		mg/Kg	☼	88	69 - 124	1	30
2,6-Dinitrotoluene	<0.012		3.60	3.19		mg/Kg	☼	89	70 - 123	4	30
2-Chloronaphthalene	<0.014		3.60	2.99		mg/Kg	☼	83	69 - 114	0	30
2-Chlorophenol	<0.012		3.60	2.87		mg/Kg	☼	80	64 - 110	2	30
2-Methylnaphthalene	0.048	J	3.60	2.59		mg/Kg	☼	71	69 - 112	0	30
2-Methylphenol	<0.019		3.60	2.91		mg/Kg	☼	81	60 - 120	3	30
2-Nitroaniline	<0.019		3.60	3.44		mg/Kg	☼	96	57 - 124	2	30
2-Nitrophenol	<0.025		3.60	2.65		mg/Kg	☼	74	60 - 120	1	30
3,3'-Dichlorobenzidine	<0.030		3.60	2.40		mg/Kg	☼	67	35 - 128	2	30
3 & 4 Methylphenol	<0.027		3.60	2.97		mg/Kg	☼	82	57 - 120	1	30
3-Nitroaniline	<0.017		3.60	2.94		mg/Kg	☼	82	40 - 122	1	30
4,6-Dinitro-2-methylphenol	<0.20		7.20	2.85		mg/Kg	☼	40	10 - 110	2	30
4-Bromophenyl phenyl ether	<0.025		3.60	3.09		mg/Kg	☼	86	68 - 118	3	30
4-Chloro-3-methylphenol	<0.014		3.60	3.04		mg/Kg	☼	84	65 - 122	3	30
4-Chloroaniline	<0.38		3.60	2.63		mg/Kg	☼	73	30 - 150	1	30
4-Chlorophenyl phenyl ether	<0.048		3.60	2.92		mg/Kg	☼	81	62 - 119	3	30
4-Nitroaniline	<0.027		3.60	2.78		mg/Kg	☼	77	60 - 160	2	30
4-Nitrophenol	<0.13		7.20	5.49		mg/Kg	☼	76	30 - 122	3	30
Bis(2-chloroethoxy)methane	<0.014		3.60	2.96		mg/Kg	☼	82	60 - 112	1	30
Bis(2-chloroethyl)ether	<0.017		3.60	2.97		mg/Kg	☼	83	55 - 111	0	30
bis(chloroisopropyl) ether	<0.026		3.60	3.20		mg/Kg	☼	89	40 - 124	1	30
Bis(2-ethylhexyl) phthalate	<0.14		3.60	3.69		mg/Kg	☼	102	72 - 131	2	30
Butyl benzyl phthalate	<0.018		3.60	3.63		mg/Kg	☼	101	71 - 129	1	30
Carbazole	0.037	J	3.60	3.21		mg/Kg	☼	88	65 - 142	2	30
Dibenzofuran	0.032	J	3.60	2.95		mg/Kg	☼	81	66 - 115	1	30
Diethyl phthalate	<0.017		3.60	3.11		mg/Kg	☼	86	58 - 120	0	30
Dimethyl phthalate	<0.0079		3.60	3.04		mg/Kg	☼	84	69 - 116	3	30
Di-n-butyl phthalate	<0.011		3.60	3.51		mg/Kg	☼	97	65 - 120	4	30
Di-n-octyl phthalate	<0.25		3.60	3.75		mg/Kg	☼	104	68 - 134	4	30
Hexachlorobenzene	<0.0070		3.60	3.08		mg/Kg	☼	86	63 - 124	3	30

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256166-3 MSD
Matrix: Solid
Analysis Batch: 786395

Client Sample ID: SB32 (0-3)
Prep Type: Total/NA
Prep Batch: 786368

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobutadiene	<0.020		3.60	2.62		mg/Kg	☼	73	56 - 120	0	30
Hexachlorocyclopentadiene	<0.38		3.60	1.56		mg/Kg	☼	43	10 - 133	5	30
Hexachloroethane	<0.018		3.60	2.92		mg/Kg	☼	81	60 - 114	0	30
Isophorone	<0.019		3.60	2.93		mg/Kg	☼	81	55 - 110	1	30
Nitrobenzene	<0.011		3.60	3.22		mg/Kg	☼	90	60 - 116	2	30
N-Nitrosodi-n-propylamine	<0.0072		3.60	3.01		mg/Kg	☼	84	56 - 118	2	30
N-Nitrosodiphenylamine	<0.022		3.60	3.22		mg/Kg	☼	89	65 - 112	2	30
Pentachlorophenol	<0.091		7.20	1.89		mg/Kg	☼	26	13 - 112	3	30
Phenol	<0.016		3.60	3.24		mg/Kg	☼	90	56 - 122	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*80*		*31 - 166*
Phenol-d5 (Surr)	*81*		*30 - 153*
Nitrobenzene-d5 (Surr)	*85*		*37 - 147*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*60*		*31 - 143*
Terphenyl-d14 (Surr)	*85*		*42 - 157*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-784948/3
Matrix: Solid
Analysis Batch: 784948

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			09/08/24 18:57	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*70 - 130*		*09/08/24 18:57*	*50*
4-Bromofluorobenzene	*109*		*60 - 130*		*09/08/24 18:57*	*50*

Lab Sample ID: LCS 500-784948/4
Matrix: Solid
Analysis Batch: 784948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			19.9	17.4		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*108*		*70 - 130*
4-Bromofluorobenzene	*110*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-785024/1-A
Matrix: Solid
Analysis Batch: 785398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		09/09/24 07:38	09/10/24 20:30	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		09/09/24 07:38	09/10/24 20:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*50 - 126*	*09/09/24 07:38*	*09/10/24 20:30*	*1*
2-Fluorobiphenyl (Surr)	*71*		*40 - 133*	*09/09/24 07:38*	*09/10/24 20:30*	*1*

Lab Sample ID: LCS 500-785024/2-A
Matrix: Solid
Analysis Batch: 785398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	48.8		mg/Kg		73	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*85*		*50 - 126*
2-Fluorobiphenyl (Surr)	*76*		*40 - 133*

Lab Sample ID: 500-256166-14 MS
Matrix: Solid
Analysis Batch: 785398

Client Sample ID: SB37 (12.5-15)
Prep Type: Total/NA
Prep Batch: 785024

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	81		72.5	143		mg/Kg	☼	86	60 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*81*		*50 - 126*
2-Fluorobiphenyl (Surr)	*67*		*40 - 133*

Lab Sample ID: 500-256166-14 MSD
Matrix: Solid
Analysis Batch: 785398

Client Sample ID: SB37 (12.5-15)
Prep Type: Total/NA
Prep Batch: 785024

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	81		71.8	133		mg/Kg	☼	73	60 - 125	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*80*		*50 - 126*
2-Fluorobiphenyl (Surr)	*68*		*40 - 133*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-785839/1-A
Matrix: Solid
Analysis Batch: 787130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/12/24 17:52	09/21/24 12:04	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/12/24 17:52	09/21/24 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*33 - 148*	*09/12/24 17:52*	*09/21/24 12:04*	*1*
Tetrachloro-m-xylene	*74*		*30 - 121*	*09/12/24 17:52*	*09/21/24 12:04*	*1*

Lab Sample ID: MB 500-785839/1-A
Matrix: Solid
Analysis Batch: 787250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:52	09/23/24 10:24	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-785839/1-A
Matrix: Solid
Analysis Batch: 787250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/12/24 17:52	09/23/24 10:24	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/12/24 17:52	09/23/24 10:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*33 - 148*	*09/12/24 17:52*	*09/23/24 10:24*	*1*
Tetrachloro-m-xylene	*64*		*30 - 121*	*09/12/24 17:52*	*09/23/24 10:24*	*1*

Lab Sample ID: LCS 500-785839/2-A
Matrix: Solid
Analysis Batch: 787130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.00989		mg/Kg		74	47 - 137
4,4'-DDE	0.0133	0.00975		mg/Kg		73	50 - 130
4,4'-DDT	0.0133	0.0104		mg/Kg		78	46 - 143
Aldrin	0.0133	0.00814		mg/Kg		61	52 - 122
alpha-BHC	0.0133	0.00815		mg/Kg		61	50 - 123
beta-BHC	0.0133	0.00911		mg/Kg		68	44 - 140
delta-BHC	0.0133	0.00958		mg/Kg		72	57 - 125
Dieldrin	0.0133	0.00958		mg/Kg		72	51 - 133
Endosulfan I	0.0133	0.00710		mg/Kg		53	30 - 120
Endosulfan II	0.0133	0.00797		mg/Kg		60	30 - 120
Endosulfan sulfate	0.0133	0.00929		mg/Kg		70	42 - 150
Endrin	0.0133	0.00974		mg/Kg		73	43 - 144
Endrin aldehyde	0.0133	0.00901		mg/Kg		68	39 - 131
Endrin ketone	0.0133	0.00988		mg/Kg		74	51 - 135
gamma-BHC (Lindane)	0.0133	0.00878		mg/Kg		66	50 - 122
Heptachlor	0.0133	0.00835		mg/Kg		63	53 - 129
Heptachlor epoxide	0.0133	0.00904		mg/Kg		68	50 - 139
Methoxychlor	0.0133	0.0137		mg/Kg		103	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*80*		*33 - 148*
Tetrachloro-m-xylene	*47*		*30 - 121*

Lab Sample ID: LCS 500-785839/2-A
Matrix: Solid
Analysis Batch: 787250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.00843		mg/Kg		63	47 - 137
4,4'-DDE	0.0133	0.00993		mg/Kg		74	50 - 130
4,4'-DDT	0.0133	0.00919		mg/Kg		69	46 - 143
Aldrin	0.0133	0.00742		mg/Kg		56	52 - 122
alpha-BHC	0.0133	0.00712		mg/Kg		53	50 - 123
beta-BHC	0.0133	0.00900		mg/Kg		67	44 - 140
Dieldrin	0.0133	0.00888		mg/Kg		67	51 - 133

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-785839/2-A
Matrix: Solid
Analysis Batch: 787250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Endosulfan I	0.0133	0.00678		mg/Kg		51	30 - 120
Endosulfan II	0.0133	0.00734		mg/Kg		55	30 - 120
Endrin	0.0133	0.00903		mg/Kg		68	43 - 144
Endrin ketone	0.0133	0.00899		mg/Kg		67	51 - 135
gamma-BHC (Lindane)	0.0133	0.00725		mg/Kg		54	50 - 122
Heptachlor	0.0133	0.00766		mg/Kg		57	53 - 129
Heptachlor epoxide	0.0133	0.00851		mg/Kg		64	50 - 139
Methoxychlor	0.0133	0.00927		mg/Kg		70	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*75*		*33 - 148*
Tetrachloro-m-xylene	*47*		*30 - 121*

Lab Sample ID: 500-256166-1 MS
Matrix: Solid
Analysis Batch: 787250

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 785839

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.0096	F1	0.0148	<0.010	F1	mg/Kg	☼	0	47 - 137
4,4'-DDE	<0.0092		0.0148	0.0112	J	mg/Kg	☼	76	50 - 130
4,4'-DDT	<0.0085	F2 F1	0.0148	0.0128	J	mg/Kg	☼	87	46 - 143
Aldrin	<0.012	F1	0.0148	<0.013	F1	mg/Kg	☼	0	52 - 122
alpha-BHC	<0.010	F1	0.0148	<0.011	F1	mg/Kg	☼	0	50 - 123
beta-BHC	<0.014		0.0148	<0.015		mg/Kg	☼	NC	44 - 140
Dieldrin	<0.0094		0.0148	0.0109	J	mg/Kg	☼	74	51 - 133
Endosulfan I	<0.0097	F1	0.0148	<0.010	F1	mg/Kg	☼	0	30 - 120
Endosulfan II	<0.0098	F1	0.0148	<0.010	F1	mg/Kg	☼	0	30 - 120
Endrin	<0.0092		0.0148	0.00984	J	mg/Kg	☼	67	43 - 144
Endrin ketone	<0.0087		0.0148	0.0108	J	mg/Kg	☼	73	51 - 135
gamma-BHC (Lindane)	<0.0089	F1	0.0148	<0.0093	F1	mg/Kg	☼	0	50 - 122
Heptachlor	<0.0097		0.0148	0.0107	J	mg/Kg	☼	72	53 - 129
Heptachlor epoxide	<0.0097		0.0148	0.0101	J	mg/Kg	☼	69	50 - 139
Methoxychlor	<0.012	F1	0.0148	<0.012	F1	mg/Kg	☼	0	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*83*		*33 - 148*
Tetrachloro-m-xylene	*44*		*30 - 121*

Lab Sample ID: 500-256166-1 MS
Matrix: Solid
Analysis Batch: 787250

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 785839

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
delta-BHC	<0.043	F2	0.0148	0.246		mg/Kg	☼	NC	57 - 125
Endosulfan sulfate	<0.050		0.0148	<0.052		mg/Kg	☼	NC	42 - 150
Endrin aldehyde	<0.051		0.0148	<0.053		mg/Kg	☼	NC	39 - 131

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-256166-1 MS
Matrix: Solid
Analysis Batch: 787250

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 785839

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	0	S1-	33 - 148
Tetrachloro-m-xylene	0	S1-	30 - 121

Lab Sample ID: 500-256166-1 MSD
Matrix: Solid
Analysis Batch: 787250

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 785839

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.0096	F1	0.0143	<0.0098	F1	mg/Kg	☼	0	47 - 137	NC	30
4,4'-DDE	<0.0092		0.0143	0.0119	J	mg/Kg	☼	83	50 - 130	6	30
4,4'-DDT	<0.0085	F2 F1	0.0143	0.0253	F1	mg/Kg	☼	176	46 - 143	NC	30
Aldrin	<0.012	F1	0.0143	<0.013	F1	mg/Kg	☼	0	52 - 122	NC	30
alpha-BHC	<0.010	F1	0.0143	<0.010	F1	mg/Kg	☼	0	50 - 123	NC	30
beta-BHC	<0.014		0.0143	<0.015		mg/Kg	☼	NC	44 - 140	NC	30
Dieldrin	<0.0094		0.0143	0.0124	J	mg/Kg	☼	87	51 - 133	13	30
Endosulfan I	<0.0097	F1	0.0143	<0.0098	F1	mg/Kg	☼	0	30 - 120	NC	30
Endosulfan II	<0.0098	F1	0.0143	<0.0099	F1	mg/Kg	☼	0	30 - 120	NC	30
Endrin	<0.0092		0.0143	0.00999	J	mg/Kg	☼	70	43 - 144	2	30
gamma-BHC (Lindane)	<0.0089	F1	0.0143	<0.0090	F1	mg/Kg	☼	0	50 - 122	NC	30
Heptachlor	<0.0097		0.0143	0.0118	J	mg/Kg	☼	82	53 - 129	10	30
Heptachlor epoxide	<0.0097		0.0143	0.0101	J	mg/Kg	☼	70	50 - 139	0	30
Methoxychlor	<0.012	F1	0.0143	<0.012	F1	mg/Kg	☼	0	45 - 144	NC	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	93		33 - 148
Tetrachloro-m-xylene	34		30 - 121

Lab Sample ID: 500-256166-1 MSD
Matrix: Solid
Analysis Batch: 787250

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 785839

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
delta-BHC	<0.043	F2	0.0143	0.163	F2	mg/Kg	☼	NC	57 - 125	41	30
Endosulfan sulfate	<0.050		0.0143	<0.050		mg/Kg	☼	NC	42 - 150	NC	30
Endrin aldehyde	<0.051		0.0143	<0.052		mg/Kg	☼	NC	39 - 131	NC	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	0	S1-	33 - 148
Tetrachloro-m-xylene	0	S1-	30 - 121

Lab Sample ID: MB 500-786310/1-A
Matrix: Solid
Analysis Batch: 787130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/16/24 16:28	09/21/24 11:41	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-786310/1-A
Matrix: Solid
Analysis Batch: 787130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/16/24 16:28	09/21/24 11:41	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/16/24 16:28	09/21/24 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*33 - 148*	*09/16/24 16:28*	*09/21/24 11:41*	*1*
Tetrachloro-m-xylene	*64*		*30 - 121*	*09/16/24 16:28*	*09/21/24 11:41*	*1*

Lab Sample ID: LCS 500-786310/2-A
Matrix: Solid
Analysis Batch: 787130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0111		mg/Kg		83	47 - 137
4,4'-DDE	0.0133	0.0110		mg/Kg		83	50 - 130
4,4'-DDT	0.0133	0.0118		mg/Kg		89	46 - 143
Aldrin	0.0133	0.0102		mg/Kg		76	52 - 122
alpha-BHC	0.0133	0.0106		mg/Kg		80	50 - 123
beta-BHC	0.0133	0.0103		mg/Kg		77	44 - 140
delta-BHC	0.0133	0.0108		mg/Kg		81	57 - 125
Dieldrin	0.0133	0.0109		mg/Kg		82	51 - 133
Endosulfan I	0.0133	0.00801		mg/Kg		60	30 - 120
Endosulfan II	0.0133	0.00902		mg/Kg		68	30 - 120
Endosulfan sulfate	0.0133	0.0104		mg/Kg		78	42 - 150
Endrin	0.0133	0.0113		mg/Kg		85	43 - 144
Endrin aldehyde	0.0133	0.00969		mg/Kg		73	39 - 131
Endrin ketone	0.0133	0.0113		mg/Kg		85	51 - 135
gamma-BHC (Lindane)	0.0133	0.0109		mg/Kg		82	50 - 122
Heptachlor	0.0133	0.0107		mg/Kg		80	53 - 129
Heptachlor epoxide	0.0133	0.0105		mg/Kg		79	50 - 139
Methoxychlor	0.0133	0.0151		mg/Kg		113	45 - 144

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-786310/2-A
Matrix: Solid
Analysis Batch: 787130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786310

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*33 - 148*
Tetrachloro-m-xylene	*70*		*30 - 121*

Lab Sample ID: 500-256166-12 MS
Matrix: Solid
Analysis Batch: 787130

Client Sample ID: SB36 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786310

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.0094		0.0137	0.0132	J	mg/Kg	☼	97	47 - 137
4,4'-DDE	<0.0090		0.0137	0.00900	J	mg/Kg	☼	66	50 - 130
4,4'-DDT	<0.0083		0.0137	0.0145	J	mg/Kg	☼	106	46 - 143
Aldrin	<0.012	F1	0.0137	<0.012	F1	mg/Kg	☼	0	52 - 122
alpha-BHC	<0.0098	F1	0.0137	<0.0098	F1	mg/Kg	☼	0	50 - 123
beta-BHC	<0.014		0.0137	<0.014		mg/Kg	☼	NC	44 - 140
delta-BHC	<0.0084		0.0137	0.00879	J	mg/Kg	☼	64	57 - 125
Dieldrin	<0.0091		0.0137	0.0104	J	mg/Kg	☼	76	51 - 133
Endosulfan I	<0.0095	F1	0.0137	<0.0094	F1	mg/Kg	☼	0	30 - 120
Endosulfan II	<0.0096		0.0137	0.0123	J	mg/Kg	☼	90	30 - 120
Endosulfan sulfate	<0.0097		0.0137	0.0163	J	mg/Kg	☼	119	42 - 150
Endrin	<0.0089		0.0137	0.0108	J	mg/Kg	☼	79	43 - 144
Endrin aldehyde	<0.010		0.0137	0.0113	J	mg/Kg	☼	82	39 - 131
Endrin ketone	<0.0085	F1	0.0137	<0.0084	F1	mg/Kg	☼	0	51 - 135
gamma-BHC (Lindane)	<0.0087		0.0137	0.00999	J	mg/Kg	☼	73	50 - 122
Heptachlor	<0.0095	F1 F2	0.0137	<0.0094	F1	mg/Kg	☼	0	53 - 129
Heptachlor epoxide	<0.0094	F1 F2	0.0137	0.0447	F1	mg/Kg	☼	326	50 - 139
Methoxychlor	<0.012	F1	0.0137	0.0294	J F1	mg/Kg	☼	214	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*33 - 148*
Tetrachloro-m-xylene	*70*		*30 - 121*

Lab Sample ID: 500-256166-12 MSD
Matrix: Solid
Analysis Batch: 787130

Client Sample ID: SB36 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786310

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.0094		0.0146	0.0143	J	mg/Kg	☼	98	47 - 137	8	30
4,4'-DDE	<0.0090		0.0146	0.0119	J	mg/Kg	☼	82	50 - 130	28	30
4,4'-DDT	<0.0083		0.0146	0.0182	J	mg/Kg	☼	125	46 - 143	22	30
Aldrin	<0.012	F1	0.0146	<0.013	F1	mg/Kg	☼	0	52 - 122	NC	30
alpha-BHC	<0.0098	F1	0.0146	<0.010	F1	mg/Kg	☼	0	50 - 123	NC	30
beta-BHC	<0.014		0.0146	<0.015		mg/Kg	☼	NC	44 - 140	NC	30
Dieldrin	<0.0091		0.0146	0.0113	J	mg/Kg	☼	78	51 - 133	8	30
Endosulfan I	<0.0095	F1	0.0146	0.0110	J	mg/Kg	☼	76	30 - 120	NC	30
Endosulfan II	<0.0096		0.0146	0.0120	J	mg/Kg	☼	82	30 - 120	3	30
Endosulfan sulfate	<0.0097		0.0146	0.0191		mg/Kg	☼	132	42 - 150	16	30
Endrin	<0.0089		0.0146	0.0130	J	mg/Kg	☼	90	43 - 144	18	30
Endrin aldehyde	<0.010		0.0146	0.0116	J	mg/Kg	☼	80	39 - 131	3	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-256166-12 MSD
Matrix: Solid
Analysis Batch: 787130

Client Sample ID: SB36 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786310

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin ketone	<0.0085	F1	0.0146	<0.0090	F1	mg/Kg	☼	0	51 - 135	NC	30
gamma-BHC (Lindane)	<0.0087		0.0146	0.00963	J	mg/Kg	☼	66	50 - 122	4	30
Heptachlor epoxide	<0.0094	F1 F2	0.0146	0.0954	F1 F2	mg/Kg	☼	656	50 - 139	72	30
Methoxychlor	<0.012	F1	0.0146	0.0343	J F1	mg/Kg	☼	236	45 - 144	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*286*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*72*		*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-785839/1-A
Matrix: Solid
Analysis Batch: 786882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/12/24 17:52	09/19/24 13:22	1
PCB-1221	<0.017		0.017		mg/Kg		09/12/24 17:52	09/19/24 13:22	1
PCB-1232	<0.017		0.017		mg/Kg		09/12/24 17:52	09/19/24 13:22	1
PCB-1242	<0.017		0.017		mg/Kg		09/12/24 17:52	09/19/24 13:22	1
PCB-1248	<0.017		0.017		mg/Kg		09/12/24 17:52	09/19/24 13:22	1
PCB-1254	<0.017		0.017		mg/Kg		09/12/24 17:52	09/19/24 13:22	1
PCB-1260	<0.017		0.017		mg/Kg		09/12/24 17:52	09/19/24 13:22	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/12/24 17:52	09/19/24 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*49 - 129*	*09/12/24 17:52*	*09/19/24 13:22*	*1*
DCB Decachlorobiphenyl	*87*		*37 - 121*	*09/12/24 17:52*	*09/19/24 13:22*	*1*

Lab Sample ID: LCS 500-785839/3-A
Matrix: Solid
Analysis Batch: 786882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785839

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.134		mg/Kg		80	57 - 120		
PCB-1260			0.167	0.147		mg/Kg		88	61 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*49 - 129*
DCB Decachlorobiphenyl	*89*		*37 - 121*

Lab Sample ID: 500-256166-1 MS
Matrix: Solid
Analysis Batch: 787802

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 785839

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	<0.36	F1	0.177	<0.35	F1	mg/Kg	☼	171	57 - 120		
PCB-1260	<0.36	F1 F2	0.177	0.519	F1	mg/Kg	☼	293	61 - 125		

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-256166-1 MS
Matrix: Solid
Analysis Batch: 787802

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 785839

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*

Lab Sample ID: 500-256166-1 MSD
Matrix: Solid
Analysis Batch: 787802

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 785839

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.36	F1	0.184	<0.37	F1	mg/Kg	☼	0	57 - 120	NC	30
PCB-1260	<0.36	F1 F2	0.184	0.418	F1 F2	mg/Kg	☼	227	61 - 125	85	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*

Lab Sample ID: MB 500-786310/1-A
Matrix: Solid
Analysis Batch: 787624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/16/24 16:28	09/25/24 09:00	1
PCB-1221	<0.017		0.017		mg/Kg		09/16/24 16:28	09/25/24 09:00	1
PCB-1232	<0.017		0.017		mg/Kg		09/16/24 16:28	09/25/24 09:00	1
PCB-1242	<0.017		0.017		mg/Kg		09/16/24 16:28	09/25/24 09:00	1
PCB-1248	<0.017		0.017		mg/Kg		09/16/24 16:28	09/25/24 09:00	1
PCB-1254	<0.017		0.017		mg/Kg		09/16/24 16:28	09/25/24 09:00	1
PCB-1260	<0.017		0.017		mg/Kg		09/16/24 16:28	09/25/24 09:00	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/16/24 16:28	09/25/24 09:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*49 - 129*	*09/16/24 16:28*	*09/25/24 09:00*	*1*
DCB Decachlorobiphenyl	*111*		*37 - 121*	*09/16/24 16:28*	*09/25/24 09:00*	*1*

Lab Sample ID: LCS 500-786310/3-A
Matrix: Solid
Analysis Batch: 787624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786310

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.148		mg/Kg		89	57 - 120		
PCB-1260			0.167	0.163		mg/Kg		98	61 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*49 - 129*
DCB Decachlorobiphenyl	*109*		*37 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-256166-12 MS
Matrix: Solid
Analysis Batch: 787365

Client Sample ID: SB36 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786310

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.17		0.175	<0.18		mg/Kg	☼	75	57 - 120
PCB-1260	<0.17	F1	0.175	0.240	F1	mg/Kg	☼	137	61 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*55*		*49 - 129*
DCB Decachlorobiphenyl	*72*		*37 - 121*

Lab Sample ID: 500-256166-12 MSD
Matrix: Solid
Analysis Batch: 787365

Client Sample ID: SB36 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786310

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.17		0.177	<0.18		mg/Kg	☼	77	57 - 120	3	30
PCB-1260	<0.17	F1	0.177	0.241	F1	mg/Kg	☼	137	61 - 125	26	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*52*		*49 - 129*
DCB Decachlorobiphenyl	*74*		*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-786420/1-A
Matrix: Solid
Analysis Batch: 786816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Antimony	<2.0		2.0		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Arsenic	<1.0		1.0		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Barium	<1.0		1.0		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Cadmium	<0.20		0.20		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Calcium	<20		20		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Chromium	<1.0		1.0		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Cobalt	<0.50		0.50		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Copper	<1.0		1.0		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Iron	<20		20		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Lead	<0.50		0.50		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Magnesium	<10		10		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Manganese	1.04		1.0		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Nickel	<1.0		1.0		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Potassium	<50		50		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Selenium	<1.0		1.0		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Silver	<0.50		0.50		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Sodium	<100		100		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Thallium	<1.0		1.0		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Vanadium	<0.50		0.50		mg/Kg		09/17/24 10:12	09/18/24 23:32	1
Zinc	<2.0		2.0		mg/Kg		09/17/24 10:12	09/18/24 23:32	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-786420/1-A
Matrix: Solid
Analysis Batch: 786924

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.40		0.40		mg/Kg		09/17/24 10:12	09/19/24 11:44	1

Lab Sample ID: LCS 500-786420/2-A
Matrix: Solid
Analysis Batch: 786816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	186		mg/Kg		93	80 - 120
Antimony	50.0	49.6		mg/Kg		99	80 - 120
Arsenic	10.0	9.66		mg/Kg		97	80 - 120
Barium	200	195		mg/Kg		97	80 - 120
Cadmium	5.00	4.78		mg/Kg		96	80 - 120
Calcium	1000	960		mg/Kg		96	80 - 120
Chromium	20.0	19.7		mg/Kg		98	80 - 120
Cobalt	50.0	49.2		mg/Kg		98	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Iron	100	92.1		mg/Kg		92	80 - 120
Lead	10.0	10.1		mg/Kg		101	80 - 120
Magnesium	1000	909		mg/Kg		91	80 - 120
Manganese	50.0	45.5		mg/Kg		91	80 - 120
Nickel	50.0	49.8		mg/Kg		100	80 - 120
Potassium	1000	987		mg/Kg		99	80 - 120
Selenium	10.0	9.36		mg/Kg		94	80 - 120
Silver	5.00	4.55		mg/Kg		91	80 - 120
Sodium	1000	992		mg/Kg		99	80 - 120
Thallium	10.0	9.74		mg/Kg		97	80 - 120
Vanadium	50.0	49.4		mg/Kg		99	80 - 120
Zinc	50.0	49.3		mg/Kg		99	80 - 120

Lab Sample ID: LCS 500-786420/2-A
Matrix: Solid
Analysis Batch: 786924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	5.00	4.83		mg/Kg		97	80 - 120

Lab Sample ID: MB 500-786514/1-A
Matrix: Solid
Analysis Batch: 786816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Antimony	<2.0		2.0		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Arsenic	<1.0		1.0		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Barium	<1.0		1.0		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Beryllium	<0.40		0.40		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Cadmium	<0.20		0.20		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Calcium	<20		20		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Chromium	<1.0		1.0		mg/Kg		09/17/24 16:18	09/18/24 21:14	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-786514/1-A
Matrix: Solid
Analysis Batch: 786816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.50		0.50		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Copper	<1.0		1.0		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Iron	<20		20		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Lead	<0.50		0.50		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Magnesium	<10		10		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Manganese	<1.0		1.0		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Nickel	<1.0		1.0		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Potassium	<50		50		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Selenium	<1.0		1.0		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Silver	<0.50		0.50		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Sodium	<100		100		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Thallium	<1.0		1.0		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Vanadium	<0.50		0.50		mg/Kg		09/17/24 16:18	09/18/24 21:14	1
Zinc	<2.0		2.0		mg/Kg		09/17/24 16:18	09/18/24 21:14	1

Lab Sample ID: LCS 500-786514/2-A
Matrix: Solid
Analysis Batch: 786816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	191		mg/Kg		96	80 - 120
Antimony	50.0	49.1		mg/Kg		98	80 - 120
Arsenic	10.0	9.65		mg/Kg		96	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.92		mg/Kg		98	80 - 120
Cadmium	5.00	4.75		mg/Kg		95	80 - 120
Calcium	1000	976		mg/Kg		98	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Cobalt	50.0	48.7		mg/Kg		97	80 - 120
Copper	25.0	24.3		mg/Kg		97	80 - 120
Iron	100	93.9		mg/Kg		94	80 - 120
Lead	10.0	10.1		mg/Kg		101	80 - 120
Magnesium	1000	950		mg/Kg		95	80 - 120
Manganese	50.0	48.4		mg/Kg		97	80 - 120
Nickel	50.0	49.3		mg/Kg		99	80 - 120
Potassium	1000	957		mg/Kg		96	80 - 120
Selenium	10.0	9.15		mg/Kg		92	80 - 120
Silver	5.00	4.51		mg/Kg		90	80 - 120
Sodium	1000	964		mg/Kg		96	80 - 120
Thallium	10.0	9.68		mg/Kg		97	80 - 120
Vanadium	50.0	48.4		mg/Kg		97	80 - 120
Zinc	50.0	48.9		mg/Kg		98	80 - 120

Lab Sample ID: 500-256166-1 MS
Matrix: Solid
Analysis Batch: 786816

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 786514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	21000		200	21500	4	mg/Kg	☼	128	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256166-1 MS
Matrix: Solid
Analysis Batch: 786816

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 786514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	4.3	F1	49.9	10.2	F1	mg/Kg	☼	12	75 - 125
Arsenic	5.2	F1	9.98	9.26	F1	mg/Kg	☼	41	75 - 125
Barium	200	F1	200	337	F1	mg/Kg	☼	69	75 - 125
Beryllium	5.5	F1	4.99	8.86	F1	mg/Kg	☼	67	75 - 125
Cadmium	<0.22	F1	4.99	3.62	F1	mg/Kg	☼	69	75 - 125
Cobalt	7.7		49.9	51.6		mg/Kg	☼	88	75 - 125
Copper	25	F1 F2	24.9	42.8	F1	mg/Kg	☼	73	75 - 125
Iron	20000		99.8	14300	4	mg/Kg	☼	-5356	75 - 125
Lead	22	F1	9.98	27.3	F1	mg/Kg	☼	54	75 - 125
Magnesium	39000		998	36300	4	mg/Kg	☼	-302	75 - 125
Nickel	650	F2	49.9	105	4	mg/Kg	☼	-1083	75 - 125
Potassium	1300	F1	998	2110		mg/Kg	☼	76	75 - 125
Selenium	3.5	F1	9.98	9.07	F1	mg/Kg	☼	56	75 - 125
Sodium	920	F1	998	1590	F1	mg/Kg	☼	67	75 - 125
Vanadium	16	F1	49.9	48.0	F1	mg/Kg	☼	64	75 - 125
Zinc	50		49.9	91.9		mg/Kg	☼	83	75 - 125

Lab Sample ID: 500-256166-1 MS
Matrix: Solid
Analysis Batch: 787025

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 786514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	220000		998	219000	4	mg/Kg	☼	258	75 - 125
Silver	<2.8		4.99	4.96		mg/Kg	☼	100	75 - 125
Thallium	<5.5		9.98	7.55		mg/Kg	☼	76	75 - 125

Lab Sample ID: 500-256166-1 MS
Matrix: Solid
Analysis Batch: 787103

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 786514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	1400	F2	20.0	180	4	mg/Kg	☼	-6041	75 - 125
Manganese	4100	F2	49.9	5350	4	mg/Kg	☼	2570	75 - 125

Lab Sample ID: 500-256166-1 MSD
Matrix: Solid
Analysis Batch: 786816

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 786514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	21000		204	20800	4	mg/Kg	☼	-209	75 - 125	3	20
Antimony	4.3	F1	51.1	10.6	F1	mg/Kg	☼	12	75 - 125	4	20
Arsenic	5.2	F1	10.2	9.17	F1	mg/Kg	☼	39	75 - 125	1	20
Barium	200	F1	204	349	F1	mg/Kg	☼	74	75 - 125	4	20
Beryllium	5.5	F1	5.11	8.80	F1	mg/Kg	☼	65	75 - 125	1	20
Cadmium	<0.22	F1	5.11	3.77	F1	mg/Kg	☼	70	75 - 125	4	20
Cobalt	7.7		51.1	51.8		mg/Kg	☼	86	75 - 125	0	20
Copper	25	F1 F2	25.5	27.3	F1 F2	mg/Kg	☼	10	75 - 125	44	20
Iron	20000		102	14100	4	mg/Kg	☼	-5427	75 - 125	1	20
Lead	22	F1	10.2	31.8		mg/Kg	☼	97	75 - 125	15	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256166-1 MSD
Matrix: Solid
Analysis Batch: 786816

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 786514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	39000		1020	35900	4	mg/Kg	☼	-330	75 - 125	1	20
Nickel	650	F2	51.1	60.8	4 F2	mg/Kg	☼	-1145	75 - 125	54	20
Potassium	1300	F1	1020	2100	F1	mg/Kg	☼	74	75 - 125	0	20
Selenium	3.5	F1	10.2	9.51	F1	mg/Kg	☼	59	75 - 125	5	20
Sodium	920	F1	1020	1590	F1	mg/Kg	☼	65	75 - 125	0	20
Vanadium	16	F1	51.1	49.7	F1	mg/Kg	☼	65	75 - 125	3	20
Zinc	50		51.1	94.9		mg/Kg	☼	87	75 - 125	3	20

Lab Sample ID: 500-256166-1 MSD
Matrix: Solid
Analysis Batch: 787025

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 786514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	220000		1020	213000	4	mg/Kg	☼	-315	75 - 125	3	20
Silver	<2.8		5.11	5.15		mg/Kg	☼	101	75 - 125	4	20
Thallium	<5.5		10.2	8.99		mg/Kg	☼	88	75 - 125	17	20

Lab Sample ID: 500-256166-1 MSD
Matrix: Solid
Analysis Batch: 787103

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 786514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	1400	F2	20.4	72.1	4 F2	mg/Kg	☼	-6428	75 - 125	86	20
Manganese	4100	F2	51.1	4060	4 F2	mg/Kg	☼	-23	75 - 125	27	20

Lab Sample ID: 500-256166-1 DU
Matrix: Solid
Analysis Batch: 786816

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 786514

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	21000		21300		mg/Kg	☼	0.3	20
Antimony	4.3	F1	<2.1		mg/Kg	☼	NC	20
Arsenic	5.2	F1	2.14	F3	mg/Kg	☼	83	20
Barium	200	F1	199		mg/Kg	☼	0.3	20
Beryllium	5.5	F1	5.62		mg/Kg	☼	2	20
Cadmium	<0.22	F1	<0.21		mg/Kg	☼	NC	20
Cobalt	7.7		2.18	F3	mg/Kg	☼	111	20
Copper	25	F1 F2	10.9	F3	mg/Kg	☼	77	20
Iron	20000		20700		mg/Kg	☼	5	20
Lead	22	F1	24.7		mg/Kg	☼	12	20
Magnesium	39000		35300		mg/Kg	☼	11	20
Nickel	650	F2	15.9	F3	mg/Kg	☼	190	20
Potassium	1300	F1	1410		mg/Kg	☼	5	20
Selenium	3.5	F1	3.18		mg/Kg	☼	9	20
Sodium	920	F1	975		mg/Kg	☼	6	20
Vanadium	16	F1	17.4		mg/Kg	☼	7	20
Zinc	50		98.5	F3	mg/Kg	☼	65	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256166-1 DU
Matrix: Solid
Analysis Batch: 787025

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 786514

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	220000		230000		mg/Kg	☼	6	20
Silver	<2.8		<2.6		mg/Kg	☼	NC	20
Thallium	<5.5		<5.2		mg/Kg	☼	NC	20

Lab Sample ID: 500-256166-1 DU
Matrix: Solid
Analysis Batch: 787103

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 786514

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium	1400	F2	54.9	F3	mg/Kg	☼	185	20
Manganese	4100	F2	5000	F3	mg/Kg	☼	21	20

Lab Sample ID: MRL 500-787103/15
Matrix: Solid
Analysis Batch: 787103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.200	0.226		mg/L		113	70 - 130
Antimony	0.0200	0.0231		mg/L		115	70 - 130
Arsenic	0.0100	0.00997	J	mg/L		100	70 - 130
Barium	0.0100	0.0102		mg/L		102	70 - 130
Cadmium	0.00200	0.00204		mg/L		102	70 - 130
Calcium	0.200	0.213		mg/L		106	70 - 130
Chromium	0.0100	0.0107		mg/L		107	70 - 130
Cobalt	0.00500	0.00491	J	mg/L		98	70 - 130
Copper	0.0100	0.0124		mg/L		124	70 - 130
Lead	0.00500	0.00407	J	mg/L		81	70 - 130
Manganese	0.0100	0.00890	J	mg/L		89	70 - 130
Nickel	0.0100	0.00903	J	mg/L		90	70 - 130
Potassium	0.500	0.573		mg/L		115	70 - 130
Selenium	0.0100	0.0106		mg/L		106	70 - 130
Silver	0.00500	0.00463	J	mg/L		93	70 - 130
Sodium	1.00	1.10		mg/L		110	70 - 130
Thallium	0.0100	0.0123		mg/L		123	70 - 130
Vanadium	0.00500	0.00574		mg/L		115	70 - 130
Zinc	0.0200	0.0191	J	mg/L		96	70 - 130

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-786905/12-A
Matrix: Solid
Analysis Batch: 787087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786905

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/19/24 17:20	09/20/24 08:47	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-786905/13-A
Matrix: Solid
Analysis Batch: 787087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.171		mg/Kg		102	80 - 120

Lab Sample ID: 500-256166-10 MS
Matrix: Solid
Analysis Batch: 787087

Client Sample ID: SB35 (7.5-10)
Prep Type: Total/NA
Prep Batch: 786905

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.087		0.0898	0.156		mg/Kg	☼	77	75 - 125

Lab Sample ID: 500-256166-10 MSD
Matrix: Solid
Analysis Batch: 787087

Client Sample ID: SB35 (7.5-10)
Prep Type: Total/NA
Prep Batch: 786905

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.087		0.0892	0.187		mg/Kg	☼	112	75 - 125	18	20

Lab Sample ID: 500-256166-10 DU
Matrix: Solid
Analysis Batch: 787087

Client Sample ID: SB35 (7.5-10)
Prep Type: Total/NA
Prep Batch: 786905

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.087		0.405	F3	mg/Kg	☼	129	20

Lab Sample ID: MB 500-786922/12-A
Matrix: Solid
Analysis Batch: 787087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/19/24 17:20	09/20/24 09:45	1

Lab Sample ID: LCS 500-786922/13-A
Matrix: Solid
Analysis Batch: 787087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.164		mg/Kg		98	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-784967/1-A
Matrix: Solid
Analysis Batch: 785290

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/08/24 11:34	09/09/24 11:24	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 500-784967/2-A
Matrix: Solid
Analysis Batch: 785290

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.41		mg/Kg		100	85 - 115

Lab Sample ID: 500-256166-1 MS
Matrix: Solid
Analysis Batch: 785290

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 784967

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.26	F1 F2	2.64	1.74	F1	mg/Kg	☼	60	75 - 125

Lab Sample ID: 500-256166-1 MSD
Matrix: Solid
Analysis Batch: 785290

Client Sample ID: SB31 (0-3)
Prep Type: Total/NA
Prep Batch: 784967

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.26	F1 F2	2.61	4.05	F1 F2	mg/Kg	☼	149	75 - 125	80	20

Lab Sample ID: 500-256166-12 MS
Matrix: Solid
Analysis Batch: 785291

Client Sample ID: SB36 (5-7.5)
Prep Type: Total/NA
Prep Batch: 784967

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	14		2.40	15.9	4	mg/Kg	☼	81	75 - 125

Lab Sample ID: 500-256166-12 MSD
Matrix: Solid
Analysis Batch: 785291

Client Sample ID: SB36 (5-7.5)
Prep Type: Total/NA
Prep Batch: 784967

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	15		2.52	15.3	4	mg/Kg	☼	14	75 - 125	10	20

Lab Sample ID: 500-256166-12 MSD
Matrix: Solid
Analysis Batch: 785291

Client Sample ID: SB36 (5-7.5)
Prep Type: Total/NA
Prep Batch: 784967

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	14		2.52	14.5	4	mg/Kg	☼	20	75 - 125	9	20

Lab Sample ID: MB 500-785065/1-A
Matrix: Solid
Analysis Batch: 785291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/09/24 11:02	09/09/24 14:45	1

Lab Sample ID: LCS 500-785065/2-A
Matrix: Solid
Analysis Batch: 785291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.22		mg/Kg		93	85 - 115

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: 500-256166-23 MS
Matrix: Solid
Analysis Batch: 785292

Client Sample ID: SB42 (0-3)
Prep Type: Total/NA
Prep Batch: 785065

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	11	F2	2.33	13.5	4	mg/Kg	☼	89	75 - 125

Lab Sample ID: 500-256166-23 MSD
Matrix: Solid
Analysis Batch: 785292

Client Sample ID: SB42 (0-3)
Prep Type: Total/NA
Prep Batch: 785065

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	11	F2	2.38	9.40	4 F2	mg/Kg	☼	-87	75 - 125	36	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-626558/1-A
Matrix: Solid
Analysis Batch: 626649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626558

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/11/24 08:43	09/11/24 13:09	1

Lab Sample ID: LCS 240-626558/2-A
Matrix: Solid
Analysis Batch: 626649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	83.7	70.4		mg/Kg		84	56 - 120

Lab Sample ID: 500-256166-14 MS
Matrix: Solid
Analysis Batch: 626649

Client Sample ID: SB37 (12.5-15)
Prep Type: Total/NA
Prep Batch: 626558

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	39		95.1	61.9		mg/Kg	☼	24	10 - 143

Lab Sample ID: 500-256166-14 MSD
Matrix: Solid
Analysis Batch: 626649

Client Sample ID: SB37 (12.5-15)
Prep Type: Total/NA
Prep Batch: 626558

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	39		94.9	79.8		mg/Kg	☼	43	10 - 143	25	25

Method: 9045D - pH

Lab Sample ID: 500-256166-3 DU
Matrix: Solid
Analysis Batch: 785458

Client Sample ID: SB32 (0-3)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.62		9.69		SU		0.7	5

Client Sample ID: SB31 (0-3)

Lab Sample ID: 500-256166-1

Date Collected: 09/04/24 08:37

Matrix: Solid

Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 13:37
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB31 (0-3)

Lab Sample ID: 500-256166-1

Date Collected: 09/04/24 08:37

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785608	SW1	EET CHI	09/12/24 02:55
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 13:01
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		10	787250	SB	EET CHI	09/23/24 12:21
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		50	787250	SB	EET CHI	09/23/24 12:32
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8082A		20	787802	SB	EET CHI	09/26/24 11:47
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		20	787103	SJ	EET CHI	09/20/24 11:55
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 21:23
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 16:14
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 08:50
Total/NA	Prep	9010C			784967	AC	EET CHI	09/08/24 11:34 - 09/08/24 12:04 [1]
Total/NA	Analysis	9012B		1	785290	AC	EET CHI	09/09/24 11:41

Client Sample ID: SB31 (7.5-10)

Lab Sample ID: 500-256166-2

Date Collected: 09/04/24 08:58

Matrix: Solid

Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 13:39
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB31 (7.5-10)

Lab Sample ID: 500-256166-2

Date Collected: 09/04/24 08:58

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785608	SW1	EET CHI	09/12/24 03:20

Client Sample ID: SB31 (7.5-10)

Lab Sample ID: 500-256166-2

Date Collected: 09/04/24 08:58

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 13:25
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 13:02
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 12:29
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 21:46
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 08:52
Total/NA	Prep	9010C			784967	AC	EET CHI	09/08/24 11:34 - 09/08/24 12:04 [1]
Total/NA	Analysis	9012B		1	785290	AC	EET CHI	09/09/24 11:47

Client Sample ID: SB32 (0-3)

Lab Sample ID: 500-256166-3

Date Collected: 09/04/24 09:47

Matrix: Solid

Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 13:42
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB32 (0-3)

Lab Sample ID: 500-256166-3

Date Collected: 09/04/24 09:47

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785608	SW1	EET CHI	09/12/24 03:45
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 13:50
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 13:14
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 12:44
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 12:16
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 21:50
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 16:45
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 08:54
Total/NA	Prep	9010C			784967	AC	EET CHI	09/08/24 11:34 - 09/08/24 12:04 [1]
Total/NA	Analysis	9012B		1	785290	AC	EET CHI	09/09/24 11:49

Client Sample ID: SB32 (5-7.5)

Lab Sample ID: 500-256166-4

Date Collected: 09/04/24 10:00

Matrix: Solid

Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 13:47
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB32 (5-7.5)

Lab Sample ID: 500-256166-4

Date Collected: 09/04/24 10:00

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785608	SW1	EET CHI	09/12/24 04:09
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 15:02
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 13:26
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8082A		1	786882	H7CM	EET CHI	09/19/24 17:18
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 12:21
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 21:55
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 16:50
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 08:56
Total/NA	Prep	9010C			784967	AC	EET CHI	09/08/24 11:34 - 09/08/24 12:04 [1]
Total/NA	Analysis	9012B		10	786447	AC	EET CHI	09/17/24 11:01

Client Sample ID: SB33 (0-3)

Lab Sample ID: 500-256166-5

Date Collected: 09/04/24 10:42

Matrix: Solid

Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 13:49
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB33 (0-3)

Lab Sample ID: 500-256166-5

Date Collected: 09/04/24 10:42

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785608	SW1	EET CHI	09/12/24 04:34
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 15:27

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Client Sample ID: SB33 (0-3)

Date Collected: 09/04/24 10:42
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-5

Matrix: Solid
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 13:37
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8082A		1	786882	H7CM	EET CHI	09/19/24 17:33
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 12:25
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 22:08
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 16:54
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 08:58
Total/NA	Prep	9010C			784967	AC	EET CHI	09/08/24 11:34 - 09/08/24 12:04 [1]
Total/NA	Analysis	9012B		1	785290	AC	EET CHI	09/09/24 11:56

Client Sample ID: SB33 (5-7.5)

Date Collected: 09/04/24 10:57
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 13:54
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB33 (5-7.5)

Date Collected: 09/04/24 10:57
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-6

Matrix: Solid
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785608	SW1	EET CHI	09/12/24 04:59
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 15:51
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 13:49
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8082A		1	786882	H7CM	EET CHI	09/19/24 17:47
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 12:29
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 22:13
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 16:59
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:00

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Client Sample ID: SB33 (5-7.5)

Lab Sample ID: 500-256166-6
Date Collected: 09/04/24 10:57
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			784967	AC	EET CHI	09/08/24 11:34 - 09/08/24 12:04 [1]
Total/NA	Analysis	9012B		1	785290	AC	EET CHI	09/09/24 11:58

Client Sample ID: SB34 (0-3)

Lab Sample ID: 500-256166-7
Date Collected: 09/04/24 11:49
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 13:56
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB34 (0-3)

Lab Sample ID: 500-256166-7
Date Collected: 09/04/24 11:49
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785608	SW1	EET CHI	09/12/24 05:24
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 16:15
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 14:01
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8082A		1	786882	H7CM	EET CHI	09/19/24 18:02
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 12:34
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 22:18
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 17:03
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:02
Total/NA	Prep	9010C			784967	AC	EET CHI	09/08/24 11:34 - 09/08/24 12:04 [1]
Total/NA	Analysis	9012B		1	785290	AC	EET CHI	09/09/24 12:00

Client Sample ID: SB34 (5-7.5)

Lab Sample ID: 500-256166-8
Date Collected: 09/04/24 12:08
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 13:59
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Client Sample ID: SB34 (5-7.5)

Date Collected: 09/04/24 12:08
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-8

Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784775		EET CHI	09/04/24 12:08
Total/NA	Analysis	8260D		50	785875	W1T	EET CHI	09/13/24 19:46
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 16:40
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 14:12
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8082A		1	786882	H7CM	EET CHI	09/19/24 18:17
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 12:47
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 22:22
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 17:08
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:09
Total/NA	Prep	9010C			784967	AC	EET CHI	09/08/24 11:34 - 09/08/24 12:04 [1]
Total/NA	Analysis	9012B		1	785290	AC	EET CHI	09/09/24 12:01

Client Sample ID: SB35 (0-3)

Date Collected: 09/04/24 13:39
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:01
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB35 (0-3)

Date Collected: 09/04/24 13:39
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-9

Matrix: Solid
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785608	SW1	EET CHI	09/12/24 06:13
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		2	786395	WS	EET CHI	09/17/24 17:04
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		50	787250	SB	EET CHI	09/23/24 13:42
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8082A		1	786882	H7CM	EET CHI	09/19/24 18:32
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 12:51
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 22:27

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Client Sample ID: SB35 (0-3)

Date Collected: 09/04/24 13:39
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-9

Matrix: Solid
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 17:12
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:10
Total/NA	Prep	9010C			784967	AC	EET CHI	09/08/24 11:34 - 09/08/24 12:04 [1]
Total/NA	Analysis	9012B		1	785290	AC	EET CHI	09/09/24 12:03

Client Sample ID: SB35 (7.5-10)

Date Collected: 09/04/24 13:59
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:04
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB35 (7.5-10)

Date Collected: 09/04/24 13:59
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-10

Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785608	SW1	EET CHI	09/12/24 06:38
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 17:28
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		10	787250	SB	EET CHI	09/23/24 13:54
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		50	787250	SB	EET CHI	09/23/24 14:06
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8082A		1	786882	H7CM	EET CHI	09/19/24 18:47
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 12:56
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 22:32
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 17:17
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:12
Total/NA	Prep	9010C			784967	AC	EET CHI	09/08/24 11:34 - 09/08/24 12:04 [1]
Total/NA	Analysis	9012B		1	785290	AC	EET CHI	09/09/24 12:05

Client Sample ID: SB36 (0-3)

Lab Sample ID: 500-256166-11

Date Collected: 09/04/24 14:41

Matrix: Solid

Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:06
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB36 (0-3)

Lab Sample ID: 500-256166-11

Date Collected: 09/04/24 14:41

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785608	SW1	EET CHI	09/12/24 07:02
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		2	786395	WS	EET CHI	09/17/24 17:52
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 14:47
Total/NA	Prep	3541			785839	SV	EET CHI	09/12/24 17:52 - 09/13/24 00:08 [1]
Total/NA	Analysis	8082A		1	786882	H7CM	EET CHI	09/19/24 19:02
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		50	787103	SJ	EET CHI	09/20/24 13:00
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 22:37
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 17:30
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:21
Total/NA	Prep	9010C			784967	AC	EET CHI	09/08/24 11:34 - 09/08/24 12:04 [1]
Total/NA	Analysis	9012B		10	785291	LEG	EET CHI	09/09/24 13:16

Client Sample ID: SB36 (5-7.5)

Lab Sample ID: 500-256166-12

Date Collected: 09/04/24 14:58

Matrix: Solid

Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:09
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB36 (5-7.5)

Lab Sample ID: 500-256166-12

Date Collected: 09/04/24 14:58

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/11/24 23:01
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		2	786395	WS	EET CHI	09/17/24 18:17

Client Sample ID: SB36 (5-7.5)

Lab Sample ID: 500-256166-12

Date Collected: 09/04/24 14:58

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 14:59
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 17:32
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		50	787103	SJ	EET CHI	09/20/24 13:04
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 22:41
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 17:34
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:23
Total/NA	Prep	9010C			784967	AC	EET CHI	09/08/24 11:34 - 09/08/24 12:04 [1]
Total/NA	Analysis	9012B		10	785291	LEG	EET CHI	09/09/24 13:21

Client Sample ID: SB37 (0-3)

Lab Sample ID: 500-256166-13

Date Collected: 09/04/24 09:42

Matrix: Solid

Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:11
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB37 (0-3)

Lab Sample ID: 500-256166-13

Date Collected: 09/04/24 09:42

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/11/24 23:25
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		2	786395	WS	EET CHI	09/17/24 18:41
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 15:34
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 18:18
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 13:09
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 22:46
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 17:39
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:25

Client Sample ID: SB37 (0-3)
Lab Sample ID: 500-256166-13
Date Collected: 09/04/24 09:42
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		1	785291	LEG	EET CHI	09/09/24 15:13

Client Sample ID: SB37 (12.5-15)
Lab Sample ID: 500-256166-14
Date Collected: 09/04/24 09:48
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:14
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB37 (12.5-15)
Lab Sample ID: 500-256166-14
Date Collected: 09/04/24 09:48
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/11/24 23:49
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 19:05
Total/NA	Prep	5035			784775		EET CHI	09/04/24 09:48
Total/NA	Analysis	8015D		50	784948	WRE	EET CHI	09/09/24 02:44
Total/NA	Prep	3541			785024	FRG	EET CHI	09/09/24 07:38 - 09/09/24 15:38 [1]
Total/NA	Analysis	8015D		1	785398	H7CM	EET CHI	09/11/24 03:38
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 15:45
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 18:33
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 22:50
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 17:43
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:27
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		1	785291	LEG	EET CHI	09/09/24 15:15
Total/NA	Prep	9030B			626558	C5SV	EET CLE	09/11/24 08:43
Total/NA	Analysis	9034		1	626649	C5SV	EET CLE	09/11/24 13:09

Client Sample ID: SB38 (0-3)
Lab Sample ID: 500-256166-15
Date Collected: 09/04/24 10:11
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:16

Client Sample ID: SB38 (0-3)
Lab Sample ID: 500-256166-15
Date Collected: 09/04/24 10:11
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	785986	ER	EET CHI	09/13/24 12:18

Client Sample ID: SB38 (0-3)
Lab Sample ID: 500-256166-15
Date Collected: 09/04/24 10:11
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/12/24 00:13
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		2	786395	WS	EET CHI	09/17/24 19:29
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 15:57
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 18:49
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 13:17
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 23:04
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 17:48
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:33
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		10	785292	AC	EET CHI	09/09/24 16:42

Client Sample ID: SB38 (12.5-15)
Lab Sample ID: 500-256166-16
Date Collected: 09/04/24 10:14
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:21
Total/NA	Analysis	Moisture		1	785990	ER	EET CHI	09/13/24 12:37

Client Sample ID: SB38 (12.5-15)
Lab Sample ID: 500-256166-16
Date Collected: 09/04/24 10:14
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/12/24 00:37
Total/NA	Prep	3546	DL		786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E	DL	20	786597	WS	EET CHI	09/18/24 16:02
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 19:53

Client Sample ID: SB38 (12.5-15)
Lab Sample ID: 500-256166-16

Date Collected: 09/04/24 10:14
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 16:09
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 19:04
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 23:08
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 17:52
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:35
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		1	785291	LEG	EET CHI	09/09/24 15:18
Total/NA	Prep	9030B			626558	C5SV	EET CLE	09/11/24 08:43
Total/NA	Analysis	9034		1	626649	C5SV	EET CLE	09/11/24 13:09

Client Sample ID: SB39 (0-3)
Lab Sample ID: 500-256166-17

Date Collected: 09/04/24 10:30
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:23
Total/NA	Analysis	Moisture		1	785990	ER	EET CHI	09/13/24 12:37

Client Sample ID: SB39 (0-3)
Lab Sample ID: 500-256166-17

Date Collected: 09/04/24 10:30
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/12/24 01:01
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		2	786395	WS	EET CHI	09/17/24 20:17
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 16:20
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		50	787803	SB	EET CHI	09/26/24 13:38
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 13:26
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 23:13
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 17:57
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:37

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Client Sample ID: SB39 (0-3)

Lab Sample ID: 500-256166-17
Date Collected: 09/04/24 10:30
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		1	785291	LEG	EET CHI	09/09/24 15:24

Client Sample ID: SB39 (7.5-10)

Lab Sample ID: 500-256166-18
Date Collected: 09/04/24 10:41
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:25
Total/NA	Analysis	Moisture		1	785990	ER	EET CHI	09/13/24 12:37

Client Sample ID: SB39 (7.5-10)

Lab Sample ID: 500-256166-18
Date Collected: 09/04/24 10:41
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/12/24 01:25
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 20:42
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 16:32
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 19:35
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 13:39
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 23:17
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 18:01
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:39
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		1	785291	LEG	EET CHI	09/09/24 15:26

Client Sample ID: SB40 (0-3)

Lab Sample ID: 500-256166-19
Date Collected: 09/04/24 10:52
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:28
Total/NA	Analysis	Moisture		1	785990	ER	EET CHI	09/13/24 12:37

Client Sample ID: SB40 (0-3)

Lab Sample ID: 500-256166-19
Date Collected: 09/04/24 10:52
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/12/24 01:49
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		2	786395	WS	EET CHI	09/17/24 21:06
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787130	H7CM	EET CHI	09/21/24 16:44
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 19:50
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 13:43
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 23:22
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 18:06
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:41
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		1	785291	LEG	EET CHI	09/09/24 15:27

Client Sample ID: SB40 (5-7.5)

Lab Sample ID: 500-256166-20
Date Collected: 09/04/24 11:12
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:30
Total/NA	Analysis	Moisture		1	785990	ER	EET CHI	09/13/24 12:37

Client Sample ID: SB40 (5-7.5)

Lab Sample ID: 500-256166-20
Date Collected: 09/04/24 11:12
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/12/24 02:13
Total/NA	Prep	3546			786368	OP	EET CHI	09/17/24 07:52
Total/NA	Analysis	8270E		1	786395	WS	EET CHI	09/17/24 21:30
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787250	SB	EET CHI	09/23/24 14:17
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		50	787250	SB	EET CHI	09/23/24 14:29
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 20:06
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787103	SJ	EET CHI	09/20/24 13:47

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Client Sample ID: SB40 (5-7.5)

Lab Sample ID: 500-256166-20
Date Collected: 09/04/24 11:12
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/18/24 23:27
Total/NA	Prep	3050B			786514	S1Z	EET CHI	09/17/24 16:18 - 09/17/24 21:18 [1]
Total/NA	Analysis	6010D		5	787025	SJ	EET CHI	09/19/24 18:10
Total/NA	Prep	7471B			786905	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:42
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		1	785291	LEG	EET CHI	09/09/24 15:29

Client Sample ID: SB41 (0-3)

Lab Sample ID: 500-256166-21
Date Collected: 09/04/24 11:36
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:33
Total/NA	Analysis	Moisture		1	785990	ER	EET CHI	09/13/24 12:37

Client Sample ID: SB41 (0-3)

Lab Sample ID: 500-256166-21
Date Collected: 09/04/24 11:36
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/12/24 02:37
Total/NA	Prep	3546			786293	LH	EET CHI	09/16/24 15:05
Total/NA	Analysis	8270E		2	786382	WS	EET CHI	09/17/24 14:40
Total/NA	Prep	3546	DL		786293	LH	EET CHI	09/16/24 15:05
Total/NA	Analysis	8270E	DL	100	786382	WS	EET CHI	09/17/24 17:09
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787250	SB	EET CHI	09/23/24 14:41
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 20:21
Total/NA	Prep	3050B			786420	BDE	EET CHI	09/17/24 10:12 - 09/17/24 16:12 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/19/24 01:07
Total/NA	Prep	3050B			786420	BDE	EET CHI	09/17/24 10:12 - 09/17/24 16:12 [1]
Total/NA	Analysis	6010D		5	786924	SJ	EET CHI	09/19/24 12:37
Total/NA	Prep	7471B			786922	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:48
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		10	785292	AC	EET CHI	09/09/24 17:00

Client Sample ID: SB41 (5-7.5)

Lab Sample ID: 500-256166-22

Date Collected: 09/04/24 11:42

Matrix: Solid

Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:35
Total/NA	Analysis	Moisture		1	785990	ER	EET CHI	09/13/24 12:37

Client Sample ID: SB41 (5-7.5)

Lab Sample ID: 500-256166-22

Date Collected: 09/04/24 11:42

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/12/24 03:01
Total/NA	Prep	3546			786293	LH	EET CHI	09/16/24 15:05
Total/NA	Analysis	8270E		2	786382	WS	EET CHI	09/17/24 15:05
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787250	SB	EET CHI	09/23/24 14:52
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 20:36
Total/NA	Prep	3050B			786420	BDE	EET CHI	09/17/24 10:12 - 09/17/24 16:12 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/19/24 01:11
Total/NA	Prep	3050B			786420	BDE	EET CHI	09/17/24 10:12 - 09/17/24 16:12 [1]
Total/NA	Analysis	6010D		5	786924	SJ	EET CHI	09/19/24 12:42
Total/NA	Prep	7471B			786922	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 09:51
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		10	785292	AC	EET CHI	09/09/24 17:05

Client Sample ID: SB42 (0-3)

Lab Sample ID: 500-256166-23

Date Collected: 09/04/24 12:43

Matrix: Solid

Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:38
Total/NA	Analysis	Moisture		1	785990	ER	EET CHI	09/13/24 12:37

Client Sample ID: SB42 (0-3)

Lab Sample ID: 500-256166-23

Date Collected: 09/04/24 12:43

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/12/24 03:25
Total/NA	Prep	3546			786293	LH	EET CHI	09/16/24 15:05
Total/NA	Analysis	8270E		2	786382	WS	EET CHI	09/17/24 15:30
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787250	SB	EET CHI	09/23/24 15:04

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Client Sample ID: SB42 (0-3)

Lab Sample ID: 500-256166-23
Date Collected: 09/04/24 12:43
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 20:52
Total/NA	Prep	3050B			786420	BDE	EET CHI	09/17/24 10:12 - 09/17/24 16:12 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/19/24 01:16
Total/NA	Prep	3050B			786420	BDE	EET CHI	09/17/24 10:12 - 09/17/24 16:12 [1]
Total/NA	Analysis	6010D		5	786924	SJ	EET CHI	09/19/24 12:46
Total/NA	Prep	7471B			786922	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 10:07
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		10	785292	AC	EET CHI	09/09/24 17:10

Client Sample ID: SB42 (7.5-10)

Lab Sample ID: 500-256166-24
Date Collected: 09/04/24 12:52
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:40
Total/NA	Analysis	Moisture		1	785990	ER	EET CHI	09/13/24 12:37

Client Sample ID: SB42 (7.5-10)

Lab Sample ID: 500-256166-24
Date Collected: 09/04/24 12:52
Matrix: Solid
Date Received: 09/05/24 11:17
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/12/24 03:49
Total/NA	Prep	3546			786293	LH	EET CHI	09/16/24 15:05
Total/NA	Analysis	8270E		1	786382	WS	EET CHI	09/17/24 15:55
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787250	SB	EET CHI	09/23/24 15:15
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 21:07
Total/NA	Prep	3050B			786420	BDE	EET CHI	09/17/24 10:12 - 09/17/24 16:12 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/19/24 01:20
Total/NA	Prep	3050B			786420	BDE	EET CHI	09/17/24 10:12 - 09/17/24 16:12 [1]
Total/NA	Analysis	6010D		5	786924	SJ	EET CHI	09/19/24 12:51
Total/NA	Prep	7471B			786922	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 10:09
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		1	785291	LEG	EET CHI	09/09/24 15:40

Client Sample ID: SB43 (0-3)

Lab Sample ID: 500-256166-25

Date Collected: 09/04/24 13:42

Matrix: Solid

Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:43
Total/NA	Analysis	Moisture		1	785990	ER	EET CHI	09/13/24 12:37

Client Sample ID: SB43 (0-3)

Lab Sample ID: 500-256166-25

Date Collected: 09/04/24 13:42

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/12/24 04:14
Total/NA	Prep	3546			786293	LH	EET CHI	09/16/24 15:05
Total/NA	Analysis	8270E		2	786382	WS	EET CHI	09/17/24 16:20
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787250	SB	EET CHI	09/23/24 15:27
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 21:22
Total/NA	Prep	3050B			786420	BDE	EET CHI	09/17/24 10:12 - 09/17/24 16:12 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/19/24 01:25
Total/NA	Prep	3050B			786420	BDE	EET CHI	09/17/24 10:12 - 09/17/24 16:12 [1]
Total/NA	Analysis	6010D		5	786924	SJ	EET CHI	09/19/24 12:55
Total/NA	Prep	7471B			786922	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 10:11
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		5	785292	AC	EET CHI	09/09/24 17:24

Client Sample ID: SB43 (10-12.5)

Lab Sample ID: 500-256166-26

Date Collected: 09/04/24 13:47

Matrix: Solid

Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785458	ST	EET CHI	09/10/24 14:47
Total/NA	Analysis	Moisture		1	785990	ER	EET CHI	09/13/24 12:37

Client Sample ID: SB43 (10-12.5)

Lab Sample ID: 500-256166-26

Date Collected: 09/04/24 13:47

Matrix: Solid

Date Received: 09/05/24 11:17

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784790		EET CHI	09/05/24 18:07
Total/NA	Analysis	8260D		1	785609	PMF	EET CHI	09/12/24 04:38
Total/NA	Prep	3546			786293	LH	EET CHI	09/16/24 15:05
Total/NA	Analysis	8270E		2	786382	WS	EET CHI	09/17/24 16:45
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8081B		10	787250	SB	EET CHI	09/23/24 15:39

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-1

Client Sample ID: SB43 (10-12.5)

Date Collected: 09/04/24 13:47
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-26

Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786310	SV	EET CHI	09/16/24 16:28 - 09/16/24 23:46 [1]
Total/NA	Analysis	8082A		10	787365	H7CM	EET CHI	09/23/24 21:38
Total/NA	Prep	3050B			786420	BDE	EET CHI	09/17/24 10:12 - 09/17/24 16:12 [1]
Total/NA	Analysis	6010D		1	786816	SJ	EET CHI	09/19/24 01:29
Total/NA	Prep	3050B			786420	BDE	EET CHI	09/17/24 10:12 - 09/17/24 16:12 [1]
Total/NA	Analysis	6010D		5	786924	SJ	EET CHI	09/19/24 13:00
Total/NA	Prep	7471B			786922	MJG	EET CHI	09/19/24 17:20
Total/NA	Analysis	7471B		1	787087	MJG	EET CHI	09/20/24 10:12
Total/NA	Prep	9010C			785065	AC	EET CHI	09/09/24 11:02 - 09/09/24 11:32 [1]
Total/NA	Analysis	9012B		1	785292	AC	EET CHI	09/09/24 16:30

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	10-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record 720436

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact: PIONEER	Project Manager: Jason Harrison	Site Contact	Date:
Company Name	Tel/Email: JHarrison@	Lab Contact	Carrier:
Address	Analysis Turnaround Time		COC No 1 of 5 COCs
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS		Sampler
Phone	TAT if different from Below		For Lab Use Only:
Fax	☒ 2 weeks		Walk-in Client
Project Name 8080 S LAKESHORE Dr	☐ 1 week		Lab Sampling
Site	☐ 2 days		Job / SDG No 500-256166
P O # 24-0124-103	☐ 1 day		

500-256166 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCH	Sample Specific Notes
1	SB31 (0-3)	9/4/24	837	G	SO	4			X	
2	SB31 (7.5-10)		859						X	
3	SB32 (0-3)		947							
4	SB32 (5-7.5)		1000							
5	SB33 (0-3)		1042							
6	SB33 (5-7.5)		1057							
7	SB34 (0-3)		1149							
8	SB34 (5-7.5)		1208							
9	SB35 (0-3)		139							
10	SB35 (7.5-10)		159							
11	SB36 (0-3)		241							
12	SB36 (5-7.5)		258							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

3.6+3.3, 0.9+0.6

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	9/5/24	Received by	EETA	9/5/24 0915
Relinquished by	EETA 9/5/24	1117	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by Stephanie Hernandez	EETA	9/6/24 1117

Chain of Custody Record 719718

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager:	Site Contact	Date:	COC No 2
Company Name Pioneer	Tel/Email:	Lab Contact:	Carrier	2 of 3 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip 2753 W 31st St.	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name 8080 S. Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO# 24-0124-103	☐ 1 day			500-256166

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL, pH	Sample Specific Notes
13	SB37(0-3)	9/4/24	9:42am	G	S	4			X	
14	SB37(12.5-15)		9:48am						X	
15	SB38(0-3)		10.11am						X	
16	SB38(12.5-15)		10.14am						X	
17	SB39(0-3)		10:30am						X	
18	SB39(7.5-10)		10:46am						X	
19	SB40(0-3)		10:52am						X	
20	SB40(5-7.5)		11.12am						X	
21	SB41(0-3)		11.36am						X	
22	SB41(5-7.5)		11.42am						X	
23	SB42(0-3)		12:43am						X	
24	SB42(7.5-10)		12:52am						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pioneer	9/5/24	[signature]	EETA	9/5/24 0915
[signature]	EETA 9/5/24	1117			
			Received in Laboratory by Stephanie Hemanay	EETA	9/5/24 1117

Chain of Custody Record 719719

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact	Date	COC No 3
Company Name Pioneer	Tel/Email Hartsock@pioneerco.com	Lab Contact	Carrier	3 of 3 COCs
Address 2753 W 33rd St.	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name 8080 S Lakeshore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO# 24-0124-103	☐ 1 day			500-256164

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TCLP															Sample Specific Notes
25	SB43 (0-3)	9/4/24	1:47 pm	G	S	4			X															
26	SB43 (10-12.5)	↓	1:57 pm	↓	↓	4			X															

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ | Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	Pioneer	9/5/24	Received by	EETA	9/5/24 0915
Relinquished by	EETA 9/5/24	1117	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by Stephanie Hernandez	EETA	9/5/24 1117

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192318.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256166-1
Address: 180 S Van Buren Avenue,	Due Date Requested: 9/18/2024			Preservation Codes.
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:						E191
SB37 (12.5-15) (500-256166-14)	9/4/24	09:48 Central	G	Solid			X	1	
SB38 (12.5-15) (500-256166-16)	9/4/24	10:14 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	09/06/24 1540	ETA	JESSE MOROSKO	09/07/24 0930	ETC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client Eurofins Chicago Site Name _____ Cooler unpacked by: JMOROSKO

Cooler Received on 09107124 Opened on 09109124

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: Wet Ice (Blue Ice) Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 22 (CF -0.1 °C) Observed Cooler Temp 4.5 °C Corrected Cooler Temp. 4.4 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?	(Y)	(Y) (Y)
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC442471
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	(No) NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	No
17 Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container
Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory
Time preserved. _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

urofins | Environment Testing TestAmerica

2546146

Temperature Controlled

IF THIS SHIPMENT IS DELAYED IN TRANSIT, STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)

TAL-0090(1016)

TO SAMPLE RECEIVING
EUROFINS - CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203

SHIP DATE 08SEP24
ACTWGT: 34.00 LB MAN
CAD: 0675858/...FE3854

BILL SENDER

FedEx Express

TRK# 0201 7051 7620 8358

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CAKA

44203
OH-US CLE

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193730.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256166-2
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/17/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/1311T_M (MOD) TCLP RCRA Metals	7470A/1311T_Hg TCLP Mercury	6010D/1311T_M (MOD) aj 1 element, including prep	6020B/1311T_M (MOD) TCLP TI	Total Number of containers	Special Instructions/Note:
			Preservation Code:									EOS4
SB36 (0-3) (500-256166-11)	9/4/24	14:41 Central	G	Solid			X	X			1	
SB36 (5-7.5) (500-256166-12)	9/4/24	14.58 Central	G	Solid					X		1	
SB42 (0-3) (500-256166-23)	9/4/24	12:43 Central	G	Solid						X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hernandez	10/11/24 1600		KATHARINE MARTIN	10/12/24 920	EUE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler unpacked by: ICM

Cooler Received on 10/12/24 Opened on 10/12/24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt [X] See Multiple Cooler Form

IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp °C

2	Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes) No
	-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No NA
	-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)
	-Were tamper/custody seals intact and uncompromised?	(Yes) No NA
3	Shippers' packing slip attached to the cooler(s)?	(Yes) No
4.	Did custody papers accompany the sample(s)?	(Yes) No
5	Were the custody papers relinquished & signed in the appropriate place?	(Yes) No
6	Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)
7	Did all bottles arrive in good condition (Unbroken)?	(Yes) No
8	Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No
9	For each sample, does the COC specify preservatives (Y/(N)), # of containers (Y/N), and sample type of grab/comp (Y/N)?	
10	Were correct bottle(s) used for the test(s) indicated?	(Yes) No
11	Sufficient quantity received to perform indicated analyses?	(Yes) No
12.	Are these work share samples and all listed on the COC?	(Yes) No
	If yes, Questions 13-17 have been checked at the originating laboratory	
13	Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA pH Strip Lot# HC447997
14	Were VOAs on the COC?	Yes No
15	Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes No NA
16	Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No
17	Was a LL Hg or Me Hg trip blank present?	Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen.

Login # : ____________

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: ______	2.9	3.0	Wet Ice (circled) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE 11OCT24
ACTWGT: 68.00 LB MAN
CAD: 0675858/CAFE3854

BILL SENDER

Part # 159469-434 MTW EXP 02/25

TO SAMPLE RECEIVING
EUROFINS—CANTON
186 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396
REF: 257701 255857 917 256054 095 166 275

FedEx Express

E

2 of 4
MPS# 0263 7051 7621 1593
Mstr# 7051 7621 1562 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CAKA

44203
OH-US CLE

RT 448 1 12:00
FZ 447 1593 10.12

Page 227 of 228

/2025 (Rev. 2)

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Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256166-1

Login Number: 256166
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3,0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 8:54:30 AM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256275-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 8:54:30 AM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job Narrative
500-256275-1

Revision
The report being provided is a revision of the original report sent on 9/26/2024. The report (revision 2) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 12/11/2024 - Reason - The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/6/2024 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1º C.

Receipt Exceptions

The sample date on page 2 of the COC is incorrect. The correct sample date is 9/5/24.

GC/MS VOA
Method 8260D: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: SB51 (5-7.5) (500-256275-16) and SB52 (7.5-10) (500-256275-18). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantized with this internal standard.

Method 8260D: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: SB44 (0-3) (500-256275-1). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantized with this internal standard.

Method 8260D: Surrogate recovery for the following samples were outside the upper control limit: SB44 (0-3) (500-256275-1) and SB48 (0-3) (500-256275-9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Surrogate recovery for the following samples were outside control limits: SB46 (3-5) (500-256275-6) and SB47 (7.5-10) (500-256275-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Surrogate recovery for the following sample was outside control limits: SB55 (0-3) (500-256275-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 500-784998 and 500-784997 and analytical batch 500-785881: Methylene Chloride. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260D: Elevated reporting limits are provided for the following sample(s). All low level vials yielded unusable data. A 1/50 dilution had to be performed from the methanol vial.SB51 (0-3) (500-256275-15), SB53 (0-3) (500-256275-19), SB54 (0-3) (500-256275-21) and SB54 (10-12.5) (500-256275-22)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB54 (0-3) (500-256275-21). These results have been reported and qualified.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-786603 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 500-786603 recovered above the upper control limit for 2-Nitroaniline and N-Nitrosodi-n-propylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB54 (0-3) (500-256275-21), SB54 (10-12.5) (500-256275-22), SB55 (0-3) (500-256275-23) and SB55 (5-7.5) (500-256275-24). Elevated reporting limits (RLs) are provided.

Method 8270E: Surrogate 2-Fluorophenol (Surr) and 2,4,6-Tribromophenol (Surr) recovery for the following sample was outside control limits: SB55 (0-3) (500-256275-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB45 (5-7.5) (500-256275-4), SB46 (0-3) (500-256275-5), SB46 (3-5) (500-256275-6), SB48 (0-3) (500-256275-9), SB50 (7.5-10) (500-256275-14), SB52 (0-3) (500-256275-17), SB52 (7.5-10) (500-256275-18) and SB53 (0-3) (500-256275-19). Elevated reporting limits (RLs) are provided.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-786826 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-786617 and analytical batch 500-786826 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB48 (5-7.5) (500-256275-10), (500-256275-D-10-D MS) and (500-256275-D-10-E MSD). Elevated reporting limits (RLs) are provided.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: SB48 (5-7.5) (500-256275-10). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB48 (5-7.5) (500-256275-10), (500-256275-D-10-D MS) and (500-256275-D-10-E MSD). These results have been reported and qualified.

Method 8270E: Surrogate 2-Fluorophenol (Surr) and 2,4,6-Tribromophenol (Surr) recovery for the following sample was outside control limits: SB47 (7.5-10) (500-256275-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E: Surrogate 2,4,6-Tribromophenol (Surr) recovery for the following samples were outside control limits: SB46 (3-5) (500-256275-6), SB47 (0-3) (500-256275-7), SB49 (0-3) (500-256275-11) and SB52 (0-3) (500-256275-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB50 (7.5-10) (500-256275-14) and SB53 (0-3) (500-256275-19). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1254 for the following sample: SB53 (0-3) (500-256275-19). internal standard outside of control limits on column-0; therefore; the higher value on column-1 has been reported and qualified.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-786336 and analytical batch 500-787365 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside control limits: SB53 (0-3) (500-256275-19). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

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Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB44 (0-3) (500-256275-1), SB45 (0-3) (500-256275-3), SB46 (0-3) (500-256275-5), SB53 (0-3) (500-256275-19), SB53 (10-12.5) (500-256275-20), SB54 (0-3) (500-256275-21), SB55 (5-7.5) (500-256275-24), (500-256275-D-22-C MS) and (500-256275-D-22-D MSD). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-786336 and analytical batch 500-787410 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB44 (0-3) (500-256275-1), SB44 (5-7.5) (500-256275-2), SB45 (0-3) (500-256275-3), SB46 (0-3) (500-256275-5), SB53 (0-3) (500-256275-19), SB53 (10-12.5) (500-256275-20), SB54 (0-3) (500-256275-21), SB54 (10-12.5) (500-256275-22), SB55 (5-7.5) (500-256275-24), (500-256275-D-22-C MS) and (500-256275-D-22-D MSD). Elevated reporting limits (RLs) are provided.

Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB46 (3-5) (500-256275-6), SB47 (0-3) (500-256275-7), SB47 (7.5-10) (500-256275-8), SB48 (0-3) (500-256275-9), SB48 (5-7.5) (500-256275-10), SB49 (0-3) (500-256275-11), SB50 (0-3) (500-256275-13), SB50 (7.5-10) (500-256275-14), SB51 (0-3) (500-256275-15), SB52 (0-3) (500-256275-17), (500-256275-D-13-C MS) and (500-256275-D-13-D MSD). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-786335 and analytical batch 500-787504 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8082A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB44 (0-3) (500-256275-1), SB44 (5-7.5) (500-256275-2), SB45 (0-3) (500-256275-3), SB45 (5-7.5) (500-256275-4), SB46 (0-3) (500-256275-5), SB46 (3-5) (500-256275-6), SB47 (0-3) (500-256275-7), SB48 (0-3) (500-256275-9), SB48 (5-7.5) (500-256275-10), SB49 (0-3) (500-256275-11), SB49 (10-12.5) (500-256275-12) and SB52 (7.5-10) (500-256275-18).

Method 8082A: The following sample required a dilution due to the nature of the sample matrix: SB52 (7.5-10) (500-256275-18). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples were outside control limits: SB46 (3-5) (500-256275-6), SB48 (0-3) (500-256275-9), SB48 (5-7.5) (500-256275-10) and SB49 (0-3) (500-256275-11). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SB45 (5-7.5) (500-256275-4) and SB52 (7.5-10) (500-256275-18).

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB45 (5-7.5) (500-256275-4), SB52 (7.5-10) (500-256275-18) and SB55 (0-3) (500-256275-23). Elevated reporting limits (RLs) are provided.

Method 8081B: The %RPD between the primary and confirmation column exceeded 40% for Endosulfan II and Heptachlor epoxide for the following sample: SB55 (0-3) (500-256275-23). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081B: The following samples required a dilution due to the nature of the sample matrix: SB45 (5-7.5) (500-256275-4), SB52 (7.5-10) (500-256275-18) and SB55 (0-3) (500-256275-23). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside control limits: SB52 (7.5-10) (500-256275-18). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-787590/4). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB51 (0-3) (500-256275-15) and SB51 (5-7.5) (500-256275-16). Elevated reporting limits (RLs) are provided.

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Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1248 for the following sample: SB52 (0-3) (500-256275-17). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8082A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB50 (0-3) (500-256275-13), SB50 (7.5-10) (500-256275-14), (500-256275-D-13-E MS) and (500-256275-D-13-F MSD).

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: (500-256275-D-13-E MS) and (500-256275-D-13-F MSD). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following sample required a dilution due to the nature of the sample matrix: SB55 (0-3) (500-256275-23). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB47 (7.5-10) (500-256275-8) and SB54 (0-3) (500-256275-21).

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB47 (7.5-10) (500-256275-8). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: SB55 (5-7.5) (500-256275-24).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010D: The method blank for prep batch 786853 contained Zn above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 9034: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 240-626558 and analytical batch 240-626649 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB44 (0-3)
Lab Sample ID: 500-256275-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.020	J	0.028	0.012	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0040	J	0.0070	0.0013	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.019	J	0.035	0.0071	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.019	J	0.035	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.060		0.035	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.043		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.074		0.035	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.040		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.047		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.10		0.035	0.0092	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.13		0.035	0.0081	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.28		0.035	0.0063	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.52		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.11		0.035	0.0095	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.50		0.071	0.0070	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.091	J	0.18	0.012	mg/Kg	1	☼	8270E	Total/NA
Phenol	1.0		0.18	0.015	mg/Kg	1	☼	8270E	Total/NA
Aluminum	12000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	15	F1 F2	1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	130	F1	1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.68	F1	0.41		mg/Kg	1	☼	6010D	Total/NA
Calcium	40000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	60	F1	1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.4	F1	0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	14	F1	1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	33000	B	20		mg/Kg	1	☼	6010D	Total/NA
Lead	15	F2 F1	0.51		mg/Kg	1	☼	6010D	Total/NA
Magnesium	1600	F2 F1	10		mg/Kg	1	☼	6010D	Total/NA
Manganese	1100	B F2	1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	71	F1	1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	780	F1	51		mg/Kg	1	☼	6010D	Total/NA
Sodium	610		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.7	F1	1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	15	F1	0.51		mg/Kg	1	☼	6010D	Total/NA
Zinc	100	F1 F2	2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.021		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	8.5		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	7.95		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB44 (5-7.5)
Lab Sample ID: 500-256275-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0024	J	0.0063	0.0012	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.016	J	0.037	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.058		0.037	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.031	J	0.037	0.0081	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.023	J	0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.095		0.037	0.0098	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.11		0.037	0.0087	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.031	J	0.037	0.0067	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.94		0.037	0.0081	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB44 (5-7.5) (Continued)
Lab Sample ID: 500-256275-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.096		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.13		0.075	0.0075	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.038	J	0.19	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	5300		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.2		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	51		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.4		0.40		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.31		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	30000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	13		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.5		0.50		mg/Kg	1	☼	6010D	Total/NA
Copper	26		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	41000	B	20		mg/Kg	1	☼	6010D	Total/NA
Lead	65		0.50		mg/Kg	1	☼	6010D	Total/NA
Magnesium	6400		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	920	B	1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	18		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	680		50		mg/Kg	1	☼	6010D	Total/NA
Sodium	480		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.1		1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	27		0.50		mg/Kg	1	☼	6010D	Total/NA
Zinc	260		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	0.99		0.28		mg/Kg	1	☼	9012B	Total/NA
pH	8.74		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB45 (0-3)
Lab Sample ID: 500-256275-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0017	J	0.0060	0.0011	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.015	J	0.034	0.0069	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.061		0.034	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.045		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.044		0.034	0.032	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.035		0.034	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.046		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.083		0.034	0.0089	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.11		0.034	0.0079	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.060		0.034	0.0061	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.51		0.034	0.0074	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.096		0.034	0.0093	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.12		0.069	0.0068	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.034	J	0.17	0.012	mg/Kg	1	☼	8270E	Total/NA
Aluminum	2300		18		mg/Kg	1	☼	6010D	Total/NA
Antimony	15		1.8		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.0		0.91		mg/Kg	1	☼	6010D	Total/NA
Barium	42		0.91		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.66		0.37		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.49		0.18		mg/Kg	1	☼	6010D	Total/NA
Calcium	6200		18		mg/Kg	1	☼	6010D	Total/NA
Chromium	11		0.91		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.2		0.46		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB45 (0-3) (Continued)
Lab Sample ID: 500-256275-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	17		0.91		mg/Kg	1	☼	6010D	Total/NA
Iron	36000	B	18		mg/Kg	1	☼	6010D	Total/NA
Lead	180		0.46		mg/Kg	1	☼	6010D	Total/NA
Magnesium	2200		9.1		mg/Kg	1	☼	6010D	Total/NA
Manganese	440	B	0.91		mg/Kg	1	☼	6010D	Total/NA
Nickel	11		0.91		mg/Kg	1	☼	6010D	Total/NA
Potassium	460		46		mg/Kg	1	☼	6010D	Total/NA
Sodium	200		91		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.1		0.91		mg/Kg	1	☼	6010D	Total/NA
Vanadium	11		0.46		mg/Kg	1	☼	6010D	Total/NA
Zinc	79		1.8		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.018		0.017		mg/Kg	1	☼	7471B	Total/NA
pH	8.69		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB45 (5-7.5)
Lab Sample ID: 500-256275-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.022	0.0093	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.016		0.0022	0.00069	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.011		0.0055	0.0010	mg/Kg	1	☼	8260D	Total/NA
Ethylbenzene	0.024		0.0022	0.0012	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.049		0.0022	0.00044	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.022		0.0044	0.00076	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.12		0.071	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.26		0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	1.3		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.7		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.88		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.76		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.27		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.97		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.6		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.11		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	3.9		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.39		0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.37		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.19		0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	3.7		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	3.1		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.16		0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
2-Methylphenol	0.046	J	0.36	0.038	mg/Kg	2	☼	8270E	Total/NA
3 & 4 Methylphenol	0.19	J	0.36	0.052	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.48		0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.26	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Phenol	0.069	J	0.36	0.031	mg/Kg	2	☼	8270E	Total/NA
Aluminum	16000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.5		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	130		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.6		0.43		mg/Kg	1	☼	6010D	Total/NA
Calcium	130000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	7.9		1.1		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB45 (5-7.5) (Continued)
Lab Sample ID: 500-256275-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	4.0		2.7		mg/Kg	5	☼	6010D	Total/NA
Copper	16		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	46000	B	21		mg/Kg	1	☼	6010D	Total/NA
Lead	53		2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	30000		53		mg/Kg	5	☼	6010D	Total/NA
Manganese	9200	B	5.3		mg/Kg	5	☼	6010D	Total/NA
Nickel	9.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1800		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.1		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	620		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	13		5.3		mg/Kg	5	☼	6010D	Total/NA
Vanadium	14		0.53		mg/Kg	1	☼	6010D	Total/NA
Zinc	20		2.1		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	1.7		0.25		mg/Kg	1	☼	9012B	Total/NA
Sulfide	510		32		mg/Kg	1	☼	9034	Total/NA
pH	7.59		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB46 (0-3)
Lab Sample ID: 500-256275-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00079	J	0.0019	0.00060	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0019	J	0.0047	0.00087	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	1.4		0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.055	J	0.070	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	3.5		0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	4.2		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	3.9		0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	4.1		0.070	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.9		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	3.3		0.070	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	4.1		0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.52		0.070	0.070	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	15		0.070	0.016	mg/Kg	2	☼	8270E	Total/NA
Fluorene	2.0		0.070	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.2		0.070	0.069	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	2.5		0.070	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	13		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	10		0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.32		0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.46		0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	1.5		0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	19000		100		mg/Kg	5	☼	6010D	Total/NA
Arsenic	8.6		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	220		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.4		2.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	140000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	850		5.2		mg/Kg	5	☼	6010D	Total/NA
Cobalt	11		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	190		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	110000	B	100		mg/Kg	5	☼	6010D	Total/NA
Lead	120		2.6		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB46 (0-3) (Continued) — Lab Sample ID: 500-256275-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	17000		52		mg/Kg	5	☼	6010D	Total/NA
Manganese	6600	B	5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	490		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	1700		52		mg/Kg	1	☼	6010D	Total/NA
Sodium	660		520		mg/Kg	5	☼	6010D	Total/NA
Thallium	9.6		5.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	47		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	99		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.071		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	13		2.5		mg/Kg	10	☼	9012B	Total/NA
pH	8.05		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB46 (3-5) — Lab Sample ID: 500-256275-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0043	J	0.0053	0.0023	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.032		0.021	0.0090	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.020		0.0053	0.00098	mg/Kg	1	☼	8260D	Total/NA
Ethylbenzene	0.0020	J	0.0021	0.0011	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00067	J	0.0021	0.00043	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.014		0.0043	0.00073	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.55		0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.028	J	0.070	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	1.7		0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.8		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	1.7		0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.9		0.070	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.86		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.5		0.070	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.9		0.070	0.018	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.23		0.070	0.070	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	6.1		0.070	0.016	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.79		0.070	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.96		0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.39		0.070	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	5.3		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	4.1		0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.18		0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.22	J	0.35	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.55		0.35	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	11000		93		mg/Kg	5	☼	6010D	Total/NA
Arsenic	14		0.93		mg/Kg	1	☼	6010D	Total/NA
Barium	140		0.93		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.0		1.9		mg/Kg	5	☼	6010D	Total/NA
Calcium	110000		93		mg/Kg	5	☼	6010D	Total/NA
Chromium	1300		19		mg/Kg	20	☼	6010D	Total/NA
Cobalt	17		2.3		mg/Kg	5	☼	6010D	Total/NA
Copper	240		4.7		mg/Kg	5	☼	6010D	Total/NA
Iron	190000	B	93		mg/Kg	5	☼	6010D	Total/NA
Lead	80		2.3		mg/Kg	5	☼	6010D	Total/NA
Magnesium	29000		47		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB46 (3-5) (Continued)
Lab Sample ID: 500-256275-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	10000	B	19		mg/Kg	20	☼	6010D	Total/NA
Nickel	580		4.7		mg/Kg	5	☼	6010D	Total/NA
Potassium	1100		47		mg/Kg	1	☼	6010D	Total/NA
Selenium	5.7		4.7		mg/Kg	5	☼	6010D	Total/NA
Sodium	480		470		mg/Kg	5	☼	6010D	Total/NA
Thallium	14		4.7		mg/Kg	5	☼	6010D	Total/NA
Vanadium	71		2.3		mg/Kg	5	☼	6010D	Total/NA
Zinc	65		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.21		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	6.4		1.2		mg/Kg	5	☼	9012B	Total/NA
pH	10.86		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB47 (0-3)
Lab Sample ID: 500-256275-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.015		0.0058	0.0026	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.081		0.023	0.0098	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0012	J	0.0058	0.0011	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.047		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.022	J	0.036	0.0061	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.13		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.51		0.036	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.53		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.64		0.036	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.40		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.48		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.73		0.036	0.0095	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.11		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.98		0.036	0.0084	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.047		0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.38		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.022	J	0.036	0.0065	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.58		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.87		0.036	0.0099	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.24		0.18	0.14	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.056	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	6800		95		mg/Kg	5	☼	6010D	Total/NA
Arsenic	6.5		0.95		mg/Kg	1	☼	6010D	Total/NA
Barium	66		0.95		mg/Kg	1	☼	6010D	Total/NA
Cadmium	3.1		0.95		mg/Kg	5	☼	6010D	Total/NA
Calcium	160000		95		mg/Kg	5	☼	6010D	Total/NA
Chromium	280		4.8		mg/Kg	5	☼	6010D	Total/NA
Cobalt	12		2.4		mg/Kg	5	☼	6010D	Total/NA
Copper	91		4.8		mg/Kg	5	☼	6010D	Total/NA
Iron	120000	B	95		mg/Kg	5	☼	6010D	Total/NA
Lead	300		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	52000		48		mg/Kg	5	☼	6010D	Total/NA
Manganese	12000	B	19		mg/Kg	20	☼	6010D	Total/NA
Nickel	51		4.8		mg/Kg	5	☼	6010D	Total/NA
Potassium	990		48		mg/Kg	1	☼	6010D	Total/NA
Thallium	56		19		mg/Kg	20	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB47 (0-3) (Continued)
Lab Sample ID: 500-256275-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	190		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	730		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.20		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.60		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	9.98		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB47 (7.5-10)
Lab Sample ID: 500-256275-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.030		0.0067	0.0030	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.14		0.027	0.011	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0030	J	0.0067	0.0012	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00072	J	0.0027	0.00054	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.17		0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.029	J	0.035	0.0060	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.59		0.035	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.84		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.83		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.79		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.55		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.70		0.035	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.98		0.035	0.0094	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.19		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	2.2		0.035	0.0083	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.21		0.035	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.57		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.15		0.035	0.0064	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	2.0		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Pyrene	1.7		0.035	0.0097	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.11	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.16	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	7400		100		mg/Kg	5	☼	6010D	Total/NA
Antimony	2.0		2.0		mg/Kg	1	☼	6010D	Total/NA
Arsenic	11		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	85		1.0		mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.3		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	140000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	100		5.0		mg/Kg	5	☼	6010D	Total/NA
Cobalt	12		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	100		5.0		mg/Kg	5	☼	6010D	Total/NA
Iron	130000	B	100		mg/Kg	5	☼	6010D	Total/NA
Lead	180		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	59000		50		mg/Kg	5	☼	6010D	Total/NA
Manganese	4400	B	5.0		mg/Kg	5	☼	6010D	Total/NA
Nickel	45		5.0		mg/Kg	5	☼	6010D	Total/NA
Potassium	1100		50		mg/Kg	1	☼	6010D	Total/NA
Thallium	8.4		5.0		mg/Kg	5	☼	6010D	Total/NA
Vanadium	44		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	330		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.13		0.017		mg/Kg	1	☼	7471B	Total/NA
pH	10.92		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB48 (0-3) — Lab Sample ID: 500-256275-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.0014	J	0.0026	0.00052	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0015	J	0.0052	0.00089	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.18		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.048	J	0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.50		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.5		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	1.5		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.7		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.78		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.3		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.6		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.25		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	3.4		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.18		0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.81		0.071	0.070	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.044	J	0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	2.0		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	2.8		0.071	0.020	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.19	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.10	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	39000		110		mg/Kg	5	☼	6010D	Total/NA
Arsenic	8.6		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	110		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.0		0.43		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.56		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	55000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	56		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.5		0.53		mg/Kg	1	☼	6010D	Total/NA
Copper	39		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	22000	B	21		mg/Kg	1	☼	6010D	Total/NA
Lead	120		0.53		mg/Kg	1	☼	6010D	Total/NA
Magnesium	120000		53		mg/Kg	5	☼	6010D	Total/NA
Manganese	750	B	1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	25		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1700		53		mg/Kg	1	☼	6010D	Total/NA
Sodium	1800		530		mg/Kg	5	☼	6010D	Total/NA
Thallium	1.1		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	27		0.53		mg/Kg	1	☼	6010D	Total/NA
Zinc	140		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.29		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.34		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	8.75		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB48 (5-7.5) — Lab Sample ID: 500-256275-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.022		0.0054	0.0024	mg/Kg	1	☼	8260D	Total/NA
2-Hexanone	0.0040	J	0.0054	0.0033	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.096		0.022	0.0091	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0018	J	0.0054	0.00099	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.0043		0.0022	0.0012	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB48 (5-7.5) (Continued)
Lab Sample ID: 500-256275-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00092	J	0.0022	0.00043	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.00093	J	0.0043	0.00074	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	5.9	F1 F2	0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Anthracene	11	F1 F2	0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	19	F2	0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	19	F2	0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	8.0	F1 F2	0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	16	F2	0.070	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	19	F2	0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	3.6	F2 F1	0.070	0.070	mg/Kg	2	☼	8270E	Total/NA
Fluorene	5.8	F1 F2	0.070	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	9.3	F1 F2	0.070	0.069	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	1.6	F2 F1	0.070	0.013	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	1.4	F2 F1	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	4.8	F1 F2	0.35	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	3.5	F1 F2	0.35	0.025	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene - DL	20		0.70	0.67	mg/Kg	20	☼	8270E	Total/NA
Fluoranthene - DL	41		0.70	0.16	mg/Kg	20	☼	8270E	Total/NA
Phenanthrene - DL	35		0.70	0.15	mg/Kg	20	☼	8270E	Total/NA
Pyrene - DL	34		0.70	0.19	mg/Kg	20	☼	8270E	Total/NA
PCB-1254	0.73		0.17		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.73		0.17		mg/Kg	10	☼	8082A	Total/NA
Aluminum	7200		100		mg/Kg	5	☼	6010D	Total/NA
Arsenic	8.0		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	89		1.0		mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.9		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	110000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	200		5.1		mg/Kg	5	☼	6010D	Total/NA
Cobalt	6.0		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	130		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	69000	B	100		mg/Kg	5	☼	6010D	Total/NA
Lead	210		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	38000		51		mg/Kg	5	☼	6010D	Total/NA
Manganese	3700	B	5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	59		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	830		51		mg/Kg	1	☼	6010D	Total/NA
Sodium	620		510		mg/Kg	5	☼	6010D	Total/NA
Thallium	6.6		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	50		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	1000		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.099		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.4		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	10.79		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB49 (0-3)
Lab Sample ID: 500-256275-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021	J	0.022	0.0090	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.031	J	0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.16		0.036	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.19		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB49 (0-3) (Continued) — Lab Sample ID: 500-256275-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.18		0.036	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.16		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.20		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.17		0.036	0.0095	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.29		0.036	0.0084	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.18		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.017	J	0.036	0.0065	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.27		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.23		0.036	0.0099	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.015	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	15000		100		mg/Kg	5	☼	6010D	Total/NA
Arsenic	7.1		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	180		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.9		0.42		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.61		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	100000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	32		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.4		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	19		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	43000	B	21		mg/Kg	1	☼	6010D	Total/NA
Lead	51		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	19000		52		mg/Kg	5	☼	6010D	Total/NA
Manganese	4500	B	5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	100		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1400		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.8		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	830		520		mg/Kg	5	☼	6010D	Total/NA
Thallium	7.6		5.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	36		0.52		mg/Kg	1	☼	6010D	Total/NA
Zinc	48		2.1		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	27		2.4		mg/Kg	10	☼	9012B	Total/NA
Sulfide	1600		33		mg/Kg	1	☼	9034	Total/NA
pH	11.48		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB49 (10-12.5) — Lab Sample ID: 500-256275-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0058	J	0.0062	0.0011	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.011	J	0.042	0.0087	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.048		0.042	0.0090	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.043		0.042	0.040	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.034	J	0.042	0.0092	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.044		0.042	0.016	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.056		0.042	0.011	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.088		0.042	0.0099	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.014	J	0.042	0.0077	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.13		0.042	0.0093	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.074		0.042	0.012	mg/Kg	1	☼	8270E	Total/NA
Aluminum	24000		120		mg/Kg	5	☼	6010D	Total/NA
Arsenic	7.3		1.2		mg/Kg	1	☼	6010D	Total/NA
Barium	310		1.2		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB49 (10-12.5) (Continued) — Lab Sample ID: 500-256275-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	3.3		0.46		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.32		0.23		mg/Kg	1	☼	6010D	Total/NA
Calcium	170000		120		mg/Kg	5	☼	6010D	Total/NA
Chromium	100		1.2		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.4		2.9		mg/Kg	5	☼	6010D	Total/NA
Copper	12		1.2		mg/Kg	1	☼	6010D	Total/NA
Iron	36000	B	23		mg/Kg	1	☼	6010D	Total/NA
Lead	44		2.9		mg/Kg	5	☼	6010D	Total/NA
Magnesium	31000		58		mg/Kg	5	☼	6010D	Total/NA
Manganese	15000	B	23		mg/Kg	20	☼	6010D	Total/NA
Nickel	19		1.2		mg/Kg	1	☼	6010D	Total/NA
Potassium	1600		58		mg/Kg	1	☼	6010D	Total/NA
Selenium	5.2		1.2		mg/Kg	1	☼	6010D	Total/NA
Sodium	810		580		mg/Kg	5	☼	6010D	Total/NA
Thallium	18		5.8		mg/Kg	5	☼	6010D	Total/NA
Vanadium	110		0.58		mg/Kg	1	☼	6010D	Total/NA
Zinc	98		2.3		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	1.4		0.30		mg/Kg	1	☼	9012B	Total/NA
pH	8.15		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB50 (0-3) — Lab Sample ID: 500-256275-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0016	J	0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.011	J	0.033	0.0068	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.016	J	0.033	0.0057	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.034		0.033	0.0069	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.36		0.033	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.31		0.033	0.032	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.88		0.033	0.032	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.38		0.033	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.40		0.033	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.72		0.033	0.0089	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.16		0.033	0.033	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.55		0.033	0.0078	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.013	J	0.033	0.0099	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.38		0.033	0.033	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.058		0.033	0.0061	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.48		0.033	0.0073	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.46		0.033	0.0092	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.14		0.068	0.0067	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.028	J	0.17	0.013	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.038	J	0.17	0.012	mg/Kg	1	☼	8270E	Total/NA
Aluminum	16000		98		mg/Kg	5	☼	6010D	Total/NA
Arsenic	11		0.98		mg/Kg	1	☼	6010D	Total/NA
Barium	170		0.98		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.2		2.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	140000		98		mg/Kg	5	☼	6010D	Total/NA
Chromium	140		4.9		mg/Kg	5	☼	6010D	Total/NA
Cobalt	6.9		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	42		4.9		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB50 (0-3) (Continued) — Lab Sample ID: 500-256275-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	110000	B	98		mg/Kg	5	☼	6010D	Total/NA
Lead	55		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	27000		49		mg/Kg	5	☼	6010D	Total/NA
Manganese	13000	B	20		mg/Kg	20	☼	6010D	Total/NA
Nickel	17		4.9		mg/Kg	5	☼	6010D	Total/NA
Potassium	1400		49		mg/Kg	1	☼	6010D	Total/NA
Selenium	4.9		4.9		mg/Kg	5	☼	6010D	Total/NA
Sodium	590		490		mg/Kg	5	☼	6010D	Total/NA
Thallium	16		4.9		mg/Kg	5	☼	6010D	Total/NA
Vanadium	120		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	160		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.063		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	18		2.2		mg/Kg	10	☼	9012B	Total/NA
pH	8.67		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB50 (7.5-10) — Lab Sample ID: 500-256275-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.034		0.0069	0.0013	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.029	J	0.073	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.26		0.073	0.013	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.48		0.073	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	2.0		0.073	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	2.1		0.073	0.071	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	2.3		0.073	0.070	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.6		0.073	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	2.4		0.073	0.028	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.9		0.073	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.40		0.073	0.073	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	4.4		0.073	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.17		0.073	0.022	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.9		0.073	0.072	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.081		0.073	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	1.6		0.073	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	3.3		0.073	0.020	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.14	J	0.37	0.029	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.092	J	0.37	0.026	mg/Kg	2	☼	8270E	Total/NA
Aluminum	18000		99		mg/Kg	5	☼	6010D	Total/NA
Antimony	47		2.0		mg/Kg	1	☼	6010D	Total/NA
Arsenic	11		0.99		mg/Kg	1	☼	6010D	Total/NA
Barium	160		0.99		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.8		2.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	100000		99		mg/Kg	5	☼	6010D	Total/NA
Chromium	120		5.0		mg/Kg	5	☼	6010D	Total/NA
Cobalt	12		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	170		5.0		mg/Kg	5	☼	6010D	Total/NA
Iron	86000	B	99		mg/Kg	5	☼	6010D	Total/NA
Lead	330		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	32000		50		mg/Kg	5	☼	6010D	Total/NA
Manganese	8600	B	5.0		mg/Kg	5	☼	6010D	Total/NA
Nickel	28		5.0		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB50 (7.5-10) (Continued)
Lab Sample ID: 500-256275-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1100		50		mg/Kg	1	☼	6010D	Total/NA
Sodium	1300		500		mg/Kg	5	☼	6010D	Total/NA
Thallium	12		5.0		mg/Kg	5	☼	6010D	Total/NA
Vanadium	120		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	240		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.062		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.7		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	7.81		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB51 (0-3)
Lab Sample ID: 500-256275-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.027		0.026	0.018	mg/Kg	50	☼	8260D	Total/NA
Toluene	0.027		0.026	0.022	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.077		0.053	0.025	mg/Kg	50	☼	8260D	Total/NA
Acenaphthene	0.098		0.039	0.0079	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.034	J	0.039	0.0066	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.11		0.039	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.33		0.039	0.0083	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.42		0.039	0.038	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.41		0.039	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.35		0.039	0.0084	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.36		0.039	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.43		0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.083		0.039	0.039	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.84		0.039	0.0091	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.061		0.039	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.33		0.039	0.038	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.26		0.039	0.0070	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	1.1		0.039	0.0085	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.65		0.039	0.011	mg/Kg	1	☼	8270E	Total/NA
1,2,4-Trichlorobenzene	0.70		0.20	0.028	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.71		0.079	0.0078	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.040	J	0.20	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.17	J	0.20	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	8900		100		mg/Kg	5	☼	6010D	Total/NA
Antimony	110		10		mg/Kg	5	☼	6010D	Total/NA
Arsenic	59		5.1		mg/Kg	5	☼	6010D	Total/NA
Barium	150		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.8		2.0		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.3		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	36000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	21000		20		mg/Kg	20	☼	6010D	Total/NA
Cobalt	100		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	260		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	230000	B	100		mg/Kg	5	☼	6010D	Total/NA
Lead	260		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	6000		51		mg/Kg	5	☼	6010D	Total/NA
Manganese	4700	B	5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	6200		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	680		250		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB51 (0-3) (Continued)
Lab Sample ID: 500-256275-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	5.5		5.1		mg/Kg	5	☼	6010D	Total/NA
Thallium	14		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	74		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	330		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.028		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.39		0.26		mg/Kg	1	☼	9012B	Total/NA
Sulfide	300		36		mg/Kg	1	☼	9034	Total/NA
pH	7.69		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB51 (5-7.5)
Lab Sample ID: 500-256275-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.013	J	0.037	0.0063	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.014	J	0.037	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.085		0.037	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.077		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.16		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.10		0.037	0.0081	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.080		0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.16		0.037	0.0099	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.17		0.037	0.0087	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.093		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.020	J	0.037	0.0068	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.22		0.037	0.0081	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.11		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
Aluminum	16000		110		mg/Kg	5	☼	6010D	Total/NA
Antimony	2.7		2.1		mg/Kg	1	☼	6010D	Total/NA
Arsenic	21		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	170		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.6		2.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	3.1		1.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	38000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	85		5.4		mg/Kg	5	☼	6010D	Total/NA
Cobalt	14		2.7		mg/Kg	5	☼	6010D	Total/NA
Copper	33		5.4		mg/Kg	5	☼	6010D	Total/NA
Iron	230000	B	110		mg/Kg	5	☼	6010D	Total/NA
Lead	250		2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	5400		54		mg/Kg	5	☼	6010D	Total/NA
Manganese	8000	B	5.4		mg/Kg	5	☼	6010D	Total/NA
Nickel	180		5.4		mg/Kg	5	☼	6010D	Total/NA
Potassium	2800		270		mg/Kg	5	☼	6010D	Total/NA
Sodium	660		540		mg/Kg	5	☼	6010D	Total/NA
Thallium	18		5.4		mg/Kg	5	☼	6010D	Total/NA
Vanadium	59		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	500		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.16		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	14		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	7.99		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB52 (0-3)
Lab Sample ID: 500-256275-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0027	J	0.0066	0.0012	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.10		0.078	0.016	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.091		0.078	0.013	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.59		0.078	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	2.1		0.078	0.017	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	2.2		0.078	0.076	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	2.0		0.078	0.075	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.4		0.078	0.017	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.8		0.078	0.030	mg/Kg	2	☼	8270E	Total/NA
Chrysene	2.2		0.078	0.021	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.40		0.078	0.078	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	4.3		0.078	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.099		0.078	0.023	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.5		0.078	0.077	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.089		0.078	0.014	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	1.7		0.078	0.017	mg/Kg	2	☼	8270E	Total/NA
Pyrene	3.9		0.078	0.021	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.080	J	0.16	0.016	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.089	J	0.40	0.031	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.13	J	0.40	0.028	mg/Kg	2	☼	8270E	Total/NA
PCB-1254	0.19		0.19		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.19		0.19		mg/Kg	10	☼	8082A	Total/NA
Aluminum	16000		110		mg/Kg	5	☼	6010D	Total/NA
Antimony	3.7		2.3		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.6		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	190		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.2		2.3		mg/Kg	5	☼	6010D	Total/NA
Calcium	150000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	82		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.1		2.8		mg/Kg	5	☼	6010D	Total/NA
Copper	100		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	30000	B	110		mg/Kg	5	☼	6010D	Total/NA
Lead	100		2.8		mg/Kg	5	☼	6010D	Total/NA
Magnesium	42000		57		mg/Kg	5	☼	6010D	Total/NA
Manganese	2200	B	1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	39		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1200		280		mg/Kg	5	☼	6010D	Total/NA
Selenium	2.1		1.1		mg/Kg	1	☼	6010D	Total/NA
Thallium	5.7		5.7		mg/Kg	5	☼	6010D	Total/NA
Vanadium	20		0.57		mg/Kg	1	☼	6010D	Total/NA
Zinc	76		2.3		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.18		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.6		0.28		mg/Kg	1	☼	9012B	Total/NA
pH	11.23		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB52 (7.5-10)
Lab Sample ID: 500-256275-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.17		0.077	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.53		0.077	0.017	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.50		0.077	0.075	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB52 (7.5-10) (Continued) — Lab Sample ID: 500-256275-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.66		0.077	0.074	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.31		0.077	0.017	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.46		0.077	0.030	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.77		0.077	0.021	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.12		0.077	0.077	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.91		0.077	0.018	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.32		0.077	0.076	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.32		0.077	0.014	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	3.0		0.077	0.017	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.75		0.077	0.021	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.88		0.16	0.016	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.095	J	0.39	0.031	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.17	J	0.39	0.028	mg/Kg	2	☼	8270E	Total/NA
Aluminum	15000		100		mg/Kg	5	☼	6010D	Total/NA
Arsenic	33		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	200		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.6		2.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	11000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	19		5.2		mg/Kg	5	☼	6010D	Total/NA
Cobalt	16		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	200		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	92000	B	100		mg/Kg	5	☼	6010D	Total/NA
Lead	48		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	1600		52		mg/Kg	5	☼	6010D	Total/NA
Manganese	680	B	1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	62		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	1100		260		mg/Kg	5	☼	6010D	Total/NA
Sodium	1000		520		mg/Kg	5	☼	6010D	Total/NA
Vanadium	34		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	330		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.21		0.019		mg/Kg	1	☼	7471B	Total/NA
pH	6.68		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB53 (0-3) — Lab Sample ID: 500-256275-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.067		0.040	0.019	mg/Kg	50	☼	8260D	Total/NA
Anthracene	0.12		0.075	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.33		0.075	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.28		0.075	0.072	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.37		0.075	0.072	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.17		0.075	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.24		0.075	0.029	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.46		0.075	0.020	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.65		0.075	0.017	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.16		0.075	0.073	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.13		0.075	0.014	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	1.8		0.075	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.56		0.075	0.021	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.22		0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.054	J	0.38	0.030	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB53 (0-3) (Continued)
Lab Sample ID: 500-256275-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	0.079	J	0.38	0.027	mg/Kg	2	☼	8270E	Total/NA
PCB-1254	0.21		0.019		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.21		0.019		mg/Kg	1	☼	8082A	Total/NA
Aluminum	12000		110		mg/Kg	5	☼	6010D	Total/NA
Arsenic	6.0		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	140		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.6		2.2		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.5		1.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	110000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	1100		5.6		mg/Kg	5	☼	6010D	Total/NA
Cobalt	9.0		2.8		mg/Kg	5	☼	6010D	Total/NA
Copper	78		5.6		mg/Kg	5	☼	6010D	Total/NA
Iron	110000	B	110		mg/Kg	5	☼	6010D	Total/NA
Lead	89		2.8		mg/Kg	5	☼	6010D	Total/NA
Magnesium	37000		56		mg/Kg	5	☼	6010D	Total/NA
Manganese	16000	B	22		mg/Kg	20	☼	6010D	Total/NA
Nickel	160		5.6		mg/Kg	5	☼	6010D	Total/NA
Potassium	610		280		mg/Kg	5	☼	6010D	Total/NA
Selenium	6.0		5.6		mg/Kg	5	☼	6010D	Total/NA
Thallium	22		5.6		mg/Kg	5	☼	6010D	Total/NA
Vanadium	170		2.8		mg/Kg	5	☼	6010D	Total/NA
Zinc	720		2.2		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.12		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	4.4		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.39		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB53 (10-12.5)
Lab Sample ID: 500-256275-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0015	J	0.0057	0.0011	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.019	J	0.038	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.059		0.038	0.0081	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.062		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.095		0.038	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.063		0.038	0.0083	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.053		0.038	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.10		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.075		0.038	0.0089	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.060		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.014	J	0.038	0.0069	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.25		0.038	0.0083	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.083		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Aluminum	8200		100		mg/Kg	5	☼	6010D	Total/NA
Arsenic	5.5		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	54		1.0		mg/Kg	1	☼	6010D	Total/NA
Calcium	7900		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	13		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.4		0.50		mg/Kg	1	☼	6010D	Total/NA
Copper	14		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	26000	B	100		mg/Kg	5	☼	6010D	Total/NA
Lead	12		0.50		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB53 (10-12.5) (Continued) — Lab Sample ID: 500-256275-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	5100		50		mg/Kg	5	☼	6010D	Total/NA
Manganese	920	B	1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	9.5		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1100		250		mg/Kg	5	☼	6010D	Total/NA
Thallium	1.2		1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	23		0.50		mg/Kg	1	☼	6010D	Total/NA
Zinc	41		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	3.0		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	8.59		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB54 (0-3) — Lab Sample ID: 500-256275-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.13		0.019	0.0095	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.028	J	0.039	0.018	mg/Kg	50	☼	8260D	Total/NA
Acenaphthene	0.017	J	0.076	0.016	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.079		0.076	0.013	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.12		0.076	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.6		0.076	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	1.8		0.076	0.074	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	2.7		0.076	0.073	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.91		0.076	0.017	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.95		0.076	0.029	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.9		0.076	0.020	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.28		0.076	0.076	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	2.3		0.076	0.018	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.95		0.076	0.074	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.061	J	0.076	0.014	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.30		0.076	0.017	mg/Kg	2	☼	8270E	Total/NA
Pyrene	2.0		0.076	0.021	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.033	J	0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.035	J	0.38	0.030	mg/Kg	2	☼	8270E	Total/NA
Aluminum	12000		110		mg/Kg	5	☼	6010D	Total/NA
Arsenic	15		5.3		mg/Kg	5	☼	6010D	Total/NA
Barium	160		1.1		mg/Kg	1	☼	6010D	Total/NA
Calcium	90000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	430		5.3		mg/Kg	5	☼	6010D	Total/NA
Cobalt	8.6		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	57		5.3		mg/Kg	5	☼	6010D	Total/NA
Iron	130000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	120		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	14000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	17000		5.3		mg/Kg	5	☼	6010D	Total/NA
Nickel	51		5.3		mg/Kg	5	☼	6010D	Total/NA
Potassium	910		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	6.8		5.3		mg/Kg	5	☼	6010D	Total/NA
Thallium	27		5.3		mg/Kg	5	☼	6010D	Total/NA
Vanadium	170		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	170		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.17		0.019		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	14		1.4		mg/Kg	5	☼	9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB54 (0-3) (Continued) — Lab Sample ID: 500-256275-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.00		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB54 (10-12.5) — Lab Sample ID: 500-256275-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.020		0.020	0.017	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.024	J	0.039	0.019	mg/Kg	50	☼	8260D	Total/NA
Acenaphthylene	0.041	J	0.083	0.014	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.041	J	0.083	0.017	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.17		0.083	0.018	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.15		0.083	0.081	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.32		0.083	0.080	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.35		0.083	0.018	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.11		0.083	0.032	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.27		0.083	0.022	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.25		0.083	0.019	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.17		0.083	0.081	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.15		0.083	0.015	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.20		0.083	0.018	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.22		0.083	0.023	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.034	J	0.17	0.017	mg/Kg	2	☼	8270E	Total/NA
Aluminum	15000		120		mg/Kg	5	☼	6010D	Total/NA
Arsenic	17		6.0		mg/Kg	5	☼	6010D	Total/NA
Barium	210		1.2		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.3		2.4		mg/Kg	5	☼	6010D	Total/NA
Calcium	47000		120		mg/Kg	5	☼	6010D	Total/NA
Chromium	26		1.2		mg/Kg	1	☼	6010D	Total/NA
Cobalt	9.3		3.0		mg/Kg	5	☼	6010D	Total/NA
Copper	37		6.0		mg/Kg	5	☼	6010D	Total/NA
Iron	220000		120		mg/Kg	5	☼	6010D	Total/NA
Lead	99		3.0		mg/Kg	5	☼	6010D	Total/NA
Magnesium	2800		12		mg/Kg	1	☼	6010D	Total/NA
Manganese	8800		6.0		mg/Kg	5	☼	6010D	Total/NA
Nickel	16		6.0		mg/Kg	5	☼	6010D	Total/NA
Potassium	1200		60		mg/Kg	1	☼	6010D	Total/NA
Thallium	16		6.0		mg/Kg	5	☼	6010D	Total/NA
Vanadium	39		3.0		mg/Kg	5	☼	6010D	Total/NA
Zinc	170		2.4		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.080		0.020		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	15		1.4		mg/Kg	5	☼	9012B	Total/NA
pH	7.89		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB55 (0-3) — Lab Sample ID: 500-256275-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.018		0.0048	0.0021	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.040		0.019	0.0081	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0021	J	0.0048	0.00089	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.023	J	0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.041	J	0.070	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.076		0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.37		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB55 (0-3) (Continued)
Lab Sample ID: 500-256275-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.50		0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.71		0.070	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.41		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.27		0.070	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.44		0.070	0.018	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.092		0.070	0.070	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.67		0.070	0.016	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.39		0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.023	J	0.070	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.26		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.56		0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.028	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.035	J	0.35	0.028	mg/Kg	2	☼	8270E	Total/NA
4,4'-DDE	1.2		0.18	0.092	mg/Kg	100	☼	8081B	Total/NA
4,4'-DDT	3.3		0.18	0.085	mg/Kg	100	☼	8081B	Total/NA
Dieldrin	0.51		0.18	0.094	mg/Kg	100	☼	8081B	Total/NA
Endosulfan II	0.64		0.18	0.098	mg/Kg	100	☼	8081B	Total/NA
Endrin	0.14	J	0.18	0.092	mg/Kg	100	☼	8081B	Total/NA
Endrin aldehyde	0.14	J	0.18	0.10	mg/Kg	100	☼	8081B	Total/NA
Heptachlor epoxide	1.1		0.18	0.097	mg/Kg	100	☼	8081B	Total/NA
PCB-1254	47		8.9		mg/Kg	500	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	47		8.9		mg/Kg	500	☼	8082A	Total/NA
Aluminum	7800		97		mg/Kg	5	☼	6010D	Total/NA
Arsenic	5.8		4.9		mg/Kg	5	☼	6010D	Total/NA
Barium	59		0.97		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.99		0.97		mg/Kg	5	☼	6010D	Total/NA
Calcium	120000		97		mg/Kg	5	☼	6010D	Total/NA
Chromium	420		4.9		mg/Kg	5	☼	6010D	Total/NA
Cobalt	10		2.4		mg/Kg	5	☼	6010D	Total/NA
Copper	62		4.9		mg/Kg	5	☼	6010D	Total/NA
Iron	99000		97		mg/Kg	5	☼	6010D	Total/NA
Lead	57		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	24000		9.7		mg/Kg	1	☼	6010D	Total/NA
Manganese	9600		4.9		mg/Kg	5	☼	6010D	Total/NA
Nickel	870		4.9		mg/Kg	5	☼	6010D	Total/NA
Potassium	380		49		mg/Kg	1	☼	6010D	Total/NA
Thallium	15		4.9		mg/Kg	5	☼	6010D	Total/NA
Vanadium	250		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	86		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.096		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.5		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	11.97		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB55 (5-7.5)
Lab Sample ID: 500-256275-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.025	J	0.077	0.013	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.026	J	0.077	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.19		0.077	0.017	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.17		0.077	0.075	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.41		0.077	0.074	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB55 (5-7.5) (Continued)
Lab Sample ID: 500-256275-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.26		0.077	0.017	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.13		0.077	0.030	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.29		0.077	0.021	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.21		0.077	0.018	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.21		0.077	0.076	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.063	J	0.077	0.014	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.12		0.077	0.017	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.18		0.077	0.021	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.034	J	0.16	0.016	mg/Kg	2	☼	8270E	Total/NA
Diethyl phthalate	0.044	J B	0.39	0.036	mg/Kg	2	☼	8270E	Total/NA
Aluminum	15000		110		mg/Kg	5	☼	6010D	Total/NA
Arsenic	15		5.6		mg/Kg	5	☼	6010D	Total/NA
Barium	200		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.1		2.2		mg/Kg	5	☼	6010D	Total/NA
Calcium	64000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	31		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	8.9		2.8		mg/Kg	5	☼	6010D	Total/NA
Copper	34		5.6		mg/Kg	5	☼	6010D	Total/NA
Iron	190000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	66		2.8		mg/Kg	5	☼	6010D	Total/NA
Magnesium	7800		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	7000		5.6		mg/Kg	5	☼	6010D	Total/NA
Nickel	190		5.6		mg/Kg	5	☼	6010D	Total/NA
Potassium	1300		56		mg/Kg	1	☼	6010D	Total/NA
Thallium	13		5.6		mg/Kg	5	☼	6010D	Total/NA
Vanadium	34		2.8		mg/Kg	5	☼	6010D	Total/NA
Zinc	120		2.2		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.12		0.019		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	13		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	7.62		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256275-1	SB44 (0-3)	Solid	09/05/24 09:43	09/06/24 12:35
500-256275-2	SB44 (5-7.5)	Solid	09/05/24 09:52	09/06/24 12:35
500-256275-3	SB45 (0-3)	Solid	09/05/24 10:15	09/06/24 12:35
500-256275-4	SB45 (5-7.5)	Solid	09/05/24 10:36	09/06/24 12:35
500-256275-5	SB46 (0-3)	Solid	09/05/24 10:52	09/06/24 12:35
500-256275-6	SB46 (3-5)	Solid	09/05/24 11:07	09/06/24 12:35
500-256275-7	SB47 (0-3)	Solid	09/05/24 11:17	09/06/24 12:35
500-256275-8	SB47 (7.5-10)	Solid	09/05/24 11:26	09/06/24 12:35
500-256275-9	SB48 (0-3)	Solid	09/05/24 11:47	09/06/24 12:35
500-256275-10	SB48 (5-7.5)	Solid	09/05/24 11:52	09/06/24 12:35
500-256275-11	SB49 (0-3)	Solid	09/05/24 12:43	09/06/24 12:35
500-256275-12	SB49 (10-12.5)	Solid	09/05/24 13:07	09/06/24 12:35
500-256275-13	SB50 (0-3)	Solid	09/05/24 13:47	09/06/24 12:35
500-256275-14	SB50 (7.5-10)	Solid	09/05/24 13:58	09/06/24 12:35
500-256275-15	SB51 (0-3)	Solid	09/05/24 10:00	09/06/24 12:35
500-256275-16	SB51 (5-7.5)	Solid	09/05/24 10:30	09/06/24 12:35
500-256275-17	SB52 (0-3)	Solid	09/05/24 11:20	09/06/24 12:35
500-256275-18	SB52 (7.5-10)	Solid	09/05/24 11:30	09/06/24 12:35
500-256275-19	SB53 (0-3)	Solid	09/05/24 13:00	09/06/24 12:35
500-256275-20	SB53 (10-12.5)	Solid	09/05/24 13:30	09/06/24 12:35
500-256275-21	SB54 (0-3)	Solid	09/05/24 14:00	09/06/24 12:35
500-256275-22	SB54 (10-12.5)	Solid	09/05/24 14:30	09/06/24 12:35
500-256275-23	SB55 (0-3)	Solid	09/05/24 15:00	09/06/24 12:35
500-256275-24	SB55 (5-7.5)	Solid	09/05/24 15:30	09/06/24 12:35

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB44 (0-3)
Lab Sample ID: 500-256275-1
Date Collected: 09/05/24 09:43
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 91.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0028	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
1,1,2-Trichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
1,1-Dichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
1,1-Dichloroethene	<0.0012		0.0028	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
1,2-Dichloroethane	<0.0018		0.0070	0.0018	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
1,2-Dichloropropane	<0.00072		0.0028	0.00072	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
2-Butanone (MEK)	<0.0031		0.0070	0.0031	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
2-Hexanone	<0.0043		0.0070	0.0043	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0070	0.0050	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Acetone	**0.020**	**J**	0.028	0.012	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Benzene	<0.00088		0.0028	0.00088	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Bromodichloromethane	<0.00090		0.0028	0.00090	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Bromoform	<0.0016		0.0028	0.0016	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Bromomethane	<0.0035		0.0070	0.0035	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Carbon disulfide	**0.0040**	**J**	0.0070	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Carbon tetrachloride	<0.00096		0.0028	0.00096	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Chlorobenzene	<0.0012		0.0028	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Chloroethane	<0.0023		0.0070	0.0023	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Chloroform	<0.0020		0.0028	0.0020	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Chloromethane	<0.0014		0.0070	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
cis-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
1,3-Dichloropropene, Total	<0.0013		0.0028	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Dibromochloromethane	<0.0013		0.0028	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Ethylbenzene	<0.0015		0.0028	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Methyl tert-butyl ether	<0.00091		0.0028	0.00091	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Methylene Chloride	<0.0030		0.0070	0.0030	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Styrene	<0.0013		0.0028	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Tetrachloroethene	<0.0016		0.0028	0.0016	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Toluene	<0.00056		0.0028	0.00056	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Xylenes, Total	<0.00096		0.0056	0.00096	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
trans-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Trichloroethene	<0.00076		0.0028	0.00076	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1
Vinyl chloride	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*09/06/24 18:47*	*09/12/24 13:43*	*1*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*75 - 131*	*09/06/24 18:47*	*09/12/24 13:43*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*09/06/24 18:47*	*09/12/24 13:43*	*1*
Toluene-d8 (Surr)	*140*	*S1+*	*75 - 124*	*09/06/24 18:47*	*09/12/24 13:43*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.019**	**J**	0.035	0.0071	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Acenaphthylene	<0.0059		0.035	0.0059	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Anthracene	**0.019**	**J**	0.035	0.0071	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Benzo[a]anthracene	**0.060**		0.035	0.0074	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Benzo[a]pyrene	**0.043**		0.035	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Benzo[b]fluoranthene	**0.074**		0.035	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Benzo[g,h,i]perylene	**0.040**		0.035	0.0076	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB44 (0-3)
Lab Sample ID: 500-256275-1
Date Collected: 09/05/24 09:43
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 91.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.047**		0.035	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Chrysene	**0.10**		0.035	0.0092	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Fluoranthene	**0.13**		0.035	0.0081	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Indeno[1,2,3-cd]pyrene	<0.034		0.035	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Naphthalene	**0.28**		0.035	0.0063	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Phenanthrene	**0.52**		0.035	0.0076	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Pyrene	**0.11**		0.035	0.0095	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2,4-Dimethylphenol	<0.078		0.35	0.078	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2,4-Dinitrophenol	<0.20		0.71	0.20	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2-Methylnaphthalene	**0.50**		0.071	0.0070	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2-Methylphenol	<0.018		0.18	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
4,6-Dinitro-2-methylphenol	<0.20		0.71	0.20	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
4-Chloroaniline	<0.37		0.71	0.37	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
4-Nitrophenol	<0.13		0.71	0.13	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Butyl benzyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Dibenzofuran	**0.091**	**J**	0.18	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Dimethyl phthalate	<0.0076		0.18	0.0076	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Di-n-octyl phthalate	<0.24		0.35	0.24	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Hexachlorobenzene	<0.0067		0.071	0.0067	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB44 (0-3)
Lab Sample ID: 500-256275-1
Date Collected: 09/05/24 09:43
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 91.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.71	0.37	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Hexachloroethane	<0.017		0.18	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
N-Nitrosodi-n-propylamine	<0.0069		0.071	0.0069	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Pentachlorophenol	<0.087		0.71	0.087	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1
Phenol	**1.0**		0.18	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*38*		*31 - 166*	*09/18/24 09:50*	*09/19/24 14:36*	*1*
Phenol-d5 (Surr)	*41*		*30 - 153*	*09/18/24 09:50*	*09/19/24 14:36*	*1*
Nitrobenzene-d5 (Surr)	*47*		*37 - 147*	*09/18/24 09:50*	*09/19/24 14:36*	*1*
2-Fluorobiphenyl (Surr)	*54*		*43 - 145*	*09/18/24 09:50*	*09/19/24 14:36*	*1*
2,4,6-Tribromophenol (Surr)	*37*		*31 - 143*	*09/18/24 09:50*	*09/19/24 14:36*	*1*
Terphenyl-d14 (Surr)	*55*		*42 - 157*	*09/18/24 09:50*	*09/19/24 14:36*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
alpha-BHC	<0.0098		0.017	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
alpha-Chlordane	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
delta-BHC	<0.0083		0.017	0.0083	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Dieldrin	<0.0091		0.017	0.0091	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Endosulfan I	<0.0094		0.017	0.0094	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Endosulfan II	<0.0095		0.017	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Endosulfan sulfate	<0.0096		0.017	0.0096	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Endrin	<0.0089		0.017	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Endrin aldehyde	<0.0099		0.017	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
gamma-Chlordane	<0.010		0.017	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Heptachlor	<0.0094		0.017	0.0094	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/17/24 07:08	09/24/24 14:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*151*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 14:19*	*10*
Tetrachloro-m-xylene	*62*		*30 - 121*	*09/17/24 07:08*	*09/24/24 14:19*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 13:58	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 13:58	10

Client Sample ID: SB44 (0-3)
Lab Sample ID: 500-256275-1

Date Collected: 09/05/24 09:43
Matrix: Solid

Date Received: 09/06/24 12:35
Percent Solids: 91.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 13:58	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 13:58	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 13:58	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 13:58	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 13:58	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 13:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*49 - 129*	*09/17/24 07:08*	*09/24/24 13:58*	*10*
DCB Decachlorobiphenyl	*91*		*37 - 121*	*09/17/24 07:08*	*09/24/24 13:58*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		20		mg/Kg	☼	09/19/24 09:42	09/19/24 22:22	1
Antimony	<2.0	F1	2.0		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Arsenic	**15**	**F1 F2**	1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:22	1
Barium	**130**	**F1**	1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:22	1
Beryllium	**0.68**	**F1**	0.41		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Cadmium	<0.20		0.20		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Calcium	**40000**		20		mg/Kg	☼	09/19/24 09:42	09/19/24 22:22	1
Chromium	**60**	**F1**	1.0		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Cobalt	**2.4**	**F1**	0.51		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Copper	**14**	**F1**	1.0		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Iron	**33000**	**B**	20		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Lead	**15**	**F2 F1**	0.51		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Magnesium	**1600**	**F2 F1**	10		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Manganese	**1100**	**B F2**	1.0		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Nickel	**71**	**F1**	1.0		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Potassium	**780**	**F1**	51		mg/Kg	☼	09/19/24 09:42	09/19/24 22:22	1
Selenium	<1.0	F1	1.0		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Silver	<0.51	F1	0.51		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Sodium	**610**		100		mg/Kg	☼	09/19/24 09:42	09/19/24 22:22	1
Thallium	**1.7**	**F1**	1.0		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Vanadium	**15**	**F1**	0.51		mg/Kg	☼	09/19/24 09:42	09/23/24 14:15	1
Zinc	**100**	**F1 F2**	2.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.016		mg/Kg	☼	09/20/24 17:35	09/23/24 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**8.5**		1.3		mg/Kg	☼	09/10/24 11:02	09/11/24 11:53	5
pH (SW846 9045D)	**7.95**		0.20		SU			09/11/24 13:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB44 (5-7.5)
Lab Sample ID: 500-256275-2
Date Collected: 09/05/24 09:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 86.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0025	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
1,1,2-Trichloroethane	<0.00095		0.0025	0.00095	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
1,1-Dichloroethane	<0.00095		0.0025	0.00095	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
1,2-Dichloroethane	<0.0016		0.0063	0.0016	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
1,2-Dichloropropane	<0.00065		0.0025	0.00065	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
2-Butanone (MEK)	<0.0028		0.0063	0.0028	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
2-Hexanone	<0.0038		0.0063	0.0038	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0063	0.0045	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Acetone	<0.011		0.025	0.011	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Benzene	<0.00080		0.0025	0.00080	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Bromodichloromethane	<0.00081		0.0025	0.00081	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Bromoform	<0.0015		0.0025	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Bromomethane	<0.0031		0.0063	0.0031	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Carbon disulfide	**0.0024**	**J**	0.0063	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Carbon tetrachloride	<0.00086		0.0025	0.00086	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Chlorobenzene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Chloroethane	<0.0021		0.0063	0.0021	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Chloromethane	<0.0012		0.0063	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
cis-1,2-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Dibromochloromethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Methyl tert-butyl ether	<0.00082		0.0025	0.00082	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Methylene Chloride	<0.0027		0.0063	0.0027	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Styrene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Toluene	<0.00051		0.0025	0.00051	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Xylenes, Total	<0.00087		0.0051	0.00087	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
trans-1,2-Dichloroethene	<0.00096		0.0025	0.00096	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Trichloroethene	<0.00069		0.0025	0.00069	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*09/06/24 18:47*	*09/12/24 14:08*	*1*
4-Bromofluorobenzene (Surr)	*124*		*75 - 131*	*09/06/24 18:47*	*09/12/24 14:08*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*09/06/24 18:47*	*09/12/24 14:08*	*1*
Toluene-d8 (Surr)	*113*		*75 - 124*	*09/06/24 18:47*	*09/12/24 14:08*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0076		0.037	0.0076	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Acenaphthylene	<0.0063		0.037	0.0063	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Anthracene	**0.016**	**J**	0.037	0.0076	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Benzo[a]anthracene	**0.058**		0.037	0.0079	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Benzo[a]pyrene	<0.036		0.037	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Benzo[b]fluoranthene	<0.036		0.037	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Benzo[g,h,i]perylene	**0.031**	**J**	0.037	0.0081	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB44 (5-7.5)
Lab Sample ID: 500-256275-2
Date Collected: 09/05/24 09:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 86.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.023**	**J**	0.037	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Chrysene	**0.095**		0.037	0.0098	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Fluoranthene	**0.11**		0.037	0.0087	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Fluorene	<0.011		0.037	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Indeno[1,2,3-cd]pyrene	<0.036		0.037	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Naphthalene	**0.031**	**J**	0.037	0.0067	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Phenanthrene	**0.94**		0.037	0.0081	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Pyrene	**0.096**		0.037	0.010	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2,4-Dimethylphenol	<0.083		0.37	0.083	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2,4-Dinitrophenol	<0.22		0.75	0.22	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2,4-Dinitrotoluene	<0.021		0.19	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2-Methylnaphthalene	**0.13**		0.075	0.0075	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
3,3'-Dichlorobenzidine	<0.030		0.19	0.030	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
3 & 4 Methylphenol	<0.027		0.19	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
4,6-Dinitro-2-methylphenol	<0.21		0.75	0.21	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
4-Chloro-3-methylphenol	<0.014		0.37	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
4-Chloroaniline	<0.39		0.75	0.39	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
4-Chlorophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
4-Nitroaniline	<0.028		0.37	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
4-Nitrophenol	<0.14		0.75	0.14	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Dibenzofuran	**0.038**	**J**	0.19	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Dimethyl phthalate	<0.0081		0.19	0.0081	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Hexachlorobenzene	<0.0071		0.075	0.0071	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1

Client Sample ID: SB44 (5-7.5)
Lab Sample ID: 500-256275-2
Date Collected: 09/05/24 09:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 86.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.40		0.75	0.40	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Isophorone	<0.019		0.19	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
N-Nitrosodi-n-propylamine	<0.0074		0.075	0.0074	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Pentachlorophenol	<0.093		0.75	0.093	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1
Phenol	<0.016		0.19	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*61*		*31 - 166*	*09/18/24 09:50*	*09/19/24 15:01*	*1*
Phenol-d5 (Surr)	*59*		*30 - 153*	*09/18/24 09:50*	*09/19/24 15:01*	*1*
Nitrobenzene-d5 (Surr)	*62*		*37 - 147*	*09/18/24 09:50*	*09/19/24 15:01*	*1*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/18/24 09:50*	*09/19/24 15:01*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*31 - 143*	*09/18/24 09:50*	*09/19/24 15:01*	*1*
Terphenyl-d14 (Surr)	*74*		*42 - 157*	*09/18/24 09:50*	*09/19/24 15:01*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
4,4'-DDE	<0.0096		0.019	0.0096	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
4,4'-DDT	<0.0089		0.019	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Chlordane (technical)	<0.035		0.074	0.035	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Endrin	<0.0095		0.019	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Endrin ketone	<0.0091		0.019	0.0091	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
gamma-BHC (Lindane)	<0.0093		0.019	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Methoxychlor	<0.012		0.092	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/17/24 07:08	09/24/24 14:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*126*		*33 - 148*	*09/17/24 07:08*	*09/24/24 14:31*	*10*
Tetrachloro-m-xylene	*72*		*30 - 121*	*09/17/24 07:08*	*09/24/24 14:31*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:13	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:13	10

Client Sample ID: SB44 (5-7.5)
Date Collected: 09/05/24 09:52
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-2
Matrix: Solid
Percent Solids: 86.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:13	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:13	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:13	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:13	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:13	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*113*		*49 - 129*	*09/17/24 07:08*	*09/24/24 14:13*	*10*
DCB Decachlorobiphenyl	*74*		*37 - 121*	*09/17/24 07:08*	*09/24/24 14:13*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5300**		20		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Arsenic	**7.2**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Barium	**51**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Beryllium	**1.4**		0.40		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Cadmium	**0.31**		0.20		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Calcium	**30000**		20		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Chromium	**13**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Cobalt	**6.5**		0.50		mg/Kg	☼	09/19/24 09:42	09/23/24 14:49	1
Copper	**26**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Iron	**41000**	**B**	20		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Lead	**65**		0.50		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Magnesium	**6400**		10		mg/Kg	☼	09/19/24 09:42	09/23/24 14:49	1
Manganese	**920**	**B**	1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Nickel	**18**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Potassium	**680**		50		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Selenium	<1.0		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Silver	<0.50		0.50		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Sodium	**480**		100		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Thallium	**1.1**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Vanadium	**27**		0.50		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1
Zinc	**260**		2.0		mg/Kg	☼	09/19/24 09:42	09/19/24 22:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019		mg/Kg	☼	09/20/24 17:35	09/23/24 07:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.99**		0.28		mg/Kg	☼	09/10/24 11:02	09/11/24 10:43	1
pH (SW846 9045D)	**8.74**		0.20		SU			09/11/24 13:26	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB45 (0-3)
Lab Sample ID: 500-256275-3
Date Collected: 09/05/24 10:15
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 95.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00097		0.0024	0.00097	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
1,1,2-Trichloroethane	<0.00090		0.0024	0.00090	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
1,1-Dichloroethane	<0.00090		0.0024	0.00090	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
1,1-Dichloroethene	<0.00098		0.0024	0.00098	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
1,2-Dichloroethane	<0.0016		0.0060	0.0016	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
1,2-Dichloropropane	<0.00062		0.0024	0.00062	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
2-Butanone (MEK)	<0.0026		0.0060	0.0026	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
2-Hexanone	<0.0036		0.0060	0.0036	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0060	0.0043	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Acetone	<0.010		0.024	0.010	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Benzene	<0.00075		0.0024	0.00075	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Bromodichloromethane	<0.00077		0.0024	0.00077	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Bromomethane	<0.0029		0.0060	0.0029	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Carbon disulfide	**0.0017**	**J**	0.0060	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Carbon tetrachloride	<0.00082		0.0024	0.00082	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Chloroethane	<0.0020		0.0060	0.0020	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Chloroform	<0.0017		0.0024	0.0017	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Chloromethane	<0.0012		0.0060	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
cis-1,2-Dichloroethene	<0.00096		0.0024	0.00096	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
1,3-Dichloropropene, Total	<0.0011		0.0024	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Ethylbenzene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Methyl tert-butyl ether	<0.00077		0.0024	0.00077	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Methylene Chloride	<0.0026		0.0060	0.0026	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Styrene	<0.0011		0.0024	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Tetrachloroethene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Toluene	<0.00048		0.0024	0.00048	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Xylenes, Total	<0.00082		0.0048	0.00082	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
trans-1,2-Dichloroethene	<0.00090		0.0024	0.00090	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Trichloroethene	<0.00065		0.0024	0.00065	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1
Vinyl chloride	<0.00098		0.0024	0.00098	mg/Kg	☼	09/06/24 18:47	09/12/24 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*09/06/24 18:47*	*09/12/24 14:33*	*1*
4-Bromofluorobenzene (Surr)	*125*		*75 - 131*	*09/06/24 18:47*	*09/12/24 14:33*	*1*
Dibromofluoromethane	*111*		*75 - 126*	*09/06/24 18:47*	*09/12/24 14:33*	*1*
Toluene-d8 (Surr)	*114*		*75 - 124*	*09/06/24 18:47*	*09/12/24 14:33*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.034	0.0069	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Acenaphthylene	<0.0058		0.034	0.0058	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Anthracene	**0.015**	**J**	0.034	0.0069	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Benzo[a]anthracene	**0.061**		0.034	0.0072	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Benzo[a]pyrene	**0.045**		0.034	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Benzo[b]fluoranthene	**0.044**		0.034	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Benzo[g,h,i]perylene	**0.035**		0.034	0.0074	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB45 (0-3)
Lab Sample ID: 500-256275-3
Date Collected: 09/05/24 10:15
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 95.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.046**		0.034	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Chrysene	**0.083**		0.034	0.0089	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Dibenz(a,h)anthracene	<0.034		0.034	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Fluoranthene	**0.11**		0.034	0.0079	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Fluorene	<0.010		0.034	0.010	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Indeno[1,2,3-cd]pyrene	<0.033		0.034	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Naphthalene	**0.060**		0.034	0.0061	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Phenanthrene	**0.51**		0.034	0.0074	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Pyrene	**0.096**		0.034	0.0093	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2,4-Dimethylphenol	<0.076		0.34	0.076	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2,4-Dinitrophenol	<0.20		0.69	0.20	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2-Methylnaphthalene	**0.12**		0.069	0.0068	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
2-Nitrophenol	<0.023		0.34	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
3-Nitroaniline	<0.015		0.34	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
4,6-Dinitro-2-methylphenol	<0.19		0.69	0.19	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
4-Chloroaniline	<0.36		0.69	0.36	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
4-Nitroaniline	<0.025		0.34	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
4-Nitrophenol	<0.13		0.69	0.13	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Carbazole	<0.013		0.17	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Dibenzofuran	**0.034**	**J**	0.17	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Dimethyl phthalate	<0.0074		0.17	0.0074	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Hexachlorobenzene	<0.0065		0.069	0.0065	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB45 (0-3)
Lab Sample ID: 500-256275-3
Date Collected: 09/05/24 10:15
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 95.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.36		0.69	0.36	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Isophorone	<0.017		0.17	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
N-Nitrosodi-n-propylamine	<0.0067		0.069	0.0067	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Pentachlorophenol	<0.085		0.69	0.085	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*62*		*31 - 166*	*09/18/24 09:50*	*09/19/24 15:26*	*1*
Phenol-d5 (Surr)	*63*		*30 - 153*	*09/18/24 09:50*	*09/19/24 15:26*	*1*
Nitrobenzene-d5 (Surr)	*62*		*37 - 147*	*09/18/24 09:50*	*09/19/24 15:26*	*1*
2-Fluorobiphenyl (Surr)	*70*		*43 - 145*	*09/18/24 09:50*	*09/19/24 15:26*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*31 - 143*	*09/18/24 09:50*	*09/19/24 15:26*	*1*
Terphenyl-d14 (Surr)	*83*		*42 - 157*	*09/18/24 09:50*	*09/19/24 15:26*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0090		0.017	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
4,4'-DDE	<0.0086		0.017	0.0086	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
4,4'-DDT	<0.0079		0.017	0.0079	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
alpha-BHC	<0.0094		0.017	0.0094	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
alpha-Chlordane	<0.0089		0.017	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
beta-BHC	<0.013		0.017	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Chlordane (technical)	<0.032		0.066	0.032	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
delta-BHC	<0.0080		0.017	0.0080	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Dieldrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Endosulfan I	<0.0090		0.017	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Endosulfan II	<0.0092		0.017	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Endosulfan sulfate	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Endrin	<0.0085		0.017	0.0085	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Endrin aldehyde	<0.0095		0.017	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Endrin ketone	<0.0081		0.017	0.0081	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
gamma-BHC (Lindane)	<0.0083		0.017	0.0083	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
gamma-Chlordane	<0.0096		0.017	0.0096	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Heptachlor	<0.0091		0.017	0.0091	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Heptachlor epoxide	<0.0090		0.017	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Methoxychlor	<0.011		0.082	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Toxaphene	<0.067		0.17	0.067	mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*205*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 14:43*	*10*
Tetrachloro-m-xylene	*93*		*30 - 121*	*09/17/24 07:08*	*09/24/24 14:43*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:28	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:28	10

Client Sample ID: SB45 (0-3)
Date Collected: 09/05/24 10:15
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-3
Matrix: Solid
Percent Solids: 95.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:28	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:28	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:28	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:28	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:28	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*49 - 129*	*09/17/24 07:08*	*09/24/24 14:28*	*10*
DCB Decachlorobiphenyl	*110*		*37 - 121*	*09/17/24 07:08*	*09/24/24 14:28*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2300**		18		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Antimony	**15**		1.8		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Arsenic	**7.0**		0.91		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Barium	**42**		0.91		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Beryllium	**0.66**		0.37		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Cadmium	**0.49**		0.18		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Calcium	**6200**		18		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Chromium	**11**		0.91		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Cobalt	**3.2**		0.46		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Copper	**17**		0.91		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Iron	**36000**	**B**	18		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Lead	**180**		0.46		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Magnesium	**2200**		9.1		mg/Kg	☼	09/19/24 09:42	09/23/24 14:54	1
Manganese	**440**	**B**	0.91		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Nickel	**11**		0.91		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Potassium	**460**		46		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Selenium	<0.91		0.91		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Silver	<0.46		0.46		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Sodium	**200**		91		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Thallium	**1.1**		0.91		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Vanadium	**11**		0.46		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1
Zinc	**79**		1.8		mg/Kg	☼	09/19/24 09:42	09/19/24 22:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.017		mg/Kg	☼	09/20/24 17:35	09/23/24 07:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24		mg/Kg	☼	09/10/24 11:02	09/11/24 10:45	1
pH (SW846 9045D)	**8.69**		0.20		SU			09/11/24 13:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB45 (5-7.5)
Lab Sample ID: 500-256275-4
Date Collected: 09/05/24 10:36
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00089		0.0022	0.00089	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
1,1,2-Trichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
1,1-Dichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
1,1-Dichloroethene	<0.00091		0.0022	0.00091	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
1,2-Dichloroethane	<0.0014		0.0055	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
2-Hexanone	<0.0033		0.0055	0.0033	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0055	0.0039	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Acetone	**0.025**		0.022	0.0093	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Benzene	**0.016**		0.0022	0.00069	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Bromodichloromethane	<0.00071		0.0022	0.00071	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Bromomethane	<0.0027		0.0055	0.0027	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Carbon disulfide	**0.011**		0.0055	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Carbon tetrachloride	<0.00075		0.0022	0.00075	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Chlorobenzene	<0.00093		0.0022	0.00093	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Chloroethane	<0.0018		0.0055	0.0018	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
cis-1,2-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Ethylbenzene	**0.024**		0.0022	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Methyl tert-butyl ether	<0.00071		0.0022	0.00071	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Methylene Chloride	<0.0024		0.0055	0.0024	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Styrene	<0.00099		0.0022	0.00099	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Toluene	**0.049**		0.0022	0.00044	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Xylenes, Total	**0.022**		0.0044	0.00076	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
trans-1,2-Dichloroethene	<0.00083		0.0022	0.00083	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Trichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1
Vinyl chloride	<0.00090		0.0022	0.00090	mg/Kg	☼	09/06/24 18:47	09/12/24 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*09/06/24 18:47*	*09/12/24 14:58*	*1*
4-Bromofluorobenzene (Surr)	*130*		*75 - 131*	*09/06/24 18:47*	*09/12/24 14:58*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*09/06/24 18:47*	*09/12/24 14:58*	*1*
Toluene-d8 (Surr)	*116*		*75 - 124*	*09/06/24 18:47*	*09/12/24 14:58*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.12**		0.071	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Acenaphthylene	**0.26**		0.071	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Anthracene	**1.3**		0.071	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Benzo[a]anthracene	**1.7**		0.071	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Benzo[a]pyrene	**0.88**		0.071	0.069	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Benzo[b]fluoranthene	**0.76**		0.071	0.068	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Benzo[g,h,i]perylene	**0.27**		0.071	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB45 (5-7.5)
Lab Sample ID: 500-256275-4
Date Collected: 09/05/24 10:36
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.97**		0.071	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Chrysene	**1.6**		0.071	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Dibenz(a,h)anthracene	**0.11**		0.071	0.071	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Fluoranthene	**3.9**		0.071	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Fluorene	**0.39**		0.071	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Indeno[1,2,3-cd]pyrene	**0.37**		0.071	0.069	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Naphthalene	**0.19**		0.071	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Phenanthrene	**3.7**		0.071	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Pyrene	**3.1**		0.071	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2-Methylnaphthalene	**0.16**		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2-Methylphenol	**0.046**	**J**	0.36	0.038	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
2-Nitrophenol	<0.048		0.71	0.048	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
3 & 4 Methylphenol	**0.19**	**J**	0.36	0.052	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
3-Nitroaniline	<0.032		0.71	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
4-Chlorophenyl phenyl ether	<0.093		0.36	0.093	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Butyl benzyl phthalate	<0.035		0.36	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Carbazole	**0.48**		0.36	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Dibenzofuran	**0.26**	**J**	0.36	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Dimethyl phthalate	<0.015		0.36	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2

Client Sample ID: SB45 (5-7.5)
Lab Sample ID: 500-256275-4
Date Collected: 09/05/24 10:36
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.75		1.4	0.75	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2
Phenol	**0.069**	**J**	0.36	0.031	mg/Kg	☼	09/18/24 09:50	09/19/24 20:51	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*57*		*31 - 166*	*09/18/24 09:50*	*09/19/24 20:51*	*2*
Phenol-d5 (Surr)	*60*		*30 - 153*	*09/18/24 09:50*	*09/19/24 20:51*	*2*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*09/18/24 09:50*	*09/19/24 20:51*	*2*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*09/18/24 09:50*	*09/19/24 20:51*	*2*
2,4,6-Tribromophenol (Surr)	*75*		*31 - 143*	*09/18/24 09:50*	*09/19/24 20:51*	*2*
Terphenyl-d14 (Surr)	*76*		*42 - 157*	*09/18/24 09:50*	*09/19/24 20:51*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.048		0.090	0.048	mg/Kg	☼	09/17/24 07:08	09/25/24 10:35	50
4,4'-DDE	<0.046		0.090	0.046	mg/Kg	☼	09/17/24 07:08	09/25/24 10:35	50
4,4'-DDT	<0.042		0.090	0.042	mg/Kg	☼	09/17/24 07:08	09/25/24 10:35	50
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
alpha-Chlordane	<0.0095		0.018	0.0095	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
delta-BHC	<0.043		0.090	0.043	mg/Kg	☼	09/17/24 07:08	09/25/24 10:35	50
Dieldrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
Endosulfan I	<0.0096		0.018	0.0096	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
Endosulfan II	<0.0098		0.018	0.0098	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
Endosulfan sulfate	<0.049		0.090	0.049	mg/Kg	☼	09/17/24 07:08	09/25/24 10:35	50
Endrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
Endrin aldehyde	<0.051		0.090	0.051	mg/Kg	☼	09/17/24 07:08	09/25/24 10:35	50
Endrin ketone	<0.0087		0.018	0.0087	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
gamma-BHC (Lindane)	<0.044		0.090	0.044	mg/Kg	☼	09/17/24 07:08	09/25/24 10:35	50
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
Heptachlor	<0.0096		0.018	0.0096	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
Heptachlor epoxide	<0.0096		0.018	0.0096	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
Methoxychlor	<0.012		0.088	0.012	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/17/24 07:08	09/25/24 10:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/17/24 07:08*	*09/25/24 10:35*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/17/24 07:08*	*09/25/24 10:35*	*50*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10

Client Sample ID: SB45 (5-7.5)
Lab Sample ID: 500-256275-4
Date Collected: 09/05/24 10:36
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 14:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*49 - 129*	*09/17/24 07:08*	*09/24/24 14:43*	*10*
DCB Decachlorobiphenyl	*54*		*37 - 121*	*09/17/24 07:08*	*09/24/24 14:43*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		21		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Antimony	<2.1		2.1		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Arsenic	**7.5**		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Barium	**130**		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Beryllium	**2.6**		0.43		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Cadmium	<0.21		0.21		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Calcium	**130000**		110		mg/Kg	☼	09/19/24 09:42	09/23/24 14:58	5
Chromium	**7.9**		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Cobalt	**4.0**		2.7		mg/Kg	☼	09/19/24 09:42	09/23/24 14:58	5
Copper	**16**		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Iron	**46000**	**B**	21		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Lead	**53**		2.7		mg/Kg	☼	09/19/24 09:42	09/23/24 14:58	5
Magnesium	**30000**		53		mg/Kg	☼	09/19/24 09:42	09/23/24 14:58	5
Manganese	**9200**	**B**	5.3		mg/Kg	☼	09/19/24 09:42	09/23/24 14:58	5
Nickel	**9.3**		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Potassium	**1800**		53		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Selenium	**3.1**		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Silver	<2.7		2.7		mg/Kg	☼	09/19/24 09:42	09/23/24 14:58	5
Sodium	**620**		110		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Thallium	**13**		5.3		mg/Kg	☼	09/19/24 09:42	09/23/24 14:58	5
Vanadium	**14**		0.53		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1
Zinc	**20**		2.1		mg/Kg	☼	09/19/24 09:42	09/19/24 22:53	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/20/24 17:35	09/23/24 07:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.7**		0.25		mg/Kg	☼	09/10/24 11:02	09/11/24 10:47	1
Sulfide (SW846 9034)	**510**		32		mg/Kg	☼	09/11/24 08:43	09/11/24 13:09	1
pH (SW846 9045D)	**7.59**		0.20		SU			09/11/24 13:31	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB46 (0-3)
Lab Sample ID: 500-256275-5
Date Collected: 09/05/24 10:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00077		0.0019	0.00077	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
1,1,2,2-Tetrachloroethane	<0.00094		0.0019	0.00094	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
1,1,2-Trichloroethane	<0.00071		0.0019	0.00071	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
1,1-Dichloroethane	<0.00071		0.0019	0.00071	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
1,1-Dichloroethene	<0.00078		0.0019	0.00078	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
1,2-Dichloroethane	<0.0012		0.0047	0.0012	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
2-Hexanone	<0.0029		0.0047	0.0029	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0047	0.0034	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Acetone	<0.0080		0.019	0.0080	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Benzene	**0.00079**	**J**	0.0019	0.00060	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Bromodichloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Bromoform	<0.0011		0.0019	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Bromomethane	<0.0023		0.0047	0.0023	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Carbon disulfide	**0.0019**	**J**	0.0047	0.00087	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Carbon tetrachloride	<0.00065		0.0019	0.00065	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Chlorobenzene	<0.00080		0.0019	0.00080	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Chloroethane	<0.0016		0.0047	0.0016	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Chloroform	<0.0014		0.0019	0.0014	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Chloromethane	<0.00092		0.0047	0.00092	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
cis-1,2-Dichloroethene	<0.00077		0.0019	0.00077	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
1,3-Dichloropropene, Total	<0.00091		0.0019	0.00091	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Dibromochloromethane	<0.00088		0.0019	0.00088	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Ethylbenzene	<0.0010		0.0019	0.0010	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Methyl tert-butyl ether	<0.00061		0.0019	0.00061	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Methylene Chloride	<0.0020	*-	0.0047	0.0020	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Styrene	<0.00085		0.0019	0.00085	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Tetrachloroethene	<0.0011		0.0019	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Toluene	<0.00038		0.0019	0.00038	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Xylenes, Total	<0.00065		0.0038	0.00065	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
trans-1,2-Dichloroethene	<0.00072		0.0019	0.00072	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Trichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1
Vinyl chloride	<0.00078		0.0019	0.00078	mg/Kg	☼	09/06/24 18:47	09/13/24 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*09/06/24 18:47*	*09/13/24 12:42*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*09/06/24 18:47*	*09/13/24 12:42*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*09/06/24 18:47*	*09/13/24 12:42*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*09/06/24 18:47*	*09/13/24 12:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1.4**		0.070	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Acenaphthylene	**0.055**	**J**	0.070	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Anthracene	**3.5**		0.070	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Benzo[a]anthracene	**4.2**		0.070	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Benzo[a]pyrene	**3.9**		0.070	0.068	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Benzo[b]fluoranthene	**4.1**		0.070	0.067	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Benzo[g,h,i]perylene	**1.9**		0.070	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB46 (0-3)
Lab Sample ID: 500-256275-5
Date Collected: 09/05/24 10:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**3.3**		0.070	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Chrysene	**4.1**		0.070	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Dibenz(a,h)anthracene	**0.52**		0.070	0.070	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Fluoranthene	**15**		0.070	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Fluorene	**2.0**		0.070	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Indeno[1,2,3-cd]pyrene	**2.2**		0.070	0.069	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Naphthalene	**2.5**		0.070	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Phenanthrene	**13**		0.070	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Pyrene	**10**		0.070	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
1,4-Dichlorobenzene	<0.033		0.36	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2,4,5-Trichlorophenol	<0.027		0.70	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2,4,6-Trichlorophenol	<0.024		0.70	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2,4-Dichlorophenol	<0.025		0.70	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2,4-Dimethylphenol	<0.16		0.70	0.16	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2,4-Dinitrotoluene	<0.040		0.36	0.040	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2-Chloronaphthalene	<0.026		0.36	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2-Methylnaphthalene	**0.32**		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2-Methylphenol	<0.037		0.36	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
2-Nitrophenol	<0.048		0.70	0.048	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
3-Nitroaniline	<0.032		0.70	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
4-Bromophenyl phenyl ether	<0.048		0.36	0.048	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
4-Chloro-3-methylphenol	<0.028		0.70	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
4-Chloroaniline	<0.74		1.4	0.74	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
4-Chlorophenyl phenyl ether	<0.093		0.36	0.093	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
4-Nitroaniline	<0.052		0.70	0.052	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Bis(2-chloroethoxy)methane	<0.026		0.36	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Butyl benzyl phthalate	<0.035		0.36	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Carbazole	**0.46**		0.36	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Dibenzofuran	**1.5**		0.36	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Diethyl phthalate	<0.032		0.36	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Dimethyl phthalate	<0.015		0.36	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Di-n-butyl phthalate	<0.022		0.36	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Di-n-octyl phthalate	<0.50		0.70	0.50	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2

Client Sample ID: SB46 (0-3)
Lab Sample ID: 500-256275-5
Date Collected: 09/05/24 10:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.75		1.4	0.75	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Hexachloroethane	<0.035		0.36	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Isophorone	<0.036		0.36	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Nitrobenzene	<0.022		0.070	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/18/24 09:50	09/19/24 21:17	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*49*		*31 - 166*	*09/18/24 09:50*	*09/19/24 21:17*	*2*
Phenol-d5 (Surr)	*53*		*30 - 153*	*09/18/24 09:50*	*09/19/24 21:17*	*2*
Nitrobenzene-d5 (Surr)	*46*		*37 - 147*	*09/18/24 09:50*	*09/19/24 21:17*	*2*
2-Fluorobiphenyl (Surr)	*56*		*43 - 145*	*09/18/24 09:50*	*09/19/24 21:17*	*2*
2,4,6-Tribromophenol (Surr)	*49*		*31 - 143*	*09/18/24 09:50*	*09/19/24 21:17*	*2*
Terphenyl-d14 (Surr)	*65*		*42 - 157*	*09/18/24 09:50*	*09/19/24 21:17*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Chlordane (technical)	<0.033		0.068	0.033	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
delta-BHC	<0.0082		0.017	0.0082	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Endosulfan II	<0.0094		0.017	0.0094	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Endosulfan sulfate	<0.0095		0.017	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Endrin aldehyde	<0.0098		0.017	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Heptachlor	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/17/24 07:08	09/24/24 15:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*1098*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 15:06*	*10*
Tetrachloro-m-xylene	*74*		*30 - 121*	*09/17/24 07:08*	*09/24/24 15:06*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:58	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:58	10

Client Sample ID: SB46 (0-3)
Lab Sample ID: 500-256275-5
Date Collected: 09/05/24 10:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:58	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:58	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:58	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:58	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:58	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 14:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*49 - 129*	*09/17/24 07:08*	*09/24/24 14:58*	*10*
DCB Decachlorobiphenyl	*106*		*37 - 121*	*09/17/24 07:08*	*09/24/24 14:58*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Antimony	<2.1		2.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:06	1
Arsenic	**8.6**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:06	1
Barium	**220**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:06	1
Beryllium	**4.4**		2.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Cadmium	<1.0		1.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Calcium	**140000**		100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Chromium	**850**		5.2		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Cobalt	**11**		2.6		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Copper	**190**		5.2		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Iron	**110000**	**B**	100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Lead	**120**		2.6		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Magnesium	**17000**		52		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Manganese	**6600**	**B**	5.2		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Nickel	**490**		5.2		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Potassium	**1700**		52		mg/Kg	☼	09/19/24 09:42	09/19/24 23:06	1
Selenium	<5.2		5.2		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Silver	<2.6		2.6		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Sodium	**660**		520		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Thallium	**9.6**		5.2		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Vanadium	**47**		2.6		mg/Kg	☼	09/19/24 09:42	09/23/24 15:03	5
Zinc	**99**		2.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:06	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.071**		0.016		mg/Kg	☼	09/20/24 17:35	09/23/24 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**13**		2.5		mg/Kg	☼	09/10/24 11:02	09/11/24 12:01	10
pH (SW846 9045D)	**8.05**		0.20		SU			09/11/24 13:33	1

Client Sample ID: SB46 (3-5)
Date Collected: 09/05/24 11:07
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-6
Matrix: Solid
Percent Solids: 93.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00086		0.0021	0.00086	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0021	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
1,1,2-Trichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
1,1-Dichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
1,1-Dichloroethene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
1,2-Dichloroethane	<0.0014		0.0053	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
2-Butanone (MEK)	**0.0043**	**J**	0.0053	0.0023	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
2-Hexanone	<0.0032		0.0053	0.0032	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0053	0.0038	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Acetone	**0.032**		0.021	0.0090	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Benzene	<0.00067		0.0021	0.00067	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Bromodichloromethane	<0.00069		0.0021	0.00069	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Bromomethane	<0.0026		0.0053	0.0026	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Carbon disulfide	**0.020**		0.0053	0.00098	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Carbon tetrachloride	<0.00073		0.0021	0.00073	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Chlorobenzene	<0.00090		0.0021	0.00090	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Chloroethane	<0.0018		0.0053	0.0018	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Chloromethane	<0.0010		0.0053	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
cis-1,2-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Dibromochloromethane	<0.00099		0.0021	0.00099	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Ethylbenzene	**0.0020**	**J**	0.0021	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Methyl tert-butyl ether	<0.00069		0.0021	0.00069	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Methylene Chloride	<0.0023		0.0053	0.0023	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Styrene	<0.00096		0.0021	0.00096	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Toluene	**0.00067**	**J**	0.0021	0.00043	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Xylenes, Total	**0.014**		0.0043	0.00073	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
trans-1,2-Dichloroethene	<0.00081		0.0021	0.00081	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Trichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1
Vinyl chloride	<0.00087		0.0021	0.00087	mg/Kg	☼	09/06/24 18:47	09/12/24 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*09/06/24 18:47*	*09/12/24 15:48*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*09/06/24 18:47*	*09/12/24 15:48*	*1*
Dibromofluoromethane	*55*	*S1-*	*75 - 126*	*09/06/24 18:47*	*09/12/24 15:48*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*09/06/24 18:47*	*09/12/24 15:48*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.55**		0.070	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Acenaphthylene	**0.028**	**J**	0.070	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Anthracene	**1.7**		0.070	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Benzo[a]anthracene	**1.8**		0.070	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Benzo[a]pyrene	**1.7**		0.070	0.068	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Benzo[b]fluoranthene	**1.9**		0.070	0.067	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Benzo[g,h,i]perylene	**0.86**		0.070	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB46 (3-5)
Lab Sample ID: 500-256275-6
Date Collected: 09/05/24 11:07
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 93.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.5**		0.070	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Chrysene	**1.9**		0.070	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Dibenz(a,h)anthracene	**0.23**		0.070	0.070	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Fluoranthene	**6.1**		0.070	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Fluorene	**0.79**		0.070	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Indeno[1,2,3-cd]pyrene	**0.96**		0.070	0.068	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Naphthalene	**0.39**		0.070	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Phenanthrene	**5.3**		0.070	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Pyrene	**4.1**		0.070	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
1,2,4-Trichlorobenzene	<0.050		0.35	0.050	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
1,3-Dichlorobenzene	<0.032		0.35	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2,4,5-Trichlorophenol	<0.026		0.70	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2,4,6-Trichlorophenol	<0.024		0.70	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2,4-Dichlorophenol	<0.025		0.70	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2,4-Dimethylphenol	<0.16		0.70	0.16	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2,4-Dinitrotoluene	<0.040		0.35	0.040	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2-Chlorophenol	<0.023		0.35	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2-Methylnaphthalene	**0.18**		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2-Methylphenol	<0.037		0.35	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2-Nitroaniline	<0.038		0.35	0.038	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
2-Nitrophenol	<0.047		0.70	0.047	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
3,3'-Dichlorobenzidine	<0.057		0.35	0.057	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
3-Nitroaniline	<0.032		0.70	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
4-Bromophenyl phenyl ether	<0.048		0.35	0.048	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
4-Chloro-3-methylphenol	<0.027		0.70	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
4-Chloroaniline	<0.73		1.4	0.73	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
4-Chlorophenyl phenyl ether	<0.092		0.35	0.092	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
4-Nitroaniline	<0.052		0.70	0.052	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Butyl benzyl phthalate	<0.035		0.35	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Carbazole	**0.22**	**J**	0.35	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Dibenzofuran	**0.55**		0.35	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Di-n-octyl phthalate	<0.49		0.70	0.49	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB46 (3-5)
Lab Sample ID: 500-256275-6
Date Collected: 09/05/24 11:07
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 93.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.74		1.4	0.74	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Nitrobenzene	<0.022		0.070	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
N-Nitrosodiphenylamine	<0.042		0.35	0.042	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/18/24 09:50	09/19/24 21:41	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*34*		*31 - 166*	*09/18/24 09:50*	*09/19/24 21:41*	*2*
Phenol-d5 (Surr)	*52*		*30 - 153*	*09/18/24 09:50*	*09/19/24 21:41*	*2*
Nitrobenzene-d5 (Surr)	*48*		*37 - 147*	*09/18/24 09:50*	*09/19/24 21:41*	*2*
2-Fluorobiphenyl (Surr)	*55*		*43 - 145*	*09/18/24 09:50*	*09/19/24 21:41*	*2*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/18/24 09:50*	*09/19/24 21:41*	*2*
Terphenyl-d14 (Surr)	*65*		*42 - 157*	*09/18/24 09:50*	*09/19/24 21:41*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0096		0.018	0.0096	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
4,4'-DDE	<0.0092		0.018	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
4,4'-DDT	<0.0085		0.018	0.0085	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
alpha-Chlordane	<0.0096		0.018	0.0096	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
delta-BHC	<0.0085		0.018	0.0085	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Dieldrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Endosulfan I	<0.0097		0.018	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Endosulfan II	<0.0098		0.018	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Endosulfan sulfate	<0.0099		0.018	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Endrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Endrin ketone	<0.0087		0.018	0.0087	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
gamma-BHC (Lindane)	<0.0089		0.018	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Heptachlor	<0.0097		0.018	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Heptachlor epoxide	<0.0096		0.018	0.0096	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Methoxychlor	<0.012		0.088	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/17/24 07:08	09/24/24 19:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*234*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 19:33*	*10*
Tetrachloro-m-xylene	*87*		*30 - 121*	*09/17/24 07:08*	*09/24/24 19:33*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:13	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:13	10

Client Sample ID: SB46 (3-5)
Lab Sample ID: 500-256275-6
Date Collected: 09/05/24 11:07
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 93.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:13	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:13	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:13	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:13	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:13	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*49 - 129*	*09/17/24 07:08*	*09/24/24 15:13*	*10*
DCB Decachlorobiphenyl	*127*	*S1+*	*37 - 121*	*09/17/24 07:08*	*09/24/24 15:13*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		93		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Antimony	<9.3		9.3		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Arsenic	**14**		0.93		mg/Kg	☼	09/19/24 09:42	09/19/24 23:11	1
Barium	**140**		0.93		mg/Kg	☼	09/19/24 09:42	09/19/24 23:11	1
Beryllium	**3.0**		1.9		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Cadmium	<0.93		0.93		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Calcium	**110000**		93		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Chromium	**1300**		19		mg/Kg	☼	09/19/24 09:42	09/24/24 15:52	20
Cobalt	**17**		2.3		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Copper	**240**		4.7		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Iron	**190000**	**B**	93		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Lead	**80**		2.3		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Magnesium	**29000**		47		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Manganese	**10000**	**B**	19		mg/Kg	☼	09/19/24 09:42	09/24/24 15:52	20
Nickel	**580**		4.7		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Potassium	**1100**		47		mg/Kg	☼	09/19/24 09:42	09/19/24 23:11	1
Selenium	**5.7**		4.7		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Silver	<2.3		2.3		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Sodium	**480**		470		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Thallium	**14**		4.7		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Vanadium	**71**		2.3		mg/Kg	☼	09/19/24 09:42	09/23/24 15:07	5
Zinc	**65**		1.9		mg/Kg	☼	09/19/24 09:42	09/19/24 23:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.017		mg/Kg	☼	09/20/24 17:35	09/23/24 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**6.4**		1.2		mg/Kg	☼	09/10/24 11:02	09/11/24 12:06	5
pH (SW846 9045D)	**10.86**		0.20		SU			09/11/24 13:38	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB47 (0-3)
Lab Sample ID: 500-256275-7
Date Collected: 09/05/24 11:17
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 91.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00094		0.0023	0.00094	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0023	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
1,1,2-Trichloroethane	<0.00087		0.0023	0.00087	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
1,1-Dichloroethane	<0.00088		0.0023	0.00088	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
1,1-Dichloroethene	<0.00096		0.0023	0.00096	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
1,2-Dichloroethane	<0.0015		0.0058	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
1,2-Dichloropropane	<0.00060		0.0023	0.00060	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
2-Butanone (MEK)	**0.015**		0.0058	0.0026	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
2-Hexanone	<0.0035		0.0058	0.0035	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0058	0.0041	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Acetone	**0.081**		0.023	0.0098	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Benzene	<0.00073		0.0023	0.00073	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Bromodichloromethane	<0.00075		0.0023	0.00075	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Bromoform	<0.0014		0.0023	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Bromomethane	<0.0029		0.0058	0.0029	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Carbon disulfide	**0.0012**	**J**	0.0058	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Carbon tetrachloride	<0.00079		0.0023	0.00079	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Chlorobenzene	<0.00098		0.0023	0.00098	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Chloroethane	<0.0019		0.0058	0.0019	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Chloroform	<0.0017		0.0023	0.0017	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Chloromethane	<0.0011		0.0058	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
cis-1,2-Dichloroethene	<0.00094		0.0023	0.00094	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Methyl tert-butyl ether	<0.00075		0.0023	0.00075	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Methylene Chloride	<0.0025		0.0058	0.0025	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Toluene	<0.00047		0.0023	0.00047	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Xylenes, Total	<0.00080		0.0047	0.00080	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
trans-1,2-Dichloroethene	<0.00088		0.0023	0.00088	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Trichloroethene	<0.00063		0.0023	0.00063	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1
Vinyl chloride	<0.00095		0.0023	0.00095	mg/Kg	☼	09/06/24 18:47	09/12/24 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*09/06/24 18:47*	*09/12/24 16:12*	*1*
4-Bromofluorobenzene (Surr)	*114*		*75 - 131*	*09/06/24 18:47*	*09/12/24 16:12*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*09/06/24 18:47*	*09/12/24 16:12*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*09/06/24 18:47*	*09/12/24 16:12*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.047**		0.036	0.0074	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Acenaphthylene	**0.022**	**J**	0.036	0.0061	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Anthracene	**0.13**		0.036	0.0074	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Benzo[a]anthracene	**0.51**		0.036	0.0077	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Benzo[a]pyrene	**0.53**		0.036	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Benzo[b]fluoranthene	**0.64**		0.036	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Benzo[g,h,i]perylene	**0.40**		0.036	0.0078	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB47 (0-3)
Lab Sample ID: 500-256275-7
Date Collected: 09/05/24 11:17
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 91.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.48**		0.036	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Chrysene	**0.73**		0.036	0.0095	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Dibenz(a,h)anthracene	**0.11**		0.036	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Fluoranthene	**0.98**		0.036	0.0084	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Fluorene	**0.047**		0.036	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Indeno[1,2,3-cd]pyrene	**0.38**		0.036	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Naphthalene	**0.022**	**J**	0.036	0.0065	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Phenanthrene	**0.58**		0.036	0.0079	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Pyrene	**0.87**		0.036	0.0099	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2,4-Dimethylphenol	<0.081		0.36	0.081	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2-Methylnaphthalene	<0.0073		0.073	0.0073	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
3-Nitroaniline	<0.016		0.36	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Bis(2-ethylhexyl) phthalate	**0.24**		0.18	0.14	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Carbazole	**0.056**	**J**	0.18	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Dimethyl phthalate	<0.0079		0.18	0.0079	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Hexachlorobenzene	<0.0069		0.073	0.0069	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB47 (0-3)
Lab Sample ID: 500-256275-7
Date Collected: 09/05/24 11:17
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 91.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.73	0.38	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
N-Nitrosodi-n-propylamine	<0.0071		0.073	0.0071	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Pentachlorophenol	<0.091		0.73	0.091	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*33*		*31 - 166*	*09/18/24 09:50*	*09/19/24 18:21*	*1*
Phenol-d5 (Surr)	*46*		*30 - 153*	*09/18/24 09:50*	*09/19/24 18:21*	*1*
Nitrobenzene-d5 (Surr)	*41*		*37 - 147*	*09/18/24 09:50*	*09/19/24 18:21*	*1*
2-Fluorobiphenyl (Surr)	*53*		*43 - 145*	*09/18/24 09:50*	*09/19/24 18:21*	*1*
2,4,6-Tribromophenol (Surr)	*11*	*S1-*	*31 - 143*	*09/18/24 09:50*	*09/19/24 18:21*	*1*
Terphenyl-d14 (Surr)	*72*		*42 - 157*	*09/18/24 09:50*	*09/19/24 18:21*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0096		0.018	0.0096	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
4,4'-DDE	<0.0092		0.018	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
4,4'-DDT	<0.0085		0.018	0.0085	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
alpha-Chlordane	<0.0096		0.018	0.0096	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
delta-BHC	<0.0086		0.018	0.0086	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Dieldrin	<0.0094		0.018	0.0094	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Endosulfan I	<0.0097		0.018	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Endosulfan II	<0.0098		0.018	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Endosulfan sulfate	<0.0099		0.018	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Endrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Endrin ketone	<0.0087		0.018	0.0087	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
gamma-BHC (Lindane)	<0.0089		0.018	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Heptachlor	<0.0097		0.018	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Heptachlor epoxide	<0.0097		0.018	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Methoxychlor	<0.012		0.088	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/17/24 07:08	09/24/24 19:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*182*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 19:44*	*10*
Tetrachloro-m-xylene	*67*		*30 - 121*	*09/17/24 07:08*	*09/24/24 19:44*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:28	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:28	10

Client Sample ID: SB47 (0-3)
Lab Sample ID: 500-256275-7

Date Collected: 09/05/24 11:17
Matrix: Solid

Date Received: 09/06/24 12:35
Percent Solids: 91.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:28	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:28	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:28	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:28	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:28	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*49 - 129*	*09/17/24 07:08*	*09/24/24 15:28*	*10*
DCB Decachlorobiphenyl	*86*		*37 - 121*	*09/17/24 07:08*	*09/24/24 15:28*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6800**		95		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Antimony	<9.5		9.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Arsenic	**6.5**		0.95		mg/Kg	☼	09/19/24 09:42	09/19/24 23:15	1
Barium	**66**		0.95		mg/Kg	☼	09/19/24 09:42	09/19/24 23:15	1
Beryllium	<1.9		1.9		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Cadmium	**3.1**		0.95		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Calcium	**160000**		95		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Chromium	**280**		4.8		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Cobalt	**12**		2.4		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Copper	**91**		4.8		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Iron	**120000**	**B**	95		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Lead	**300**		2.4		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Magnesium	**52000**		48		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Manganese	**12000**	**B**	19		mg/Kg	☼	09/19/24 09:42	09/24/24 15:56	20
Nickel	**51**		4.8		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Potassium	**990**		48		mg/Kg	☼	09/19/24 09:42	09/19/24 23:15	1
Selenium	<4.8		4.8		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Silver	<2.4		2.4		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Sodium	<480		480		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Thallium	**56**		19		mg/Kg	☼	09/19/24 09:42	09/24/24 15:56	20
Vanadium	**190**		2.4		mg/Kg	☼	09/19/24 09:42	09/23/24 15:12	5
Zinc	**730**		1.9		mg/Kg	☼	09/19/24 09:42	09/19/24 23:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.017		mg/Kg	☼	09/20/24 17:35	09/23/24 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.60**		0.26		mg/Kg	☼	09/10/24 11:02	09/11/24 11:07	1
pH (SW846 9045D)	**9.98**		0.20		SU			09/11/24 13:41	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB47 (7.5-10)
Lab Sample ID: 500-256275-8
Date Collected: 09/05/24 11:26
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0027	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
1,1,2-Trichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
1,1-Dichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
1,1-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
1,2-Dichloroethane	<0.0017		0.0067	0.0017	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
1,2-Dichloropropane	<0.00069		0.0027	0.00069	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
2-Butanone (MEK)	**0.030**		0.0067	0.0030	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
2-Hexanone	<0.0041		0.0067	0.0041	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0067	0.0048	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Acetone	**0.14**		0.027	0.011	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Benzene	<0.00085		0.0027	0.00085	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Bromodichloromethane	<0.00086		0.0027	0.00086	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Bromoform	<0.0016		0.0027	0.0016	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Bromomethane	<0.0033		0.0067	0.0033	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Carbon disulfide	**0.0030**	**J**	0.0067	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Carbon tetrachloride	<0.00092		0.0027	0.00092	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Chlorobenzene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Chloroethane	<0.0022		0.0067	0.0022	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Chloroform	<0.0019		0.0027	0.0019	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Chloromethane	<0.0013		0.0067	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
cis-1,2-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
1,3-Dichloropropene, Total	<0.0013		0.0027	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Dibromochloromethane	<0.0012		0.0027	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Ethylbenzene	<0.0014		0.0027	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Methyl tert-butyl ether	<0.00087		0.0027	0.00087	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Methylene Chloride	<0.0029		0.0067	0.0029	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Styrene	<0.0012		0.0027	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Tetrachloroethene	<0.0015		0.0027	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Toluene	**0.00072**	**J**	0.0027	0.00054	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Xylenes, Total	<0.00092		0.0054	0.00092	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
trans-1,2-Dichloroethene	<0.0010		0.0027	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Trichloroethene	<0.00073		0.0027	0.00073	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1
Vinyl chloride	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/06/24 18:47*	*09/12/24 16:37*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*09/06/24 18:47*	*09/12/24 16:37*	*1*
Dibromofluoromethane	*66*	*S1-*	*75 - 126*	*09/06/24 18:47*	*09/12/24 16:37*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*09/06/24 18:47*	*09/12/24 16:37*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.17**		0.035	0.0072	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Acenaphthylene	**0.029**	**J**	0.035	0.0060	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Anthracene	**0.59**		0.035	0.0073	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Benzo[a]anthracene	**0.84**		0.035	0.0076	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Benzo[a]pyrene	**0.83**		0.035	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Benzo[b]fluoranthene	**0.79**		0.035	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Benzo[g,h,i]perylene	**0.55**		0.035	0.0077	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB47 (7.5-10)
Lab Sample ID: 500-256275-8
Date Collected: 09/05/24 11:26
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.70**		0.035	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Chrysene	**0.98**		0.035	0.0094	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Dibenz(a,h)anthracene	**0.19**		0.035	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Fluoranthene	**2.2**		0.035	0.0083	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Fluorene	**0.21**		0.035	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Indeno[1,2,3-cd]pyrene	**0.57**		0.035	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Naphthalene	**0.15**		0.035	0.0064	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Phenanthrene	**2.0**		0.035	0.0077	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Pyrene	**1.7**		0.035	0.0097	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2,4-Dichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2,4-Dimethylphenol	<0.080		0.35	0.080	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2,4-Dinitrophenol	<0.21		0.72	0.21	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2-Methylnaphthalene	<0.0071		0.072	0.0071	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
4,6-Dinitro-2-methylphenol	<0.20		0.72	0.20	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
4-Chloroaniline	<0.37		0.72	0.37	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
4-Nitrophenol	<0.13		0.72	0.13	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Carbazole	**0.11**	**J**	0.18	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Dibenzofuran	**0.16**	**J**	0.18	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Hexachlorobenzene	<0.0068		0.072	0.0068	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB47 (7.5-10)
Lab Sample ID: 500-256275-8
Date Collected: 09/05/24 11:26
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.72	0.38	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
N-Nitrosodi-n-propylamine	<0.0070		0.072	0.0070	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Pentachlorophenol	<0.089		0.72	0.089	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*25*	*S1-*	*31 - 166*	*09/18/24 09:50*	*09/19/24 17:56*	*1*
Phenol-d5 (Surr)	*46*		*30 - 153*	*09/18/24 09:50*	*09/19/24 17:56*	*1*
Nitrobenzene-d5 (Surr)	*45*		*37 - 147*	*09/18/24 09:50*	*09/19/24 17:56*	*1*
2-Fluorobiphenyl (Surr)	*51*		*43 - 145*	*09/18/24 09:50*	*09/19/24 17:56*	*1*
2,4,6-Tribromophenol (Surr)	*1*	*S1-*	*31 - 143*	*09/18/24 09:50*	*09/19/24 17:56*	*1*
Terphenyl-d14 (Surr)	*70*		*42 - 157*	*09/18/24 09:50*	*09/19/24 17:56*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0092		0.017	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Chlordane (technical)	<0.033		0.068	0.033	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
delta-BHC	<0.0082		0.017	0.0082	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Endosulfan II	<0.0094		0.017	0.0094	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Endosulfan sulfate	<0.0095		0.017	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Endrin aldehyde	<0.0098		0.017	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Heptachlor	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/17/24 07:08	09/24/24 19:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*421*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 19:56*	*10*
Tetrachloro-m-xylene	*55*		*30 - 121*	*09/17/24 07:08*	*09/24/24 19:56*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/26/24 14:08	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/26/24 14:08	10

Client Sample ID: SB47 (7.5-10) | **Lab Sample ID: 500-256275-8**
Date Collected: 09/05/24 11:26 | **Matrix: Solid**
Date Received: 09/06/24 12:35 | **Percent Solids: 92.8**

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/26/24 14:08	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/26/24 14:08	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/26/24 14:08	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/26/24 14:08	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/26/24 14:08	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/26/24 14:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*	*S1-*	*49 - 129*	*09/17/24 07:08*	*09/26/24 14:08*	*10*
DCB Decachlorobiphenyl	*88*		*37 - 121*	*09/17/24 07:08*	*09/26/24 14:08*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7400**		100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Antimony	**2.0**		2.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:20	1
Arsenic	**11**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:20	1
Barium	**85**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:20	1
Beryllium	<2.0		2.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Cadmium	**1.3**		1.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Calcium	**140000**		100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Chromium	**100**		5.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Cobalt	**12**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Copper	**100**		5.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Iron	**130000**	**B**	100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Lead	**180**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Magnesium	**59000**		50		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Manganese	**4400**	**B**	5.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Nickel	**45**		5.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Potassium	**1100**		50		mg/Kg	☼	09/19/24 09:42	09/19/24 23:20	1
Selenium	<5.0		5.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Silver	<2.5		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Sodium	<500		500		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Thallium	**8.4**		5.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Vanadium	**44**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:16	5
Zinc	**330**		2.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.017		mg/Kg	☼	09/20/24 17:35	09/23/24 08:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25		mg/Kg	☼	09/10/24 11:02	09/11/24 11:09	1
pH (SW846 9045D)	**10.92**		0.20		SU			09/11/24 13:46	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB48 (0-3)
Lab Sample ID: 500-256275-9
Date Collected: 09/05/24 11:47
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0026	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
1,1,2-Trichloroethane	<0.00098		0.0026	0.00098	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
1,1-Dichloroethane	<0.00098		0.0026	0.00098	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
1,1-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
1,2-Dichloroethane	<0.0017		0.0065	0.0017	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
1,2-Dichloropropane	<0.00067		0.0026	0.00067	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
2-Butanone (MEK)	<0.0029		0.0065	0.0029	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
2-Hexanone	<0.0040		0.0065	0.0040	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0065	0.0046	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Acetone	<0.011		0.026	0.011	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Benzene	<0.00082		0.0026	0.00082	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Bromodichloromethane	<0.00084		0.0026	0.00084	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Bromoform	<0.0015		0.0026	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Bromomethane	<0.0032		0.0065	0.0032	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Carbon disulfide	<0.0012		0.0065	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Carbon tetrachloride	<0.00089		0.0026	0.00089	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Chlorobenzene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Chloroethane	<0.0021		0.0065	0.0021	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Chloroform	<0.0019		0.0026	0.0019	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Chloromethane	<0.0013		0.0065	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
cis-1,2-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
1,3-Dichloropropene, Total	<0.0012		0.0026	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Dibromochloromethane	<0.0012		0.0026	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Ethylbenzene	<0.0014		0.0026	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Methyl tert-butyl ether	<0.00084		0.0026	0.00084	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Methylene Chloride	<0.0028		0.0065	0.0028	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Styrene	<0.0012		0.0026	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Tetrachloroethene	<0.0015		0.0026	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Toluene	**0.0014**	**J**	0.0026	0.00052	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Xylenes, Total	**0.0015**	**J**	0.0052	0.00089	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
trans-1,2-Dichloroethene	<0.00099		0.0026	0.00099	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Trichloroethene	<0.00071		0.0026	0.00071	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1
Vinyl chloride	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/06/24 18:47*	*09/12/24 17:02*	*1*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*75 - 131*	*09/06/24 18:47*	*09/12/24 17:02*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*09/06/24 18:47*	*09/12/24 17:02*	*1*
Toluene-d8 (Surr)	*112*		*75 - 124*	*09/06/24 18:47*	*09/12/24 17:02*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.18**		0.071	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Acenaphthylene	**0.048**	**J**	0.071	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Anthracene	**0.50**		0.071	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Benzo[a]anthracene	**1.5**		0.071	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Benzo[a]pyrene	**1.5**		0.071	0.069	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Benzo[b]fluoranthene	**1.7**		0.071	0.068	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Benzo[g,h,i]perylene	**0.78**		0.071	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB48 (0-3)
Lab Sample ID: 500-256275-9
Date Collected: 09/05/24 11:47
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.3**		0.071	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Chrysene	**1.6**		0.071	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Dibenz(a,h)anthracene	**0.25**		0.071	0.071	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Fluoranthene	**3.4**		0.071	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Fluorene	**0.18**		0.071	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Indeno[1,2,3-cd]pyrene	**0.81**		0.071	0.070	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Naphthalene	**0.044**	**J**	0.071	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Phenanthrene	**2.0**		0.071	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Pyrene	**2.8**		0.071	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2-Methylnaphthalene	<0.014		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
2-Nitrophenol	<0.048		0.71	0.048	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
3-Nitroaniline	<0.033		0.71	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
4-Nitrophenol	<0.27		1.4	0.27	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Carbazole	**0.19**	**J**	0.36	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Dibenzofuran	**0.10**	**J**	0.36	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB48 (0-3)
Lab Sample ID: 500-256275-9
Date Collected: 09/05/24 11:47
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76		1.4	0.76	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/18/24 09:50	09/19/24 22:07	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*51*		*31 - 166*	*09/18/24 09:50*	*09/19/24 22:07*	*2*
Phenol-d5 (Surr)	*55*		*30 - 153*	*09/18/24 09:50*	*09/19/24 22:07*	*2*
Nitrobenzene-d5 (Surr)	*49*		*37 - 147*	*09/18/24 09:50*	*09/19/24 22:07*	*2*
2-Fluorobiphenyl (Surr)	*59*		*43 - 145*	*09/18/24 09:50*	*09/19/24 22:07*	*2*
2,4,6-Tribromophenol (Surr)	*72*		*31 - 143*	*09/18/24 09:50*	*09/19/24 22:07*	*2*
Terphenyl-d14 (Surr)	*70*		*42 - 157*	*09/18/24 09:50*	*09/19/24 22:07*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0097		0.018	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
4,4'-DDE	<0.0093		0.018	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
4,4'-DDT	<0.0086		0.018	0.0086	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
alpha-Chlordane	<0.0097		0.018	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Chlordane (technical)	<0.034		0.072	0.034	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
delta-BHC	<0.0087		0.018	0.0087	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Dieldrin	<0.0095		0.018	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Endosulfan I	<0.0098		0.018	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Endosulfan II	<0.0099		0.018	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Endrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Endrin ketone	<0.0088		0.018	0.0088	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
gamma-BHC (Lindane)	<0.0090		0.018	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Heptachlor	<0.0098		0.018	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Heptachlor epoxide	<0.0098		0.018	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Methoxychlor	<0.012		0.089	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/17/24 07:08	09/24/24 20:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*247*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 20:08*	*10*
Tetrachloro-m-xylene	*54*		*30 - 121*	*09/17/24 07:08*	*09/24/24 20:08*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:57	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:57	10

Client Sample ID: SB48 (0-3)
Lab Sample ID: 500-256275-9

Date Collected: 09/05/24 11:47
Matrix: Solid

Date Received: 09/06/24 12:35
Percent Solids: 92.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:57	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:57	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:57	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:57	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:57	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/24/24 15:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*49 - 129*	*09/17/24 07:08*	*09/24/24 15:57*	*10*
DCB Decachlorobiphenyl	*27*	*S1-*	*37 - 121*	*09/17/24 07:08*	*09/24/24 15:57*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**39000**		110		mg/Kg	☼	09/19/24 09:42	09/23/24 15:30	5
Antimony	<2.1		2.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Arsenic	**8.6**		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Barium	**110**		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Beryllium	**1.0**		0.43		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Cadmium	**0.56**		0.21		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Calcium	**55000**		21		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Chromium	**56**		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Cobalt	**6.5**		0.53		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Copper	**39**		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Iron	**22000**	**B**	21		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Lead	**120**		0.53		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Magnesium	**120000**		53		mg/Kg	☼	09/19/24 09:42	09/23/24 15:30	5
Manganese	**750**	**B**	1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Nickel	**25**		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Potassium	**1700**		53		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Selenium	<1.1		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Silver	<0.53		0.53		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Sodium	**1800**		530		mg/Kg	☼	09/19/24 09:42	09/23/24 15:30	5
Thallium	**1.1**		1.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Vanadium	**27**		0.53		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1
Zinc	**140**		2.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.29**		0.017		mg/Kg	☼	09/20/24 17:35	09/23/24 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.34**		0.25		mg/Kg	☼	09/10/24 11:02	09/11/24 11:10	1
pH (SW846 9045D)	**8.75**		0.20		SU			09/11/24 13:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB48 (5-7.5)
Lab Sample ID: 500-256275-10
Date Collected: 09/05/24 11:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 94.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00087		0.0022	0.00087	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
1,1-Dichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
1,1-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
2-Butanone (MEK)	**0.022**		0.0054	0.0024	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
2-Hexanone	**0.0040**	**J**	0.0054	0.0033	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0054	0.0038	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Acetone	**0.096**		0.022	0.0091	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Benzene	<0.00068		0.0022	0.00068	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Bromodichloromethane	<0.00069		0.0022	0.00069	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Bromomethane	<0.0027		0.0054	0.0027	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Carbon disulfide	**0.0018**	**J**	0.0054	0.00099	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Carbon tetrachloride	<0.00073		0.0022	0.00073	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Chlorobenzene	<0.00091		0.0022	0.00091	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Chloromethane	<0.0010		0.0054	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
cis-1,2-Dichloroethene	<0.00087		0.0022	0.00087	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Methyl tert-butyl ether	<0.00070		0.0022	0.00070	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Styrene	<0.00097		0.0022	0.00097	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Tetrachloroethene	**0.0043**		0.0022	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Toluene	**0.00092**	**J**	0.0022	0.00043	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Xylenes, Total	**0.00093**	**J**	0.0043	0.00074	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
trans-1,2-Dichloroethene	<0.00082		0.0022	0.00082	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Trichloroethene	<0.00059		0.0022	0.00059	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1
Vinyl chloride	<0.00088		0.0022	0.00088	mg/Kg	☼	09/06/24 18:47	09/12/24 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*09/06/24 18:47*	*09/12/24 17:27*	*1*
4-Bromofluorobenzene (Surr)	*125*		*75 - 131*	*09/06/24 18:47*	*09/12/24 17:27*	*1*
Dibromofluoromethane	*82*		*75 - 126*	*09/06/24 18:47*	*09/12/24 17:27*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*09/06/24 18:47*	*09/12/24 17:27*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**5.9**	**F1 F2**	0.070	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Acenaphthylene	<0.012		0.070	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Anthracene	**11**	**F1 F2**	0.070	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Benzo[a]anthracene	**19**	**F2**	0.070	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Benzo[a]pyrene	**19**	**F2**	0.070	0.068	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Benzo[g,h,i]perylene	**8.0**	**F1 F2**	0.070	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Benzo[k]fluoranthene	**16**	**F2**	0.070	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2

Client Sample ID: SB48 (5-7.5)
Lab Sample ID: 500-256275-10
Date Collected: 09/05/24 11:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 94.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**19**	**F2**	0.070	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Dibenz(a,h)anthracene	**3.6**	**F2 F1**	0.070	0.070	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Fluorene	**5.8**	**F1 F2**	0.070	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Indeno[1,2,3-cd]pyrene	**9.3**	**F1 F2**	0.070	0.069	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Naphthalene	**1.6**	**F2 F1**	0.070	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
1,2,4-Trichlorobenzene	<0.050	F1	0.35	0.050	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
1,2-Dichlorobenzene	<0.029	F1	0.35	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
1,3-Dichlorobenzene	<0.032	F1	0.35	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
1,4-Dichlorobenzene	<0.033	F1	0.35	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2,4,5-Trichlorophenol	<0.027	F1	0.70	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2,4,6-Trichlorophenol	<0.024	F1 F2	0.70	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2,4-Dichlorophenol	<0.025	F1	0.70	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2,4-Dimethylphenol	<0.16		0.70	0.16	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2,4-Dinitrophenol	<0.41	F1	1.4	0.41	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2,4-Dinitrotoluene	<0.040		0.35	0.040	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2-Chlorophenol	<0.023	F1	0.35	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2-Methylnaphthalene	**1.4**	**F2 F1**	0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2-Methylphenol	<0.037		0.35	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2-Nitroaniline	<0.038		0.35	0.038	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
2-Nitrophenol	<0.048	F1	0.70	0.048	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
3,3'-Dichlorobenzidine	<0.058		0.35	0.058	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
3 & 4 Methylphenol	<0.052		0.35	0.052	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
3-Nitroaniline	<0.032		0.70	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
4,6-Dinitro-2-methylphenol	<0.40	F1	1.4	0.40	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
4-Bromophenyl phenyl ether	<0.048		0.35	0.048	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
4-Chloro-3-methylphenol	<0.027		0.70	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
4-Chloroaniline	<0.74		1.4	0.74	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
4-Chlorophenyl phenyl ether	<0.092		0.35	0.092	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
4-Nitroaniline	<0.052		0.70	0.052	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
4-Nitrophenol	<0.26	F1	1.4	0.26	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
bis(chloroisopropyl) ether	<0.051		0.35	0.051	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Bis(2-ethylhexyl) phthalate	<0.28		0.35	0.28	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Butyl benzyl phthalate	<0.035		0.35	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Carbazole	**4.8**	**F1 F2**	0.35	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Dibenzofuran	**3.5**	**F1 F2**	0.35	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Di-n-octyl phthalate	<0.49		0.70	0.49	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Hexachlorobutadiene	<0.040		0.35	0.040	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Hexachlorocyclopentadiene	<0.75	F1	1.4	0.75	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Hexachloroethane	<0.035	F1	0.35	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Nitrobenzene	<0.022		0.070	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB48 (5-7.5)
Lab Sample ID: 500-256275-10
Date Collected: 09/05/24 11:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 94.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
N-Nitrosodiphenylamine	<0.042		0.35	0.042	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Pentachlorophenol	<0.18	F1	1.4	0.18	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2
Phenol	<0.031		0.35	0.031	mg/Kg	☼	09/18/24 09:50	09/19/24 15:23	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*36*		*31 - 166*	*09/18/24 09:50*	*09/19/24 15:23*	*2*
Phenol-d5 (Surr)	*60*		*30 - 153*	*09/18/24 09:50*	*09/19/24 15:23*	*2*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*09/18/24 09:50*	*09/19/24 15:23*	*2*
2-Fluorobiphenyl (Surr)	*70*		*43 - 145*	*09/18/24 09:50*	*09/19/24 15:23*	*2*
2,4,6-Tribromophenol (Surr)	*2*	*S1-*	*31 - 143*	*09/18/24 09:50*	*09/19/24 15:23*	*2*
Terphenyl-d14 (Surr)	*75*		*42 - 157*	*09/18/24 09:50*	*09/19/24 15:23*	*2*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**20**		0.70	0.67	mg/Kg	☼	09/18/24 09:50	09/19/24 20:52	20
Fluoranthene	**41**		0.70	0.16	mg/Kg	☼	09/18/24 09:50	09/19/24 20:52	20
Phenanthrene	**35**		0.70	0.15	mg/Kg	☼	09/18/24 09:50	09/19/24 20:52	20
Pyrene	**34**		0.70	0.19	mg/Kg	☼	09/18/24 09:50	09/19/24 20:52	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*0*	*S1-*	*31 - 166*	*09/18/24 09:50*	*09/19/24 20:52*	*20*
Phenol-d5 (Surr)	*0*	*S1-*	*30 - 153*	*09/18/24 09:50*	*09/19/24 20:52*	*20*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*37 - 147*	*09/18/24 09:50*	*09/19/24 20:52*	*20*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*43 - 145*	*09/18/24 09:50*	*09/19/24 20:52*	*20*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/18/24 09:50*	*09/19/24 20:52*	*20*
Terphenyl-d14 (Surr)	*0*	*S1-*	*42 - 157*	*09/18/24 09:50*	*09/19/24 20:52*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0092		0.017	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
4,4'-DDE	<0.0088		0.017	0.0088	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
4,4'-DDT	<0.0081		0.017	0.0081	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
alpha-BHC	<0.0096		0.017	0.0096	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
Chlordane (technical)	<0.032		0.068	0.032	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
delta-BHC	<0.0082		0.017	0.0082	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
Endosulfan II	<0.0094		0.017	0.0094	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
Endosulfan sulfate	<0.0095		0.017	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
Endrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
Endrin aldehyde	<0.0098		0.017	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
Endrin ketone	<0.0083		0.017	0.0083	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
gamma-BHC (Lindane)	<0.0085		0.017	0.0085	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
Heptachlor	<0.0093		0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
Heptachlor epoxide	<0.0092		0.017	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10

Client Sample ID: SB48 (5-7.5)
Date Collected: 09/05/24 11:52
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-10
Matrix: Solid
Percent Solids: 94.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.011		0.084	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10
Toxaphene	<0.068		0.17	0.068	mg/Kg	☼	09/17/24 07:08	09/24/24 20:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*1097*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 20:19*	*10*
Tetrachloro-m-xylene	*68*		*30 - 121*	*09/17/24 07:08*	*09/24/24 20:19*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:12	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:12	10
PCB-1232	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:12	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:12	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:12	10
PCB-1254	**0.73**		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:12	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:12	10
Polychlorinated biphenyls, Total	**0.73**		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*112*		*49 - 129*	*09/17/24 07:08*	*09/24/24 16:12*	*10*
DCB Decachlorobiphenyl	*29*	*S1-*	*37 - 121*	*09/17/24 07:08*	*09/24/24 16:12*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7200**		100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:29	1
Arsenic	**8.0**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:29	1
Barium	**89**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:29	1
Beryllium	<2.0		2.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Cadmium	**1.9**		1.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Calcium	**110000**		100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Chromium	**200**		5.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Cobalt	**6.0**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Copper	**130**		5.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Iron	**69000**	**B**	100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Lead	**210**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Magnesium	**38000**		51		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Manganese	**3700**	**B**	5.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Nickel	**59**		5.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Potassium	**830**		51		mg/Kg	☼	09/19/24 09:42	09/19/24 23:29	1
Selenium	<5.1		5.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Silver	<2.5		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Sodium	**620**		510		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Thallium	**6.6**		5.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Vanadium	**50**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:34	5
Zinc	**1000**		2.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.099**		0.016		mg/Kg	☼	09/20/24 17:35	09/23/24 08:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB48 (5-7.5)
Lab Sample ID: 500-256275-10
Date Collected: 09/05/24 11:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 94.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	1.4		0.24		mg/Kg	☼	09/10/24 11:02	09/11/24 11:12	1
pH (SW846 9045D)	10.79		0.20		SU			09/11/24 13:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB49 (0-3)
Lab Sample ID: 500-256275-11
Date Collected: 09/05/24 12:43
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 91.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00087		0.0022	0.00087	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
1,1-Dichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
1,1-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
2-Butanone (MEK)	<0.0024		0.0054	0.0024	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0054	0.0038	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Acetone	**0.021**	**J**	0.022	0.0090	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Benzene	<0.00068		0.0022	0.00068	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Bromodichloromethane	<0.00069		0.0022	0.00069	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Bromomethane	<0.0026		0.0054	0.0026	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Carbon disulfide	<0.00099		0.0054	0.00099	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Carbon tetrachloride	<0.00073		0.0022	0.00073	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Chlorobenzene	<0.00091		0.0022	0.00091	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Chloroform	<0.0015		0.0022	0.0015	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Chloromethane	<0.0010		0.0054	0.0010	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
cis-1,2-Dichloroethene	<0.00087		0.0022	0.00087	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Methyl tert-butyl ether	<0.00069		0.0022	0.00069	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Methylene Chloride	<0.0023	*-	0.0054	0.0023	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Styrene	<0.00097		0.0022	0.00097	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Toluene	<0.00043		0.0022	0.00043	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Xylenes, Total	<0.00074		0.0043	0.00074	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
trans-1,2-Dichloroethene	<0.00081		0.0022	0.00081	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Trichloroethene	<0.00059		0.0022	0.00059	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1
Vinyl chloride	<0.00088		0.0022	0.00088	mg/Kg	☼	09/06/24 18:47	09/13/24 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*09/06/24 18:47*	*09/13/24 13:06*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*	*09/06/24 18:47*	*09/13/24 13:06*	*1*
Dibromofluoromethane	*81*		*75 - 126*	*09/06/24 18:47*	*09/13/24 13:06*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*09/06/24 18:47*	*09/13/24 13:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0074		0.036	0.0074	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Acenaphthylene	<0.0061		0.036	0.0061	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Anthracene	**0.031**	**J**	0.036	0.0074	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Benzo[a]anthracene	**0.16**		0.036	0.0077	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Benzo[a]pyrene	**0.19**		0.036	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Benzo[b]fluoranthene	**0.18**		0.036	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Benzo[g,h,i]perylene	**0.16**		0.036	0.0078	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1

Client Sample ID: SB49 (0-3)
Lab Sample ID: 500-256275-11

Date Collected: 09/05/24 12:43
Matrix: Solid

Date Received: 09/06/24 12:35
Percent Solids: 91.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.20**		0.036	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Chrysene	**0.17**		0.036	0.0095	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Fluoranthene	**0.29**		0.036	0.0084	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Fluorene	<0.011		0.036	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Indeno[1,2,3-cd]pyrene	**0.18**		0.036	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Naphthalene	**0.017**	**J**	0.036	0.0065	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Phenanthrene	**0.27**		0.036	0.0079	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Pyrene	**0.23**		0.036	0.0099	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2,4-Dimethylphenol	<0.081		0.36	0.081	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2-Methylnaphthalene	<0.0073		0.073	0.0073	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
3-Nitroaniline	<0.016		0.36	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Carbazole	**0.015**	**J**	0.18	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Dimethyl phthalate	<0.0079		0.18	0.0079	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Hexachlorobenzene	<0.0069		0.073	0.0069	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB49 (0-3)
Lab Sample ID: 500-256275-11
Date Collected: 09/05/24 12:43
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 91.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.73	0.38	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
N-Nitrosodi-n-propylamine	<0.0071		0.073	0.0071	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Pentachlorophenol	<0.091		0.73	0.091	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*44*		*31 - 166*	*09/18/24 09:50*	*09/19/24 15:51*	*1*
Phenol-d5 (Surr)	*60*		*30 - 153*	*09/18/24 09:50*	*09/19/24 15:51*	*1*
Nitrobenzene-d5 (Surr)	*56*		*37 - 147*	*09/18/24 09:50*	*09/19/24 15:51*	*1*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*09/18/24 09:50*	*09/19/24 15:51*	*1*
2,4,6-Tribromophenol (Surr)	*7*	*S1-*	*31 - 143*	*09/18/24 09:50*	*09/19/24 15:51*	*1*
Terphenyl-d14 (Surr)	*82*		*42 - 157*	*09/18/24 09:50*	*09/19/24 15:51*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Endosulfan sulfate	<0.0098		0.018	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/17/24 07:08	09/24/24 20:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*228*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 20:31*	*10*
Tetrachloro-m-xylene	*77*		*30 - 121*	*09/17/24 07:08*	*09/24/24 20:31*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:27	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:27	10

Client Sample ID: SB49 (0-3)
Lab Sample ID: 500-256275-11
Date Collected: 09/05/24 12:43
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 91.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:27	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:27	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:27	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:27	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:27	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/17/24 07:08	09/24/24 16:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*49 - 129*	*09/17/24 07:08*	*09/24/24 16:27*	*10*
DCB Decachlorobiphenyl	*36*	*S1-*	*37 - 121*	*09/17/24 07:08*	*09/24/24 16:27*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:39	5
Antimony	<2.1		2.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1
Arsenic	**7.1**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1
Barium	**180**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1
Beryllium	**2.9**		0.42		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1
Cadmium	**0.61**		0.21		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1
Calcium	**100000**		100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:39	5
Chromium	**32**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1
Cobalt	**5.4**		2.6		mg/Kg	☼	09/19/24 09:42	09/23/24 15:39	5
Copper	**19**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1
Iron	**43000**	**B**	21		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1
Lead	**51**		2.6		mg/Kg	☼	09/19/24 09:42	09/23/24 15:39	5
Magnesium	**19000**		52		mg/Kg	☼	09/19/24 09:42	09/23/24 15:39	5
Manganese	**4500**	**B**	5.2		mg/Kg	☼	09/19/24 09:42	09/23/24 15:39	5
Nickel	**100**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1
Potassium	**1400**		52		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1
Selenium	**2.8**		1.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1
Silver	<2.6		2.6		mg/Kg	☼	09/19/24 09:42	09/23/24 15:39	5
Sodium	**830**		520		mg/Kg	☼	09/19/24 09:42	09/23/24 15:39	5
Thallium	**7.6**		5.2		mg/Kg	☼	09/19/24 09:42	09/23/24 15:39	5
Vanadium	**36**		0.52		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1
Zinc	**48**		2.1		mg/Kg	☼	09/19/24 09:42	09/19/24 23:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017	F1	0.017		mg/Kg	☼	09/20/24 17:35	09/23/24 08:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**27**		2.4		mg/Kg	☼	09/10/24 11:02	09/11/24 12:10	10
Sulfide (SW846 9034)	**1600**		33		mg/Kg	☼	09/11/24 08:43	09/11/24 13:09	1
pH (SW846 9045D)	**11.48**		0.20		SU			09/11/24 13:53	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB49 (10-12.5)
Lab Sample ID: 500-256275-12
Date Collected: 09/05/24 13:07
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 77.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
1,1,2-Trichloroethane	<0.00093		0.0025	0.00093	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
1,1-Dichloroethane	<0.00094		0.0025	0.00094	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
1,2-Dichloroethane	<0.0016		0.0062	0.0016	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
1,2-Dichloropropane	<0.00064		0.0025	0.00064	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
2-Butanone (MEK)	<0.0027		0.0062	0.0027	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
2-Hexanone	<0.0038		0.0062	0.0038	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0062	0.0044	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Acetone	<0.010		0.025	0.010	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Benzene	<0.00078		0.0025	0.00078	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Bromodichloromethane	<0.00080		0.0025	0.00080	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Bromoform	<0.0015		0.0025	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Bromomethane	<0.0031		0.0062	0.0031	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Carbon disulfide	**0.0058**	**J**	0.0062	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Carbon tetrachloride	<0.00085		0.0025	0.00085	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Chlorobenzene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Chloroethane	<0.0020		0.0062	0.0020	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Chloromethane	<0.0012		0.0062	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
cis-1,2-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Dibromochloromethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Methyl tert-butyl ether	<0.00080		0.0025	0.00080	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Methylene Chloride	<0.0027		0.0062	0.0027	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Styrene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Toluene	<0.00050		0.0025	0.00050	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Xylenes, Total	<0.00085		0.0050	0.00085	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
trans-1,2-Dichloroethene	<0.00094		0.0025	0.00094	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Trichloroethene	<0.00068		0.0025	0.00068	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*09/06/24 18:47*	*09/12/24 18:17*	*1*
4-Bromofluorobenzene (Surr)	*124*		*75 - 131*	*09/06/24 18:47*	*09/12/24 18:17*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*09/06/24 18:47*	*09/12/24 18:17*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*	*09/06/24 18:47*	*09/12/24 18:17*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0086		0.042	0.0086	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Acenaphthylene	<0.0072		0.042	0.0072	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Anthracene	**0.011**	**J**	0.042	0.0087	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Benzo[a]anthracene	**0.048**		0.042	0.0090	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Benzo[a]pyrene	<0.041		0.042	0.041	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Benzo[b]fluoranthene	**0.043**		0.042	0.040	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Benzo[g,h,i]perylene	**0.034**	**J**	0.042	0.0092	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB49 (10-12.5)
Lab Sample ID: 500-256275-12
Date Collected: 09/05/24 13:07
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 77.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.044**		0.042	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Chrysene	**0.056**		0.042	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Dibenz(a,h)anthracene	<0.042		0.042	0.042	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Fluoranthene	**0.088**		0.042	0.0099	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Fluorene	<0.013		0.042	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Indeno[1,2,3-cd]pyrene	<0.041		0.042	0.041	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Naphthalene	**0.014**	**J**	0.042	0.0077	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Phenanthrene	**0.13**		0.042	0.0093	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Pyrene	**0.074**		0.042	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
1,2,4-Trichlorobenzene	<0.030		0.21	0.030	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
1,2-Dichlorobenzene	<0.017		0.21	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
1,3-Dichlorobenzene	<0.019		0.21	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
1,4-Dichlorobenzene	<0.020		0.21	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2,4,5-Trichlorophenol	<0.016		0.42	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2,4,6-Trichlorophenol	<0.014		0.42	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2,4-Dichlorophenol	<0.015		0.42	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2,4-Dimethylphenol	<0.095		0.42	0.095	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2,4-Dinitrophenol	<0.25		0.86	0.25	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2,4-Dinitrotoluene	<0.024		0.21	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2,6-Dinitrotoluene	<0.014		0.21	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2-Chloronaphthalene	<0.016		0.21	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2-Chlorophenol	<0.014		0.21	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2-Methylnaphthalene	<0.0085		0.086	0.0085	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2-Methylphenol	<0.022		0.21	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2-Nitroaniline	<0.023		0.21	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
2-Nitrophenol	<0.029		0.42	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
3,3'-Dichlorobenzidine	<0.035		0.21	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
3 & 4 Methylphenol	<0.031		0.21	0.031	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
3-Nitroaniline	<0.019		0.42	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
4,6-Dinitro-2-methylphenol	<0.24		0.86	0.24	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
4-Bromophenyl phenyl ether	<0.029		0.21	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
4-Chloro-3-methylphenol	<0.017		0.42	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
4-Chloroaniline	<0.45		0.86	0.45	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
4-Chlorophenyl phenyl ether	<0.056		0.21	0.056	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
4-Nitroaniline	<0.031		0.42	0.031	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
4-Nitrophenol	<0.16		0.86	0.16	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Bis(2-chloroethoxy)methane	<0.016		0.21	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Bis(2-chloroethyl)ether	<0.020		0.21	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
bis(chloroisopropyl) ether	<0.030		0.21	0.030	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Bis(2-ethylhexyl) phthalate	<0.17		0.21	0.17	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Butyl benzyl phthalate	<0.021		0.21	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Carbazole	<0.017		0.21	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Dibenzofuran	<0.015		0.21	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Diethyl phthalate	<0.019		0.21	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Dimethyl phthalate	<0.0092		0.21	0.0092	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Di-n-butyl phthalate	<0.013		0.21	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Di-n-octyl phthalate	<0.30		0.42	0.30	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Hexachlorobenzene	<0.0081		0.086	0.0081	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Hexachlorobutadiene	<0.024		0.21	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB49 (10-12.5)
Lab Sample ID: 500-256275-12
Date Collected: 09/05/24 13:07
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 77.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.45		0.86	0.45	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Hexachloroethane	<0.021		0.21	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Isophorone	<0.022		0.21	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Nitrobenzene	<0.013		0.042	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
N-Nitrosodi-n-propylamine	<0.0084		0.086	0.0084	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
N-Nitrosodiphenylamine	<0.025		0.21	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Pentachlorophenol	<0.11		0.86	0.11	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1
Phenol	<0.018		0.21	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*44*		*31 - 166*	*09/18/24 09:50*	*09/19/24 16:16*	*1*
Phenol-d5 (Surr)	*43*		*30 - 153*	*09/18/24 09:50*	*09/19/24 16:16*	*1*
Nitrobenzene-d5 (Surr)	*42*		*37 - 147*	*09/18/24 09:50*	*09/19/24 16:16*	*1*
2-Fluorobiphenyl (Surr)	*47*		*43 - 145*	*09/18/24 09:50*	*09/19/24 16:16*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*31 - 143*	*09/18/24 09:50*	*09/19/24 16:16*	*1*
Terphenyl-d14 (Surr)	*62*		*42 - 157*	*09/18/24 09:50*	*09/19/24 16:16*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
4,4'-DDE	<0.011		0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
4,4'-DDT	<0.010		0.021	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Aldrin	<0.015		0.021	0.015	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
alpha-BHC	<0.012		0.021	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
alpha-Chlordane	<0.011		0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
beta-BHC	<0.017		0.021	0.017	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Chlordane (technical)	<0.040		0.084	0.040	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
delta-BHC	<0.010		0.021	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Dieldrin	<0.011		0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Endosulfan I	<0.011		0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Endosulfan II	<0.012		0.021	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Endosulfan sulfate	<0.012		0.021	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Endrin	<0.011		0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Endrin aldehyde	<0.012		0.021	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Endrin ketone	<0.010		0.021	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
gamma-BHC (Lindane)	<0.010		0.021	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
gamma-Chlordane	<0.012		0.021	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Heptachlor	<0.011		0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Heptachlor epoxide	<0.011		0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Methoxychlor	<0.014		0.10	0.014	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10
Toxaphene	<0.084		0.21	0.084	mg/Kg	☼	09/17/24 07:08	09/24/24 20:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*123*		*33 - 148*	*09/17/24 07:08*	*09/24/24 20:43*	*10*
Tetrachloro-m-xylene	*100*		*30 - 121*	*09/17/24 07:08*	*09/24/24 20:43*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.21		0.21		mg/Kg	☼	09/17/24 07:08	09/24/24 16:42	10
PCB-1221	<0.21		0.21		mg/Kg	☼	09/17/24 07:08	09/24/24 16:42	10

Client Sample ID: SB49 (10-12.5)
Lab Sample ID: 500-256275-12

Date Collected: 09/05/24 13:07
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 77.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.21		0.21		mg/Kg	☼	09/17/24 07:08	09/24/24 16:42	10
PCB-1242	<0.21		0.21		mg/Kg	☼	09/17/24 07:08	09/24/24 16:42	10
PCB-1248	<0.21		0.21		mg/Kg	☼	09/17/24 07:08	09/24/24 16:42	10
PCB-1254	<0.21		0.21		mg/Kg	☼	09/17/24 07:08	09/24/24 16:42	10
PCB-1260	<0.21		0.21		mg/Kg	☼	09/17/24 07:08	09/24/24 16:42	10
Polychlorinated biphenyls, Total	<0.21		0.21		mg/Kg	☼	09/17/24 07:08	09/24/24 16:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*49 - 129*	*09/17/24 07:08*	*09/24/24 16:42*	*10*
DCB Decachlorobiphenyl	*41*		*37 - 121*	*09/17/24 07:08*	*09/24/24 16:42*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**24000**		120		mg/Kg	☼	09/19/24 09:42	09/23/24 15:43	5
Antimony	<2.3		2.3		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1
Arsenic	**7.3**		1.2		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1
Barium	**310**		1.2		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1
Beryllium	**3.3**		0.46		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1
Cadmium	**0.32**		0.23		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1
Calcium	**170000**		120		mg/Kg	☼	09/19/24 09:42	09/23/24 15:43	5
Chromium	**100**		1.2		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1
Cobalt	**4.4**		2.9		mg/Kg	☼	09/19/24 09:42	09/23/24 15:43	5
Copper	**12**		1.2		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1
Iron	**36000**	**B**	23		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1
Lead	**44**		2.9		mg/Kg	☼	09/19/24 09:42	09/23/24 15:43	5
Magnesium	**31000**		58		mg/Kg	☼	09/19/24 09:42	09/23/24 15:43	5
Manganese	**15000**	**B**	23		mg/Kg	☼	09/19/24 09:42	09/24/24 16:00	20
Nickel	**19**		1.2		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1
Potassium	**1600**		58		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1
Selenium	**5.2**		1.2		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1
Silver	<2.9		2.9		mg/Kg	☼	09/19/24 09:42	09/23/24 15:43	5
Sodium	**810**		580		mg/Kg	☼	09/19/24 09:42	09/23/24 15:43	5
Thallium	**18**		5.8		mg/Kg	☼	09/19/24 09:42	09/23/24 15:43	5
Vanadium	**110**		0.58		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1
Zinc	**98**		2.3		mg/Kg	☼	09/19/24 09:42	09/19/24 23:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	09/20/24 17:35	09/23/24 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.4**		0.30		mg/Kg	☼	09/10/24 11:02	09/11/24 11:15	1
pH (SW846 9045D)	**8.15**		0.20		SU			09/11/24 13:56	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB50 (0-3)
Lab Sample ID: 500-256275-13
Date Collected: 09/05/24 13:47
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 95.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00091		0.0022	0.00091	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
1,1,2-Trichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
1,1-Dichloroethane	<0.00085		0.0022	0.00085	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
1,1-Dichloroethene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
1,2-Dichloroethane	<0.0015		0.0056	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
1,2-Dichloropropane	<0.00058		0.0022	0.00058	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
2-Butanone (MEK)	<0.0025		0.0056	0.0025	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Acetone	<0.0094		0.022	0.0094	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Benzene	<0.00071		0.0022	0.00071	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Bromodichloromethane	<0.00072		0.0022	0.00072	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Bromomethane	<0.0028		0.0056	0.0028	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Carbon disulfide	**0.0016**	**J**	0.0056	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Carbon tetrachloride	<0.00077		0.0022	0.00077	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Chlorobenzene	<0.00095		0.0022	0.00095	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
cis-1,2-Dichloroethene	<0.00091		0.0022	0.00091	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Methyl tert-butyl ether	<0.00073		0.0022	0.00073	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Styrene	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Tetrachloroethene	<0.0013		0.0022	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Toluene	<0.00045		0.0022	0.00045	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Xylenes, Total	<0.00077		0.0045	0.00077	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
trans-1,2-Dichloroethene	<0.00085		0.0022	0.00085	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Trichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1
Vinyl chloride	<0.00092		0.0022	0.00092	mg/Kg	☼	09/06/24 18:47	09/12/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*09/06/24 18:47*	*09/12/24 18:42*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*09/06/24 18:47*	*09/12/24 18:42*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*09/06/24 18:47*	*09/12/24 18:42*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*09/06/24 18:47*	*09/12/24 18:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.011**	**J**	0.033	0.0068	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Acenaphthylene	**0.016**	**J**	0.033	0.0057	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Anthracene	**0.034**		0.033	0.0069	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Benzo[a]anthracene	**0.36**		0.033	0.0071	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Benzo[a]pyrene	**0.31**		0.033	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Benzo[b]fluoranthene	**0.88**		0.033	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Benzo[g,h,i]perylene	**0.38**		0.033	0.0073	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB50 (0-3)
Lab Sample ID: 500-256275-13
Date Collected: 09/05/24 13:47
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 95.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.40**		0.033	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Chrysene	**0.72**		0.033	0.0089	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Dibenz(a,h)anthracene	**0.16**		0.033	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Fluoranthene	**0.55**		0.033	0.0078	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Fluorene	**0.013**	**J**	0.033	0.0099	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Indeno[1,2,3-cd]pyrene	**0.38**		0.033	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Naphthalene	**0.058**		0.033	0.0061	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Phenanthrene	**0.48**		0.033	0.0073	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Pyrene	**0.46**		0.033	0.0092	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2,4-Dimethylphenol	<0.075		0.33	0.075	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2,4-Dinitrophenol	<0.19		0.68	0.19	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2-Methylnaphthalene	**0.14**		0.068	0.0067	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
4,6-Dinitro-2-methylphenol	<0.19		0.68	0.19	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
4-Chloroaniline	<0.35		0.68	0.35	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
4-Nitrophenol	<0.12		0.68	0.12	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Carbazole	**0.028**	**J**	0.17	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Dibenzofuran	**0.038**	**J**	0.17	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Dimethyl phthalate	<0.0073		0.17	0.0073	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Hexachlorobenzene	<0.0064		0.068	0.0064	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1

Client Sample ID: SB50 (0-3)
Lab Sample ID: 500-256275-13

Date Collected: 09/05/24 13:47
Matrix: Solid

Date Received: 09/06/24 12:35
Percent Solids: 95.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.36		0.68	0.36	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Isophorone	<0.017		0.17	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
N-Nitrosodi-n-propylamine	<0.0066		0.068	0.0066	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Pentachlorophenol	<0.084		0.68	0.084	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*31 - 166*	*09/18/24 09:50*	*09/19/24 16:41*	*1*
Phenol-d5 (Surr)	*61*		*30 - 153*	*09/18/24 09:50*	*09/19/24 16:41*	*1*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*09/18/24 09:50*	*09/19/24 16:41*	*1*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/18/24 09:50*	*09/19/24 16:41*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*31 - 143*	*09/18/24 09:50*	*09/19/24 16:41*	*1*
Terphenyl-d14 (Surr)	*84*		*42 - 157*	*09/18/24 09:50*	*09/19/24 16:41*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0089		0.017	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
4,4'-DDE	<0.0085		0.017	0.0085	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
4,4'-DDT	<0.0079	F1	0.017	0.0079	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Aldrin	<0.011	F1	0.017	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
alpha-BHC	<0.0093	F1	0.017	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
alpha-Chlordane	<0.0089		0.017	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
beta-BHC	<0.013	F1	0.017	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Chlordane (technical)	<0.031		0.066	0.031	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
delta-BHC	<0.0079		0.017	0.0079	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Dieldrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Endosulfan I	<0.0089	F1	0.017	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Endosulfan II	<0.0091	F1	0.017	0.0091	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Endosulfan sulfate	<0.0092		0.017	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Endrin	<0.0084		0.017	0.0084	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Endrin aldehyde	<0.0094	F1	0.017	0.0094	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Endrin ketone	<0.0081		0.017	0.0081	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
gamma-BHC (Lindane)	<0.0082		0.017	0.0082	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
gamma-Chlordane	<0.0095	F1	0.017	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Heptachlor	<0.0090	F1	0.017	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Heptachlor epoxide	<0.0089	F1 F2	0.017	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Methoxychlor	<0.011	F1	0.081	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10
Toxaphene	<0.066		0.16	0.066	mg/Kg	☼	09/17/24 07:08	09/24/24 20:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*161*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 20:54*	*10*
Tetrachloro-m-xylene	*57*		*30 - 121*	*09/17/24 07:08*	*09/24/24 20:54*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.16	F1	0.16		mg/Kg	☼	09/17/24 07:08	09/25/24 11:44	10
PCB-1221	<0.16		0.16		mg/Kg	☼	09/17/24 07:08	09/25/24 11:44	10

Client Sample ID: SB50 (0-3)
Lab Sample ID: 500-256275-13

Date Collected: 09/05/24 13:47
Matrix: Solid

Date Received: 09/06/24 12:35
Percent Solids: 95.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.16		0.16		mg/Kg	☼	09/17/24 07:08	09/25/24 11:44	10
PCB-1242	<0.16		0.16		mg/Kg	☼	09/17/24 07:08	09/25/24 11:44	10
PCB-1248	<0.16		0.16		mg/Kg	☼	09/17/24 07:08	09/25/24 11:44	10
PCB-1254	<0.16		0.16		mg/Kg	☼	09/17/24 07:08	09/25/24 11:44	10
PCB-1260	<0.16	F1	0.16		mg/Kg	☼	09/17/24 07:08	09/25/24 11:44	10
Polychlorinated biphenyls, Total	<0.16		0.16		mg/Kg	☼	09/17/24 07:08	09/25/24 11:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*49 - 129*	*09/17/24 07:08*	*09/25/24 11:44*	*10*
DCB Decachlorobiphenyl	*55*		*37 - 121*	*09/17/24 07:08*	*09/25/24 11:44*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		98		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:42	1
Arsenic	**11**		0.98		mg/Kg	☼	09/19/24 09:42	09/19/24 23:42	1
Barium	**170**		0.98		mg/Kg	☼	09/19/24 09:42	09/19/24 23:42	1
Beryllium	**3.2**		2.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Cadmium	<0.98		0.98		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Calcium	**140000**		98		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Chromium	**140**		4.9		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Cobalt	**6.9**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Copper	**42**		4.9		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Iron	**110000**	**B**	98		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Lead	**55**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Magnesium	**27000**		49		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Manganese	**13000**	**B**	20		mg/Kg	☼	09/19/24 09:42	09/24/24 16:13	20
Nickel	**17**		4.9		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Potassium	**1400**		49		mg/Kg	☼	09/19/24 09:42	09/19/24 23:42	1
Selenium	**4.9**		4.9		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Silver	<2.5		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Sodium	**590**		490		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Thallium	**16**		4.9		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Vanadium	**120**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:48	5
Zinc	**160**		2.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:42	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.063**		0.016		mg/Kg	☼	09/20/24 17:35	09/23/24 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**18**		2.2		mg/Kg	☼	09/10/24 11:02	09/11/24 12:15	10
pH (SW846 9045D)	**8.67**		0.20		SU			09/11/24 13:58	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB50 (7.5-10)
Lab Sample ID: 500-256275-14
Date Collected: 09/05/24 13:58
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 89.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0028	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
1,1,2-Trichloroethane	<0.0010		0.0028	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
1,1-Dichloroethane	<0.0010		0.0028	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
1,1-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
1,2-Dichloroethane	<0.0018		0.0069	0.0018	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
1,2-Dichloropropane	<0.00071		0.0028	0.00071	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
2-Butanone (MEK)	<0.0030		0.0069	0.0030	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
2-Hexanone	<0.0042		0.0069	0.0042	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0069	0.0049	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Acetone	<0.012		0.028	0.012	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Benzene	<0.00087		0.0028	0.00087	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Bromodichloromethane	<0.00088		0.0028	0.00088	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Bromoform	<0.0016		0.0028	0.0016	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Bromomethane	<0.0034		0.0069	0.0034	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Carbon disulfide	**0.034**		0.0069	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Carbon tetrachloride	<0.00094		0.0028	0.00094	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Chlorobenzene	<0.0012		0.0028	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Chloroethane	<0.0023		0.0069	0.0023	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Chloroform	<0.0020		0.0028	0.0020	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Chloromethane	<0.0013		0.0069	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
cis-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
1,3-Dichloropropene, Total	<0.0013		0.0028	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Dibromochloromethane	<0.0013		0.0028	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Ethylbenzene	<0.0014		0.0028	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Methyl tert-butyl ether	<0.00089		0.0028	0.00089	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Methylene Chloride	<0.0029		0.0069	0.0029	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Styrene	<0.0012		0.0028	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Tetrachloroethene	<0.0015		0.0028	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Toluene	<0.00055		0.0028	0.00055	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Xylenes, Total	<0.00094		0.0055	0.00094	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
trans-1,2-Dichloroethene	<0.0010		0.0028	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Trichloroethene	<0.00075		0.0028	0.00075	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1
Vinyl chloride	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/06/24 18:47*	*09/12/24 19:06*	*1*
4-Bromofluorobenzene (Surr)	*125*		*75 - 131*	*09/06/24 18:47*	*09/12/24 19:06*	*1*
Dibromofluoromethane	*110*		*75 - 126*	*09/06/24 18:47*	*09/12/24 19:06*	*1*
Toluene-d8 (Surr)	*116*		*75 - 124*	*09/06/24 18:47*	*09/12/24 19:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.029**	**J**	0.073	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Acenaphthylene	**0.26**		0.073	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Anthracene	**0.48**		0.073	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Benzo[a]anthracene	**2.0**		0.073	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Benzo[a]pyrene	**2.1**		0.073	0.071	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Benzo[b]fluoranthene	**2.3**		0.073	0.070	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Benzo[g,h,i]perylene	**1.6**		0.073	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB50 (7.5-10)
Lab Sample ID: 500-256275-14
Date Collected: 09/05/24 13:58
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 89.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**2.4**		0.073	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Chrysene	**1.9**		0.073	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Dibenz(a,h)anthracene	**0.40**		0.073	0.073	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Fluoranthene	**4.4**		0.073	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Fluorene	**0.17**		0.073	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Indeno[1,2,3-cd]pyrene	**1.9**		0.073	0.072	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Naphthalene	**0.081**		0.073	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Phenanthrene	**1.6**		0.073	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Pyrene	**3.3**		0.073	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
1,2,4-Trichlorobenzene	<0.053		0.37	0.053	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
1,3-Dichlorobenzene	<0.033		0.37	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
1,4-Dichlorobenzene	<0.035		0.37	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2,4,5-Trichlorophenol	<0.028		0.73	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2,4,6-Trichlorophenol	<0.025		0.73	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2,4-Dichlorophenol	<0.026		0.73	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2,4-Dimethylphenol	<0.17		0.73	0.17	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2,4-Dinitrophenol	<0.43		1.5	0.43	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2,4-Dinitrotoluene	<0.042		0.37	0.042	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2-Chloronaphthalene	<0.028		0.37	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2-Chlorophenol	<0.024		0.37	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2-Methylnaphthalene	<0.015		0.15	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2-Methylphenol	<0.039		0.37	0.039	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2-Nitroaniline	<0.040		0.37	0.040	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
2-Nitrophenol	<0.050		0.73	0.050	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
3,3'-Dichlorobenzidine	<0.060		0.37	0.060	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
3 & 4 Methylphenol	<0.054		0.37	0.054	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
3-Nitroaniline	<0.034		0.73	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
4,6-Dinitro-2-methylphenol	<0.42		1.5	0.42	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
4-Bromophenyl phenyl ether	<0.050		0.37	0.050	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
4-Chloro-3-methylphenol	<0.029		0.73	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
4-Chloroaniline	<0.77		1.5	0.77	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
4-Chlorophenyl phenyl ether	<0.097		0.37	0.097	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
4-Nitroaniline	<0.054		0.73	0.054	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Bis(2-chloroethoxy)methane	<0.028		0.37	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Bis(2-chloroethyl)ether	<0.034		0.37	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
bis(chloroisopropyl) ether	<0.053		0.37	0.053	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Bis(2-ethylhexyl) phthalate	<0.29		0.37	0.29	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Butyl benzyl phthalate	<0.037		0.37	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Carbazole	**0.14**	**J**	0.37	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Dibenzofuran	**0.092**	**J**	0.37	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Diethyl phthalate	<0.034		0.37	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Di-n-butyl phthalate	<0.023		0.37	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Di-n-octyl phthalate	<0.52		0.73	0.52	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Hexachlorobutadiene	<0.042		0.37	0.042	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2

Client Sample ID: SB50 (7.5-10)
Lab Sample ID: 500-256275-14
Date Collected: 09/05/24 13:58
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 89.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.78		1.5	0.78	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Hexachloroethane	<0.037		0.37	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Isophorone	<0.038		0.37	0.038	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Nitrobenzene	<0.023		0.073	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
N-Nitrosodiphenylamine	<0.044		0.37	0.044	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2
Phenol	<0.032		0.37	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 19:11	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*34*		*31 - 166*	*09/18/24 09:50*	*09/19/24 19:11*	*2*
Phenol-d5 (Surr)	*38*		*30 - 153*	*09/18/24 09:50*	*09/19/24 19:11*	*2*
Nitrobenzene-d5 (Surr)	*36*	*S1-*	*37 - 147*	*09/18/24 09:50*	*09/19/24 19:11*	*2*
2-Fluorobiphenyl (Surr)	*44*		*43 - 145*	*09/18/24 09:50*	*09/19/24 19:11*	*2*
2,4,6-Tribromophenol (Surr)	*55*		*31 - 143*	*09/18/24 09:50*	*09/19/24 19:11*	*2*
Terphenyl-d14 (Surr)	*63*		*42 - 157*	*09/18/24 09:50*	*09/19/24 19:11*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
4,4'-DDE	<0.0096		0.019	0.0096	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Chlordane (technical)	<0.035		0.074	0.035	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Endrin	<0.0095		0.019	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
gamma-BHC (Lindane)	<0.0093		0.019	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/17/24 07:08	09/24/24 21:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*490*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 21:29*	*10*
Tetrachloro-m-xylene	*63*		*30 - 121*	*09/17/24 07:08*	*09/24/24 21:29*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 12:28	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 12:28	10

Client Sample ID: SB50 (7.5-10)
Date Collected: 09/05/24 13:58
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-14
Matrix: Solid
Percent Solids: 89.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 12:28	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 12:28	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 12:28	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 12:28	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 12:28	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 12:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*49 - 129*	*09/17/24 07:08*	*09/25/24 12:28*	*10*
DCB Decachlorobiphenyl	*78*		*37 - 121*	*09/17/24 07:08*	*09/25/24 12:28*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18000**		99		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Antimony	**47**		2.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:47	1
Arsenic	**11**		0.99		mg/Kg	☼	09/19/24 09:42	09/19/24 23:47	1
Barium	**160**		0.99		mg/Kg	☼	09/19/24 09:42	09/19/24 23:47	1
Beryllium	**4.8**		2.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Cadmium	<0.99		0.99		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Calcium	**100000**		99		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Chromium	**120**		5.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Cobalt	**12**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Copper	**170**		5.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Iron	**86000**	**B**	99		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Lead	**330**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Magnesium	**32000**		50		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Manganese	**8600**	**B**	5.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Nickel	**28**		5.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Potassium	**1100**		50		mg/Kg	☼	09/19/24 09:42	09/19/24 23:47	1
Selenium	<5.0		5.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Silver	<2.5		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Sodium	**1300**		500		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Thallium	**12**		5.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Vanadium	**120**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:52	5
Zinc	**240**		2.0		mg/Kg	☼	09/19/24 09:42	09/19/24 23:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.018		mg/Kg	☼	09/20/24 17:35	09/23/24 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.7**		0.26		mg/Kg	☼	09/10/24 11:02	09/11/24 11:19	1
pH (SW846 9045D)	**7.81**		0.20		SU			09/11/24 14:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB51 (0-3)
Lab Sample ID: 500-256275-15
Date Collected: 09/05/24 10:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 84.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.048		0.11	0.048	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
1,1,2,2-Tetrachloroethane	<0.068		0.11	0.068	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
1,1,2-Trichloroethane	<0.077		0.11	0.077	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
1,1-Dichloroethane	<0.038		0.11	0.038	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
1,1-Dichloroethene	<0.051		0.11	0.051	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
1,2-Dichloroethane	<0.061		0.11	0.061	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
1,2-Dichloropropane	<0.039		0.11	0.039	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
2-Butanone (MEK)	<0.33		0.53	0.33	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
2-Hexanone	<0.31		0.53	0.31	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
4-Methyl-2-pentanone (MIBK)	<0.28		0.53	0.28	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Acetone	<0.76		1.1	0.76	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Benzene	<0.013		0.026	0.013	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Bromodichloromethane	<0.060		0.11	0.060	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Bromoform	<0.10		0.11	0.10	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Bromomethane	<0.19		0.32	0.19	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Carbon disulfide	<0.11		0.21	0.11	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Carbon tetrachloride	<0.044		0.11	0.044	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Chlorobenzene	<0.043		0.11	0.043	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Chloroethane	<0.050		0.53	0.050	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Chloroform	<0.097		0.21	0.097	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Chloromethane	<0.083		0.53	0.083	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
cis-1,2-Dichloroethene	<0.044		0.11	0.044	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
1,3-Dichloropropene, Total	<0.067		0.11	0.067	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Dibromochloromethane	<0.088		0.11	0.088	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Ethylbenzene	**0.027**		0.026	0.018	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Methyl tert-butyl ether	<0.046		0.11	0.046	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Methylene Chloride	<0.23		0.53	0.23	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Styrene	<0.032		0.11	0.032	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Tetrachloroethene	<0.041		0.11	0.041	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Toluene	**0.027**		0.026	0.022	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Xylenes, Total	**0.077**		0.053	0.025	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
trans-1,2-Dichloroethene	<0.046		0.11	0.046	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Trichloroethene	<0.016		0.053	0.016	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50
Vinyl chloride	<0.050		0.11	0.050	mg/Kg	☼	09/05/24 10:00	09/16/24 18:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*	*09/05/24 10:00*	*09/16/24 18:21*	*50*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*	*09/05/24 10:00*	*09/16/24 18:21*	*50*
Dibromofluoromethane	*97*		*75 - 120*	*09/05/24 10:00*	*09/16/24 18:21*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*09/05/24 10:00*	*09/16/24 18:21*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.098**		0.039	0.0079	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Acenaphthylene	**0.034**	**J**	0.039	0.0066	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Anthracene	**0.11**		0.039	0.0080	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Benzo[a]anthracene	**0.33**		0.039	0.0083	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Benzo[a]pyrene	**0.42**		0.039	0.038	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Benzo[b]fluoranthene	**0.41**		0.039	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Benzo[g,h,i]perylene	**0.35**		0.039	0.0084	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB51 (0-3)
Lab Sample ID: 500-256275-15
Date Collected: 09/05/24 10:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 84.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.36**		0.039	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Chrysene	**0.43**		0.039	0.010	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Dibenz(a,h)anthracene	**0.083**		0.039	0.039	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Fluoranthene	**0.84**		0.039	0.0091	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Fluorene	**0.061**		0.039	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Indeno[1,2,3-cd]pyrene	**0.33**		0.039	0.038	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Naphthalene	**0.26**		0.039	0.0070	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Phenanthrene	**1.1**		0.039	0.0085	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Pyrene	**0.65**		0.039	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
1,2,4-Trichlorobenzene	**0.70**		0.20	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
1,2-Dichlorobenzene	<0.016		0.20	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
1,3-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
1,4-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2,4,5-Trichlorophenol	<0.015		0.39	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2,4,6-Trichlorophenol	<0.013		0.39	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2,4-Dichlorophenol	<0.014		0.39	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2,4-Dimethylphenol	<0.087		0.39	0.087	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2,4-Dinitrophenol	<0.23		0.79	0.23	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2,4-Dinitrotoluene	<0.022		0.20	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2,6-Dinitrotoluene	<0.013		0.20	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2-Chloronaphthalene	<0.015		0.20	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2-Chlorophenol	<0.013		0.20	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2-Methylnaphthalene	**0.71**		0.079	0.0078	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2-Methylphenol	<0.021		0.20	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2-Nitroaniline	<0.021		0.20	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
2-Nitrophenol	<0.026		0.39	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
3,3'-Dichlorobenzidine	<0.032		0.20	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
3 & 4 Methylphenol	<0.029		0.20	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
3-Nitroaniline	<0.018		0.39	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
4,6-Dinitro-2-methylphenol	<0.22		0.79	0.22	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
4-Bromophenyl phenyl ether	<0.027		0.20	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
4-Chloro-3-methylphenol	<0.015		0.39	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
4-Chloroaniline	<0.41		0.79	0.41	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
4-Chlorophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
4-Nitroaniline	<0.029		0.39	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
4-Nitrophenol	<0.14		0.79	0.14	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Bis(2-chloroethoxy)methane	<0.015		0.20	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Bis(2-chloroethyl)ether	<0.018		0.20	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
bis(chloroisopropyl) ether	<0.028		0.20	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Bis(2-ethylhexyl) phthalate	<0.15		0.20	0.15	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Butyl benzyl phthalate	<0.019		0.20	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Carbazole	**0.040**	**J**	0.20	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Dibenzofuran	**0.17**	**J**	0.20	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Diethyl phthalate	<0.018		0.20	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Dimethyl phthalate	<0.0085		0.20	0.0085	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Di-n-butyl phthalate	<0.012		0.20	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Di-n-octyl phthalate	<0.27		0.39	0.27	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Hexachlorobenzene	<0.0075		0.079	0.0075	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Hexachlorobutadiene	<0.022		0.20	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB51 (0-3)
Lab Sample ID: 500-256275-15
Date Collected: 09/05/24 10:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 84.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.41		0.79	0.41	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Hexachloroethane	<0.019		0.20	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Isophorone	<0.020		0.20	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Nitrobenzene	<0.012		0.039	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
N-Nitrosodi-n-propylamine	<0.0077		0.079	0.0077	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
N-Nitrosodiphenylamine	<0.023		0.20	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Pentachlorophenol	<0.097		0.79	0.097	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1
Phenol	<0.017		0.20	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*59*		*31 - 166*	*09/18/24 09:50*	*09/19/24 18:46*	*1*
Phenol-d5 (Surr)	*58*		*30 - 153*	*09/18/24 09:50*	*09/19/24 18:46*	*1*
Nitrobenzene-d5 (Surr)	*56*		*37 - 147*	*09/18/24 09:50*	*09/19/24 18:46*	*1*
2-Fluorobiphenyl (Surr)	*65*		*43 - 145*	*09/18/24 09:50*	*09/19/24 18:46*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*31 - 143*	*09/18/24 09:50*	*09/19/24 18:46*	*1*
Terphenyl-d14 (Surr)	*80*		*42 - 157*	*09/18/24 09:50*	*09/19/24 18:46*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
4,4'-DDE	<0.0097		0.019	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
4,4'-DDT	<0.0089		0.019	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Chlordane (technical)	<0.036		0.075	0.036	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
delta-BHC	<0.0090		0.019	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Dieldrin	<0.0098		0.019	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Endrin	<0.0096		0.019	0.0096	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Endrin ketone	<0.0091		0.019	0.0091	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
gamma-BHC (Lindane)	<0.0093		0.019	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Methoxychlor	<0.012		0.092	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10
Toxaphene	<0.075		0.19	0.075	mg/Kg	☼	09/17/24 07:08	09/24/24 21:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*187*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 21:41*	*10*
Tetrachloro-m-xylene	*221*	*S1+*	*30 - 121*	*09/17/24 07:08*	*09/24/24 21:41*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:33	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:33	10

Client Sample ID: SB51 (0-3)
Lab Sample ID: 500-256275-15

Date Collected: 09/05/24 10:00
Matrix: Solid

Date Received: 09/06/24 12:35
Percent Solids: 84.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:33	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:33	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:33	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:33	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:33	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*49 - 129*	*09/17/24 07:08*	*09/25/24 10:33*	*10*
DCB Decachlorobiphenyl	*41*		*37 - 121*	*09/17/24 07:08*	*09/25/24 10:33*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8900**		100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Antimony	**110**		10		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Arsenic	**59**		5.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Barium	**150**		1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:00	1
Beryllium	**2.8**		2.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Cadmium	**1.3**		1.0		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Calcium	**36000**		20		mg/Kg	☼	09/19/24 09:42	09/20/24 00:00	1
Chromium	**21000**		20		mg/Kg	☼	09/19/24 09:42	09/24/24 16:17	20
Cobalt	**100**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Copper	**260**		5.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Iron	**230000**	**B**	100		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Lead	**260**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Magnesium	**6000**		51		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Manganese	**4700**	**B**	5.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Nickel	**6200**		5.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Potassium	**680**		250		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Selenium	**5.5**		5.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Silver	<2.5		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Sodium	<510		510		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Thallium	**14**		5.1		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Vanadium	**74**		2.5		mg/Kg	☼	09/19/24 09:42	09/23/24 15:57	5
Zinc	**330**		2.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.017		mg/Kg	☼	09/20/24 17:35	09/23/24 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.39**		0.26		mg/Kg	☼	09/10/24 11:02	09/11/24 11:25	1
Sulfide (SW846 9034)	**300**		36		mg/Kg	☼	09/11/24 08:43	09/11/24 13:09	1
pH (SW846 9045D)	**7.69**		0.20		SU			09/11/24 14:05	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB51 (5-7.5)
Lab Sample ID: 500-256275-16
Date Collected: 09/05/24 10:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 88.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00094		0.0023	0.00094	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
1,1,2,2-Tetrachloroethane	<0.0012	*3	0.0023	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
1,1,2-Trichloroethane	<0.00087		0.0023	0.00087	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
1,1-Dichloroethane	<0.00087		0.0023	0.00087	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
1,1-Dichloroethene	<0.00096		0.0023	0.00096	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
1,2-Dichloroethane	<0.0015		0.0058	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
1,2-Dichloropropane	<0.00060		0.0023	0.00060	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
2-Butanone (MEK)	<0.0026		0.0058	0.0026	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
2-Hexanone	<0.0035		0.0058	0.0035	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0058	0.0041	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Acetone	<0.0097		0.023	0.0097	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Benzene	<0.00073		0.0023	0.00073	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Bromodichloromethane	<0.00075		0.0023	0.00075	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Bromoform	<0.0014		0.0023	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Bromomethane	<0.0029		0.0058	0.0029	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Carbon disulfide	<0.0011		0.0058	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Carbon tetrachloride	<0.00079		0.0023	0.00079	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Chlorobenzene	<0.00098		0.0023	0.00098	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Chloroethane	<0.0019		0.0058	0.0019	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Chloroform	<0.0017		0.0023	0.0017	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Chloromethane	<0.0011		0.0058	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
cis-1,2-Dichloroethene	<0.00094		0.0023	0.00094	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Methyl tert-butyl ether	<0.00075		0.0023	0.00075	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Methylene Chloride	<0.0025		0.0058	0.0025	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Toluene	<0.00047		0.0023	0.00047	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Xylenes, Total	<0.00080		0.0046	0.00080	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
trans-1,2-Dichloroethene	<0.00088		0.0023	0.00088	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Trichloroethene	<0.00063		0.0023	0.00063	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1
Vinyl chloride	<0.00095		0.0023	0.00095	mg/Kg	☼	09/06/24 18:47	09/12/24 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*09/06/24 18:47*	*09/12/24 15:42*	*1*
4-Bromofluorobenzene (Surr)	*109*	*3*	*75 - 131*	*09/06/24 18:47*	*09/12/24 15:42*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*09/06/24 18:47*	*09/12/24 15:42*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*09/06/24 18:47*	*09/12/24 15:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0076		0.037	0.0076	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Acenaphthylene	**0.013**	**J**	0.037	0.0063	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Anthracene	**0.014**	**J**	0.037	0.0076	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Benzo[a]anthracene	**0.085**		0.037	0.0079	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Benzo[a]pyrene	**0.077**		0.037	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Benzo[b]fluoranthene	**0.16**		0.037	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Benzo[g,h,i]perylene	**0.10**		0.037	0.0081	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB51 (5-7.5)
Lab Sample ID: 500-256275-16
Date Collected: 09/05/24 10:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 88.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.080**		0.037	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Chrysene	**0.16**		0.037	0.0099	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Fluoranthene	**0.17**		0.037	0.0087	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Fluorene	<0.011		0.037	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Indeno[1,2,3-cd]pyrene	**0.093**		0.037	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Naphthalene	**0.020**	**J**	0.037	0.0068	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Phenanthrene	**0.22**		0.037	0.0081	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Pyrene	**0.11**		0.037	0.010	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2,4-Dimethylphenol	<0.084		0.37	0.084	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2,4-Dinitrophenol	<0.22		0.75	0.22	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2,4-Dinitrotoluene	<0.021		0.19	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2-Methylnaphthalene	<0.0075		0.075	0.0075	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
3 & 4 Methylphenol	<0.027		0.19	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
4,6-Dinitro-2-methylphenol	<0.21		0.75	0.21	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
4-Chloro-3-methylphenol	<0.015		0.37	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
4-Chloroaniline	<0.39		0.75	0.39	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
4-Chlorophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
4-Nitroaniline	<0.028		0.37	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
4-Nitrophenol	<0.14		0.75	0.14	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Dibenzofuran	<0.013		0.19	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Dimethyl phthalate	<0.0081		0.19	0.0081	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Hexachlorobenzene	<0.0072		0.075	0.0072	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB51 (5-7.5)
Lab Sample ID: 500-256275-16
Date Collected: 09/05/24 10:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 88.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.40		0.75	0.40	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Isophorone	<0.019		0.19	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
N-Nitrosodi-n-propylamine	<0.0074		0.075	0.0074	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Pentachlorophenol	<0.094		0.75	0.094	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1
Phenol	<0.016		0.19	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*57*		*31 - 166*	*09/18/24 09:50*	*09/19/24 17:06*	*1*
Phenol-d5 (Surr)	*59*		*30 - 153*	*09/18/24 09:50*	*09/19/24 17:06*	*1*
Nitrobenzene-d5 (Surr)	*62*		*37 - 147*	*09/18/24 09:50*	*09/19/24 17:06*	*1*
2-Fluorobiphenyl (Surr)	*65*		*43 - 145*	*09/18/24 09:50*	*09/19/24 17:06*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*31 - 143*	*09/18/24 09:50*	*09/19/24 17:06*	*1*
Terphenyl-d14 (Surr)	*73*		*42 - 157*	*09/18/24 09:50*	*09/19/24 17:06*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
4,4'-DDE	<0.0095		0.019	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Chlordane (technical)	<0.035		0.074	0.035	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Endrin	<0.0095		0.019	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/17/24 07:08	09/24/24 21:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*33 - 148*	*09/17/24 07:08*	*09/24/24 21:52*	*10*
Tetrachloro-m-xylene	*46*		*30 - 121*	*09/17/24 07:08*	*09/24/24 21:52*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 10:18	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 10:18	10

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256275-1

Client Sample ID: SB51 (5-7.5)

Date Collected: 09/05/24 10:30
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-16

Matrix: Solid
Percent Solids: 88.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 10:18	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 10:18	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 10:18	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 10:18	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 10:18	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/17/24 07:08	09/25/24 10:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*42*	*S1-*	*49 - 129*	*09/17/24 07:08*	*09/25/24 10:18*	*10*
DCB Decachlorobiphenyl	*49*		*37 - 121*	*09/17/24 07:08*	*09/25/24 10:18*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		110		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Antimony	**2.7**		2.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:05	1
Arsenic	**21**		1.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:05	1
Barium	**170**		1.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:05	1
Beryllium	**3.6**		2.1		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Cadmium	**3.1**		1.1		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Calcium	**38000**		21		mg/Kg	☼	09/19/24 09:42	09/20/24 00:05	1
Chromium	**85**		5.4		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Cobalt	**14**		2.7		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Copper	**33**		5.4		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Iron	**230000**	**B**	110		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Lead	**250**		2.7		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Magnesium	**5400**		54		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Manganese	**8000**	**B**	5.4		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Nickel	**180**		5.4		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Potassium	**2800**		270		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Selenium	<5.4		5.4		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Silver	<2.7		2.7		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Sodium	**660**		540		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Thallium	**18**		5.4		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Vanadium	**59**		2.7		mg/Kg	☼	09/19/24 09:42	09/23/24 16:01	5
Zinc	**500**		2.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.018		mg/Kg	☼	09/20/24 17:35	09/23/24 08:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**14**		1.3		mg/Kg	☼	09/10/24 11:02	09/11/24 12:20	5
pH (SW846 9045D)	**7.99**		0.20		SU			09/11/24 14:08	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB52 (0-3)
Lab Sample ID: 500-256275-17
Date Collected: 09/05/24 11:20
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 84.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0026	0.0013	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
1,1,2-Trichloroethane	<0.00099		0.0026	0.00099	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
1,1-Dichloroethane	<0.00099		0.0026	0.00099	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
1,1-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
1,2-Dichloroethane	<0.0017		0.0066	0.0017	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
1,2-Dichloropropane	<0.00068		0.0026	0.00068	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
2-Butanone (MEK)	<0.0029		0.0066	0.0029	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
2-Hexanone	<0.0040		0.0066	0.0040	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0066	0.0047	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Acetone	<0.011		0.026	0.011	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Benzene	<0.00083		0.0026	0.00083	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Bromodichloromethane	<0.00085		0.0026	0.00085	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Bromoform	<0.0015		0.0026	0.0015	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Bromomethane	<0.0032		0.0066	0.0032	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Carbon disulfide	**0.0027**	**J**	0.0066	0.0012	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Carbon tetrachloride	<0.00090		0.0026	0.00090	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Chlorobenzene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Chloroethane	<0.0022		0.0066	0.0022	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Chloroform	<0.0019		0.0026	0.0019	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Chloromethane	<0.0013		0.0066	0.0013	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
cis-1,2-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
1,3-Dichloropropene, Total	<0.0013		0.0026	0.0013	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Dibromochloromethane	<0.0012		0.0026	0.0012	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Ethylbenzene	<0.0014		0.0026	0.0014	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Methyl tert-butyl ether	<0.00085		0.0026	0.00085	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Methylene Chloride	<0.0028	*-	0.0066	0.0028	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Styrene	<0.0012		0.0026	0.0012	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Tetrachloroethene	<0.0015		0.0026	0.0015	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Toluene	<0.00053		0.0026	0.00053	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Xylenes, Total	<0.00090		0.0053	0.00090	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
trans-1,2-Dichloroethene	<0.0010		0.0026	0.0010	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Trichloroethene	<0.00072		0.0026	0.00072	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1
Vinyl chloride	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/06/24 18:47*	*09/13/24 13:54*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*09/06/24 18:47*	*09/13/24 13:54*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*09/06/24 18:47*	*09/13/24 13:54*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*09/06/24 18:47*	*09/13/24 13:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.10**		0.078	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Acenaphthylene	**0.091**		0.078	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Anthracene	**0.59**		0.078	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Benzo[a]anthracene	**2.1**		0.078	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Benzo[a]pyrene	**2.2**		0.078	0.076	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Benzo[b]fluoranthene	**2.0**		0.078	0.075	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Benzo[g,h,i]perylene	**1.4**		0.078	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB52 (0-3)
Lab Sample ID: 500-256275-17
Date Collected: 09/05/24 11:20
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 84.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.8**		0.078	0.030	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Chrysene	**2.2**		0.078	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Dibenz(a,h)anthracene	**0.40**		0.078	0.078	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Fluoranthene	**4.3**		0.078	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Fluorene	**0.099**		0.078	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Indeno[1,2,3-cd]pyrene	**1.5**		0.078	0.077	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Naphthalene	**0.089**		0.078	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Phenanthrene	**1.7**		0.078	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Pyrene	**3.9**		0.078	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
1,2,4-Trichlorobenzene	<0.056		0.40	0.056	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
1,2-Dichlorobenzene	<0.032		0.40	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
1,3-Dichlorobenzene	<0.036		0.40	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
1,4-Dichlorobenzene	<0.037		0.40	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2,4,5-Trichlorophenol	<0.030		0.78	0.030	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2,4,6-Trichlorophenol	<0.027		0.78	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2,4-Dichlorophenol	<0.028		0.78	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2,4-Dimethylphenol	<0.18		0.78	0.18	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2,4-Dinitrophenol	<0.45		1.6	0.45	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2,4-Dinitrotoluene	<0.045		0.40	0.045	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2,6-Dinitrotoluene	<0.027		0.40	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2-Chloronaphthalene	<0.029		0.40	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2-Chlorophenol	<0.025		0.40	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2-Methylnaphthalene	**0.080**	**J**	0.16	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2-Methylphenol	<0.041		0.40	0.041	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2-Nitroaniline	<0.042		0.40	0.042	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
2-Nitrophenol	<0.053		0.78	0.053	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
3,3'-Dichlorobenzidine	<0.064		0.40	0.064	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
3 & 4 Methylphenol	<0.058		0.40	0.058	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
3-Nitroaniline	<0.036		0.78	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
4,6-Dinitro-2-methylphenol	<0.44		1.6	0.44	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
4-Bromophenyl phenyl ether	<0.054		0.40	0.054	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
4-Chloro-3-methylphenol	<0.031		0.78	0.031	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
4-Chloroaniline	<0.82		1.6	0.82	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
4-Chlorophenyl phenyl ether	<0.10		0.40	0.10	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
4-Nitroaniline	<0.058		0.78	0.058	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
4-Nitrophenol	<0.29		1.6	0.29	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Bis(2-chloroethoxy)methane	<0.029		0.40	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Bis(2-chloroethyl)ether	<0.036		0.40	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
bis(chloroisopropyl) ether	<0.056		0.40	0.056	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Bis(2-ethylhexyl) phthalate	<0.31		0.40	0.31	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Butyl benzyl phthalate	<0.039		0.40	0.039	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Carbazole	**0.089**	**J**	0.40	0.031	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Dibenzofuran	**0.13**	**J**	0.40	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Diethyl phthalate	<0.036		0.40	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Dimethyl phthalate	<0.017		0.40	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Di-n-butyl phthalate	<0.025		0.40	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Di-n-octyl phthalate	<0.55		0.78	0.55	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Hexachlorobenzene	<0.015		0.16	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Hexachlorobutadiene	<0.044		0.40	0.044	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2

Client Sample ID: SB52 (0-3)
Lab Sample ID: 500-256275-17

Date Collected: 09/05/24 11:20
Matrix: Solid

Date Received: 09/06/24 12:35
Percent Solids: 84.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.83		1.6	0.83	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Hexachloroethane	<0.039		0.40	0.039	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Isophorone	<0.041		0.40	0.041	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Nitrobenzene	<0.025		0.078	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
N-Nitrosodi-n-propylamine	<0.016		0.16	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
N-Nitrosodiphenylamine	<0.047		0.40	0.047	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Pentachlorophenol	<0.20		1.6	0.20	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2
Phenol	<0.034		0.40	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 19:36	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*33*		*31 - 166*	*09/18/24 09:50*	*09/19/24 19:36*	*2*
Phenol-d5 (Surr)	*47*		*30 - 153*	*09/18/24 09:50*	*09/19/24 19:36*	*2*
Nitrobenzene-d5 (Surr)	*42*		*37 - 147*	*09/18/24 09:50*	*09/19/24 19:36*	*2*
2-Fluorobiphenyl (Surr)	*51*		*43 - 145*	*09/18/24 09:50*	*09/19/24 19:36*	*2*
2,4,6-Tribromophenol (Surr)	*2*	*S1-*	*31 - 143*	*09/18/24 09:50*	*09/19/24 19:36*	*2*
Terphenyl-d14 (Surr)	*65*		*42 - 157*	*09/18/24 09:50*	*09/19/24 19:36*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
4,4'-DDE	<0.0097		0.019	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
4,4'-DDT	<0.0090		0.019	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Chlordane (technical)	<0.036		0.075	0.036	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
delta-BHC	<0.0091		0.019	0.0091	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Dieldrin	<0.0099		0.019	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Endrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Endrin ketone	<0.0092		0.019	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
gamma-BHC (Lindane)	<0.0094		0.019	0.0094	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Methoxychlor	<0.012		0.093	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10
Toxaphene	<0.076		0.19	0.076	mg/Kg	☼	09/17/24 07:08	09/24/24 22:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*404*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 22:04*	*10*
Tetrachloro-m-xylene	*56*		*30 - 121*	*09/17/24 07:08*	*09/24/24 22:04*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:03	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:03	10

Client Sample ID: SB52 (0-3)
Lab Sample ID: 500-256275-17
Date Collected: 09/05/24 11:20
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 84.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:03	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:03	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:03	10
PCB-1254	**0.19**		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:03	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:03	10
Polychlorinated biphenyls, Total	**0.19**		0.19		mg/Kg	☼	09/17/24 07:08	09/25/24 10:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*49 - 129*	*09/17/24 07:08*	*09/25/24 10:03*	*10*
DCB Decachlorobiphenyl	*56*		*37 - 121*	*09/17/24 07:08*	*09/25/24 10:03*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		110		mg/Kg	☼	09/19/24 09:42	09/23/24 16:05	5
Antimony	**3.7**		2.3		mg/Kg	☼	09/19/24 09:42	09/20/24 00:09	1
Arsenic	**3.6**		1.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:09	1
Barium	**190**		1.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:09	1
Beryllium	**3.2**		2.3		mg/Kg	☼	09/19/24 09:42	09/23/24 16:05	5
Cadmium	<0.23		0.23		mg/Kg	☼	09/19/24 09:42	09/20/24 00:09	1
Calcium	**150000**		110		mg/Kg	☼	09/19/24 09:42	09/23/24 16:05	5
Chromium	**82**		1.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:09	1
Cobalt	**3.1**		2.8		mg/Kg	☼	09/19/24 09:42	09/23/24 16:05	5
Copper	**100**		1.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:09	1
Iron	**30000**	**B**	110		mg/Kg	☼	09/19/24 09:42	09/23/24 16:05	5
Lead	**100**		2.8		mg/Kg	☼	09/19/24 09:42	09/23/24 16:05	5
Magnesium	**42000**		57		mg/Kg	☼	09/19/24 09:42	09/23/24 16:05	5
Manganese	**2200**	**B**	1.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:09	1
Nickel	**39**		1.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:09	1
Potassium	**1200**		280		mg/Kg	☼	09/19/24 09:42	09/23/24 16:05	5
Selenium	**2.1**		1.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:09	1
Silver	<2.8		2.8		mg/Kg	☼	09/19/24 09:42	09/23/24 16:05	5
Sodium	<570		570		mg/Kg	☼	09/19/24 09:42	09/23/24 16:05	5
Thallium	**5.7**		5.7		mg/Kg	☼	09/19/24 09:42	09/23/24 16:05	5
Vanadium	**20**		0.57		mg/Kg	☼	09/19/24 09:42	09/20/24 00:09	1
Zinc	**76**		2.3		mg/Kg	☼	09/19/24 09:42	09/20/24 00:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**		0.018		mg/Kg	☼	09/20/24 17:35	09/23/24 08:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.6**		0.28		mg/Kg	☼	09/10/24 11:02	09/11/24 11:28	1
pH (SW846 9045D)	**11.23**		0.20		SU			09/11/24 14:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB52 (7.5-10)
Lab Sample ID: 500-256275-18
Date Collected: 09/05/24 11:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 83.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0013		0.0031	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
1,1,2,2-Tetrachloroethane	<0.0015	*3	0.0031	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
1,1,2-Trichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
1,1-Dichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
1,1-Dichloroethene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
1,2-Dichloroethane	<0.0020		0.0078	0.0020	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
1,2-Dichloropropane	<0.00080		0.0031	0.00080	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
2-Butanone (MEK)	<0.0034		0.0078	0.0034	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
2-Hexanone	<0.0047		0.0078	0.0047	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0078	0.0055	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Acetone	<0.013		0.031	0.013	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Benzene	<0.00098		0.0031	0.00098	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Bromodichloromethane	<0.0010		0.0031	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Bromoform	<0.0018		0.0031	0.0018	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Bromomethane	<0.0038		0.0078	0.0038	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Carbon disulfide	<0.0014		0.0078	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Carbon tetrachloride	<0.0011		0.0031	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Chlorobenzene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Chloroethane	<0.0026		0.0078	0.0026	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Chloroform	<0.0022		0.0031	0.0022	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Chloromethane	<0.0015		0.0078	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
cis-1,2-Dichloroethene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
1,3-Dichloropropene, Total	<0.0015		0.0031	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Dibromochloromethane	<0.0014		0.0031	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Ethylbenzene	<0.0016		0.0031	0.0016	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Methyl tert-butyl ether	<0.0010		0.0031	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Methylene Chloride	<0.0033		0.0078	0.0033	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Styrene	<0.0014		0.0031	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Tetrachloroethene	<0.0017		0.0031	0.0017	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Toluene	<0.00063		0.0031	0.00063	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Xylenes, Total	<0.0011		0.0062	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
trans-1,2-Dichloroethene	<0.0012		0.0031	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Trichloroethene	<0.00085		0.0031	0.00085	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1
Vinyl chloride	<0.0013		0.0031	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 134*	*09/06/24 18:47*	*09/12/24 16:31*	*1*
4-Bromofluorobenzene (Surr)	*123*	*3	*75 - 131*	*09/06/24 18:47*	*09/12/24 16:31*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*09/06/24 18:47*	*09/12/24 16:31*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*09/06/24 18:47*	*09/12/24 16:31*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.016		0.077	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Acenaphthylene	<0.013		0.077	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Anthracene	**0.17**		0.077	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Benzo[a]anthracene	**0.53**		0.077	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Benzo[a]pyrene	**0.50**		0.077	0.075	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Benzo[b]fluoranthene	**0.66**		0.077	0.074	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Benzo[g,h,i]perylene	**0.31**		0.077	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB52 (7.5-10)
Lab Sample ID: 500-256275-18
Date Collected: 09/05/24 11:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 83.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.46**		0.077	0.030	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Chrysene	**0.77**		0.077	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Dibenz(a,h)anthracene	**0.12**		0.077	0.077	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Fluoranthene	**0.91**		0.077	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Fluorene	<0.023		0.077	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Indeno[1,2,3-cd]pyrene	**0.32**		0.077	0.076	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Naphthalene	**0.32**		0.077	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Phenanthrene	**3.0**		0.077	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Pyrene	**0.75**		0.077	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
1,2,4-Trichlorobenzene	<0.056		0.39	0.056	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
1,2-Dichlorobenzene	<0.032		0.39	0.032	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
1,3-Dichlorobenzene	<0.035		0.39	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
1,4-Dichlorobenzene	<0.037		0.39	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2,4,5-Trichlorophenol	<0.029		0.77	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2,4,6-Trichlorophenol	<0.026		0.77	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2,4-Dichlorophenol	<0.027		0.77	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2,4-Dimethylphenol	<0.17		0.77	0.17	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2,4-Dinitrophenol	<0.45		1.6	0.45	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2,4-Dinitrotoluene	<0.044		0.39	0.044	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2,6-Dinitrotoluene	<0.026		0.39	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2-Chloronaphthalene	<0.029		0.39	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2-Chlorophenol	<0.025		0.39	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2-Methylnaphthalene	**0.88**		0.16	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2-Methylphenol	<0.041		0.39	0.041	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2-Nitroaniline	<0.042		0.39	0.042	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
2-Nitrophenol	<0.053		0.77	0.053	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
3,3'-Dichlorobenzidine	<0.064		0.39	0.064	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
3 & 4 Methylphenol	<0.057		0.39	0.057	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
3-Nitroaniline	<0.035		0.77	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
4,6-Dinitro-2-methylphenol	<0.44		1.6	0.44	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
4-Bromophenyl phenyl ether	<0.053		0.39	0.053	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
4-Chloro-3-methylphenol	<0.030		0.77	0.030	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
4-Chloroaniline	<0.82		1.6	0.82	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
4-Chlorophenyl phenyl ether	<0.10		0.39	0.10	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
4-Nitroaniline	<0.057		0.77	0.057	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
4-Nitrophenol	<0.29		1.6	0.29	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Bis(2-chloroethoxy)methane	<0.029		0.39	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Bis(2-chloroethyl)ether	<0.036		0.39	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
bis(chloroisopropyl) ether	<0.056		0.39	0.056	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Bis(2-ethylhexyl) phthalate	<0.30		0.39	0.30	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Butyl benzyl phthalate	<0.039		0.39	0.039	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Carbazole	**0.095**	**J**	0.39	0.031	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Dibenzofuran	**0.17**	**J**	0.39	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Diethyl phthalate	<0.036		0.39	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Dimethyl phthalate	<0.017		0.39	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Di-n-butyl phthalate	<0.025		0.39	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Di-n-octyl phthalate	<0.54		0.77	0.54	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Hexachlorobenzene	<0.015		0.16	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Hexachlorobutadiene	<0.044		0.39	0.044	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2

Client Sample ID: SB52 (7.5-10) | **Lab Sample ID: 500-256275-18**
Date Collected: 09/05/24 11:30 | **Matrix: Solid**
Date Received: 09/06/24 12:35 | **Percent Solids: 83.6**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.83		1.6	0.83	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Hexachloroethane	<0.039		0.39	0.039	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Isophorone	<0.040		0.39	0.040	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Nitrobenzene	<0.025		0.077	0.025	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
N-Nitrosodi-n-propylamine	<0.015		0.16	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
N-Nitrosodiphenylamine	<0.046		0.39	0.046	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Pentachlorophenol	<0.19		1.6	0.19	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2
Phenol	<0.034		0.39	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 20:01	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*50*		*31 - 166*	*09/18/24 09:50*	*09/19/24 20:01*	*2*
Phenol-d5 (Surr)	*52*		*30 - 153*	*09/18/24 09:50*	*09/19/24 20:01*	*2*
Nitrobenzene-d5 (Surr)	*54*		*37 - 147*	*09/18/24 09:50*	*09/19/24 20:01*	*2*
2-Fluorobiphenyl (Surr)	*60*		*43 - 145*	*09/18/24 09:50*	*09/19/24 20:01*	*2*
2,4,6-Tribromophenol (Surr)	*59*		*31 - 143*	*09/18/24 09:50*	*09/19/24 20:01*	*2*
Terphenyl-d14 (Surr)	*61*		*42 - 157*	*09/18/24 09:50*	*09/19/24 20:01*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
4,4'-DDT	<0.0095		0.020	0.0095	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
alpha-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
Chlordane (technical)	<0.038		0.079	0.038	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
delta-BHC	<0.048		0.10	0.048	mg/Kg	☼	09/17/24 07:08	09/25/24 10:00	50
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
Endosulfan sulfate	<0.055		0.10	0.055	mg/Kg	☼	09/17/24 07:08	09/25/24 10:00	50
Endrin	<0.010		0.020	0.010	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
Endrin aldehyde	<0.057		0.10	0.057	mg/Kg	☼	09/17/24 07:08	09/25/24 10:00	50
Endrin ketone	<0.0097		0.020	0.0097	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
gamma-BHC (Lindane)	<0.0099		0.020	0.0099	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
gamma-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
Heptachlor epoxide	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
Methoxychlor	<0.013		0.098	0.013	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10
Toxaphene	<0.080		0.20	0.080	mg/Kg	☼	09/17/24 07:08	09/25/24 09:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/17/24 07:08*	*09/25/24 10:00*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/17/24 07:08*	*09/25/24 10:00*	*50*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.99		0.99		mg/Kg	☼	09/17/24 07:08	09/24/24 13:28	50
PCB-1221	<0.99		0.99		mg/Kg	☼	09/17/24 07:08	09/24/24 13:28	50

Client Sample ID: SB52 (7.5-10)
Lab Sample ID: 500-256275-18
Date Collected: 09/05/24 11:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 83.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.99		0.99		mg/Kg	☼	09/17/24 07:08	09/24/24 13:28	50
PCB-1242	<0.99		0.99		mg/Kg	☼	09/17/24 07:08	09/24/24 13:28	50
PCB-1248	<0.99		0.99		mg/Kg	☼	09/17/24 07:08	09/24/24 13:28	50
PCB-1254	<0.99		0.99		mg/Kg	☼	09/17/24 07:08	09/24/24 13:28	50
PCB-1260	<0.99		0.99		mg/Kg	☼	09/17/24 07:08	09/24/24 13:28	50
Polychlorinated biphenyls, Total	<0.99		0.99		mg/Kg	☼	09/17/24 07:08	09/24/24 13:28	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/17/24 07:08*	*09/24/24 13:28*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/17/24 07:08*	*09/24/24 13:28*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		100		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Antimony	<2.1		2.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:14	1
Arsenic	**33**		1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:14	1
Barium	**200**		1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:14	1
Beryllium	**4.6**		2.1		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Cadmium	<0.21		0.21		mg/Kg	☼	09/19/24 09:42	09/20/24 00:14	1
Calcium	**11000**		21		mg/Kg	☼	09/19/24 09:42	09/20/24 00:14	1
Chromium	**19**		5.2		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Cobalt	**16**		2.6		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Copper	**200**		5.2		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Iron	**92000**	**B**	100		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Lead	**48**		2.6		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Magnesium	**1600**		52		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Manganese	**680**	**B**	1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:14	1
Nickel	**62**		5.2		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Potassium	**1100**		260		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Selenium	<5.2		5.2		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Silver	<2.6		2.6		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Sodium	**1000**		520		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Thallium	<1.0		1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:14	1
Vanadium	**34**		2.6		mg/Kg	☼	09/19/24 09:42	09/23/24 16:10	5
Zinc	**330**		2.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:14	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.019		mg/Kg	☼	09/20/24 17:35	09/23/24 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28		mg/Kg	☼	09/10/24 11:02	09/11/24 11:30	1
pH (SW846 9045D)	**6.68**		0.20		SU			09/11/24 14:13	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB53 (0-3)
Lab Sample ID: 500-256275-19
Date Collected: 09/05/24 13:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 87.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.036		0.080	0.036	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
1,1,2,2-Tetrachloroethane	<0.051		0.080	0.051	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
1,1,2-Trichloroethane	<0.058		0.080	0.058	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
1,1-Dichloroethane	<0.029		0.080	0.029	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
1,1-Dichloroethene	<0.038		0.080	0.038	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
1,2-Dichloroethane	<0.046		0.080	0.046	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
1,2-Dichloropropane	<0.030		0.080	0.030	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
2-Butanone (MEK)	<0.25		0.40	0.25	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
2-Hexanone	<0.23		0.40	0.23	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
4-Methyl-2-pentanone (MIBK)	<0.21		0.40	0.21	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Acetone	<0.58		0.80	0.58	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Benzene	<0.0098		0.020	0.0098	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Bromodichloromethane	<0.045		0.080	0.045	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Bromoform	<0.076		0.080	0.076	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Bromomethane	<0.14		0.24	0.14	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Carbon disulfide	<0.085		0.16	0.085	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Carbon tetrachloride	<0.033		0.080	0.033	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Chlorobenzene	<0.033		0.080	0.033	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Chloroethane	<0.037		0.40	0.037	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Chloroform	<0.073		0.16	0.073	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Chloromethane	<0.063		0.40	0.063	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
cis-1,2-Dichloroethene	<0.033		0.080	0.033	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
1,3-Dichloropropene, Total	<0.050		0.080	0.050	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Dibromochloromethane	<0.066		0.080	0.066	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Ethylbenzene	<0.014		0.020	0.014	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Methyl tert-butyl ether	<0.034		0.080	0.034	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Methylene Chloride	<0.17		0.40	0.17	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Styrene	<0.024		0.080	0.024	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Tetrachloroethene	<0.031		0.080	0.031	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Toluene	<0.017		0.020	0.017	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Xylenes, Total	**0.067**		0.040	0.019	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
trans-1,2-Dichloroethene	<0.035		0.080	0.035	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Trichloroethene	<0.012		0.040	0.012	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50
Vinyl chloride	<0.037		0.080	0.037	mg/Kg	☼	09/05/24 13:00	09/16/24 18:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*09/05/24 13:00*	*09/16/24 18:45*	*50*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*	*09/05/24 13:00*	*09/16/24 18:45*	*50*
Dibromofluoromethane	*95*		*75 - 120*	*09/05/24 13:00*	*09/16/24 18:45*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*09/05/24 13:00*	*09/16/24 18:45*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015		0.075	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Acenaphthylene	<0.013		0.075	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Anthracene	**0.12**		0.075	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Benzo[a]anthracene	**0.33**		0.075	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Benzo[a]pyrene	**0.28**		0.075	0.072	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Benzo[b]fluoranthene	**0.37**		0.075	0.072	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Benzo[g,h,i]perylene	**0.17**		0.075	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB53 (0-3)
Lab Sample ID: 500-256275-19
Date Collected: 09/05/24 13:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 87.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.24**		0.075	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Chrysene	**0.46**		0.075	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Dibenz(a,h)anthracene	<0.075		0.075	0.075	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Fluoranthene	**0.65**		0.075	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Fluorene	<0.022		0.075	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Indeno[1,2,3-cd]pyrene	**0.16**		0.075	0.073	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Naphthalene	**0.13**		0.075	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Phenanthrene	**1.8**		0.075	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Pyrene	**0.56**		0.075	0.021	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
1,2,4-Trichlorobenzene	<0.054		0.38	0.054	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
1,2-Dichlorobenzene	<0.031		0.38	0.031	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
1,3-Dichlorobenzene	<0.034		0.38	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
1,4-Dichlorobenzene	<0.036		0.38	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2,4,5-Trichlorophenol	<0.028		0.75	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2,4,6-Trichlorophenol	<0.026		0.75	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2,4-Dichlorophenol	<0.026		0.75	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2,4-Dimethylphenol	<0.17		0.75	0.17	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2,4-Dinitrophenol	<0.43		1.5	0.43	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2,4-Dinitrotoluene	<0.043		0.38	0.043	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2,6-Dinitrotoluene	<0.026		0.38	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2-Chloronaphthalene	<0.028		0.38	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2-Chlorophenol	<0.024		0.38	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2-Methylnaphthalene	**0.22**		0.15	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2-Methylphenol	<0.040		0.38	0.040	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2-Nitroaniline	<0.040		0.38	0.040	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
2-Nitrophenol	<0.051		0.75	0.051	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
3,3'-Dichlorobenzidine	<0.061		0.38	0.061	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
3 & 4 Methylphenol	<0.055		0.38	0.055	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
3-Nitroaniline	<0.034		0.75	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
4,6-Dinitro-2-methylphenol	<0.42		1.5	0.42	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
4-Bromophenyl phenyl ether	<0.051		0.38	0.051	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
4-Chloro-3-methylphenol	<0.029		0.75	0.029	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
4-Chloroaniline	<0.79		1.5	0.79	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
4-Chlorophenyl phenyl ether	<0.098		0.38	0.098	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
4-Nitroaniline	<0.055		0.75	0.055	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
4-Nitrophenol	<0.28		1.5	0.28	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Bis(2-chloroethoxy)methane	<0.028		0.38	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Bis(2-chloroethyl)ether	<0.035		0.38	0.035	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
bis(chloroisopropyl) ether	<0.054		0.38	0.054	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Bis(2-ethylhexyl) phthalate	<0.29		0.38	0.29	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Butyl benzyl phthalate	<0.037		0.38	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Carbazole	**0.054**	**J**	0.38	0.030	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Dibenzofuran	**0.079**	**J**	0.38	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Diethyl phthalate	<0.034		0.38	0.034	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Dimethyl phthalate	<0.016		0.38	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Di-n-butyl phthalate	<0.024		0.38	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Di-n-octyl phthalate	<0.53		0.75	0.53	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Hexachlorobutadiene	<0.042		0.38	0.042	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2

Client Sample ID: SB53 (0-3) — **Lab Sample ID: 500-256275-19**
Date Collected: 09/05/24 13:00 — **Matrix: Solid**
Date Received: 09/06/24 12:35 — **Percent Solids: 87.5**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.80		1.5	0.80	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Hexachloroethane	<0.038		0.38	0.038	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Isophorone	<0.039		0.38	0.039	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Nitrobenzene	<0.024		0.075	0.024	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
N-Nitrosodiphenylamine	<0.045		0.38	0.045	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Pentachlorophenol	<0.19		1.5	0.19	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2
Phenol	<0.033		0.38	0.033	mg/Kg	☼	09/18/24 09:50	09/19/24 20:26	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*37*		*31 - 166*	*09/18/24 09:50*	*09/19/24 20:26*	*2*
Phenol-d5 (Surr)	*40*		*30 - 153*	*09/18/24 09:50*	*09/19/24 20:26*	*2*
Nitrobenzene-d5 (Surr)	*34*	*S1-*	*37 - 147*	*09/18/24 09:50*	*09/19/24 20:26*	*2*
2-Fluorobiphenyl (Surr)	*43*		*43 - 145*	*09/18/24 09:50*	*09/19/24 20:26*	*2*
2,4,6-Tribromophenol (Surr)	*52*		*31 - 143*	*09/18/24 09:50*	*09/19/24 20:26*	*2*
Terphenyl-d14 (Surr)	*56*		*42 - 157*	*09/18/24 09:50*	*09/19/24 20:26*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
4,4'-DDE	<0.0098		0.019	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
4,4'-DDT	<0.0090		0.019	0.0090	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Chlordane (technical)	<0.036		0.075	0.036	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
delta-BHC	<0.0091		0.019	0.0091	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Dieldrin	<0.0099		0.019	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Endosulfan sulfate	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Endrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Endrin ketone	<0.0092		0.019	0.0092	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
gamma-BHC (Lindane)	<0.0095		0.019	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Methoxychlor	<0.013		0.093	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10
Toxaphene	<0.076		0.19	0.076	mg/Kg	☼	09/17/24 07:08	09/24/24 12:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*672*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 12:46*	*10*
Tetrachloro-m-xylene	*85*		*30 - 121*	*09/17/24 07:08*	*09/24/24 12:46*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:08	1
PCB-1221	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:08	1

Client Sample ID: SB53 (0-3)
Lab Sample ID: 500-256275-19
Date Collected: 09/05/24 13:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 87.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:08	1
PCB-1242	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:08	1
PCB-1248	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:08	1
PCB-1254	**0.21**		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:08	1
PCB-1260	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:08	1
Polychlorinated biphenyls, Total	**0.21**		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*49 - 129*	*09/17/24 07:08*	*09/23/24 22:08*	*1*
DCB Decachlorobiphenyl	*138*	*S1+*	*37 - 121*	*09/17/24 07:08*	*09/23/24 22:08*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		110		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Antimony	<2.2		2.2		mg/Kg	☼	09/19/24 09:42	09/20/24 00:19	1
Arsenic	**6.0**		1.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:19	1
Barium	**140**		1.1		mg/Kg	☼	09/19/24 09:42	09/20/24 00:19	1
Beryllium	**2.6**		2.2		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Cadmium	**1.5**		1.1		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Calcium	**110000**		110		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Chromium	**1100**		5.6		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Cobalt	**9.0**		2.8		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Copper	**78**		5.6		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Iron	**110000**	**B**	110		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Lead	**89**		2.8		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Magnesium	**37000**		56		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Manganese	**16000**	**B**	22		mg/Kg	☼	09/19/24 09:42	09/24/24 16:21	20
Nickel	**160**		5.6		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Potassium	**610**		280		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Selenium	**6.0**		5.6		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Silver	<2.8		2.8		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Sodium	<560		560		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Thallium	**22**		5.6		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Vanadium	**170**		2.8		mg/Kg	☼	09/19/24 09:42	09/23/24 16:23	5
Zinc	**720**		2.2		mg/Kg	☼	09/19/24 09:42	09/20/24 00:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.018		mg/Kg	☼	09/20/24 17:35	09/23/24 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**4.4**		0.25		mg/Kg	☼	09/10/24 15:04	09/11/24 14:08	1
pH (SW846 9045D)	**9.39**		0.20		SU			09/11/24 14:15	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB53 (10-12.5)
Lab Sample ID: 500-256275-20
Date Collected: 09/05/24 13:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 86.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00093		0.0023	0.00093	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
1,1,2-Trichloroethane	<0.00086		0.0023	0.00086	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
1,1-Dichloroethane	<0.00086		0.0023	0.00086	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
1,1-Dichloroethene	<0.00094		0.0023	0.00094	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
1,2-Dichloroethane	<0.0015		0.0057	0.0015	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
1,2-Dichloropropane	<0.00059		0.0023	0.00059	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
2-Butanone (MEK)	<0.0025		0.0057	0.0025	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
2-Hexanone	<0.0035		0.0057	0.0035	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0057	0.0041	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Acetone	<0.0096		0.023	0.0096	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Benzene	<0.00072		0.0023	0.00072	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Bromodichloromethane	<0.00074		0.0023	0.00074	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Bromomethane	<0.0028		0.0057	0.0028	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Carbon disulfide	**0.0015**	**J**	0.0057	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Carbon tetrachloride	<0.00078		0.0023	0.00078	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Chlorobenzene	<0.00097		0.0023	0.00097	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Chloroethane	<0.0019		0.0057	0.0019	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Chloroform	<0.0016		0.0023	0.0016	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Chloromethane	<0.0011		0.0057	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
cis-1,2-Dichloroethene	<0.00092		0.0023	0.00092	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Methyl tert-butyl ether	<0.00074		0.0023	0.00074	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Methylene Chloride	<0.0024	*-	0.0057	0.0024	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Toluene	<0.00046		0.0023	0.00046	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Xylenes, Total	<0.00079		0.0046	0.00079	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
trans-1,2-Dichloroethene	<0.00087		0.0023	0.00087	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Trichloroethene	<0.00062		0.0023	0.00062	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1
Vinyl chloride	<0.00094		0.0023	0.00094	mg/Kg	☼	09/06/24 18:47	09/13/24 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*	*09/06/24 18:47*	*09/13/24 14:42*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*09/06/24 18:47*	*09/13/24 14:42*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*09/06/24 18:47*	*09/13/24 14:42*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*09/06/24 18:47*	*09/13/24 14:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0078		0.038	0.0078	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Acenaphthylene	<0.0065		0.038	0.0065	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Anthracene	**0.019**	**J**	0.038	0.0078	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Benzo[a]anthracene	**0.059**		0.038	0.0081	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Benzo[a]pyrene	**0.062**		0.038	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Benzo[b]fluoranthene	**0.095**		0.038	0.036	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Benzo[g,h,i]perylene	**0.063**		0.038	0.0083	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB53 (10-12.5)
Lab Sample ID: 500-256275-20
Date Collected: 09/05/24 13:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 86.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.053**		0.038	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Chrysene	**0.10**		0.038	0.010	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Fluoranthene	**0.075**		0.038	0.0089	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Fluorene	<0.011		0.038	0.011	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Indeno[1,2,3-cd]pyrene	**0.060**		0.038	0.037	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Naphthalene	**0.014**	**J**	0.038	0.0069	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Phenanthrene	**0.25**		0.038	0.0083	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Pyrene	**0.083**		0.038	0.010	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
1,2-Dichlorobenzene	<0.016		0.19	0.016	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2,4,5-Trichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2,4,6-Trichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2,4-Dichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2,4-Dimethylphenol	<0.085		0.38	0.085	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2,4-Dinitrophenol	<0.22		0.77	0.22	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2,4-Dinitrotoluene	<0.022		0.19	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2-Methylnaphthalene	<0.0077		0.077	0.0077	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
2-Nitrophenol	<0.026		0.38	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
3 & 4 Methylphenol	<0.028		0.19	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
3-Nitroaniline	<0.017		0.38	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
4,6-Dinitro-2-methylphenol	<0.22		0.77	0.22	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
4-Chloro-3-methylphenol	<0.015		0.38	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
4-Chloroaniline	<0.40		0.77	0.40	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
4-Chlorophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
4-Nitroaniline	<0.028		0.38	0.028	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
4-Nitrophenol	<0.14		0.77	0.14	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Bis(2-chloroethyl)ether	<0.018		0.19	0.018	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Dibenzofuran	<0.014		0.19	0.014	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Dimethyl phthalate	<0.0083		0.19	0.0083	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Di-n-octyl phthalate	<0.27		0.38	0.27	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Hexachlorobenzene	<0.0073		0.077	0.0073	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Hexachlorobutadiene	<0.022		0.19	0.022	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1

Client Sample ID: SB53 (10-12.5)
Lab Sample ID: 500-256275-20
Date Collected: 09/05/24 13:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 86.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.41		0.77	0.41	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Isophorone	<0.020		0.19	0.020	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Nitrobenzene	<0.012		0.038	0.012	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
N-Nitrosodi-n-propylamine	<0.0075		0.077	0.0075	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
N-Nitrosodiphenylamine	<0.023		0.19	0.023	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Pentachlorophenol	<0.096		0.77	0.096	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1
Phenol	<0.017		0.19	0.017	mg/Kg	☼	09/18/24 09:50	09/19/24 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*74*		*31 - 166*	*09/18/24 09:50*	*09/19/24 17:31*	*1*
Phenol-d5 (Surr)	*73*		*30 - 153*	*09/18/24 09:50*	*09/19/24 17:31*	*1*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*09/18/24 09:50*	*09/19/24 17:31*	*1*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*	*09/18/24 09:50*	*09/19/24 17:31*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*31 - 143*	*09/18/24 09:50*	*09/19/24 17:31*	*1*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*09/18/24 09:50*	*09/19/24 17:31*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
4,4'-DDE	<0.0098		0.019	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
4,4'-DDT	<0.0091		0.019	0.0091	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Chlordane (technical)	<0.036		0.076	0.036	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
delta-BHC	<0.0091		0.019	0.0091	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Dieldrin	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Endosulfan sulfate	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Endrin	<0.0098		0.019	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Endrin ketone	<0.0093		0.019	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
gamma-BHC (Lindane)	<0.0095		0.019	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Methoxychlor	<0.013		0.094	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10
Toxaphene	<0.076		0.19	0.076	mg/Kg	☼	09/17/24 07:08	09/24/24 12:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*150*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 12:58*	*10*
Tetrachloro-m-xylene	*72*		*30 - 121*	*09/17/24 07:08*	*09/24/24 12:58*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:23	1
PCB-1221	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:23	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB53 (10-12.5)
Lab Sample ID: 500-256275-20
Date Collected: 09/05/24 13:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 86.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:23	1
PCB-1242	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:23	1
PCB-1248	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:23	1
PCB-1254	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:23	1
PCB-1260	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:23	1
Polychlorinated biphenyls, Total	<0.019		0.019		mg/Kg	☼	09/17/24 07:08	09/23/24 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/17/24 07:08*	*09/23/24 22:23*	*1*
DCB Decachlorobiphenyl	*92*		*37 - 121*	*09/17/24 07:08*	*09/23/24 22:23*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8200**		100		mg/Kg	☼	09/19/24 09:42	09/23/24 16:28	5
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Arsenic	**5.5**		1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Barium	**54**		1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Beryllium	<2.0		2.0		mg/Kg	☼	09/19/24 09:42	09/23/24 16:28	5
Cadmium	<0.20		0.20		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Calcium	**7900**		20		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Chromium	**13**		1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Cobalt	**4.4**		0.50		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Copper	**14**		1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Iron	**26000**	**B**	100		mg/Kg	☼	09/19/24 09:42	09/23/24 16:28	5
Lead	**12**		0.50		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Magnesium	**5100**		50		mg/Kg	☼	09/19/24 09:42	09/23/24 16:28	5
Manganese	**920**	**B**	1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Nickel	**9.5**		1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Potassium	**1100**		250		mg/Kg	☼	09/19/24 09:42	09/23/24 16:28	5
Selenium	<1.0		1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Silver	<0.50		0.50		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Sodium	<500		500		mg/Kg	☼	09/19/24 09:42	09/23/24 16:28	5
Thallium	**1.2**		1.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Vanadium	**23**		0.50		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1
Zinc	**41**		2.0		mg/Kg	☼	09/19/24 09:42	09/20/24 00:23	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/20/24 17:35	09/23/24 08:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**3.0**		0.24		mg/Kg	☼	09/10/24 15:04	09/11/24 14:10	1
pH (SW846 9045D)	**8.59**		0.20		SU			09/11/24 14:18	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB54 (0-3)
Lab Sample ID: 500-256275-21
Date Collected: 09/05/24 14:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 85.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.035		0.077	0.035	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
1,1,2,2-Tetrachloroethane	<0.050		0.077	0.050	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
1,1,2-Trichloroethane	<0.057		0.077	0.057	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
1,1-Dichloroethane	<0.028		0.077	0.028	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
1,1-Dichloroethene	<0.037		0.077	0.037	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
1,2-Dichloroethane	<0.045		0.077	0.045	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
1,2-Dichloropropane	<0.029		0.077	0.029	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
2-Butanone (MEK)	<0.24		0.39	0.24	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
2-Hexanone	<0.23		0.39	0.23	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
4-Methyl-2-pentanone (MIBK)	<0.21		0.39	0.21	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Acetone	<0.56		0.77	0.56	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Benzene	**0.13**		0.019	0.0095	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Bromodichloromethane	<0.044		0.077	0.044	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Bromoform	<0.074		0.077	0.074	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Bromomethane	<0.14		0.23	0.14	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Carbon disulfide	<0.083		0.15	0.083	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Carbon tetrachloride	<0.032		0.077	0.032	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Chlorobenzene	<0.032		0.077	0.032	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Chloroethane	<0.036		0.39	0.036	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Chloroform	<0.071		0.15	0.071	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Chloromethane	<0.061		0.39	0.061	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
cis-1,2-Dichloroethene	<0.032		0.077	0.032	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
1,3-Dichloropropene, Total	<0.049		0.077	0.049	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Dibromochloromethane	<0.064		0.077	0.064	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Ethylbenzene	<0.013		0.019	0.013	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Methyl tert-butyl ether	<0.033		0.077	0.033	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Methylene Chloride	<0.17		0.39	0.17	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Styrene	<0.024		0.077	0.024	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Tetrachloroethene	<0.030		0.077	0.030	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Toluene	<0.016		0.019	0.016	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Xylenes, Total	**0.028**	**J**	0.039	0.018	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
trans-1,2-Dichloroethene	<0.034		0.077	0.034	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Trichloroethene	<0.011		0.039	0.011	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50
Vinyl chloride	<0.036		0.077	0.036	mg/Kg	☼	09/05/24 14:00	09/16/24 19:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*09/05/24 14:00*	*09/16/24 19:08*	*50*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*	*09/05/24 14:00*	*09/16/24 19:08*	*50*
Dibromofluoromethane	*95*		*75 - 120*	*09/05/24 14:00*	*09/16/24 19:08*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*09/05/24 14:00*	*09/16/24 19:08*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.017**	**J**	0.076	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Acenaphthylene	**0.079**		0.076	0.013	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Anthracene	**0.12**		0.076	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Benzo[a]anthracene	**1.6**		0.076	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Benzo[a]pyrene	**1.8**		0.076	0.074	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Benzo[b]fluoranthene	**2.7**		0.076	0.073	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Benzo[g,h,i]perylene	**0.91**		0.076	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB54 (0-3)
Lab Sample ID: 500-256275-21
Date Collected: 09/05/24 14:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 85.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.95**		0.076	0.029	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Chrysene	**1.9**		0.076	0.020	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Dibenz(a,h)anthracene	**0.28**		0.076	0.076	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Fluoranthene	**2.3**		0.076	0.018	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Fluorene	<0.023		0.076	0.023	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Indeno[1,2,3-cd]pyrene	**0.95**		0.076	0.074	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Naphthalene	**0.061**	J	0.076	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Phenanthrene	**0.30**		0.076	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Pyrene	**2.0**		0.076	0.021	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
1,2,4-Trichlorobenzene	<0.054		0.38	0.054	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
1,2-Dichlorobenzene	<0.031		0.38	0.031	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
1,3-Dichlorobenzene	<0.034		0.38	0.034	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
1,4-Dichlorobenzene	<0.036		0.38	0.036	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2,4,5-Trichlorophenol	<0.029		0.76	0.029	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2,4,6-Trichlorophenol	<0.026		0.76	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2,4-Dichlorophenol	<0.027		0.76	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2,4-Dimethylphenol	<0.17		0.76	0.17	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2,4-Dinitrophenol	<0.44		1.5	0.44	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2,4-Dinitrotoluene	<0.043		0.38	0.043	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2,6-Dinitrotoluene	<0.026		0.38	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2-Chloronaphthalene	<0.029		0.38	0.029	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2-Chlorophenol	<0.025		0.38	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2-Methylnaphthalene	**0.033**	J	0.15	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2-Methylphenol	<0.040		0.38	0.040	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2-Nitroaniline	<0.041		0.38	0.041	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
2-Nitrophenol	<0.052		0.76	0.052	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
3,3'-Dichlorobenzidine	<0.062		0.38	0.062	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
3 & 4 Methylphenol	<0.056		0.38	0.056	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
3-Nitroaniline	<0.035		0.76	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
4,6-Dinitro-2-methylphenol	<0.43		1.5	0.43	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
4-Bromophenyl phenyl ether	<0.052		0.38	0.052	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
4-Chloro-3-methylphenol	<0.030		0.76	0.030	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
4-Chloroaniline	<0.80		1.5	0.80	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
4-Chlorophenyl phenyl ether	<0.10		0.38	0.10	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
4-Nitroaniline	<0.056		0.76	0.056	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
4-Nitrophenol	<0.28		1.5	0.28	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Bis(2-chloroethoxy)methane	<0.029		0.38	0.029	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Bis(2-chloroethyl)ether	<0.035		0.38	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
bis(chloroisopropyl) ether	<0.055		0.38	0.055	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Bis(2-ethylhexyl) phthalate	<0.30		0.38	0.30	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Butyl benzyl phthalate	<0.038		0.38	0.038	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Carbazole	**0.035**	J	0.38	0.030	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Dibenzofuran	<0.027		0.38	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Diethyl phthalate	<0.035		0.38	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Dimethyl phthalate	<0.017		0.38	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Di-n-butyl phthalate	<0.024		0.38	0.024	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Di-n-octyl phthalate	<0.53		0.76	0.53	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Hexachlorobenzene	<0.015		0.15	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Hexachlorobutadiene	<0.043		0.38	0.043	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2

Client Sample ID: SB54 (0-3)
Lab Sample ID: 500-256275-21
Date Collected: 09/05/24 14:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 85.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.81		1.5	0.81	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Hexachloroethane	<0.038		0.38	0.038	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Isophorone	<0.039		0.38	0.039	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Nitrobenzene	<0.024		0.076	0.024	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
N-Nitrosodiphenylamine	<0.045		0.38	0.045	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Pentachlorophenol	<0.19		1.5	0.19	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2
Phenol	<0.033		0.38	0.033	mg/Kg	☼	09/17/24 13:27	09/18/24 18:39	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*47*		*31 - 166*	*09/17/24 13:27*	*09/18/24 18:39*	*2*
Phenol-d5 (Surr)	*54*		*30 - 153*	*09/17/24 13:27*	*09/18/24 18:39*	*2*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*09/17/24 13:27*	*09/18/24 18:39*	*2*
2-Fluorobiphenyl (Surr)	*59*		*43 - 145*	*09/17/24 13:27*	*09/18/24 18:39*	*2*
2,4,6-Tribromophenol (Surr)	*29*	*S1-*	*31 - 143*	*09/17/24 13:27*	*09/18/24 18:39*	*2*
Terphenyl-d14 (Surr)	*55*		*42 - 157*	*09/17/24 13:27*	*09/18/24 18:39*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
4,4'-DDT	<0.0093		0.020	0.0093	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
alpha-Chlordane	<0.010		0.020	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Chlordane (technical)	<0.037		0.078	0.037	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
delta-BHC	<0.0094		0.020	0.0094	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Endrin	<0.010		0.020	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Endrin aldehyde	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Endrin ketone	<0.0095		0.020	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
gamma-BHC (Lindane)	<0.0098		0.020	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
gamma-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Heptachlor epoxide	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Methoxychlor	<0.013		0.096	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10
Toxaphene	<0.078		0.19	0.078	mg/Kg	☼	09/17/24 07:08	09/24/24 13:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*305*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 13:09*	*10*
Tetrachloro-m-xylene	*95*		*30 - 121*	*09/17/24 07:08*	*09/24/24 13:09*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/26/24 14:28	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/26/24 14:28	10

Client Sample ID: SB54 (0-3)
Lab Sample ID: 500-256275-21

Date Collected: 09/05/24 14:00
Matrix: Solid

Date Received: 09/06/24 12:35
Percent Solids: 85.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/26/24 14:28	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/26/24 14:28	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/26/24 14:28	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/26/24 14:28	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/26/24 14:28	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/17/24 07:08	09/26/24 14:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*49 - 129*	*09/17/24 07:08*	*09/26/24 14:28*	*10*
DCB Decachlorobiphenyl	*86*		*37 - 121*	*09/17/24 07:08*	*09/26/24 14:28*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		110		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Antimony	<2.1		2.1		mg/Kg	☼	09/19/24 09:45	09/20/24 00:03	1
Arsenic	**15**		5.3		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Barium	**160**		1.1		mg/Kg	☼	09/19/24 09:45	09/20/24 00:03	1
Beryllium	<0.42		0.42		mg/Kg	☼	09/19/24 09:45	09/20/24 00:03	1
Cadmium	<1.1		1.1		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Calcium	**90000**		110		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Chromium	**430**		5.3		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Cobalt	**8.6**		2.6		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Copper	**57**		5.3		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Iron	**130000**		110		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Lead	**120**		2.6		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Magnesium	**14000**		11		mg/Kg	☼	09/19/24 09:45	09/20/24 00:03	1
Manganese	**17000**		5.3		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Nickel	**51**		5.3		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Potassium	**910**		53		mg/Kg	☼	09/19/24 09:45	09/20/24 00:03	1
Selenium	**6.8**		5.3		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Silver	<2.6		2.6		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Sodium	<530		530		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Thallium	**27**		5.3		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Vanadium	**170**		2.6		mg/Kg	☼	09/19/24 09:45	09/23/24 12:53	5
Zinc	**170**		2.1		mg/Kg	☼	09/19/24 09:45	09/20/24 00:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**		0.019		mg/Kg	☼	09/20/24 17:35	09/23/24 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**14**		1.4		mg/Kg	☼	09/10/24 15:04	09/11/24 14:15	5
pH (SW846 9045D)	**8.00**		0.20		SU			09/11/24 14:20	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB54 (10-12.5)
Lab Sample ID: 500-256275-22
Date Collected: 09/05/24 14:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 79.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.036		0.079	0.036	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
1,1,2,2-Tetrachloroethane	<0.051		0.079	0.051	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
1,1,2-Trichloroethane	<0.058		0.079	0.058	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
1,1-Dichloroethane	<0.029		0.079	0.029	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
1,1-Dichloroethene	<0.038		0.079	0.038	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
1,2-Dichloroethane	<0.046		0.079	0.046	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
1,2-Dichloropropane	<0.029		0.079	0.029	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
2-Butanone (MEK)	<0.24		0.39	0.24	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
2-Hexanone	<0.23		0.39	0.23	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
4-Methyl-2-pentanone (MIBK)	<0.21		0.39	0.21	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Acetone	<0.57		0.79	0.57	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Benzene	<0.0097		0.020	0.0097	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Bromodichloromethane	<0.045		0.079	0.045	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Bromoform	<0.076		0.079	0.076	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Bromomethane	<0.14		0.24	0.14	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Carbon disulfide	<0.085		0.16	0.085	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Carbon tetrachloride	<0.033		0.079	0.033	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Chlorobenzene	<0.032		0.079	0.032	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Chloroethane	<0.037		0.39	0.037	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Chloroform	<0.073		0.16	0.073	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Chloromethane	<0.062		0.39	0.062	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
cis-1,2-Dichloroethene	<0.033		0.079	0.033	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
1,3-Dichloropropene, Total	<0.050		0.079	0.050	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Dibromochloromethane	<0.065		0.079	0.065	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Ethylbenzene	<0.014		0.020	0.014	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Methyl tert-butyl ether	<0.034		0.079	0.034	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Methylene Chloride	<0.17		0.39	0.17	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Styrene	<0.024		0.079	0.024	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Tetrachloroethene	<0.031		0.079	0.031	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Toluene	**0.020**		0.020	0.017	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Xylenes, Total	**0.024**	**J**	0.039	0.019	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
trans-1,2-Dichloroethene	<0.035		0.079	0.035	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Trichloroethene	<0.012		0.039	0.012	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50
Vinyl chloride	<0.037		0.079	0.037	mg/Kg	☼	09/05/24 14:30	09/16/24 19:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*	*09/05/24 14:30*	*09/16/24 19:31*	*50*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*	*09/05/24 14:30*	*09/16/24 19:31*	*50*
Dibromofluoromethane	*96*		*75 - 120*	*09/05/24 14:30*	*09/16/24 19:31*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*09/05/24 14:30*	*09/16/24 19:31*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.017		0.083	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Acenaphthylene	**0.041**	**J**	0.083	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Anthracene	**0.041**	**J**	0.083	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Benzo[a]anthracene	**0.17**		0.083	0.018	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Benzo[a]pyrene	**0.15**		0.083	0.081	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Benzo[b]fluoranthene	**0.32**		0.083	0.080	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Benzo[g,h,i]perylene	**0.35**		0.083	0.018	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB54 (10-12.5)
Lab Sample ID: 500-256275-22
Date Collected: 09/05/24 14:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 79.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.11**		0.083	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Chrysene	**0.27**		0.083	0.022	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Dibenz(a,h)anthracene	<0.083		0.083	0.083	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Fluoranthene	**0.25**		0.083	0.019	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Fluorene	<0.025		0.083	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Indeno[1,2,3-cd]pyrene	**0.17**		0.083	0.081	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Naphthalene	**0.15**		0.083	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Phenanthrene	**0.20**		0.083	0.018	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Pyrene	**0.22**		0.083	0.023	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
1,2,4-Trichlorobenzene	<0.060		0.42	0.060	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
1,2-Dichlorobenzene	<0.034		0.42	0.034	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
1,3-Dichlorobenzene	<0.038		0.42	0.038	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
1,4-Dichlorobenzene	<0.040		0.42	0.040	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2,4,5-Trichlorophenol	<0.032		0.83	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2,4,6-Trichlorophenol	<0.028		0.83	0.028	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2,4-Dichlorophenol	<0.029		0.83	0.029	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2,4-Dimethylphenol	<0.19		0.83	0.19	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2,4-Dinitrophenol	<0.48		1.7	0.48	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2,4-Dinitrotoluene	<0.048		0.42	0.048	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2,6-Dinitrotoluene	<0.028		0.42	0.028	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2-Chloronaphthalene	<0.031		0.42	0.031	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2-Chlorophenol	<0.027		0.42	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2-Methylnaphthalene	**0.034**	**J**	0.17	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2-Methylphenol	<0.044		0.42	0.044	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2-Nitroaniline	<0.045		0.42	0.045	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
2-Nitrophenol	<0.057		0.83	0.057	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
3,3'-Dichlorobenzidine	<0.068		0.42	0.068	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
3 & 4 Methylphenol	<0.061		0.42	0.061	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
3-Nitroaniline	<0.038		0.83	0.038	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
4,6-Dinitro-2-methylphenol	<0.47		1.7	0.47	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
4-Bromophenyl phenyl ether	<0.057		0.42	0.057	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
4-Chloro-3-methylphenol	<0.033		0.83	0.033	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
4-Chloroaniline	<0.88		1.7	0.88	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
4-Chlorophenyl phenyl ether	<0.11		0.42	0.11	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
4-Nitroaniline	<0.062		0.83	0.062	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
4-Nitrophenol	<0.31		1.7	0.31	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Bis(2-chloroethoxy)methane	<0.031		0.42	0.031	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Bis(2-chloroethyl)ether	<0.039		0.42	0.039	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
bis(chloroisopropyl) ether	<0.060		0.42	0.060	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Bis(2-ethylhexyl) phthalate	<0.33		0.42	0.33	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Butyl benzyl phthalate	<0.042		0.42	0.042	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Carbazole	<0.033		0.42	0.033	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Dibenzofuran	<0.030		0.42	0.030	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Diethyl phthalate	<0.038		0.42	0.038	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Dimethyl phthalate	<0.018		0.42	0.018	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Di-n-butyl phthalate	<0.026		0.42	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Di-n-octyl phthalate	<0.58		0.83	0.58	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Hexachlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Hexachlorobutadiene	<0.047		0.42	0.047	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2

Client Sample ID: SB54 (10-12.5)
Lab Sample ID: 500-256275-22
Date Collected: 09/05/24 14:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 79.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.89		1.7	0.89	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Hexachloroethane	<0.042		0.42	0.042	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Isophorone	<0.043		0.42	0.043	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Nitrobenzene	<0.026		0.083	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
N-Nitrosodi-n-propylamine	<0.017		0.17	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
N-Nitrosodiphenylamine	<0.050		0.42	0.050	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Pentachlorophenol	<0.21		1.7	0.21	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2
Phenol	<0.036		0.42	0.036	mg/Kg	☼	09/17/24 13:27	09/18/24 19:03	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*51*		*31 - 166*	*09/17/24 13:27*	*09/18/24 19:03*	*2*
Phenol-d5 (Surr)	*55*		*30 - 153*	*09/17/24 13:27*	*09/18/24 19:03*	*2*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/17/24 13:27*	*09/18/24 19:03*	*2*
2-Fluorobiphenyl (Surr)	*66*		*43 - 145*	*09/17/24 13:27*	*09/18/24 19:03*	*2*
2,4,6-Tribromophenol (Surr)	*38*		*31 - 143*	*09/17/24 13:27*	*09/18/24 19:03*	*2*
Terphenyl-d14 (Surr)	*59*		*42 - 157*	*09/17/24 13:27*	*09/18/24 19:03*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011	F1	0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
4,4'-DDE	<0.011	F1	0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
4,4'-DDT	<0.0098	F1	0.021	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Aldrin	<0.014	F1 F2	0.021	0.014	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
alpha-BHC	<0.012	F1	0.021	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
alpha-Chlordane	<0.011	F1	0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
beta-BHC	<0.017		0.021	0.017	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Chlordane (technical)	<0.039		0.082	0.039	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
delta-BHC	<0.0098	F1	0.021	0.0098	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Dieldrin	<0.011	F1	0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Endosulfan I	<0.011	F1 F2	0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Endosulfan II	<0.011	F1	0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Endosulfan sulfate	<0.011	F1	0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Endrin	<0.010	F1	0.021	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Endrin aldehyde	<0.012	F1	0.021	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Endrin ketone	<0.010	F1	0.021	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
gamma-BHC (Lindane)	<0.010	F1	0.021	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
gamma-Chlordane	<0.012	F1	0.021	0.012	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Heptachlor	<0.011	F1	0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Heptachlor epoxide	<0.011	F1 F2	0.021	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Methoxychlor	<0.014	F1	0.10	0.014	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10
Toxaphene	<0.082		0.20	0.082	mg/Kg	☼	09/17/24 07:08	09/24/24 13:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*112*		*33 - 148*	*09/17/24 07:08*	*09/24/24 13:21*	*10*
Tetrachloro-m-xylene	*74*		*30 - 121*	*09/17/24 07:08*	*09/24/24 13:21*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.020	F2 F1	0.020		mg/Kg	☼	09/17/24 07:08	09/23/24 22:54	1
PCB-1221	<0.020		0.020		mg/Kg	☼	09/17/24 07:08	09/23/24 22:54	1

Client Sample ID: SB54 (10-12.5)
Lab Sample ID: 500-256275-22
Date Collected: 09/05/24 14:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 79.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.020		0.020		mg/Kg	☼	09/17/24 07:08	09/23/24 22:54	1
PCB-1242	<0.020		0.020		mg/Kg	☼	09/17/24 07:08	09/23/24 22:54	1
PCB-1248	<0.020		0.020		mg/Kg	☼	09/17/24 07:08	09/23/24 22:54	1
PCB-1254	<0.020		0.020		mg/Kg	☼	09/17/24 07:08	09/23/24 22:54	1
PCB-1260	<0.020	F1	0.020		mg/Kg	☼	09/17/24 07:08	09/23/24 22:54	1
Polychlorinated biphenyls, Total	<0.020		0.020		mg/Kg	☼	09/17/24 07:08	09/23/24 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*49 - 129*	*09/17/24 07:08*	*09/23/24 22:54*	*1*
DCB Decachlorobiphenyl	*89*		*37 - 121*	*09/17/24 07:08*	*09/23/24 22:54*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		120		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Antimony	<2.4		2.4		mg/Kg	☼	09/19/24 09:45	09/20/24 00:08	1
Arsenic	**17**		6.0		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Barium	**210**		1.2		mg/Kg	☼	09/19/24 09:45	09/20/24 00:08	1
Beryllium	**3.3**		2.4		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Cadmium	<1.2		1.2		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Calcium	**47000**		120		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Chromium	**26**		1.2		mg/Kg	☼	09/19/24 09:45	09/20/24 00:08	1
Cobalt	**9.3**		3.0		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Copper	**37**		6.0		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Iron	**220000**		120		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Lead	**99**		3.0		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Magnesium	**2800**		12		mg/Kg	☼	09/19/24 09:45	09/20/24 00:08	1
Manganese	**8800**		6.0		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Nickel	**16**		6.0		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Potassium	**1200**		60		mg/Kg	☼	09/19/24 09:45	09/20/24 00:08	1
Selenium	<6.0		6.0		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Silver	<3.0		3.0		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Sodium	<600		600		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Thallium	**16**		6.0		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Vanadium	**39**		3.0		mg/Kg	☼	09/19/24 09:45	09/23/24 12:58	5
Zinc	**170**		2.4		mg/Kg	☼	09/19/24 09:45	09/20/24 00:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.080**		0.020		mg/Kg	☼	09/20/24 17:35	09/23/24 08:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**15**		1.4		mg/Kg	☼	09/10/24 15:04	09/11/24 15:27	5
pH (SW846 9045D)	**7.89**		0.20		SU			09/11/24 14:23	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB55 (0-3)
Lab Sample ID: 500-256275-23
Date Collected: 09/05/24 15:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 90.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00078		0.0019	0.00078	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
1,1,2,2-Tetrachloroethane	<0.00096		0.0019	0.00096	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
1,1,2-Trichloroethane	<0.00072		0.0019	0.00072	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
1,1-Dichloroethane	<0.00073		0.0019	0.00073	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
1,1-Dichloroethene	<0.00080		0.0019	0.00080	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
1,2-Dichloroethane	<0.0013		0.0048	0.0013	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
1,2-Dichloropropane	<0.00050		0.0019	0.00050	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
2-Butanone (MEK)	**0.018**		0.0048	0.0021	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
2-Hexanone	<0.0029		0.0048	0.0029	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0048	0.0034	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Acetone	**0.040**		0.019	0.0081	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Benzene	<0.00061		0.0019	0.00061	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Bromodichloromethane	<0.00062		0.0019	0.00062	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Bromoform	<0.0011		0.0019	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Bromomethane	<0.0024		0.0048	0.0024	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Carbon disulfide	**0.0021**	**J**	0.0048	0.00089	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Carbon tetrachloride	<0.00066		0.0019	0.00066	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Chlorobenzene	<0.00082		0.0019	0.00082	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Chloroethane	<0.0016		0.0048	0.0016	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Chloroform	<0.0014		0.0019	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Chloromethane	<0.00094		0.0048	0.00094	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
cis-1,2-Dichloroethene	<0.00078		0.0019	0.00078	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
1,3-Dichloropropene, Total	<0.00093		0.0019	0.00093	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Dibromochloromethane	<0.00090		0.0019	0.00090	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Ethylbenzene	<0.0010		0.0019	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Methyl tert-butyl ether	<0.00062		0.0019	0.00062	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Methylene Chloride	<0.0021		0.0048	0.0021	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Styrene	<0.00087		0.0019	0.00087	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Tetrachloroethene	<0.0011		0.0019	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Toluene	<0.00039		0.0019	0.00039	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Xylenes, Total	<0.00066		0.0039	0.00066	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
trans-1,2-Dichloroethene	<0.00073		0.0019	0.00073	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Trichloroethene	<0.00053		0.0019	0.00053	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1
Vinyl chloride	<0.00079		0.0019	0.00079	mg/Kg	☼	09/06/24 18:47	09/12/24 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 134*	*09/06/24 18:47*	*09/12/24 18:32*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*09/06/24 18:47*	*09/12/24 18:32*	*1*
Dibromofluoromethane	*59*	*S1-*	*75 - 126*	*09/06/24 18:47*	*09/12/24 18:32*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*09/06/24 18:47*	*09/12/24 18:32*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.023**	**J**	0.070	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Acenaphthylene	**0.041**	**J**	0.070	0.012	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Anthracene	**0.076**		0.070	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Benzo[a]anthracene	**0.37**		0.070	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Benzo[a]pyrene	**0.50**		0.070	0.068	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Benzo[b]fluoranthene	**0.71**		0.070	0.067	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Benzo[g,h,i]perylene	**0.41**		0.070	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB55 (0-3)
Lab Sample ID: 500-256275-23
Date Collected: 09/05/24 15:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 90.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.27**		0.070	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Chrysene	**0.44**		0.070	0.018	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Dibenz(a,h)anthracene	**0.092**		0.070	0.070	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Fluoranthene	**0.67**		0.070	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Fluorene	<0.021		0.070	0.021	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Indeno[1,2,3-cd]pyrene	**0.39**		0.070	0.068	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Naphthalene	**0.023**	J	0.070	0.013	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Phenanthrene	**0.26**		0.070	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Pyrene	**0.56**		0.070	0.019	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
1,2,4-Trichlorobenzene	<0.050		0.35	0.050	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
1,2-Dichlorobenzene	<0.029		0.35	0.029	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
1,3-Dichlorobenzene	<0.032		0.35	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2,4,5-Trichlorophenol	<0.026		0.70	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2,4,6-Trichlorophenol	<0.024		0.70	0.024	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2,4-Dichlorophenol	<0.025		0.70	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2,4-Dimethylphenol	<0.16		0.70	0.16	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2,4-Dinitrotoluene	<0.040		0.35	0.040	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2-Chlorophenol	<0.023		0.35	0.023	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2-Methylnaphthalene	**0.028**	J	0.14	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2-Methylphenol	<0.037		0.35	0.037	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2-Nitroaniline	<0.038		0.35	0.038	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
2-Nitrophenol	<0.048		0.70	0.048	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
3,3'-Dichlorobenzidine	<0.057		0.35	0.057	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
3-Nitroaniline	<0.032		0.70	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
4-Bromophenyl phenyl ether	<0.048		0.35	0.048	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
4-Chloro-3-methylphenol	<0.027		0.70	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
4-Chloroaniline	<0.74		1.4	0.74	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
4-Chlorophenyl phenyl ether	<0.092		0.35	0.092	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
4-Nitroaniline	<0.052		0.70	0.052	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Butyl benzyl phthalate	<0.035		0.35	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Carbazole	**0.035**	J	0.35	0.028	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Dibenzofuran	<0.025		0.35	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Di-n-octyl phthalate	<0.49		0.70	0.49	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Hexachlorobutadiene	<0.040		0.35	0.040	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB55 (0-3)
Lab Sample ID: 500-256275-23
Date Collected: 09/05/24 15:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 90.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.74		1.4	0.74	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Nitrobenzene	<0.022		0.070	0.022	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
N-Nitrosodiphenylamine	<0.042		0.35	0.042	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/17/24 13:27	09/18/24 19:27	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*22*	*S1-*	*31 - 166*	*09/17/24 13:27*	*09/18/24 19:27*	*2*
Phenol-d5 (Surr)	*51*		*30 - 153*	*09/17/24 13:27*	*09/18/24 19:27*	*2*
Nitrobenzene-d5 (Surr)	*56*		*37 - 147*	*09/17/24 13:27*	*09/18/24 19:27*	*2*
2-Fluorobiphenyl (Surr)	*57*		*43 - 145*	*09/17/24 13:27*	*09/18/24 19:27*	*2*
2,4,6-Tribromophenol (Surr)	*1*	*S1-*	*31 - 143*	*09/17/24 13:27*	*09/18/24 19:27*	*2*
Terphenyl-d14 (Surr)	*56*		*42 - 157*	*09/17/24 13:27*	*09/18/24 19:27*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.096		0.18	0.096	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
4,4'-DDE	**1.2**		0.18	0.092	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
4,4'-DDT	**3.3**		0.18	0.085	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Aldrin	<0.12		0.18	0.12	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
alpha-BHC	<0.10		0.18	0.10	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
alpha-Chlordane	<0.096		0.18	0.096	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
beta-BHC	<0.14		0.18	0.14	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Chlordane (technical)	<0.34		0.71	0.34	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
delta-BHC	<0.086		0.18	0.086	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Dieldrin	**0.51**		0.18	0.094	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Endosulfan I	<0.097		0.18	0.097	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Endosulfan II	**0.64**		0.18	0.098	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Endosulfan sulfate	<0.099		0.18	0.099	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Endrin	**0.14**	**J**	0.18	0.092	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Endrin aldehyde	**0.14**	**J**	0.18	0.10	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Endrin ketone	<0.087		0.18	0.087	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
gamma-BHC (Lindane)	<0.089		0.18	0.089	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
gamma-Chlordane	<0.10		0.18	0.10	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Heptachlor	<0.097		0.18	0.097	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Heptachlor epoxide	**1.1**		0.18	0.097	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Methoxychlor	<0.12		0.88	0.12	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100
Toxaphene	<0.72		1.8	0.72	mg/Kg	☼	09/17/24 07:08	09/25/24 10:12	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/17/24 07:08*	*09/25/24 10:12*	*100*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/17/24 07:08*	*09/25/24 10:12*	*100*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<8.9		8.9		mg/Kg	☼	09/17/24 07:08	09/26/24 13:09	500
PCB-1221	<8.9		8.9		mg/Kg	☼	09/17/24 07:08	09/26/24 13:09	500

Client Sample ID: SB55 (0-3)
Lab Sample ID: 500-256275-23

Date Collected: 09/05/24 15:00
Matrix: Solid

Date Received: 09/06/24 12:35
Percent Solids: 90.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<8.9		8.9		mg/Kg	☼	09/17/24 07:08	09/26/24 13:09	500
PCB-1242	<8.9		8.9		mg/Kg	☼	09/17/24 07:08	09/26/24 13:09	500
PCB-1248	<8.9		8.9		mg/Kg	☼	09/17/24 07:08	09/26/24 13:09	500
PCB-1254	**47**		8.9		mg/Kg	☼	09/17/24 07:08	09/26/24 13:09	500
PCB-1260	<8.9		8.9		mg/Kg	☼	09/17/24 07:08	09/26/24 13:09	500
Polychlorinated biphenyls, Total	**47**		8.9		mg/Kg	☼	09/17/24 07:08	09/26/24 13:09	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/17/24 07:08*	*09/26/24 13:09*	*500*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/17/24 07:08*	*09/26/24 13:09*	*500*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7800**		97		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Antimony	<1.9		1.9		mg/Kg	☼	09/19/24 09:45	09/20/24 00:12	1
Arsenic	**5.8**		4.9		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Barium	**59**		0.97		mg/Kg	☼	09/19/24 09:45	09/20/24 00:12	1
Beryllium	<1.9		1.9		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Cadmium	**0.99**		0.97		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Calcium	**120000**		97		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Chromium	**420**		4.9		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Cobalt	**10**		2.4		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Copper	**62**		4.9		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Iron	**99000**		97		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Lead	**57**		2.4		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Magnesium	**24000**		9.7		mg/Kg	☼	09/19/24 09:45	09/20/24 00:12	1
Manganese	**9600**		4.9		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Nickel	**870**		4.9		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Potassium	**380**		49		mg/Kg	☼	09/19/24 09:45	09/20/24 00:12	1
Selenium	<4.9		4.9		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Silver	<2.4		2.4		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Sodium	<490		490		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Thallium	**15**		4.9		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Vanadium	**250**		2.4		mg/Kg	☼	09/19/24 09:45	09/23/24 13:02	5
Zinc	**86**		1.9		mg/Kg	☼	09/19/24 09:45	09/20/24 00:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.096**		0.018		mg/Kg	☼	09/20/24 17:35	09/23/24 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.5**		0.25		mg/Kg	☼	09/10/24 15:04	09/11/24 14:27	1
pH (SW846 9045D)	**11.97**		0.20		SU			09/11/24 14:25	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB55 (5-7.5)
Lab Sample ID: 500-256275-24
Date Collected: 09/05/24 15:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 83.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00085		0.0021	0.00085	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0021	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
1,1,2-Trichloroethane	<0.00079		0.0021	0.00079	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
1,1-Dichloroethane	<0.00079		0.0021	0.00079	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
1,1-Dichloroethene	<0.00087		0.0021	0.00087	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
1,2-Dichloroethane	<0.0014		0.0053	0.0014	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
2-Butanone (MEK)	<0.0023		0.0053	0.0023	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
2-Hexanone	<0.0032		0.0053	0.0032	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0053	0.0038	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Acetone	<0.0089		0.021	0.0089	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Benzene	<0.00066		0.0021	0.00066	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Bromodichloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Bromomethane	<0.0026		0.0053	0.0026	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Carbon disulfide	<0.00097		0.0053	0.00097	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Carbon tetrachloride	<0.00072		0.0021	0.00072	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Chlorobenzene	<0.00089		0.0021	0.00089	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Chloroethane	<0.0017		0.0053	0.0017	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Chloromethane	<0.0010		0.0053	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
cis-1,2-Dichloroethene	<0.00085		0.0021	0.00085	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Dibromochloromethane	<0.00098		0.0021	0.00098	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Methyl tert-butyl ether	<0.00068		0.0021	0.00068	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Methylene Chloride	<0.0023		0.0053	0.0023	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Styrene	<0.00095		0.0021	0.00095	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Toluene	<0.00042		0.0021	0.00042	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Xylenes, Total	<0.00072		0.0042	0.00072	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
trans-1,2-Dichloroethene	<0.00080		0.0021	0.00080	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Trichloroethene	<0.00057		0.0021	0.00057	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1
Vinyl chloride	<0.00086		0.0021	0.00086	mg/Kg	☼	09/06/24 18:47	09/12/24 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*09/06/24 18:47*	*09/12/24 18:56*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*09/06/24 18:47*	*09/12/24 18:56*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*09/06/24 18:47*	*09/12/24 18:56*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*09/06/24 18:47*	*09/12/24 18:56*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.016		0.077	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Acenaphthylene	**0.025**	**J**	0.077	0.013	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Anthracene	**0.026**	**J**	0.077	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Benzo[a]anthracene	**0.19**		0.077	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Benzo[a]pyrene	**0.17**		0.077	0.075	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Benzo[b]fluoranthene	**0.41**		0.077	0.074	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Benzo[g,h,i]perylene	**0.26**		0.077	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB55 (5-7.5)
Lab Sample ID: 500-256275-24
Date Collected: 09/05/24 15:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 83.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.13**		0.077	0.030	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Chrysene	**0.29**		0.077	0.021	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Dibenz(a,h)anthracene	<0.077		0.077	0.077	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Fluoranthene	**0.21**		0.077	0.018	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Fluorene	<0.023		0.077	0.023	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Indeno[1,2,3-cd]pyrene	**0.21**		0.077	0.076	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Naphthalene	**0.063**	**J**	0.077	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Phenanthrene	**0.12**		0.077	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Pyrene	**0.18**		0.077	0.021	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
1,2,4-Trichlorobenzene	<0.056		0.39	0.056	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
1,2-Dichlorobenzene	<0.032		0.39	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
1,3-Dichlorobenzene	<0.035		0.39	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
1,4-Dichlorobenzene	<0.037		0.39	0.037	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2,4,5-Trichlorophenol	<0.029		0.77	0.029	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2,4,6-Trichlorophenol	<0.027		0.77	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2,4-Dichlorophenol	<0.027		0.77	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2,4-Dimethylphenol	<0.17		0.77	0.17	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2,4-Dinitrophenol	<0.45		1.6	0.45	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2,4-Dinitrotoluene	<0.044		0.39	0.044	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2,6-Dinitrotoluene	<0.027		0.39	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2-Chloronaphthalene	<0.029		0.39	0.029	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2-Chlorophenol	<0.025		0.39	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2-Methylnaphthalene	**0.034**	**J**	0.16	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2-Methylphenol	<0.041		0.39	0.041	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2-Nitroaniline	<0.042		0.39	0.042	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
2-Nitrophenol	<0.053		0.77	0.053	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
3,3'-Dichlorobenzidine	<0.064		0.39	0.064	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
3 & 4 Methylphenol	<0.057		0.39	0.057	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
3-Nitroaniline	<0.035		0.77	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
4,6-Dinitro-2-methylphenol	<0.44		1.6	0.44	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
4-Bromophenyl phenyl ether	<0.053		0.39	0.053	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
4-Chloro-3-methylphenol	<0.030		0.77	0.030	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
4-Chloroaniline	<0.82		1.6	0.82	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
4-Chlorophenyl phenyl ether	<0.10		0.39	0.10	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
4-Nitroaniline	<0.057		0.77	0.057	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
4-Nitrophenol	<0.29		1.6	0.29	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Bis(2-chloroethoxy)methane	<0.029		0.39	0.029	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Bis(2-chloroethyl)ether	<0.036		0.39	0.036	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
bis(chloroisopropyl) ether	<0.056		0.39	0.056	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Bis(2-ethylhexyl) phthalate	<0.31		0.39	0.31	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Butyl benzyl phthalate	<0.039		0.39	0.039	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Carbazole	<0.031		0.39	0.031	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Dibenzofuran	<0.028		0.39	0.028	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Diethyl phthalate	**0.044**	**J B**	0.39	0.036	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Dimethyl phthalate	<0.017		0.39	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Di-n-butyl phthalate	<0.025		0.39	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Di-n-octyl phthalate	<0.54		0.77	0.54	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Hexachlorobenzene	<0.015		0.16	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Hexachlorobutadiene	<0.044		0.39	0.044	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB55 (5-7.5)
Lab Sample ID: 500-256275-24
Date Collected: 09/05/24 15:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 83.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.83		1.6	0.83	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Hexachloroethane	<0.039		0.39	0.039	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Isophorone	<0.040		0.39	0.040	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Nitrobenzene	<0.025		0.077	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
N-Nitrosodi-n-propylamine	<0.015		0.16	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
N-Nitrosodiphenylamine	<0.046		0.39	0.046	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Pentachlorophenol	<0.19		1.6	0.19	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2
Phenol	<0.034		0.39	0.034	mg/Kg	☼	09/17/24 13:27	09/18/24 16:13	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*47*		*31 - 166*	*09/17/24 13:27*	*09/18/24 16:13*	*2*
Phenol-d5 (Surr)	*55*		*30 - 153*	*09/17/24 13:27*	*09/18/24 16:13*	*2*
Nitrobenzene-d5 (Surr)	*50*		*37 - 147*	*09/17/24 13:27*	*09/18/24 16:13*	*2*
2-Fluorobiphenyl (Surr)	*59*		*43 - 145*	*09/17/24 13:27*	*09/18/24 16:13*	*2*
2,4,6-Tribromophenol (Surr)	*41*		*31 - 143*	*09/17/24 13:27*	*09/18/24 16:13*	*2*
Terphenyl-d14 (Surr)	*63*		*42 - 157*	*09/17/24 13:27*	*09/18/24 16:13*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
4,4'-DDT	<0.0094		0.020	0.0094	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
alpha-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Chlordane (technical)	<0.038		0.079	0.038	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
delta-BHC	<0.0095		0.020	0.0095	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Endrin	<0.010		0.020	0.010	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Endrin aldehyde	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Endrin ketone	<0.0096		0.020	0.0096	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
gamma-BHC (Lindane)	<0.0099		0.020	0.0099	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
gamma-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Heptachlor epoxide	<0.011		0.020	0.011	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Methoxychlor	<0.013		0.097	0.013	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10
Toxaphene	<0.079		0.20	0.079	mg/Kg	☼	09/17/24 07:08	09/24/24 14:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*151*	*S1+*	*33 - 148*	*09/17/24 07:08*	*09/24/24 14:08*	*10*
Tetrachloro-m-xylene	*97*		*30 - 121*	*09/17/24 07:08*	*09/24/24 14:08*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.098		0.098		mg/Kg	☼	09/17/24 07:08	09/25/24 17:13	5
PCB-1221	<0.098		0.098		mg/Kg	☼	09/17/24 07:08	09/25/24 17:13	5

Client Sample ID: SB55 (5-7.5)
Date Collected: 09/05/24 15:30
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-24
Matrix: Solid
Percent Solids: 83.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.098		0.098		mg/Kg	☼	09/17/24 07:08	09/25/24 17:13	5
PCB-1242	<0.098		0.098		mg/Kg	☼	09/17/24 07:08	09/25/24 17:13	5
PCB-1248	<0.098		0.098		mg/Kg	☼	09/17/24 07:08	09/25/24 17:13	5
PCB-1254	<0.098		0.098		mg/Kg	☼	09/17/24 07:08	09/25/24 17:13	5
PCB-1260	<0.098		0.098		mg/Kg	☼	09/17/24 07:08	09/25/24 17:13	5
Polychlorinated biphenyls, Total	<0.098		0.098		mg/Kg	☼	09/17/24 07:08	09/25/24 17:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*49 - 129*	*09/17/24 07:08*	*09/25/24 17:13*	*5*
DCB Decachlorobiphenyl	*99*		*37 - 121*	*09/17/24 07:08*	*09/25/24 17:13*	*5*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		110		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Antimony	<11		11		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Arsenic	**15**		5.6		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Barium	**200**		1.1		mg/Kg	☼	09/19/24 09:45	09/20/24 00:25	1
Beryllium	**3.1**		2.2		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Cadmium	<1.1		1.1		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Calcium	**64000**		110		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Chromium	**31**		1.1		mg/Kg	☼	09/19/24 09:45	09/20/24 00:25	1
Cobalt	**8.9**		2.8		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Copper	**34**		5.6		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Iron	**190000**		110		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Lead	**66**		2.8		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Magnesium	**7800**		11		mg/Kg	☼	09/19/24 09:45	09/20/24 00:25	1
Manganese	**7000**		5.6		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Nickel	**190**		5.6		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Potassium	**1300**		56		mg/Kg	☼	09/19/24 09:45	09/20/24 00:25	1
Selenium	<5.6		5.6		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Silver	<2.8		2.8		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Sodium	<560		560		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Thallium	**13**		5.6		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Vanadium	**34**		2.8		mg/Kg	☼	09/19/24 09:45	09/23/24 13:07	5
Zinc	**120**		2.2		mg/Kg	☼	09/19/24 09:45	09/20/24 00:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.019		mg/Kg	☼	09/20/24 17:35	09/23/24 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**13**		1.3		mg/Kg	☼	09/10/24 15:04	09/11/24 15:33	5
pH (SW846 9045D)	**7.62**		0.20		SU			09/11/24 14:27	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 784982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-15	SB51 (0-3)	Total/NA	Solid	5035	
500-256275-19	SB53 (0-3)	Total/NA	Solid	5035	
500-256275-21	SB54 (0-3)	Total/NA	Solid	5035	
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	5035	

Prep Batch: 784997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	5035	
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	5035	
500-256275-3	SB45 (0-3)	Total/NA	Solid	5035	
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	5035	
500-256275-5	SB46 (0-3)	Total/NA	Solid	5035	
500-256275-6	SB46 (3-5)	Total/NA	Solid	5035	
500-256275-7	SB47 (0-3)	Total/NA	Solid	5035	
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	5035	
500-256275-9	SB48 (0-3)	Total/NA	Solid	5035	
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	5035	
500-256275-11	SB49 (0-3)	Total/NA	Solid	5035	
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	5035	
500-256275-13	SB50 (0-3)	Total/NA	Solid	5035	
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	5035	
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	5035	
500-256275-17	SB52 (0-3)	Total/NA	Solid	5035	
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	5035	

Prep Batch: 784998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	5035	
500-256275-23	SB55 (0-3)	Total/NA	Solid	5035	
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	5035	

Analysis Batch: 785633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	8260D	784997
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	8260D	784997
500-256275-23	SB55 (0-3)	Total/NA	Solid	8260D	784998
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	8260D	784998
MB 500-785633/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785633/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-785633/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 785646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	8260D	784997
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	8260D	784997
500-256275-3	SB45 (0-3)	Total/NA	Solid	8260D	784997
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	8260D	784997
500-256275-6	SB46 (3-5)	Total/NA	Solid	8260D	784997
500-256275-7	SB47 (0-3)	Total/NA	Solid	8260D	784997
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	8260D	784997
500-256275-9	SB48 (0-3)	Total/NA	Solid	8260D	784997

GC/MS VOA (Continued)

Analysis Batch: 785646 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	8260D	784997
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	8260D	784997
500-256275-13	SB50 (0-3)	Total/NA	Solid	8260D	784997
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	8260D	784997
MB 500-785646/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785646/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-785646/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 785881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-5	SB46 (0-3)	Total/NA	Solid	8260D	784997
500-256275-11	SB49 (0-3)	Total/NA	Solid	8260D	784997
500-256275-17	SB52 (0-3)	Total/NA	Solid	8260D	784997
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	8260D	784998
MB 500-785881/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785881/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-785881/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 786161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-15	SB51 (0-3)	Total/NA	Solid	8260D	784982
500-256275-19	SB53 (0-3)	Total/NA	Solid	8260D	784982
500-256275-21	SB54 (0-3)	Total/NA	Solid	8260D	784982
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	8260D	784982
MB 500-786161/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-786161/4	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 786476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-21	SB54 (0-3)	Total/NA	Solid	3546	
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	3546	
500-256275-23	SB55 (0-3)	Total/NA	Solid	3546	
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	3546	
MB 500-786476/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-786476/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 786603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-21	SB54 (0-3)	Total/NA	Solid	8270E	786476
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	8270E	786476
500-256275-23	SB55 (0-3)	Total/NA	Solid	8270E	786476
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	8270E	786476
MB 500-786476/1-A	Method Blank	Total/NA	Solid	8270E	786476
LCS 500-786476/2-A	Lab Control Sample	Total/NA	Solid	8270E	786476

Prep Batch: 786617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	3546	
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 786617 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-3	SB45 (0-3)	Total/NA	Solid	3546	
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	3546	
500-256275-5	SB46 (0-3)	Total/NA	Solid	3546	
500-256275-6	SB46 (3-5)	Total/NA	Solid	3546	
500-256275-7	SB47 (0-3)	Total/NA	Solid	3546	
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	3546	
500-256275-9	SB48 (0-3)	Total/NA	Solid	3546	
500-256275-10 - DL	SB48 (5-7.5)	Total/NA	Solid	3546	
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	3546	
500-256275-11	SB49 (0-3)	Total/NA	Solid	3546	
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	3546	
500-256275-13	SB50 (0-3)	Total/NA	Solid	3546	
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	3546	
500-256275-15	SB51 (0-3)	Total/NA	Solid	3546	
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	3546	
500-256275-17	SB52 (0-3)	Total/NA	Solid	3546	
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	3546	
500-256275-19	SB53 (0-3)	Total/NA	Solid	3546	
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	3546	
MB 500-786617/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-786617/2-A	Lab Control Sample	Total/NA	Solid	3546	
500-256275-10 MS	SB48 (5-7.5)	Total/NA	Solid	3546	
500-256275-10 MSD	SB48 (5-7.5)	Total/NA	Solid	3546	

Analysis Batch: 786825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	8270E	786617
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	8270E	786617
500-256275-3	SB45 (0-3)	Total/NA	Solid	8270E	786617
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	8270E	786617
500-256275-5	SB46 (0-3)	Total/NA	Solid	8270E	786617
500-256275-6	SB46 (3-5)	Total/NA	Solid	8270E	786617
500-256275-7	SB47 (0-3)	Total/NA	Solid	8270E	786617
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	8270E	786617
500-256275-9	SB48 (0-3)	Total/NA	Solid	8270E	786617
500-256275-11	SB49 (0-3)	Total/NA	Solid	8270E	786617
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	8270E	786617
500-256275-13	SB50 (0-3)	Total/NA	Solid	8270E	786617
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	8270E	786617
500-256275-15	SB51 (0-3)	Total/NA	Solid	8270E	786617
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	8270E	786617
500-256275-17	SB52 (0-3)	Total/NA	Solid	8270E	786617
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	8270E	786617
500-256275-19	SB53 (0-3)	Total/NA	Solid	8270E	786617
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	8270E	786617
MB 500-786617/1-A	Method Blank	Total/NA	Solid	8270E	786617
LCS 500-786617/2-A	Lab Control Sample	Total/NA	Solid	8270E	786617

Analysis Batch: 786826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	8270E	786617

GC/MS Semi VOA (Continued)

Analysis Batch: 786826 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-10 - DL	SB48 (5-7.5)	Total/NA	Solid	8270E	786617
500-256275-10 MS	SB48 (5-7.5)	Total/NA	Solid	8270E	786617
500-256275-10 MSD	SB48 (5-7.5)	Total/NA	Solid	8270E	786617

GC Semi VOA

Prep Batch: 786335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	3541	
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	3541	
500-256275-3	SB45 (0-3)	Total/NA	Solid	3541	
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	3541	
500-256275-5	SB46 (0-3)	Total/NA	Solid	3541	
500-256275-6	SB46 (3-5)	Total/NA	Solid	3541	
500-256275-7	SB47 (0-3)	Total/NA	Solid	3541	
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	3541	
500-256275-9	SB48 (0-3)	Total/NA	Solid	3541	
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	3541	
500-256275-11	SB49 (0-3)	Total/NA	Solid	3541	
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	3541	
500-256275-13	SB50 (0-3)	Total/NA	Solid	3541	
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	3541	
500-256275-15	SB51 (0-3)	Total/NA	Solid	3541	
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	3541	
500-256275-17	SB52 (0-3)	Total/NA	Solid	3541	
MB 500-786335/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-786335/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-786335/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256275-13 MS	SB50 (0-3)	Total/NA	Solid	3541	
500-256275-13 MS	SB50 (0-3)	Total/NA	Solid	3541	
500-256275-13 MSD	SB50 (0-3)	Total/NA	Solid	3541	
500-256275-13 MSD	SB50 (0-3)	Total/NA	Solid	3541	

Prep Batch: 786336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	3541	
500-256275-19	SB53 (0-3)	Total/NA	Solid	3541	
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	3541	
500-256275-21	SB54 (0-3)	Total/NA	Solid	3541	
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	3541	
500-256275-23	SB55 (0-3)	Total/NA	Solid	3541	
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	3541	
MB 500-786336/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-786336/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-786336/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256275-22 MS	SB54 (10-12.5)	Total/NA	Solid	3541	
500-256275-22 MS	SB54 (10-12.5)	Total/NA	Solid	3541	
500-256275-22 MSD	SB54 (10-12.5)	Total/NA	Solid	3541	
500-256275-22 MSD	SB54 (10-12.5)	Total/NA	Solid	3541	

GC Semi VOA

Analysis Batch: 787017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-786336/1-A	Method Blank	Total/NA	Solid	8082A	786336
LCS 500-786336/3-A	Lab Control Sample	Total/NA	Solid	8082A	786336

Analysis Batch: 787019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-786336/1-A	Method Blank	Total/NA	Solid	8081B	786336
LCS 500-786336/2-A	Lab Control Sample	Total/NA	Solid	8081B	786336

Analysis Batch: 787365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-19	SB53 (0-3)	Total/NA	Solid	8082A	786336
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	8082A	786336
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	8082A	786336
500-256275-22 MS	SB54 (10-12.5)	Total/NA	Solid	8082A	786336
500-256275-22 MSD	SB54 (10-12.5)	Total/NA	Solid	8082A	786336

Analysis Batch: 787410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	8081B	786335
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	8081B	786335
500-256275-3	SB45 (0-3)	Total/NA	Solid	8081B	786335
500-256275-5	SB46 (0-3)	Total/NA	Solid	8081B	786335
500-256275-19	SB53 (0-3)	Total/NA	Solid	8081B	786336
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	8081B	786336
500-256275-21	SB54 (0-3)	Total/NA	Solid	8081B	786336
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	8081B	786336
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	8081B	786336
MB 500-786335/1-A	Method Blank	Total/NA	Solid	8081B	786335
LCS 500-786335/2-A	Lab Control Sample	Total/NA	Solid	8081B	786335
500-256275-22 MS	SB54 (10-12.5)	Total/NA	Solid	8081B	786336
500-256275-22 MSD	SB54 (10-12.5)	Total/NA	Solid	8081B	786336

Analysis Batch: 787465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	8082A	786335
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	8082A	786335
500-256275-3	SB45 (0-3)	Total/NA	Solid	8082A	786335
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	8082A	786335
500-256275-5	SB46 (0-3)	Total/NA	Solid	8082A	786335
500-256275-6	SB46 (3-5)	Total/NA	Solid	8082A	786335
500-256275-7	SB47 (0-3)	Total/NA	Solid	8082A	786335
500-256275-9	SB48 (0-3)	Total/NA	Solid	8082A	786335
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	8082A	786335
500-256275-11	SB49 (0-3)	Total/NA	Solid	8082A	786335
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	8082A	786335
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	8082A	786336
MB 500-786335/1-A	Method Blank	Total/NA	Solid	8082A	786335
LCS 500-786335/3-A	Lab Control Sample	Total/NA	Solid	8082A	786335

GC Semi VOA

Analysis Batch: 787504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-6	SB46 (3-5)	Total/NA	Solid	8081B	786335
500-256275-7	SB47 (0-3)	Total/NA	Solid	8081B	786335
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	8081B	786335
500-256275-9	SB48 (0-3)	Total/NA	Solid	8081B	786335
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	8081B	786335
500-256275-11	SB49 (0-3)	Total/NA	Solid	8081B	786335
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	8081B	786335
500-256275-13	SB50 (0-3)	Total/NA	Solid	8081B	786335
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	8081B	786335
500-256275-15	SB51 (0-3)	Total/NA	Solid	8081B	786335
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	8081B	786335
500-256275-17	SB52 (0-3)	Total/NA	Solid	8081B	786335
500-256275-13 MS	SB50 (0-3)	Total/NA	Solid	8081B	786335
500-256275-13 MSD	SB50 (0-3)	Total/NA	Solid	8081B	786335

Analysis Batch: 787590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	8081B	786335
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	8081B	786335
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	8081B	786336
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	8081B	786336
500-256275-23	SB55 (0-3)	Total/NA	Solid	8081B	786336
MB 500-786335/1-A	Method Blank	Total/NA	Solid	8081B	786335
MB 500-786336/1-A	Method Blank	Total/NA	Solid	8081B	786336
LCS 500-786335/2-A	Lab Control Sample	Total/NA	Solid	8081B	786335
LCS 500-786336/2-A	Lab Control Sample	Total/NA	Solid	8081B	786336

Analysis Batch: 787624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-13	SB50 (0-3)	Total/NA	Solid	8082A	786335
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	8082A	786335
500-256275-13 MS	SB50 (0-3)	Total/NA	Solid	8082A	786335
500-256275-13 MSD	SB50 (0-3)	Total/NA	Solid	8082A	786335

Analysis Batch: 787656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-15	SB51 (0-3)	Total/NA	Solid	8082A	786335
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	8082A	786335
500-256275-17	SB52 (0-3)	Total/NA	Solid	8082A	786335

Analysis Batch: 787732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	8082A	786336

Analysis Batch: 787802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	8082A	786335
500-256275-21	SB54 (0-3)	Total/NA	Solid	8082A	786336

GC Semi VOA

Analysis Batch: 787803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-23	SB55 (0-3)	Total/NA	Solid	8082A	786336

Metals

Prep Batch: 786853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	3050B	
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	3050B	
500-256275-3	SB45 (0-3)	Total/NA	Solid	3050B	
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	3050B	
500-256275-5	SB46 (0-3)	Total/NA	Solid	3050B	
500-256275-6	SB46 (3-5)	Total/NA	Solid	3050B	
500-256275-7	SB47 (0-3)	Total/NA	Solid	3050B	
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	3050B	
500-256275-9	SB48 (0-3)	Total/NA	Solid	3050B	
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	3050B	
500-256275-11	SB49 (0-3)	Total/NA	Solid	3050B	
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	3050B	
500-256275-13	SB50 (0-3)	Total/NA	Solid	3050B	
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	3050B	
500-256275-15	SB51 (0-3)	Total/NA	Solid	3050B	
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	3050B	
500-256275-17	SB52 (0-3)	Total/NA	Solid	3050B	
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	3050B	
500-256275-19	SB53 (0-3)	Total/NA	Solid	3050B	
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	3050B	
MB 500-786853/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786853/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-256275-1 MS	SB44 (0-3)	Total/NA	Solid	3050B	
500-256275-1 MSD	SB44 (0-3)	Total/NA	Solid	3050B	
500-256275-1 DU	SB44 (0-3)	Total/NA	Solid	3050B	

Prep Batch: 786854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-21	SB54 (0-3)	Total/NA	Solid	3050B	
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	3050B	
500-256275-23	SB55 (0-3)	Total/NA	Solid	3050B	
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	3050B	
MB 500-786854/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786854/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 787023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	6010D	786853
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	6010D	786853
500-256275-3	SB45 (0-3)	Total/NA	Solid	6010D	786853
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	6010D	786853
500-256275-5	SB46 (0-3)	Total/NA	Solid	6010D	786853
500-256275-6	SB46 (3-5)	Total/NA	Solid	6010D	786853
500-256275-7	SB47 (0-3)	Total/NA	Solid	6010D	786853
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	6010D	786853

Metals (Continued)

Analysis Batch: 787023 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-9	SB48 (0-3)	Total/NA	Solid	6010D	786853
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	6010D	786853
500-256275-11	SB49 (0-3)	Total/NA	Solid	6010D	786853
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	6010D	786853
500-256275-13	SB50 (0-3)	Total/NA	Solid	6010D	786853
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	6010D	786853
500-256275-15	SB51 (0-3)	Total/NA	Solid	6010D	786853
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	6010D	786853
500-256275-17	SB52 (0-3)	Total/NA	Solid	6010D	786853
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	6010D	786853
500-256275-19	SB53 (0-3)	Total/NA	Solid	6010D	786853
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	6010D	786853
MB 500-786853/1-A	Method Blank	Total/NA	Solid	6010D	786853
LCS 500-786853/2-A	Lab Control Sample	Total/NA	Solid	6010D	786853
500-256275-1 MS	SB44 (0-3)	Total/NA	Solid	6010D	786853
500-256275-1 MSD	SB44 (0-3)	Total/NA	Solid	6010D	786853
500-256275-1 DU	SB44 (0-3)	Total/NA	Solid	6010D	786853

Analysis Batch: 787024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-21	SB54 (0-3)	Total/NA	Solid	6010D	786854
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	6010D	786854
500-256275-23	SB55 (0-3)	Total/NA	Solid	6010D	786854
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	6010D	786854
MB 500-786854/1-A	Method Blank	Total/NA	Solid	6010D	786854
LCS 500-786854/2-A	Lab Control Sample	Total/NA	Solid	6010D	786854

Prep Batch: 787088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	7471B	
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	7471B	
500-256275-3	SB45 (0-3)	Total/NA	Solid	7471B	
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	7471B	
500-256275-5	SB46 (0-3)	Total/NA	Solid	7471B	
500-256275-6	SB46 (3-5)	Total/NA	Solid	7471B	
500-256275-7	SB47 (0-3)	Total/NA	Solid	7471B	
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	7471B	
500-256275-9	SB48 (0-3)	Total/NA	Solid	7471B	
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	7471B	
500-256275-11	SB49 (0-3)	Total/NA	Solid	7471B	
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	7471B	
500-256275-13	SB50 (0-3)	Total/NA	Solid	7471B	
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	7471B	
500-256275-15	SB51 (0-3)	Total/NA	Solid	7471B	
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	7471B	
500-256275-17	SB52 (0-3)	Total/NA	Solid	7471B	
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	7471B	
500-256275-19	SB53 (0-3)	Total/NA	Solid	7471B	
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	7471B	
MB 500-787088/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-787088/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 787088 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-11 MS	SB49 (0-3)	Total/NA	Solid	7471B	
500-256275-11 MSD	SB49 (0-3)	Total/NA	Solid	7471B	
500-256275-11 DU	SB49 (0-3)	Total/NA	Solid	7471B	

Prep Batch: 787098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-21	SB54 (0-3)	Total/NA	Solid	7471B	
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	7471B	
500-256275-23	SB55 (0-3)	Total/NA	Solid	7471B	
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	7471B	
MB 500-787098/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-787098/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 787296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	7471B	787088
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	7471B	787088
500-256275-3	SB45 (0-3)	Total/NA	Solid	7471B	787088
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	7471B	787088
500-256275-5	SB46 (0-3)	Total/NA	Solid	7471B	787088
500-256275-6	SB46 (3-5)	Total/NA	Solid	7471B	787088
500-256275-7	SB47 (0-3)	Total/NA	Solid	7471B	787088
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	7471B	787088
500-256275-9	SB48 (0-3)	Total/NA	Solid	7471B	787088
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	7471B	787088
500-256275-11	SB49 (0-3)	Total/NA	Solid	7471B	787088
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	7471B	787088
500-256275-13	SB50 (0-3)	Total/NA	Solid	7471B	787088
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	7471B	787088
500-256275-15	SB51 (0-3)	Total/NA	Solid	7471B	787088
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	7471B	787088
500-256275-17	SB52 (0-3)	Total/NA	Solid	7471B	787088
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	7471B	787088
500-256275-19	SB53 (0-3)	Total/NA	Solid	7471B	787088
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	7471B	787088
500-256275-21	SB54 (0-3)	Total/NA	Solid	7471B	787098
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	7471B	787098
500-256275-23	SB55 (0-3)	Total/NA	Solid	7471B	787098
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	7471B	787098
MB 500-787088/12-A	Method Blank	Total/NA	Solid	7471B	787088
MB 500-787098/12-A	Method Blank	Total/NA	Solid	7471B	787098
LCS 500-787088/13-A	Lab Control Sample	Total/NA	Solid	7471B	787088
LCS 500-787098/13-A	Lab Control Sample	Total/NA	Solid	7471B	787098
500-256275-11 MS	SB49 (0-3)	Total/NA	Solid	7471B	787088
500-256275-11 MSD	SB49 (0-3)	Total/NA	Solid	7471B	787088
500-256275-11 DU	SB49 (0-3)	Total/NA	Solid	7471B	787088

Analysis Batch: 787349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-21	SB54 (0-3)	Total/NA	Solid	6010D	786854
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	6010D	786854

Metals (Continued)

Analysis Batch: 787349 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-23	SB55 (0-3)	Total/NA	Solid	6010D	786854
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	6010D	786854
MB 500-786854/1-A	Method Blank	Total/NA	Solid	6010D	786854
LCS 500-786854/2-A	Lab Control Sample	Total/NA	Solid	6010D	786854

Analysis Batch: 787456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	6010D	786853
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	6010D	786853
500-256275-3	SB45 (0-3)	Total/NA	Solid	6010D	786853
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	6010D	786853
500-256275-5	SB46 (0-3)	Total/NA	Solid	6010D	786853
500-256275-6	SB46 (3-5)	Total/NA	Solid	6010D	786853
500-256275-7	SB47 (0-3)	Total/NA	Solid	6010D	786853
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	6010D	786853
500-256275-9	SB48 (0-3)	Total/NA	Solid	6010D	786853
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	6010D	786853
500-256275-11	SB49 (0-3)	Total/NA	Solid	6010D	786853
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	6010D	786853
500-256275-13	SB50 (0-3)	Total/NA	Solid	6010D	786853
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	6010D	786853
500-256275-15	SB51 (0-3)	Total/NA	Solid	6010D	786853
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	6010D	786853
500-256275-17	SB52 (0-3)	Total/NA	Solid	6010D	786853
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	6010D	786853
500-256275-19	SB53 (0-3)	Total/NA	Solid	6010D	786853
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	6010D	786853
500-256275-1 MS	SB44 (0-3)	Total/NA	Solid	6010D	786853
500-256275-1 MSD	SB44 (0-3)	Total/NA	Solid	6010D	786853
500-256275-1 DU	SB44 (0-3)	Total/NA	Solid	6010D	786853

Analysis Batch: 787561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-6	SB46 (3-5)	Total/NA	Solid	6010D	786853
500-256275-7	SB47 (0-3)	Total/NA	Solid	6010D	786853
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	6010D	786853
500-256275-13	SB50 (0-3)	Total/NA	Solid	6010D	786853
500-256275-15	SB51 (0-3)	Total/NA	Solid	6010D	786853
500-256275-19	SB53 (0-3)	Total/NA	Solid	6010D	786853

General Chemistry

Prep Batch: 626558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	9030B	
500-256275-11	SB49 (0-3)	Total/NA	Solid	9030B	
500-256275-15	SB51 (0-3)	Total/NA	Solid	9030B	
MB 240-626558/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-626558/2-A	Lab Control Sample	Total/NA	Solid	9030B	

General Chemistry

Analysis Batch: 626649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	9034	626558
500-256275-11	SB49 (0-3)	Total/NA	Solid	9034	626558
500-256275-15	SB51 (0-3)	Total/NA	Solid	9034	626558
MB 240-626558/1-A	Method Blank	Total/NA	Solid	9034	626558
LCS 240-626558/2-A	Lab Control Sample	Total/NA	Solid	9034	626558

Prep Batch: 785319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	9010C	
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	9010C	
500-256275-3	SB45 (0-3)	Total/NA	Solid	9010C	
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	9010C	
500-256275-5	SB46 (0-3)	Total/NA	Solid	9010C	
500-256275-6	SB46 (3-5)	Total/NA	Solid	9010C	
500-256275-7	SB47 (0-3)	Total/NA	Solid	9010C	
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	9010C	
500-256275-9	SB48 (0-3)	Total/NA	Solid	9010C	
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	9010C	
500-256275-11	SB49 (0-3)	Total/NA	Solid	9010C	
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	9010C	
500-256275-13	SB50 (0-3)	Total/NA	Solid	9010C	
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	9010C	
500-256275-15	SB51 (0-3)	Total/NA	Solid	9010C	
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	9010C	
500-256275-17	SB52 (0-3)	Total/NA	Solid	9010C	
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	9010C	
MB 500-785319/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-785319/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256275-18 MS	SB52 (7.5-10)	Total/NA	Solid	9010C	
500-256275-18 MSD	SB52 (7.5-10)	Total/NA	Solid	9010C	

Prep Batch: 785357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-19	SB53 (0-3)	Total/NA	Solid	9010C	
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	9010C	
500-256275-21	SB54 (0-3)	Total/NA	Solid	9010C	
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	9010C	
500-256275-23	SB55 (0-3)	Total/NA	Solid	9010C	
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	9010C	
MB 500-785357/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-785357/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256275-21 MS	SB54 (0-3)	Total/NA	Solid	9010C	
500-256275-21 MSD	SB54 (0-3)	Total/NA	Solid	9010C	

Analysis Batch: 785655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	9012B	785319
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	9012B	785319
500-256275-3	SB45 (0-3)	Total/NA	Solid	9012B	785319
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	9012B	785319
500-256275-5	SB46 (0-3)	Total/NA	Solid	9012B	785319

General Chemistry (Continued)

Analysis Batch: 785655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-6	SB46 (3-5)	Total/NA	Solid	9012B	785319
500-256275-7	SB47 (0-3)	Total/NA	Solid	9012B	785319
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	9012B	785319
500-256275-9	SB48 (0-3)	Total/NA	Solid	9012B	785319
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	9012B	785319
500-256275-11	SB49 (0-3)	Total/NA	Solid	9012B	785319
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	9012B	785319
500-256275-13	SB50 (0-3)	Total/NA	Solid	9012B	785319
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	9012B	785319
500-256275-15	SB51 (0-3)	Total/NA	Solid	9012B	785319
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	9012B	785319
500-256275-17	SB52 (0-3)	Total/NA	Solid	9012B	785319
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	9012B	785319
MB 500-785319/1-A	Method Blank	Total/NA	Solid	9012B	785319
LCS 500-785319/2-A	Lab Control Sample	Total/NA	Solid	9012B	785319
500-256275-18 MS	SB52 (7.5-10)	Total/NA	Solid	9012B	785319
500-256275-18 MSD	SB52 (7.5-10)	Total/NA	Solid	9012B	785319

Analysis Batch: 785657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-19	SB53 (0-3)	Total/NA	Solid	9012B	785357
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	9012B	785357
500-256275-21	SB54 (0-3)	Total/NA	Solid	9012B	785357
500-256275-23	SB55 (0-3)	Total/NA	Solid	9012B	785357
MB 500-785357/1-A	Method Blank	Total/NA	Solid	9012B	785357
LCS 500-785357/2-A	Lab Control Sample	Total/NA	Solid	9012B	785357
500-256275-21 MS	SB54 (0-3)	Total/NA	Solid	9012B	785357
500-256275-21 MSD	SB54 (0-3)	Total/NA	Solid	9012B	785357

Analysis Batch: 785658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	9012B	785357
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	9012B	785357

Analysis Batch: 785809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	9045D	
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	9045D	
500-256275-3	SB45 (0-3)	Total/NA	Solid	9045D	
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	9045D	
500-256275-5	SB46 (0-3)	Total/NA	Solid	9045D	
500-256275-6	SB46 (3-5)	Total/NA	Solid	9045D	
500-256275-7	SB47 (0-3)	Total/NA	Solid	9045D	
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	9045D	
500-256275-9	SB48 (0-3)	Total/NA	Solid	9045D	
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	9045D	
500-256275-11	SB49 (0-3)	Total/NA	Solid	9045D	
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	9045D	
500-256275-13	SB50 (0-3)	Total/NA	Solid	9045D	
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	9045D	
500-256275-15	SB51 (0-3)	Total/NA	Solid	9045D	

General Chemistry (Continued)

Analysis Batch: 785809 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	9045D	
500-256275-17	SB52 (0-3)	Total/NA	Solid	9045D	
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	9045D	
500-256275-19	SB53 (0-3)	Total/NA	Solid	9045D	
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	9045D	
500-256275-21	SB54 (0-3)	Total/NA	Solid	9045D	
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	9045D	
500-256275-23	SB55 (0-3)	Total/NA	Solid	9045D	
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	9045D	
500-256275-7 DU	SB47 (0-3)	Total/NA	Solid	9045D	

Analysis Batch: 786216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-19	SB53 (0-3)	Total/NA	Solid	Moisture	
500-256275-20	SB53 (10-12.5)	Total/NA	Solid	Moisture	
500-256275-21	SB54 (0-3)	Total/NA	Solid	Moisture	
500-256275-22	SB54 (10-12.5)	Total/NA	Solid	Moisture	
500-256275-23	SB55 (0-3)	Total/NA	Solid	Moisture	
500-256275-24	SB55 (5-7.5)	Total/NA	Solid	Moisture	
500-256275-19 DU	SB53 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 786247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-12	SB49 (10-12.5)	Total/NA	Solid	Moisture	
500-256275-13	SB50 (0-3)	Total/NA	Solid	Moisture	
500-256275-14	SB50 (7.5-10)	Total/NA	Solid	Moisture	
500-256275-15	SB51 (0-3)	Total/NA	Solid	Moisture	
500-256275-16	SB51 (5-7.5)	Total/NA	Solid	Moisture	
500-256275-17	SB52 (0-3)	Total/NA	Solid	Moisture	
500-256275-18	SB52 (7.5-10)	Total/NA	Solid	Moisture	
500-256275-12 DU	SB49 (10-12.5)	Total/NA	Solid	Moisture	

Analysis Batch: 786255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	Total/NA	Solid	Moisture	
500-256275-2	SB44 (5-7.5)	Total/NA	Solid	Moisture	
500-256275-3	SB45 (0-3)	Total/NA	Solid	Moisture	
500-256275-4	SB45 (5-7.5)	Total/NA	Solid	Moisture	
500-256275-5	SB46 (0-3)	Total/NA	Solid	Moisture	
500-256275-6	SB46 (3-5)	Total/NA	Solid	Moisture	
500-256275-7	SB47 (0-3)	Total/NA	Solid	Moisture	
500-256275-8	SB47 (7.5-10)	Total/NA	Solid	Moisture	
500-256275-9	SB48 (0-3)	Total/NA	Solid	Moisture	
500-256275-10	SB48 (5-7.5)	Total/NA	Solid	Moisture	
500-256275-11	SB49 (0-3)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-256275-1	SB44 (0-3)	95	143 S1+	108	140 S1+
500-256275-2	SB44 (5-7.5)	104	124	104	113
500-256275-3	SB45 (0-3)	109	125	111	114
500-256275-4	SB45 (5-7.5)	103	130	103	116
500-256275-5	SB46 (0-3)	105	106	102	96
500-256275-6	SB46 (3-5)	99	107	55 S1-	100
500-256275-7	SB47 (0-3)	97	114	93	103
500-256275-8	SB47 (7.5-10)	98	106	66 S1-	100
500-256275-9	SB48 (0-3)	102	133 S1+	104	112
500-256275-10	SB48 (5-7.5)	101	125	82	108
500-256275-11	SB49 (0-3)	104	109	81	103
500-256275-12	SB49 (10-12.5)	99	124	101	109
500-256275-13	SB50 (0-3)	99	103	101	98
500-256275-14	SB50 (7.5-10)	102	125	110	116
500-256275-16	SB51 (5-7.5)	96	109 *3	95	104
500-256275-17	SB52 (0-3)	102	110	96	104
500-256275-18	SB52 (7.5-10)	114	123 *3	109	107
500-256275-20	SB53 (10-12.5)	111	108	102	100
500-256275-23	SB55 (0-3)	112	103	59 S1-	102
500-256275-24	SB55 (5-7.5)	107	104	100	104
LCS 500-785633/4	Lab Control Sample	100	99	97	104
LCS 500-785646/4	Lab Control Sample	97	92	97	98
LCS 500-785881/4	Lab Control Sample	100	94	99	101
LCSD 500-785633/5	Lab Control Sample Dup	102	95	100	103
LCSD 500-785646/5	Lab Control Sample Dup	96	95	99	98
LCSD 500-785881/5	Lab Control Sample Dup	103	94	99	100
MB 500-785633/7	Method Blank	104	101	100	100
MB 500-785646/7	Method Blank	98	99	100	99
MB 500-785881/7	Method Blank	108	99	102	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-256275-15	SB51 (0-3)	98	102	97	101
500-256275-19	SB53 (0-3)	96	102	95	101
500-256275-21	SB54 (0-3)	97	104	95	100
500-256275-22	SB54 (10-12.5)	99	101	96	100
LCS 500-786161/4	Lab Control Sample	91	101	98	101
MB 500-786161/7	Method Blank	98	98	100	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-256275-1	SB44 (0-3)	38	41	47	54	37	55
500-256275-2	SB44 (5-7.5)	61	59	62	67	65	74
500-256275-3	SB45 (0-3)	62	63	62	70	75	83
500-256275-4	SB45 (5-7.5)	57	60	57	68	75	76
500-256275-5	SB46 (0-3)	49	53	46	56	49	65
500-256275-6	SB46 (3-5)	34	52	48	55	0 S1-	65
500-256275-7	SB47 (0-3)	33	46	41	53	11 S1-	72
500-256275-8	SB47 (7.5-10)	25 S1-	46	45	51	1 S1-	70
500-256275-9	SB48 (0-3)	51	55	49	59	72	70
500-256275-10	SB48 (5-7.5)	36	60	67	70	2 S1-	75
500-256275-10 - DL	SB48 (5-7.5)	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
500-256275-10 MS	SB48 (5-7.5)	38	61	70	69	5 S1-	77
500-256275-10 MSD	SB48 (5-7.5)	42	67	72	74	3 S1-	77
500-256275-11	SB49 (0-3)	44	60	56	62	7 S1-	82
500-256275-12	SB49 (10-12.5)	44	43	42	47	58	62
500-256275-13	SB50 (0-3)	58	61	60	69	67	84
500-256275-14	SB50 (7.5-10)	34	38	36 S1-	44	55	63
500-256275-15	SB51 (0-3)	59	58	56	65	78	80
500-256275-16	SB51 (5-7.5)	57	59	62	65	58	73
500-256275-17	SB52 (0-3)	33	47	42	51	2 S1-	65
500-256275-18	SB52 (7.5-10)	50	52	54	60	59	61
500-256275-19	SB53 (0-3)	37	40	34 S1-	43	52	56
500-256275-20	SB53 (10-12.5)	74	73	72	78	86	96
500-256275-21	SB54 (0-3)	47	54	60	59	29 S1-	55
500-256275-22	SB54 (10-12.5)	51	55	65	66	38	59
500-256275-23	SB55 (0-3)	22 S1-	51	56	57	1 S1-	56
500-256275-24	SB55 (5-7.5)	47	55	50	59	41	63
LCS 500-786476/2-A	Lab Control Sample	83	83	85	80	64	80
LCS 500-786617/2-A	Lab Control Sample	79	74	73	76	90	82
MB 500-786476/1-A	Method Blank	91	88	93	90	65	92
MB 500-786617/1-A	Method Blank	81	77	76	78	86	89

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (33-148)	TCX2 (30-121)
500-256275-1	SB44 (0-3)	151 S1+	62

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (33-148)	TCX2 (30-121)
500-256275-2	SB44 (5-7.5)	126	72
500-256275-3	SB45 (0-3)	205 S1+	93
500-256275-4	SB45 (5-7.5)	0 S1-	0 S1-
500-256275-5	SB46 (0-3)	1098 S1+	74
500-256275-6	SB46 (3-5)	234 S1+	87
500-256275-7	SB47 (0-3)	182 S1+	67
500-256275-8	SB47 (7.5-10)	421 S1+	55
500-256275-9	SB48 (0-3)	247 S1+	54
500-256275-10	SB48 (5-7.5)	1097 S1+	68
500-256275-11	SB49 (0-3)	228 S1+	77
500-256275-12	SB49 (10-12.5)	123	100
500-256275-13	SB50 (0-3)	161 S1+	57
500-256275-13 MS	SB50 (0-3)	191 S1+	63
500-256275-13 MSD	SB50 (0-3)	184 S1+	56
500-256275-14	SB50 (7.5-10)	490 S1+	63
500-256275-15	SB51 (0-3)	187 S1+	221 S1+
500-256275-16	SB51 (5-7.5)	95	46
500-256275-17	SB52 (0-3)	404 S1+	56
500-256275-18	SB52 (7.5-10)	0 S1-	0 S1-
500-256275-19	SB53 (0-3)	672 S1+	85
500-256275-20	SB53 (10-12.5)	150 S1+	72
500-256275-21	SB54 (0-3)	305 S1+	95
500-256275-22	SB54 (10-12.5)	112	74
500-256275-22 MS	SB54 (10-12.5)	535 S1+	194 S1+
500-256275-22 MSD	SB54 (10-12.5)	238 S1+	271 S1+
500-256275-24	SB55 (5-7.5)	151 S1+	97
LCS 500-786335/2-A	Lab Control Sample	96	68
MB 500-786335/1-A	Method Blank	104	57

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (33-148)	TCX1 (30-121)
500-256275-23	SB55 (0-3)	0 S1-	0 S1-
LCS 500-786335/2-A	Lab Control Sample	92	75
LCS 500-786336/2-A	Lab Control Sample	92	76
LCS 500-786336/2-A	Lab Control Sample	77	64
MB 500-786335/1-A	Method Blank	93	62
MB 500-786336/1-A	Method Blank	87	51
MB 500-786336/1-A	Method Blank	77	49

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-256275-1	SB44 (0-3)	71	91
500-256275-2	SB44 (5-7.5)	113	74
500-256275-3	SB45 (0-3)	88	110
500-256275-4	SB45 (5-7.5)	65	54
500-256275-5	SB46 (0-3)	66	106
500-256275-6	SB46 (3-5)	89	127 S1+
500-256275-7	SB47 (0-3)	97	86
500-256275-8	SB47 (7.5-10)	48 S1-	88
500-256275-9	SB48 (0-3)	105	27 S1-
500-256275-10	SB48 (5-7.5)	112	29 S1-
500-256275-11	SB49 (0-3)	78	36 S1-
500-256275-12	SB49 (10-12.5)	79	41
500-256275-13	SB50 (0-3)	75	55
500-256275-13 MS	SB50 (0-3)	94	154 S1+
500-256275-13 MSD	SB50 (0-3)	80	131 S1+
500-256275-14	SB50 (7.5-10)	63	78
500-256275-15	SB51 (0-3)	51	41
500-256275-16	SB51 (5-7.5)	42 S1-	49
500-256275-17	SB52 (0-3)	80	56
500-256275-19	SB53 (0-3)	68	138 S1+
500-256275-20	SB53 (10-12.5)	59	92
500-256275-21	SB54 (0-3)	93	86
500-256275-22	SB54 (10-12.5)	100	89
500-256275-22 MS	SB54 (10-12.5)	92	84
500-256275-22 MSD	SB54 (10-12.5)	59	66
500-256275-23	SB55 (0-3)	0 S1-	0 S1-
500-256275-24	SB55 (5-7.5)	96	99
LCS 500-786335/3-A	Lab Control Sample	67	101
LCS 500-786336/3-A	Lab Control Sample	69	95
MB 500-786335/1-A	Method Blank	61	63
MB 500-786336/1-A	Method Blank	50	75

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (49-129)	DCBP2 (37-121)
500-256275-18	SB52 (7.5-10)	0 S1-	0 S1-

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-785633/7
Matrix: Solid
Analysis Batch: 785633

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/12/24 11:13	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/12/24 11:13	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/12/24 11:13	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/12/24 11:13	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/12/24 11:13	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/12/24 11:13	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/12/24 11:13	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/12/24 11:13	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/12/24 11:13	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/12/24 11:13	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/12/24 11:13	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/12/24 11:13	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/12/24 11:13	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/12/24 11:13	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/12/24 11:13	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/12/24 11:13	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/12/24 11:13	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/12/24 11:13	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/12/24 11:13	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/12/24 11:13	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/12/24 11:13	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/12/24 11:13	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/12/24 11:13	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/12/24 11:13	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/12/24 11:13	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/12/24 11:13	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/12/24 11:13	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/12/24 11:13	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/12/24 11:13	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/12/24 11:13	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/12/24 11:13	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/12/24 11:13	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/12/24 11:13	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/12/24 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*09/12/24 11:13*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*		*09/12/24 11:13*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*09/12/24 11:13*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*		*09/12/24 11:13*	*1*

Lab Sample ID: LCS 500-785633/4
Matrix: Solid
Analysis Batch: 785633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0460		mg/Kg		92	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0387		mg/Kg		77	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785633/4
Matrix: Solid
Analysis Batch: 785633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0423		mg/Kg		85	70 - 125
1,1-Dichloroethane	0.0500	0.0395		mg/Kg		79	70 - 125
1,1-Dichloroethene	0.0500	0.0405		mg/Kg		81	70 - 120
1,2-Dichloroethane	0.0500	0.0440		mg/Kg		88	70 - 130
1,2-Dichloropropane	0.0500	0.0410		mg/Kg		82	70 - 125
2-Butanone (MEK)	0.0500	0.0441		mg/Kg		88	47 - 138
2-Hexanone	0.0500	0.0438		mg/Kg		88	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0426		mg/Kg		85	50 - 148
Acetone	0.0500	0.0381		mg/Kg		76	40 - 150
Benzene	0.0500	0.0432		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0458		mg/Kg		92	67 - 129
Bromoform	0.0500	0.0417		mg/Kg		83	68 - 136
Bromomethane	0.0500	0.0448		mg/Kg		90	70 - 130
Carbon disulfide	0.0500	0.0410		mg/Kg		82	70 - 129
Carbon tetrachloride	0.0500	0.0462		mg/Kg		92	75 - 125
Chlorobenzene	0.0500	0.0433		mg/Kg		87	50 - 150
Chloroethane	0.0500	0.0421		mg/Kg		84	75 - 125
Chloroform	0.0500	0.0416		mg/Kg		83	57 - 135
Chloromethane	0.0500	0.0372		mg/Kg		74	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0408		mg/Kg		82	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0455		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0451		mg/Kg		90	69 - 125
Ethylbenzene	0.0500	0.0449		mg/Kg		90	61 - 136
Methyl tert-butyl ether	0.0500	0.0412		mg/Kg		82	50 - 140
Methylene Chloride	0.0500	0.0383		mg/Kg		77	70 - 126
Styrene	0.0500	0.0442		mg/Kg		88	70 - 125
Tetrachloroethene	0.0500	0.0481		mg/Kg		96	70 - 124
Toluene	0.0500	0.0439		mg/Kg		88	70 - 125
Xylenes, Total	0.100	0.0886		mg/Kg		89	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0410		mg/Kg		82	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0461		mg/Kg		92	70 - 125
Trichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
Vinyl chloride	0.0500	0.0419		mg/Kg		84	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*
Dibromofluoromethane	*97*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 124*

Lab Sample ID: LCSD 500-785633/5
Matrix: Solid
Analysis Batch: 785633

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0476		mg/Kg		95	70 - 128	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0398		mg/Kg		80	70 - 122	3	30
1,1,2-Trichloroethane	0.0500	0.0449		mg/Kg		90	70 - 125	6	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-785633/5
Matrix: Solid
Analysis Batch: 785633

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0421		mg/Kg		84	70 - 125	6	30
1,1-Dichloroethene			0.0500	0.0422		mg/Kg		84	70 - 120	4	30
1,2-Dichloroethane			0.0500	0.0467		mg/Kg		93	70 - 130	6	30
1,2-Dichloropropane			0.0500	0.0451		mg/Kg		90	70 - 125	9	30
2-Butanone (MEK)			0.0500	0.0491		mg/Kg		98	47 - 138	11	30
2-Hexanone			0.0500	0.0458		mg/Kg		92	48 - 146	4	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0459		mg/Kg		92	50 - 148	7	30
Acetone			0.0500	0.0422		mg/Kg		84	40 - 150	10	30
Benzene			0.0500	0.0454		mg/Kg		91	70 - 125	5	30
Bromodichloromethane			0.0500	0.0488		mg/Kg		98	67 - 129	6	30
Bromoform			0.0500	0.0452		mg/Kg		90	68 - 136	8	30
Bromomethane			0.0500	0.0443		mg/Kg		89	70 - 130	1	30
Carbon disulfide			0.0500	0.0413		mg/Kg		83	70 - 129	1	30
Carbon tetrachloride			0.0500	0.0476		mg/Kg		95	75 - 125	3	30
Chlorobenzene			0.0500	0.0455		mg/Kg		91	50 - 150	5	30
Chloroethane			0.0500	0.0430		mg/Kg		86	75 - 125	2	30
Chloroform			0.0500	0.0446		mg/Kg		89	57 - 135	7	30
Chloromethane			0.0500	0.0388		mg/Kg		78	70 - 125	4	30
cis-1,2-Dichloroethene			0.0500	0.0428		mg/Kg		86	70 - 125	5	30
cis-1,3-Dichloropropene			0.0500	0.0491		mg/Kg		98	70 - 125	8	30
Dibromochloromethane			0.0500	0.0471		mg/Kg		94	69 - 125	4	30
Ethylbenzene			0.0500	0.0467		mg/Kg		93	61 - 136	4	30
Methyl tert-butyl ether			0.0500	0.0459		mg/Kg		92	50 - 140	11	30
Methylene Chloride			0.0500	0.0389		mg/Kg		78	70 - 126	2	30
Styrene			0.0500	0.0472		mg/Kg		94	70 - 125	7	30
Tetrachloroethene			0.0500	0.0494		mg/Kg		99	70 - 124	3	30
Toluene			0.0500	0.0463		mg/Kg		93	70 - 125	5	30
Xylenes, Total			0.100	0.0938		mg/Kg		94	53 - 147	6	30
trans-1,2-Dichloroethene			0.0500	0.0425		mg/Kg		85	70 - 125	4	30
trans-1,3-Dichloropropene			0.0500	0.0481		mg/Kg		96	70 - 125	4	30
Trichloroethene			0.0500	0.0465		mg/Kg		93	70 - 125	3	30
Vinyl chloride			0.0500	0.0431		mg/Kg		86	70 - 125	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*
Dibromofluoromethane	*100*		*75 - 126*
Toluene-d8 (Surr)	*103*		*75 - 124*

Lab Sample ID: MB 500-785646/7
Matrix: Solid
Analysis Batch: 785646

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/12/24 10:49	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/12/24 10:49	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/12/24 10:49	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/12/24 10:49	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-785646/7
Matrix: Solid
Analysis Batch: 785646

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/12/24 10:49	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/12/24 10:49	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/12/24 10:49	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/12/24 10:49	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/12/24 10:49	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/12/24 10:49	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/12/24 10:49	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/12/24 10:49	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/12/24 10:49	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/12/24 10:49	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/12/24 10:49	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/12/24 10:49	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/12/24 10:49	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/12/24 10:49	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/12/24 10:49	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/12/24 10:49	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/12/24 10:49	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/12/24 10:49	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/12/24 10:49	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/12/24 10:49	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/12/24 10:49	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/12/24 10:49	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/12/24 10:49	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/12/24 10:49	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/12/24 10:49	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/12/24 10:49	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/12/24 10:49	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/12/24 10:49	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/12/24 10:49	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/12/24 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*		*09/12/24 10:49*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*		*09/12/24 10:49*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*09/12/24 10:49*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*		*09/12/24 10:49*	*1*

Lab Sample ID: LCS 500-785646/4
Matrix: Solid
Analysis Batch: 785646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0437		mg/Kg		87	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0485		mg/Kg		97	70 - 122
1,1,2-Trichloroethane	0.0500	0.0484		mg/Kg		97	70 - 125
1,1-Dichloroethane	0.0500	0.0454		mg/Kg		91	70 - 125
1,1-Dichloroethene	0.0500	0.0453		mg/Kg		91	70 - 120
1,2-Dichloroethane	0.0500	0.0431		mg/Kg		86	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785646/4
Matrix: Solid
Analysis Batch: 785646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0473		mg/Kg		95	70 - 125
2-Butanone (MEK)	0.0500	0.0483		mg/Kg		97	47 - 138
2-Hexanone	0.0500	0.0512		mg/Kg		102	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0513		mg/Kg		103	50 - 148
Acetone	0.0500	0.0461		mg/Kg		92	40 - 150
Benzene	0.0500	0.0468		mg/Kg		94	70 - 125
Bromodichloromethane	0.0500	0.0474		mg/Kg		95	67 - 129
Bromoform	0.0500	0.0531		mg/Kg		106	68 - 136
Bromomethane	0.0500	0.0422		mg/Kg		84	70 - 130
Carbon disulfide	0.0500	0.0457		mg/Kg		91	70 - 129
Carbon tetrachloride	0.0500	0.0440		mg/Kg		88	75 - 125
Chlorobenzene	0.0500	0.0463		mg/Kg		93	50 - 150
Chloroethane	0.0500	0.0460		mg/Kg		92	75 - 125
Chloroform	0.0500	0.0448		mg/Kg		90	57 - 135
Chloromethane	0.0500	0.0354		mg/Kg		71	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0477		mg/Kg		95	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0481		mg/Kg		96	70 - 125
Dibromochloromethane	0.0500	0.0498		mg/Kg		100	69 - 125
Ethylbenzene	0.0500	0.0473		mg/Kg		95	61 - 136
Methyl tert-butyl ether	0.0500	0.0488		mg/Kg		98	50 - 140
Methylene Chloride	0.0500	0.0434		mg/Kg		87	70 - 126
Styrene	0.0500	0.0510		mg/Kg		102	70 - 125
Tetrachloroethene	0.0500	0.0448		mg/Kg		90	70 - 124
Toluene	0.0500	0.0462		mg/Kg		92	70 - 125
Xylenes, Total	0.100	0.0940		mg/Kg		94	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0467		mg/Kg		93	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0470		mg/Kg		94	70 - 125
Trichloroethene	0.0500	0.0454		mg/Kg		91	70 - 125
Vinyl chloride	0.0500	0.0362		mg/Kg		72	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*
Dibromofluoromethane	*97*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 124*

Lab Sample ID: LCSD 500-785646/5
Matrix: Solid
Analysis Batch: 785646

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0442		mg/Kg		88	70 - 128	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0528		mg/Kg		106	70 - 122	8	30
1,1,2-Trichloroethane	0.0500	0.0492		mg/Kg		98	70 - 125	2	30
1,1-Dichloroethane	0.0500	0.0456		mg/Kg		91	70 - 125	0	30
1,1-Dichloroethene	0.0500	0.0481		mg/Kg		96	70 - 120	6	30
1,2-Dichloroethane	0.0500	0.0441		mg/Kg		88	70 - 130	2	30
1,2-Dichloropropane	0.0500	0.0483		mg/Kg		97	70 - 125	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-785646/5
Matrix: Solid
Analysis Batch: 785646

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			0.0500	0.0489		mg/Kg		98	47 - 138	1	30
2-Hexanone			0.0500	0.0490		mg/Kg		98	48 - 146	4	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0495		mg/Kg		99	50 - 148	4	30
Acetone			0.0500	0.0414		mg/Kg		83	40 - 150	11	30
Benzene			0.0500	0.0471		mg/Kg		94	70 - 125	1	30
Bromodichloromethane			0.0500	0.0482		mg/Kg		96	67 - 129	2	30
Bromoform			0.0500	0.0545		mg/Kg		109	68 - 136	3	30
Bromomethane			0.0500	0.0413		mg/Kg		83	70 - 130	2	30
Carbon disulfide			0.0500	0.0450		mg/Kg		90	70 - 129	1	30
Carbon tetrachloride			0.0500	0.0445		mg/Kg		89	75 - 125	1	30
Chlorobenzene			0.0500	0.0467		mg/Kg		93	50 - 150	1	30
Chloroethane			0.0500	0.0458		mg/Kg		92	75 - 125	1	30
Chloroform			0.0500	0.0466		mg/Kg		93	57 - 135	4	30
Chloromethane			0.0500	0.0364		mg/Kg		73	70 - 125	3	30
cis-1,2-Dichloroethene			0.0500	0.0483		mg/Kg		97	70 - 125	1	30
cis-1,3-Dichloropropene			0.0500	0.0486		mg/Kg		97	70 - 125	1	30
Dibromochloromethane			0.0500	0.0508		mg/Kg		102	69 - 125	2	30
Ethylbenzene			0.0500	0.0485		mg/Kg		97	61 - 136	3	30
Methyl tert-butyl ether			0.0500	0.0492		mg/Kg		98	50 - 140	1	30
Methylene Chloride			0.0500	0.0434		mg/Kg		87	70 - 126	0	30
Styrene			0.0500	0.0511		mg/Kg		102	70 - 125	0	30
Tetrachloroethene			0.0500	0.0455		mg/Kg		91	70 - 124	1	30
Toluene			0.0500	0.0464		mg/Kg		93	70 - 125	0	30
Xylenes, Total			0.100	0.0955		mg/Kg		95	53 - 147	2	30
trans-1,2-Dichloroethene			0.0500	0.0481		mg/Kg		96	70 - 125	3	30
trans-1,3-Dichloropropene			0.0500	0.0483		mg/Kg		97	70 - 125	3	30
Trichloroethene			0.0500	0.0466		mg/Kg		93	70 - 125	3	30
Vinyl chloride			0.0500	0.0366		mg/Kg		73	70 - 125	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*
Dibromofluoromethane	*99*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 124*

Lab Sample ID: MB 500-785881/7
Matrix: Solid
Analysis Batch: 785881

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/13/24 11:30	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/13/24 11:30	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/13/24 11:30	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/13/24 11:30	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/13/24 11:30	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/13/24 11:30	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/13/24 11:30	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/13/24 11:30	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-785881/7
Matrix: Solid
Analysis Batch: 785881

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/13/24 11:30	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/13/24 11:30	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/13/24 11:30	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/13/24 11:30	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/13/24 11:30	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/13/24 11:30	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/13/24 11:30	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/13/24 11:30	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/13/24 11:30	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/13/24 11:30	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/13/24 11:30	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/13/24 11:30	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/13/24 11:30	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/13/24 11:30	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/13/24 11:30	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/13/24 11:30	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/13/24 11:30	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/13/24 11:30	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/13/24 11:30	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/13/24 11:30	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/13/24 11:30	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/13/24 11:30	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/13/24 11:30	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/13/24 11:30	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/13/24 11:30	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/13/24 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*		*09/13/24 11:30*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*		*09/13/24 11:30*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*09/13/24 11:30*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*		*09/13/24 11:30*	*1*

Lab Sample ID: LCS 500-785881/4
Matrix: Solid
Analysis Batch: 785881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0448		mg/Kg		90	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0351		mg/Kg		70	70 - 122
1,1,2-Trichloroethane	0.0500	0.0389		mg/Kg		78	70 - 125
1,1-Dichloroethane	0.0500	0.0390		mg/Kg		78	70 - 125
1,1-Dichloroethene	0.0500	0.0404		mg/Kg		81	70 - 120
1,2-Dichloroethane	0.0500	0.0420		mg/Kg		84	70 - 130
1,2-Dichloropropane	0.0500	0.0415		mg/Kg		83	70 - 125
2-Butanone (MEK)	0.0500	0.0397		mg/Kg		79	47 - 138
2-Hexanone	0.0500	0.0397		mg/Kg		79	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0402		mg/Kg		80	50 - 148

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785881/4
Matrix: Solid
Analysis Batch: 785881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			0.0500	0.0383		mg/Kg		77	40 - 150		
Benzene			0.0500	0.0418		mg/Kg		84	70 - 125		
Bromodichloromethane			0.0500	0.0433		mg/Kg		87	67 - 129		
Bromoform			0.0500	0.0408		mg/Kg		82	68 - 136		
Bromomethane			0.0500	0.0470		mg/Kg		94	70 - 130		
Carbon disulfide			0.0500	0.0404		mg/Kg		81	70 - 129		
Carbon tetrachloride			0.0500	0.0468		mg/Kg		94	75 - 125		
Chlorobenzene			0.0500	0.0420		mg/Kg		84	50 - 150		
Chloroethane			0.0500	0.0437		mg/Kg		87	75 - 125		
Chloroform			0.0500	0.0401		mg/Kg		80	57 - 135		
Chloromethane			0.0500	0.0461		mg/Kg		92	70 - 125		
cis-1,2-Dichloroethene			0.0500	0.0390		mg/Kg		78	70 - 125		
cis-1,3-Dichloropropene			0.0500	0.0448		mg/Kg		90	70 - 125		
Dibromochloromethane			0.0500	0.0417		mg/Kg		83	69 - 125		
Ethylbenzene			0.0500	0.0436		mg/Kg		87	61 - 136		
Methyl tert-butyl ether			0.0500	0.0396		mg/Kg		79	50 - 140		
Methylene Chloride			0.0500	0.0346	*-	mg/Kg		69	70 - 126		
Styrene			0.0500	0.0428		mg/Kg		86	70 - 125		
Tetrachloroethene			0.0500	0.0469		mg/Kg		94	70 - 124		
Toluene			0.0500	0.0428		mg/Kg		86	70 - 125		
Xylenes, Total			0.100	0.0876		mg/Kg		88	53 - 147		
trans-1,2-Dichloroethene			0.0500	0.0401		mg/Kg		80	70 - 125		
trans-1,3-Dichloropropene			0.0500	0.0432		mg/Kg		86	70 - 125		
Trichloroethene			0.0500	0.0444		mg/Kg		89	70 - 125		
Vinyl chloride			0.0500	0.0488		mg/Kg		98	70 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*
Dibromofluoromethane	*99*		*75 - 126*
Toluene-d8 (Surr)	*101*		*75 - 124*

Lab Sample ID: LCSD 500-785881/5
Matrix: Solid
Analysis Batch: 785881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0500	0.0476		mg/Kg		95	70 - 128	6	30
1,1,2,2-Tetrachloroethane			0.0500	0.0375		mg/Kg		75	70 - 122	6	30
1,1,2-Trichloroethane			0.0500	0.0435		mg/Kg		87	70 - 125	11	30
1,1-Dichloroethane			0.0500	0.0413		mg/Kg		83	70 - 125	6	30
1,1-Dichloroethene			0.0500	0.0423		mg/Kg		85	70 - 120	5	30
1,2-Dichloroethane			0.0500	0.0463		mg/Kg		93	70 - 130	10	30
1,2-Dichloropropane			0.0500	0.0432		mg/Kg		86	70 - 125	4	30
2-Butanone (MEK)			0.0500	0.0449		mg/Kg		90	47 - 138	12	30
2-Hexanone			0.0500	0.0461		mg/Kg		92	48 - 146	15	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0443		mg/Kg		89	50 - 148	10	30
Acetone			0.0500	0.0438		mg/Kg		88	40 - 150	14	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-785881/5
Matrix: Solid
Analysis Batch: 785881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.0444		mg/Kg		89	70 - 125	6	30
Bromodichloromethane			0.0500	0.0477		mg/Kg		95	67 - 129	10	30
Bromoform			0.0500	0.0449		mg/Kg		90	68 - 136	9	30
Bromomethane			0.0500	0.0496		mg/Kg		99	70 - 130	6	30
Carbon disulfide			0.0500	0.0414		mg/Kg		83	70 - 129	3	30
Carbon tetrachloride			0.0500	0.0478		mg/Kg		96	75 - 125	2	30
Chlorobenzene			0.0500	0.0447		mg/Kg		89	50 - 150	6	30
Chloroethane			0.0500	0.0460		mg/Kg		92	75 - 125	5	30
Chloroform			0.0500	0.0438		mg/Kg		88	57 - 135	9	30
Chloromethane			0.0500	0.0492		mg/Kg		98	70 - 125	6	30
cis-1,2-Dichloroethene			0.0500	0.0423		mg/Kg		85	70 - 125	8	30
cis-1,3-Dichloropropene			0.0500	0.0467		mg/Kg		93	70 - 125	4	30
Dibromochloromethane			0.0500	0.0475		mg/Kg		95	69 - 125	13	30
Ethylbenzene			0.0500	0.0445		mg/Kg		89	61 - 136	2	30
Methyl tert-butyl ether			0.0500	0.0443		mg/Kg		89	50 - 140	11	30
Methylene Chloride			0.0500	0.0369		mg/Kg		74	70 - 126	7	30
Styrene			0.0500	0.0448		mg/Kg		90	70 - 125	5	30
Tetrachloroethene			0.0500	0.0486		mg/Kg		97	70 - 124	4	30
Toluene			0.0500	0.0448		mg/Kg		90	70 - 125	5	30
Xylenes, Total			0.100	0.0906		mg/Kg		91	53 - 147	3	30
trans-1,2-Dichloroethene			0.0500	0.0409		mg/Kg		82	70 - 125	2	30
trans-1,3-Dichloropropene			0.0500	0.0478		mg/Kg		96	70 - 125	10	30
Trichloroethene			0.0500	0.0448		mg/Kg		90	70 - 125	1	30
Vinyl chloride			0.0500	0.0494		mg/Kg		99	70 - 125	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*
Dibromofluoromethane	*99*		*75 - 126*
Toluene-d8 (Surr)	*100*		*75 - 124*

Lab Sample ID: MB 500-786161/7
Matrix: Solid
Analysis Batch: 786161

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			09/16/24 11:48	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			09/16/24 11:48	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			09/16/24 11:48	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			09/16/24 11:48	1
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			09/16/24 11:48	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			09/16/24 11:48	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			09/16/24 11:48	1
2-Butanone (MEK)	<0.0031		0.0050	0.0031	mg/Kg			09/16/24 11:48	1
2-Hexanone	<0.0029		0.0050	0.0029	mg/Kg			09/16/24 11:48	1
4-Methyl-2-pentanone (MIBK)	<0.0027		0.0050	0.0027	mg/Kg			09/16/24 11:48	1
Acetone	<0.0072		0.010	0.0072	mg/Kg			09/16/24 11:48	1
Benzene	<0.00012		0.00025	0.00012	mg/Kg			09/16/24 11:48	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-786161/7
Matrix: Solid
Analysis Batch: 786161

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			09/16/24 11:48	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			09/16/24 11:48	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			09/16/24 11:48	1
Carbon disulfide	<0.0011		0.0020	0.0011	mg/Kg			09/16/24 11:48	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			09/16/24 11:48	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			09/16/24 11:48	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			09/16/24 11:48	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			09/16/24 11:48	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			09/16/24 11:48	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			09/16/24 11:48	1
1,3-Dichloropropene, Total	<0.00063		0.0010	0.00063	mg/Kg			09/16/24 11:48	1
Dibromochloromethane	<0.00083		0.0010	0.00083	mg/Kg			09/16/24 11:48	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			09/16/24 11:48	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			09/16/24 11:48	1
Methylene Chloride	0.00255	J	0.0050	0.0021	mg/Kg			09/16/24 11:48	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			09/16/24 11:48	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			09/16/24 11:48	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			09/16/24 11:48	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			09/16/24 11:48	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			09/16/24 11:48	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			09/16/24 11:48	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			09/16/24 11:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*09/16/24 11:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*09/16/24 11:48*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*09/16/24 11:48*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*09/16/24 11:48*	*1*

Lab Sample ID: LCS 500-786161/4
Matrix: Solid
Analysis Batch: 786161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0501		mg/Kg		100	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0478		mg/Kg		96	62 - 140
1,1,2-Trichloroethane	0.0500	0.0508		mg/Kg		102	71 - 130
1,1-Dichloroethane	0.0500	0.0491		mg/Kg		98	70 - 125
1,1-Dichloroethene	0.0500	0.0523		mg/Kg		105	67 - 122
1,2-Dichloroethane	0.0500	0.0466		mg/Kg		93	68 - 127
1,2-Dichloropropane	0.0500	0.0482		mg/Kg		96	67 - 130
2-Butanone (MEK)	0.0500	0.0412		mg/Kg		82	46 - 144
2-Hexanone	0.0500	0.0440		mg/Kg		88	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0446		mg/Kg		89	55 - 139
Acetone	0.0500	0.0380		mg/Kg		76	40 - 143
Benzene	0.0500	0.0478		mg/Kg		96	70 - 120
Bromodichloromethane	0.0500	0.0476		mg/Kg		95	69 - 120
Bromoform	0.0500	0.0468		mg/Kg		94	56 - 132

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786161/4
Matrix: Solid
Analysis Batch: 786161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	0.0500	0.0460		mg/Kg		92	40 - 152
Carbon disulfide	0.0500	0.0503		mg/Kg		101	66 - 120
Carbon tetrachloride	0.0500	0.0518		mg/Kg		104	59 - 133
Chlorobenzene	0.0500	0.0505		mg/Kg		101	70 - 120
Chloroethane	0.0500	0.0381		mg/Kg		76	48 - 136
Chloroform	0.0500	0.0462		mg/Kg		92	70 - 120
Chloromethane	0.0500	0.0531		mg/Kg		106	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0497		mg/Kg		99	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0476		mg/Kg		95	64 - 127
Dibromochloromethane	0.0500	0.0483		mg/Kg		97	68 - 125
Ethylbenzene	0.0500	0.0476		mg/Kg		95	70 - 123
Methyl tert-butyl ether	0.0500	0.0469		mg/Kg		94	55 - 123
Methylene Chloride	0.0500	0.0487		mg/Kg		97	69 - 125
Styrene	0.0500	0.0499		mg/Kg		100	70 - 120
Tetrachloroethene	0.0500	0.0543		mg/Kg		109	70 - 128
Toluene	0.0500	0.0457		mg/Kg		91	70 - 125
Xylenes, Total	0.100	0.0948		mg/Kg		95	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0514		mg/Kg		103	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0471		mg/Kg		94	62 - 128
Trichloroethene	0.0500	0.0495		mg/Kg		99	70 - 125
Vinyl chloride	0.0500	0.0510		mg/Kg		102	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane	*98*		*75 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-786476/1-A
Matrix: Solid
Analysis Batch: 786603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/17/24 13:27	09/18/24 11:46	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786476/1-A
Matrix: Solid
Analysis Batch: 786603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Diethyl phthalate	0.0397	J	0.17	0.015	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/17/24 13:27	09/18/24 11:46	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786476/1-A
Matrix: Solid
Analysis Batch: 786603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.014		0.17	0.014	mg/Kg		09/17/24 13:27	09/18/24 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*91*		*31 - 166*	*09/17/24 13:27*	*09/18/24 11:46*	*1*
Phenol-d5 (Surr)	*88*		*30 - 153*	*09/17/24 13:27*	*09/18/24 11:46*	*1*
Nitrobenzene-d5 (Surr)	*93*		*37 - 147*	*09/17/24 13:27*	*09/18/24 11:46*	*1*
2-Fluorobiphenyl (Surr)	*90*		*43 - 145*	*09/17/24 13:27*	*09/18/24 11:46*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*31 - 143*	*09/17/24 13:27*	*09/18/24 11:46*	*1*
Terphenyl-d14 (Surr)	*92*		*42 - 157*	*09/17/24 13:27*	*09/18/24 11:46*	*1*

Lab Sample ID: LCS 500-786476/2-A
Matrix: Solid
Analysis Batch: 786603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.67		mg/Kg		80	63 - 109
Acenaphthylene	3.33	2.82		mg/Kg		85	61 - 115
Anthracene	3.33	2.81		mg/Kg		84	68 - 120
Benzo[a]anthracene	3.33	2.76		mg/Kg		83	70 - 121
Benzo[a]pyrene	3.33	2.99		mg/Kg		90	73 - 132
Benzo[b]fluoranthene	3.33	2.85		mg/Kg		86	68 - 123
Benzo[g,h,i]perylene	3.33	3.01		mg/Kg		90	65 - 126
Benzo[k]fluoranthene	3.33	3.07		mg/Kg		92	64 - 128
Chrysene	3.33	2.72		mg/Kg		81	70 - 123
Dibenz(a,h)anthracene	3.33	2.98		mg/Kg		89	66 - 125
Fluoranthene	3.33	2.78		mg/Kg		83	66 - 123
Fluorene	3.33	2.68		mg/Kg		80	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.13		mg/Kg		94	66 - 131
Naphthalene	3.33	2.59		mg/Kg		78	54 - 98
Phenanthrene	3.33	2.82		mg/Kg		85	65 - 115
Pyrene	3.33	2.87		mg/Kg		86	71 - 128
1,2,4-Trichlorobenzene	3.33	2.37		mg/Kg		71	49 - 100
1,2-Dichlorobenzene	3.33	2.42		mg/Kg		73	47 - 94
1,3-Dichlorobenzene	3.33	2.44		mg/Kg		73	47 - 92
1,4-Dichlorobenzene	3.33	2.43		mg/Kg		73	46 - 92
2,4,5-Trichlorophenol	3.33	2.45		mg/Kg		74	48 - 121
2,4,6-Trichlorophenol	3.33	2.39		mg/Kg		72	50 - 121
2,4-Dichlorophenol	3.33	2.52		mg/Kg		76	51 - 109
2,4-Dimethylphenol	3.33	2.81		mg/Kg		84	48 - 93
2,4-Dinitrophenol	6.67	2.79		mg/Kg		42	10 - 130
2,4-Dinitrotoluene	3.33	2.74		mg/Kg		82	65 - 120
2,6-Dinitrotoluene	3.33	2.70		mg/Kg		81	66 - 117
2-Chloronaphthalene	3.33	2.62		mg/Kg		79	60 - 107
2-Chlorophenol	3.33	2.67		mg/Kg		80	50 - 102
2-Methylnaphthalene	3.33	2.24		mg/Kg		67	58 - 103
2-Methylphenol	3.33	2.62		mg/Kg		79	50 - 104
2-Nitroaniline	3.33	3.08		mg/Kg		92	61 - 126
2-Nitrophenol	3.33	2.52		mg/Kg		76	41 - 114

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-786476/2-A
Matrix: Solid
Analysis Batch: 786603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3,3'-Dichlorobenzidine	3.33	2.34		mg/Kg		70	36 - 131
3 & 4 Methylphenol	3.33	2.68		mg/Kg		80	49 - 109
3-Nitroaniline	3.33	2.63		mg/Kg		79	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.35		mg/Kg		65	36 - 138
4-Bromophenyl phenyl ether	3.33	2.61		mg/Kg		78	57 - 124
4-Chloro-3-methylphenol	3.33	2.67		mg/Kg		80	57 - 113
4-Chloroaniline	3.33	2.38		mg/Kg		72	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.51		mg/Kg		75	60 - 112
4-Nitroaniline	3.33	2.59		mg/Kg		78	60 - 115
4-Nitrophenol	6.67	5.11		mg/Kg		77	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.64		mg/Kg		79	54 - 102
Bis(2-chloroethyl)ether	3.33	2.68		mg/Kg		81	49 - 99
bis(chloroisopropyl) ether	3.33	3.01		mg/Kg		90	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.12		mg/Kg		94	70 - 139
Butyl benzyl phthalate	3.33	3.08		mg/Kg		92	65 - 140
Carbazole	3.33	2.80		mg/Kg		84	68 - 120
Dibenzofuran	3.33	2.58		mg/Kg		78	64 - 112
Diethyl phthalate	3.33	2.73		mg/Kg		82	66 - 115
Dimethyl phthalate	3.33	2.65		mg/Kg		80	65 - 114
Di-n-butyl phthalate	3.33	2.92		mg/Kg		88	69 - 125
Di-n-octyl phthalate	3.33	3.04		mg/Kg		91	61 - 131
Hexachlorobenzene	3.33	2.61		mg/Kg		78	52 - 126
Hexachlorobutadiene	3.33	2.41		mg/Kg		72	42 - 103
Hexachlorocyclopentadiene	3.33	1.35		mg/Kg		41	10 - 100
Hexachloroethane	3.33	2.73		mg/Kg		82	45 - 95
Isophorone	3.33	2.61		mg/Kg		78	47 - 108
Nitrobenzene	3.33	2.94		mg/Kg		88	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.76		mg/Kg		83	48 - 110
N-Nitrosodiphenylamine	3.33	2.76		mg/Kg		83	67 - 112
Pentachlorophenol	6.67	3.02		mg/Kg		45	32 - 128
Phenol	3.33	2.91		mg/Kg		87	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*83*		*31 - 166*
Phenol-d5 (Surr)	*83*		*30 - 153*
Nitrobenzene-d5 (Surr)	*85*		*37 - 147*
2-Fluorobiphenyl (Surr)	*80*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*64*		*31 - 143*
Terphenyl-d14 (Surr)	*80*		*42 - 157*

Lab Sample ID: MB 500-786617/1-A
Matrix: Solid
Analysis Batch: 786825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/18/24 09:50	09/19/24 13:47	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786617/1-A
Matrix: Solid
Analysis Batch: 786825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/18/24 09:50	09/19/24 13:47	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786617/1-A
Matrix: Solid
Analysis Batch: 786825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/18/24 09:50	09/19/24 13:47	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/18/24 09:50	09/19/24 13:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*81*		*31 - 166*	*09/18/24 09:50*	*09/19/24 13:47*	*1*
Phenol-d5 (Surr)	*77*		*30 - 153*	*09/18/24 09:50*	*09/19/24 13:47*	*1*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*09/18/24 09:50*	*09/19/24 13:47*	*1*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*	*09/18/24 09:50*	*09/19/24 13:47*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*31 - 143*	*09/18/24 09:50*	*09/19/24 13:47*	*1*
Terphenyl-d14 (Surr)	*89*		*42 - 157*	*09/18/24 09:50*	*09/19/24 13:47*	*1*

Lab Sample ID: LCS 500-786617/2-A
Matrix: Solid
Analysis Batch: 786825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.52		mg/Kg		76	63 - 109
Acenaphthylene	3.33	2.60		mg/Kg		78	61 - 115
Anthracene	3.33	2.61		mg/Kg		78	68 - 120
Benzo[a]anthracene	3.33	2.62		mg/Kg		79	70 - 121
Benzo[a]pyrene	3.33	2.84		mg/Kg		85	73 - 132
Benzo[b]fluoranthene	3.33	2.78		mg/Kg		83	68 - 123
Benzo[g,h,i]perylene	3.33	3.13		mg/Kg		94	65 - 126
Benzo[k]fluoranthene	3.33	2.78		mg/Kg		83	64 - 128
Chrysene	3.33	2.61		mg/Kg		78	70 - 123
Dibenz(a,h)anthracene	3.33	2.99		mg/Kg		90	66 - 125
Fluoranthene	3.33	2.68		mg/Kg		80	66 - 123
Fluorene	3.33	2.56		mg/Kg		77	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	2.96		mg/Kg		89	66 - 131
Naphthalene	3.33	2.51		mg/Kg		75	54 - 98
Phenanthrene	3.33	2.59		mg/Kg		78	65 - 115
Pyrene	3.33	2.77		mg/Kg		83	71 - 128
1,2,4-Trichlorobenzene	3.33	2.47		mg/Kg		74	49 - 100
1,2-Dichlorobenzene	3.33	2.32		mg/Kg		70	47 - 94
1,3-Dichlorobenzene	3.33	2.29		mg/Kg		69	47 - 92
1,4-Dichlorobenzene	3.33	2.28		mg/Kg		68	46 - 92
2,4,5-Trichlorophenol	3.33	2.80		mg/Kg		84	48 - 121
2,4,6-Trichlorophenol	3.33	2.74		mg/Kg		82	50 - 121

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256275-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-786617/2-A
Matrix: Solid
Analysis Batch: 786825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dichlorophenol	3.33	2.57		mg/Kg		77	51 - 109
2,4-Dimethylphenol	3.33	2.74		mg/Kg		82	48 - 93
2,4-Dinitrophenol	6.67	3.77		mg/Kg		57	10 - 130
2,4-Dinitrotoluene	3.33	2.83		mg/Kg		85	65 - 120
2,6-Dinitrotoluene	3.33	2.81		mg/Kg		84	66 - 117
2-Chloronaphthalene	3.33	2.50		mg/Kg		75	60 - 107
2-Chlorophenol	3.33	2.48		mg/Kg		74	50 - 102
2-Methylnaphthalene	3.33	2.27		mg/Kg		68	58 - 103
2-Methylphenol	3.33	2.41		mg/Kg		72	50 - 104
2-Nitroaniline	3.33	2.47		mg/Kg		74	61 - 126
2-Nitrophenol	3.33	2.71		mg/Kg		81	41 - 114
3,3'-Dichlorobenzidine	3.33	2.36		mg/Kg		71	36 - 131
3 & 4 Methylphenol	3.33	2.32		mg/Kg		70	49 - 109
3-Nitroaniline	3.33	2.35		mg/Kg		71	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.54		mg/Kg		68	36 - 138
4-Bromophenyl phenyl ether	3.33	2.67		mg/Kg		80	57 - 124
4-Chloro-3-methylphenol	3.33	2.44		mg/Kg		73	57 - 113
4-Chloroaniline	3.33	2.22		mg/Kg		67	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.59		mg/Kg		78	60 - 112
4-Nitroaniline	3.33	2.58		mg/Kg		77	60 - 115
4-Nitrophenol	6.67	4.91		mg/Kg		74	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.35		mg/Kg		70	54 - 102
Bis(2-chloroethyl)ether	3.33	2.30		mg/Kg		69	49 - 99
bis(chloroisopropyl) ether	3.33	2.11		mg/Kg		63	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	2.53		mg/Kg		76	70 - 139
Butyl benzyl phthalate	3.33	2.60		mg/Kg		78	65 - 140
Carbazole	3.33	2.49		mg/Kg		75	68 - 120
Dibenzofuran	3.33	2.47		mg/Kg		74	64 - 112
Diethyl phthalate	3.33	2.45		mg/Kg		73	66 - 115
Dimethyl phthalate	3.33	2.51		mg/Kg		75	65 - 114
Di-n-butyl phthalate	3.33	2.50		mg/Kg		75	69 - 125
Di-n-octyl phthalate	3.33	2.38		mg/Kg		71	61 - 131
Hexachlorobenzene	3.33	2.73		mg/Kg		82	52 - 126
Hexachlorobutadiene	3.33	2.53		mg/Kg		76	42 - 103
Hexachlorocyclopentadiene	3.33	2.64		mg/Kg		79	10 - 100
Hexachloroethane	3.33	2.26		mg/Kg		68	45 - 95
Isophorone	3.33	2.30		mg/Kg		69	47 - 108
Nitrobenzene	3.33	2.46		mg/Kg		74	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.22		mg/Kg		67	48 - 110
N-Nitrosodiphenylamine	3.33	2.51		mg/Kg		75	67 - 112
Pentachlorophenol	6.67	5.36		mg/Kg		80	32 - 128
Phenol	3.33	2.43		mg/Kg		73	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*79*		*31 - 166*
Phenol-d5 (Surr)	*74*		*30 - 153*
Nitrobenzene-d5 (Surr)	*73*		*37 - 147*
2-Fluorobiphenyl (Surr)	*76*		*43 - 145*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-786617/2-A
Matrix: Solid
Analysis Batch: 786825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786617

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*90*		*31 - 143*
Terphenyl-d14 (Surr)	*82*		*42 - 157*

Lab Sample ID: 500-256275-10 MS
Matrix: Solid
Analysis Batch: 786826

Client Sample ID: SB48 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	5.9	F1 F2	3.54	15.1	F1	mg/Kg	☼	259	65 - 124
Acenaphthylene	<0.012		3.54	2.59		mg/Kg	☼	73	68 - 120
Anthracene	11	F1 F2	3.54	24.8	E F1	mg/Kg	☼	397	70 - 114
Benzo[a]anthracene	19	F2	3.54	33.9	E 4	mg/Kg	☼	418	67 - 122
Benzo[a]pyrene	19	F2	3.54	32.4	E 4	mg/Kg	☼	377	65 - 133
Benzo[b]fluoranthene	22	E F2	3.54	43.9	E 4	mg/Kg	☼	606	69 - 129
Benzo[g,h,i]perylene	8.0	F1 F2	3.54	14.1	F1	mg/Kg	☼	171	72 - 131
Benzo[k]fluoranthene	16	F2	3.54	23.8	E 4	mg/Kg	☼	233	68 - 127
Chrysene	19	F2	3.54	32.7	E 4	mg/Kg	☼	391	63 - 120
Dibenz(a,h)anthracene	3.6	F2 F1	3.54	7.88		mg/Kg	☼	122	64 - 131
Fluoranthene	43	E F2	3.54	76.6	E 4	mg/Kg	☼	948	62 - 120
Fluorene	5.8	F1 F2	3.54	16.4	F1	mg/Kg	☼	299	62 - 120
Indeno[1,2,3-cd]pyrene	9.3	F1 F2	3.54	16.6	F1	mg/Kg	☼	208	68 - 130
Naphthalene	1.6	F2 F1	3.54	5.25		mg/Kg	☼	103	63 - 110
Phenanthrene	35	E F2	3.54	71.7	E 4	mg/Kg	☼	1034	62 - 120
Pyrene	33	E F2	3.54	55.4	E 4	mg/Kg	☼	633	61 - 128
1,2,4-Trichlorobenzene	<0.050	F1	3.54	2.18	F1	mg/Kg	☼	62	66 - 117
1,2-Dichlorobenzene	<0.029	F1	3.54	2.03	F1	mg/Kg	☼	57	62 - 110
1,3-Dichlorobenzene	<0.032	F1	3.54	1.95	F1	mg/Kg	☼	55	60 - 110
1,4-Dichlorobenzene	<0.033	F1	3.54	1.96	F1	mg/Kg	☼	56	61 - 110
2,4,5-Trichlorophenol	<0.027	F1	3.54	0.426	J F1	mg/Kg	☼	12	50 - 120
2,4,6-Trichlorophenol	<0.024	F1 F2	3.54	0.156	J F1	mg/Kg	☼	4	57 - 120
2,4-Dichlorophenol	<0.025	F1	3.54	0.901	F1	mg/Kg	☼	25	58 - 120
2,4-Dimethylphenol	<0.16		3.54	2.42		mg/Kg	☼	68	60 - 110
2,4-Dinitrophenol	<0.41	F1	7.08	<0.41	F1	mg/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<0.040		3.54	2.71		mg/Kg	☼	77	69 - 124
2,6-Dinitrotoluene	<0.024		3.54	2.71		mg/Kg	☼	76	70 - 123
2-Chloronaphthalene	<0.026		3.54	2.47		mg/Kg	☼	70	69 - 114
2-Chlorophenol	<0.023	F1	3.54	1.44	F1	mg/Kg	☼	41	64 - 110
2-Methylnaphthalene	1.4	F2 F1	3.54	5.02		mg/Kg	☼	103	69 - 112
2-Methylphenol	<0.037		3.54	2.19		mg/Kg	☼	62	60 - 120
2-Nitroaniline	<0.038		3.54	3.01		mg/Kg	☼	85	57 - 124
2-Nitrophenol	<0.048	F1	3.54	0.356	J F1	mg/Kg	☼	10	60 - 120
3,3'-Dichlorobenzidine	<0.058		3.54	2.61		mg/Kg	☼	74	35 - 128
3 & 4 Methylphenol	<0.052		3.54	2.22		mg/Kg	☼	63	57 - 120
3-Nitroaniline	<0.032		3.54	2.47		mg/Kg	☼	70	40 - 122
4,6-Dinitro-2-methylphenol	<0.40	F1	7.08	0.560	J F1	mg/Kg	☼	8	10 - 110
4-Bromophenyl phenyl ether	<0.048		3.54	2.74		mg/Kg	☼	77	68 - 118
4-Chloro-3-methylphenol	<0.027		3.54	2.31		mg/Kg	☼	65	65 - 122
4-Chloroaniline	<0.74		3.54	1.78		mg/Kg	☼	50	30 - 150

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256275-10 MS
Matrix: Solid
Analysis Batch: 786826

Client Sample ID: SB48 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorophenyl phenyl ether	<0.092		3.54	2.66		mg/Kg	☼	75	62 - 119
4-Nitroaniline	<0.052		3.54	2.63		mg/Kg	☼	74	60 - 160
4-Nitrophenol	<0.26	F1	7.08	0.976	J F1	mg/Kg	☼	14	30 - 122
Bis(2-chloroethoxy)methane	<0.026		3.54	2.30		mg/Kg	☼	65	60 - 112
Bis(2-chloroethyl)ether	<0.032		3.54	2.03		mg/Kg	☼	57	55 - 111
bis(chloroisopropyl) ether	<0.051		3.54	2.28		mg/Kg	☼	65	40 - 124
Bis(2-ethylhexyl) phthalate	<0.28		3.54	3.08		mg/Kg	☼	87	72 - 131
Butyl benzyl phthalate	<0.035		3.54	2.97		mg/Kg	☼	84	71 - 129
Carbazole	4.8	F1 F2	3.54	12.6	F1	mg/Kg	☼	221	65 - 142
Dibenzofuran	3.5	F1 F2	3.54	10.5	F1	mg/Kg	☼	199	66 - 115
Diethyl phthalate	<0.032		3.54	2.84		mg/Kg	☼	80	58 - 120
Dimethyl phthalate	<0.015		3.54	2.62		mg/Kg	☼	74	69 - 116
Di-n-butyl phthalate	<0.022		3.54	3.04		mg/Kg	☼	86	65 - 120
Di-n-octyl phthalate	<0.49		3.54	3.24		mg/Kg	☼	92	68 - 134
Hexachlorobenzene	<0.014		3.54	2.78		mg/Kg	☼	79	63 - 124
Hexachlorobutadiene	<0.040		3.54	2.21		mg/Kg	☼	62	56 - 120
Hexachlorocyclopentadiene	<0.75	F1	3.54	<0.75	F1	mg/Kg	☼	0	10 - 133
Hexachloroethane	<0.035	F1	3.54	1.97	F1	mg/Kg	☼	56	60 - 114
Isophorone	<0.036		3.54	2.31		mg/Kg	☼	65	55 - 110
Nitrobenzene	<0.022		3.54	2.34		mg/Kg	☼	66	60 - 116
N-Nitrosodi-n-propylamine	<0.014		3.54	2.26		mg/Kg	☼	64	56 - 118
N-Nitrosodiphenylamine	<0.042		3.54	3.12		mg/Kg	☼	88	65 - 112
Pentachlorophenol	<0.18	F1	7.08	0.216	J F1	mg/Kg	☼	3	13 - 112
Phenol	<0.031		3.54	2.22		mg/Kg	☼	63	56 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*38*		*31 - 166*
Phenol-d5 (Surr)	*61*		*30 - 153*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*5*	*S1-*	*31 - 143*
Terphenyl-d14 (Surr)	*77*		*42 - 157*

Lab Sample ID: 500-256275-10 MSD
Matrix: Solid
Analysis Batch: 786826

Client Sample ID: SB48 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786617

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	5.9	F1 F2	3.50	6.71	F1 F2	mg/Kg	☼	23	65 - 124	77	30
Acenaphthylene	<0.012		3.50	2.63		mg/Kg	☼	75	68 - 120	2	30
Anthracene	11	F1 F2	3.50	9.91	F1 F2	mg/Kg	☼	-25	70 - 114	86	30
Benzo[a]anthracene	19	F2	3.50	17.0	4 F2	mg/Kg	☼	-62	67 - 122	67	30
Benzo[a]pyrene	19	F2	3.50	17.4	4 F2	mg/Kg	☼	-47	65 - 133	60	30
Benzo[b]fluoranthene	22	E F2	3.50	22.2	E 4 F2	mg/Kg	☼	-8	69 - 129	66	30
Benzo[g,h,i]perylene	8.0	F1 F2	3.50	8.43	F1 F2	mg/Kg	☼	12	72 - 131	50	30
Benzo[k]fluoranthene	16	F2	3.50	14.3	4 F2	mg/Kg	☼	-36	68 - 127	50	30
Chrysene	19	F2	3.50	16.7	4 F2	mg/Kg	☼	-62	63 - 120	65	30
Dibenz(a,h)anthracene	3.6	F2 F1	3.50	5.27	F1 F2	mg/Kg	☼	48	64 - 131	40	30

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256275-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256275-10 MSD
Matrix: Solid
Analysis Batch: 786826

Client Sample ID: SB48 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786617

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoranthene	43	E F2	3.50	33.6	E 4 F2	mg/Kg	☼	-270	62 - 120	78	30
Fluorene	5.8	F1 F2	3.50	6.64	F1 F2	mg/Kg	☼	24	62 - 120	85	30
Indeno[1,2,3-cd]pyrene	9.3	F1 F2	3.50	9.84	F1 F2	mg/Kg	☼	16	68 - 130	51	30
Naphthalene	1.6	F2 F1	3.50	3.67	F1 F2	mg/Kg	☼	59	63 - 110	36	30
Phenanthrene	35	E F2	3.50	26.1	E 4 F2	mg/Kg	☼	-255	62 - 120	93	30
Pyrene	33	E F2	3.50	26.2	E 4 F2	mg/Kg	☼	-196	61 - 128	72	30
1,2,4-Trichlorobenzene	<0.050	F1	3.50	2.23	F1	mg/Kg	☼	64	66 - 117	2	30
1,2-Dichlorobenzene	<0.029	F1	3.50	2.25		mg/Kg	☼	64	62 - 110	10	30
1,3-Dichlorobenzene	<0.032	F1	3.50	2.13		mg/Kg	☼	61	60 - 110	9	30
1,4-Dichlorobenzene	<0.033	F1	3.50	2.20		mg/Kg	☼	63	61 - 110	11	30
2,4,5-Trichlorophenol	<0.027	F1	3.50	0.366	J F1	mg/Kg	☼	10	50 - 120	15	30
2,4,6-Trichlorophenol	<0.024	F1 F2	3.50	0.101	J F1 F2	mg/Kg	☼	3	57 - 120	43	30
2,4-Dichlorophenol	<0.025	F1	3.50	1.00	F1	mg/Kg	☼	29	58 - 120	11	30
2,4-Dimethylphenol	<0.16		3.50	2.54		mg/Kg	☼	73	60 - 110	5	30
2,4-Dinitrophenol	<0.41	F1	7.00	<0.40	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.040		3.50	2.76		mg/Kg	☼	79	69 - 124	2	30
2,6-Dinitrotoluene	<0.024		3.50	2.69		mg/Kg	☼	77	70 - 123	1	30
2-Chloronaphthalene	<0.026		3.50	2.60		mg/Kg	☼	74	69 - 114	5	30
2-Chlorophenol	<0.023	F1	3.50	1.51	F1	mg/Kg	☼	43	64 - 110	5	30
2-Methylnaphthalene	1.4	F2 F1	3.50	3.26	F1 F2	mg/Kg	☼	54	69 - 112	43	30
2-Methylphenol	<0.037		3.50	2.46		mg/Kg	☼	70	60 - 120	11	30
2-Nitroaniline	<0.038		3.50	2.91		mg/Kg	☼	83	57 - 124	4	30
2-Nitrophenol	<0.048	F1	3.50	0.357	J F1	mg/Kg	☼	10	60 - 120	0	30
3,3'-Dichlorobenzidine	<0.058		3.50	2.65		mg/Kg	☼	76	35 - 128	1	30
3 & 4 Methylphenol	<0.052		3.50	2.41		mg/Kg	☼	69	57 - 120	8	30
3-Nitroaniline	<0.032		3.50	2.60		mg/Kg	☼	74	40 - 122	5	30
4,6-Dinitro-2-methylphenol	<0.40	F1	7.00	0.607	J F1	mg/Kg	☼	9	10 - 110	8	30
4-Bromophenyl phenyl ether	<0.048		3.50	2.79		mg/Kg	☼	80	68 - 118	2	30
4-Chloro-3-methylphenol	<0.027		3.50	2.44		mg/Kg	☼	70	65 - 122	5	30
4-Chloroaniline	<0.74		3.50	1.82		mg/Kg	☼	52	30 - 150	2	30
4-Chlorophenyl phenyl ether	<0.092		3.50	2.65		mg/Kg	☼	76	62 - 119	0	30
4-Nitroaniline	<0.052		3.50	2.52		mg/Kg	☼	72	60 - 160	4	30
4-Nitrophenol	<0.26	F1	7.00	0.823	J F1	mg/Kg	☼	12	30 - 122	17	30
Bis(2-chloroethoxy)methane	<0.026		3.50	2.46		mg/Kg	☼	70	60 - 112	7	30
Bis(2-chloroethyl)ether	<0.032		3.50	2.30		mg/Kg	☼	66	55 - 111	12	30
bis(chloroisopropyl) ether	<0.051		3.50	2.48		mg/Kg	☼	71	40 - 124	8	30
Bis(2-ethylhexyl) phthalate	<0.28		3.50	3.14		mg/Kg	☼	90	72 - 131	2	30
Butyl benzyl phthalate	<0.035		3.50	3.19		mg/Kg	☼	91	71 - 129	7	30
Carbazole	4.8	F1 F2	3.50	6.09	F1 F2	mg/Kg	☼	36	65 - 142	70	30
Dibenzofuran	3.5	F1 F2	3.50	4.86	F1 F2	mg/Kg	☼	39	66 - 115	74	30
Diethyl phthalate	<0.032		3.50	2.84		mg/Kg	☼	81	58 - 120	0	30
Dimethyl phthalate	<0.015		3.50	2.67		mg/Kg	☼	76	69 - 116	2	30
Di-n-butyl phthalate	<0.022		3.50	3.12		mg/Kg	☼	89	65 - 120	3	30
Di-n-octyl phthalate	<0.49		3.50	3.26		mg/Kg	☼	93	68 - 134	1	30
Hexachlorobenzene	<0.014		3.50	2.77		mg/Kg	☼	79	63 - 124	1	30
Hexachlorobutadiene	<0.040		3.50	2.44		mg/Kg	☼	70	56 - 120	10	30
Hexachlorocyclopentadiene	<0.75	F1	3.50	<0.74	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.035	F1	3.50	2.26		mg/Kg	☼	65	60 - 114	14	30
Isophorone	<0.036		3.50	2.40		mg/Kg	☼	69	55 - 110	4	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256275-10 MSD
Matrix: Solid
Analysis Batch: 786826

Client Sample ID: SB48 (5-7.5)
Prep Type: Total/NA
Prep Batch: 786617

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrobenzene	<0.022		3.50	2.50		mg/Kg	☼	72	60 - 116	7	30
N-Nitrosodi-n-propylamine	<0.014		3.50	2.53		mg/Kg	☼	72	56 - 118	11	30
N-Nitrosodiphenylamine	<0.042		3.50	2.85		mg/Kg	☼	81	65 - 112	9	30
Pentachlorophenol	<0.18	F1	7.00	<0.17	F1	mg/Kg	☼	0	13 - 112	NC	30
Phenol	<0.031		3.50	2.32		mg/Kg	☼	66	56 - 122	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*42*		*31 - 166*
Phenol-d5 (Surr)	*67*		*30 - 153*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*
2-Fluorobiphenyl (Surr)	*74*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*3*	*S1-*	*31 - 143*
Terphenyl-d14 (Surr)	*77*		*42 - 157*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-786335/1-A
Matrix: Solid
Analysis Batch: 787410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/17/24 07:08	09/24/24 08:22	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/17/24 07:08	09/24/24 08:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*33 - 148*	*09/17/24 07:08*	*09/24/24 08:22*	*1*
Tetrachloro-m-xylene	*57*		*30 - 121*	*09/17/24 07:08*	*09/24/24 08:22*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-786335/1-A
Matrix: Solid
Analysis Batch: 787590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/17/24 07:08	09/25/24 09:02	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/17/24 07:08	09/25/24 09:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*33 - 148*	*09/17/24 07:08*	*09/25/24 09:02*	*1*
Tetrachloro-m-xylene	*62*		*30 - 121*	*09/17/24 07:08*	*09/25/24 09:02*	*1*

Lab Sample ID: LCS 500-786335/2-A
Matrix: Solid
Analysis Batch: 787410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0111		mg/Kg		83	47 - 137
4,4'-DDE	0.0133	0.0112		mg/Kg		84	50 - 130
4,4'-DDT	0.0133	0.0113		mg/Kg		84	46 - 143
Aldrin	0.0133	0.0105		mg/Kg		79	52 - 122
alpha-BHC	0.0133	0.0102		mg/Kg		77	50 - 123
beta-BHC	0.0133	0.00985		mg/Kg		74	44 - 140
delta-BHC	0.0133	0.0105		mg/Kg		79	57 - 125
Dieldrin	0.0133	0.0112		mg/Kg		84	51 - 133
Endosulfan I	0.0133	0.00813		mg/Kg		61	30 - 120
Endosulfan II	0.0133	0.00930		mg/Kg		70	30 - 120
Endosulfan sulfate	0.0133	0.0108		mg/Kg		81	42 - 150
Endrin	0.0133	0.0109		mg/Kg		82	43 - 144
Endrin aldehyde	0.0133	0.0112		mg/Kg		84	39 - 131
Endrin ketone	0.0133	0.0114		mg/Kg		85	51 - 135
gamma-BHC (Lindane)	0.0133	0.0105		mg/Kg		79	50 - 122
Heptachlor	0.0133	0.0101		mg/Kg		76	53 - 129
Heptachlor epoxide	0.0133	0.0107		mg/Kg		80	50 - 139
Methoxychlor	0.0133	0.0164		mg/Kg		123	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*33 - 148*
Tetrachloro-m-xylene	*68*		*30 - 121*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-786335/2-A
Matrix: Solid
Analysis Batch: 787590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786335

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aldrin			0.0133	0.0112		mg/Kg		84	52 - 122		
alpha-BHC			0.0133	0.00680		mg/Kg		51	50 - 123		
beta-BHC			0.0133	0.0112		mg/Kg		84	44 - 140		
Dieldrin			0.0133	0.0119		mg/Kg		89	51 - 133		
Endosulfan I			0.0133	0.00976		mg/Kg		73	30 - 120		
Endosulfan II			0.0133	0.00837		mg/Kg		63	30 - 120		
Endrin			0.0133	0.0124		mg/Kg		93	43 - 144		
Endrin ketone			0.0133	0.00956		mg/Kg		72	51 - 135		
Heptachlor			0.0133	0.0122		mg/Kg		92	53 - 129		
Heptachlor epoxide			0.0133	0.0125		mg/Kg		94	50 - 139		
Methoxychlor			0.0133	0.0124		mg/Kg		93	45 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*33 - 148*
Tetrachloro-m-xylene	*75*		*30 - 121*

Lab Sample ID: 500-256275-13 MS
Matrix: Solid
Analysis Batch: 787504

Client Sample ID: SB50 (0-3)
Prep Type: Total/NA
Prep Batch: 786335

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD	<0.0089		0.0132	0.0174		mg/Kg	☼	132	47 - 137		
4,4'-DDE	<0.0085		0.0132	0.00912	J	mg/Kg	☼	69	50 - 130		
4,4'-DDT	<0.0079	F1	0.0132	0.00800	J	mg/Kg	☼	61	46 - 143		
Aldrin	<0.011	F1	0.0132	<0.012	F1	mg/Kg	☼	0	52 - 122		
alpha-BHC	<0.0093	F1	0.0132	<0.0094	F1	mg/Kg	☼	0	50 - 123		
beta-BHC	<0.013	F1	0.0132	<0.013	F1	mg/Kg	☼	0	44 - 140		
delta-BHC	<0.0079		0.0132	0.00940	J	mg/Kg	☼	71	57 - 125		
Dieldrin	<0.0087		0.0132	0.0106	J	mg/Kg	☼	81	51 - 133		
Endosulfan I	<0.0089	F1	0.0132	<0.0090	F1	mg/Kg	☼	0	30 - 120		
Endosulfan II	<0.0091	F1	0.0132	0.00951	J	mg/Kg	☼	72	30 - 120		
Endosulfan sulfate	<0.0092		0.0132	0.0141	J	mg/Kg	☼	107	42 - 150		
Endrin	<0.0084		0.0132	0.0112	J	mg/Kg	☼	85	43 - 144		
Endrin aldehyde	<0.0094	F1	0.0132	0.0102	J	mg/Kg	☼	77	39 - 131		
Endrin ketone	<0.0081		0.0132	0.0102	J	mg/Kg	☼	77	51 - 135		
gamma-BHC (Lindane)	<0.0082		0.0132	0.00958	J	mg/Kg	☼	73	50 - 122		
Heptachlor	<0.0090	F1	0.0132	0.00914	J	mg/Kg	☼	69	53 - 129		
Heptachlor epoxide	<0.0089	F1 F2	0.0132	0.0405	F1	mg/Kg	☼	307	50 - 139		
Methoxychlor	<0.011	F1	0.0132	0.0298	J F1	mg/Kg	☼	226	45 - 144		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*191*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*63*		*30 - 121*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-256275-13 MSD
Matrix: Solid
Analysis Batch: 787504

Client Sample ID: SB50 (0-3)
Prep Type: Total/NA
Prep Batch: 786335

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.0089		0.0134	0.0150	J	mg/Kg	☼	112	47 - 137	14	30
4,4'-DDE	<0.0085		0.0134	0.0104	J	mg/Kg	☼	78	50 - 130	13	30
4,4'-DDT	<0.0079	F1	0.0134	<0.0080	F1	mg/Kg	☼	0	46 - 143	NC	30
Aldrin	<0.011	F1	0.0134	<0.012	F1	mg/Kg	☼	0	52 - 122	NC	30
alpha-BHC	<0.0093	F1	0.0134	<0.0095	F1	mg/Kg	☼	0	50 - 123	NC	30
beta-BHC	<0.013	F1	0.0134	<0.014		mg/Kg	☼	NC	44 - 140	NC	30
delta-BHC	<0.0079		0.0134	0.00863	J	mg/Kg	☼	64	57 - 125	9	30
Dieldrin	<0.0087		0.0134	0.00939	J	mg/Kg	☼	70	51 - 133	12	30
Endosulfan I	<0.0089	F1	0.0134	<0.0092	F1	mg/Kg	☼	0	30 - 120	NC	30
Endosulfan II	<0.0091	F1	0.0134	<0.0093	F1	mg/Kg	☼	0	30 - 120	NC	30
Endosulfan sulfate	<0.0092		0.0134	0.0132	J	mg/Kg	☼	99	42 - 150	6	30
Endrin	<0.0084		0.0134	0.00980	J	mg/Kg	☼	73	43 - 144	14	30
Endrin aldehyde	<0.0094	F1	0.0134	<0.0097	F1	mg/Kg	☼	0	39 - 131	NC	30
Endrin ketone	<0.0081		0.0134	0.0106	J	mg/Kg	☼	79	51 - 135	4	30
gamma-BHC (Lindane)	<0.0082		0.0134	0.00887	J	mg/Kg	☼	66	50 - 122	8	30
Heptachlor	<0.0090	F1	0.0134	<0.0092	F1	mg/Kg	☼	0	53 - 129	NC	30
Heptachlor epoxide	<0.0089	F1 F2	0.0134	0.0585	F1 F2	mg/Kg	☼	437	50 - 139	36	30
Methoxychlor	<0.011	F1	0.0134	0.0260	J F1	mg/Kg	☼	194	45 - 144	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*184*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*56*		*30 - 121*

Lab Sample ID: MB 500-786336/1-A
Matrix: Solid
Analysis Batch: 787019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/20/24 12:34	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-786336/1-A
Matrix: Solid
Analysis Batch: 787019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/17/24 07:08	09/20/24 12:34	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/17/24 07:08	09/20/24 12:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*33 - 148*	*09/17/24 07:08*	*09/20/24 12:34*	*1*
Tetrachloro-m-xylene	*51*		*30 - 121*	*09/17/24 07:08*	*09/20/24 12:34*	*1*

Lab Sample ID: MB 500-786336/1-A
Matrix: Solid
Analysis Batch: 787590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/17/24 07:08	09/25/24 09:25	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/17/24 07:08	09/25/24 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*33 - 148*	*09/17/24 07:08*	*09/25/24 09:25*	*1*
Tetrachloro-m-xylene	*49*		*30 - 121*	*09/17/24 07:08*	*09/25/24 09:25*	*1*

Lab Sample ID: LCS 500-786336/2-A
Matrix: Solid
Analysis Batch: 787019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0116		mg/Kg		87	47 - 137
4,4'-DDE	0.0133	0.0114		mg/Kg		85	50 - 130
4,4'-DDT	0.0133	0.0115		mg/Kg		86	46 - 143
Aldrin	0.0133	0.0101		mg/Kg		76	52 - 122
alpha-BHC	0.0133	0.0108		mg/Kg		81	50 - 123
beta-BHC	0.0133	0.0110		mg/Kg		82	44 - 140
delta-BHC	0.0133	0.0109		mg/Kg		82	57 - 125

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-786336/2-A
Matrix: Solid
Analysis Batch: 787019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dieldrin	0.0133	0.0114		mg/Kg		85	51 - 133
Endosulfan I	0.0133	0.00800		mg/Kg		60	30 - 120
Endosulfan II	0.0133	0.00939		mg/Kg		70	30 - 120
Endosulfan sulfate	0.0133	0.0115		mg/Kg		87	42 - 150
Endrin	0.0133	0.0115		mg/Kg		86	43 - 144
Endrin aldehyde	0.0133	0.00971		mg/Kg		73	39 - 131
Endrin ketone	0.0133	0.0118		mg/Kg		89	51 - 135
gamma-BHC (Lindane)	0.0133	0.0104		mg/Kg		78	50 - 122
Heptachlor	0.0133	0.0107		mg/Kg		80	53 - 129
Heptachlor epoxide	0.0133	0.0108		mg/Kg		81	50 - 139
Methoxychlor	0.0133	0.0118		mg/Kg		89	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*33 - 148*
Tetrachloro-m-xylene	*76*		*30 - 121*

Lab Sample ID: LCS 500-786336/2-A
Matrix: Solid
Analysis Batch: 787590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.00735		mg/Kg		55	47 - 137
4,4'-DDE	0.0133	0.0136		mg/Kg		102	50 - 130
4,4'-DDT	0.0133	0.00778		mg/Kg		58	46 - 143
Aldrin	0.0133	0.00934		mg/Kg		70	52 - 122
alpha-BHC	0.0133	0.00833		mg/Kg		62	50 - 123
beta-BHC	0.0133	0.0102		mg/Kg		76	44 - 140
Dieldrin	0.0133	0.0100		mg/Kg		75	51 - 133
Endosulfan I	0.0133	0.00734		mg/Kg		55	30 - 120
Endosulfan II	0.0133	0.00781		mg/Kg		59	30 - 120
Endrin	0.0133	0.0106		mg/Kg		80	43 - 144
Endrin ketone	0.0133	0.00993		mg/Kg		75	51 - 135
gamma-BHC (Lindane)	0.0133	0.00724		mg/Kg		54	50 - 122
Heptachlor	0.0133	0.0103		mg/Kg		77	53 - 129
Heptachlor epoxide	0.0133	0.0100		mg/Kg		75	50 - 139
Methoxychlor	0.0133	0.0111		mg/Kg		83	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*77*		*33 - 148*
Tetrachloro-m-xylene	*64*		*30 - 121*

Lab Sample ID: 500-256275-22 MS
Matrix: Solid
Analysis Batch: 787410

Client Sample ID: SB54 (10-12.5)
Prep Type: Total/NA
Prep Batch: 786336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.011	F1	0.0167	0.0415	F1	mg/Kg	☼	249	47 - 137
4,4'-DDE	<0.011	F1	0.0167	0.0362	F1	mg/Kg	☼	217	50 - 130

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-256275-22 MS
Matrix: Solid
Analysis Batch: 787410

Client Sample ID: SB54 (10-12.5)
Prep Type: Total/NA
Prep Batch: 786336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDT	<0.0098	F1	0.0167	0.0113	J	mg/Kg	☼	68	46 - 143
Aldrin	<0.014	F1 F2	0.0167	0.0315	F1	mg/Kg	☼	189	52 - 122
alpha-BHC	<0.012	F1	0.0167	0.0272	F1	mg/Kg	☼	163	50 - 123
beta-BHC	<0.017		0.0167	0.0294		mg/Kg	☼	NC	44 - 140
delta-BHC	<0.0098	F1	0.0167	0.0269	F1	mg/Kg	☼	162	57 - 125
Dieldrin	<0.011	F1	0.0167	0.0325	F1	mg/Kg	☼	195	51 - 133
Endosulfan I	<0.011	F1 F2	0.0167	0.0382	F1	mg/Kg	☼	229	30 - 120
Endosulfan II	<0.011	F1	0.0167	0.0275	F1	mg/Kg	☼	165	30 - 120
Endosulfan sulfate	<0.011	F1	0.0167	0.0278	F1	mg/Kg	☼	167	42 - 150
Endrin	<0.010	F1	0.0167	0.0246	F1	mg/Kg	☼	147	43 - 144
Endrin aldehyde	<0.012	F1	0.0167	0.0283	F1	mg/Kg	☼	170	39 - 131
Endrin ketone	<0.010	F1	0.0167	0.0348	F1	mg/Kg	☼	209	51 - 135
gamma-BHC (Lindane)	<0.010	F1	0.0167	0.0366	F1	mg/Kg	☼	220	50 - 122
Heptachlor	<0.011	F1	0.0167	0.0292	F1	mg/Kg	☼	175	53 - 129
Heptachlor epoxide	<0.011	F1 F2	0.0167	0.378	F1	mg/Kg	☼	2267	50 - 139
Methoxychlor	<0.014	F1	0.0167	0.0530	J F1	mg/Kg	☼	318	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*535*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*194*	*S1+*	*30 - 121*

Lab Sample ID: 500-256275-22 MSD
Matrix: Solid
Analysis Batch: 787410

Client Sample ID: SB54 (10-12.5)
Prep Type: Total/NA
Prep Batch: 786336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.011	F1	0.0159	0.0365	F1	mg/Kg	☼	230	47 - 137	13	30
4,4'-DDE	<0.011	F1	0.0159	0.0298	F1	mg/Kg	☼	188	50 - 130	19	30
4,4'-DDT	<0.0098	F1	0.0159	<0.0095	F1	mg/Kg	☼	0	46 - 143	NC	30
alpha-BHC	<0.012	F1	0.0159	0.0244	F1	mg/Kg	☼	154	50 - 123	11	30
beta-BHC	<0.017		0.0159	0.0320		mg/Kg	☼	NC	44 - 140	9	30
delta-BHC	<0.0098	F1	0.0159	0.0260	F1	mg/Kg	☼	164	57 - 125	4	30
Dieldrin	<0.011	F1	0.0159	0.0297	F1	mg/Kg	☼	187	51 - 133	9	30
Endosulfan I	<0.011	F1 F2	0.0159	0.0278	F1 F2	mg/Kg	☼	175	30 - 120	31	30
Endosulfan II	<0.011	F1	0.0159	0.0248	F1	mg/Kg	☼	156	30 - 120	10	30
Endosulfan sulfate	<0.011	F1	0.0159	0.0356	F1	mg/Kg	☼	224	42 - 150	25	30
Endrin	<0.010	F1	0.0159	0.0191	J	mg/Kg	☼	120	43 - 144	25	30
Endrin aldehyde	<0.012	F1	0.0159	0.0234	F1	mg/Kg	☼	147	39 - 131	19	30
Endrin ketone	<0.010	F1	0.0159	0.0268	F1	mg/Kg	☼	169	51 - 135	26	30
gamma-BHC (Lindane)	<0.010	F1	0.0159	0.0417	F1	mg/Kg	☼	262	50 - 122	13	30
Heptachlor	<0.011	F1	0.0159	0.0352	F1	mg/Kg	☼	222	53 - 129	19	30
Heptachlor epoxide	<0.011	F1 F2	0.0159	0.247	F1 F2	mg/Kg	☼	1557	50 - 139	42	30
Methoxychlor	<0.014	F1	0.0159	0.0390	J F1	mg/Kg	☼	246	45 - 144	30	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*238*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*271*	*S1+*	*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-786335/1-A
Matrix: Solid
Analysis Batch: 787465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/17/24 07:08	09/24/24 10:44	1
PCB-1221	<0.017		0.017		mg/Kg		09/17/24 07:08	09/24/24 10:44	1
PCB-1232	<0.017		0.017		mg/Kg		09/17/24 07:08	09/24/24 10:44	1
PCB-1242	<0.017		0.017		mg/Kg		09/17/24 07:08	09/24/24 10:44	1
PCB-1248	<0.017		0.017		mg/Kg		09/17/24 07:08	09/24/24 10:44	1
PCB-1254	<0.017		0.017		mg/Kg		09/17/24 07:08	09/24/24 10:44	1
PCB-1260	<0.017		0.017		mg/Kg		09/17/24 07:08	09/24/24 10:44	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/17/24 07:08	09/24/24 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*49 - 129*	*09/17/24 07:08*	*09/24/24 10:44*	*1*
DCB Decachlorobiphenyl	*63*		*37 - 121*	*09/17/24 07:08*	*09/24/24 10:44*	*1*

Lab Sample ID: LCS 500-786335/3-A
Matrix: Solid
Analysis Batch: 787465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.116		mg/Kg		69	57 - 120
PCB-1260	0.167	0.155		mg/Kg		93	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*67*		*49 - 129*
DCB Decachlorobiphenyl	*101*		*37 - 121*

Lab Sample ID: 500-256275-13 MS
Matrix: Solid
Analysis Batch: 787624

Client Sample ID: SB50 (0-3)
Prep Type: Total/NA
Prep Batch: 786335

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.16	F1	0.169	0.220	F1	mg/Kg	☼	131	57 - 120
PCB-1260	<0.16	F1	0.169	0.222	F1	mg/Kg	☼	131	61 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*94*		*49 - 129*
DCB Decachlorobiphenyl	*154*	*S1+*	*37 - 121*

Lab Sample ID: 500-256275-13 MSD
Matrix: Solid
Analysis Batch: 787624

Client Sample ID: SB50 (0-3)
Prep Type: Total/NA
Prep Batch: 786335

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.16	F1	0.168	0.193		mg/Kg	☼	115	57 - 120	13	30
PCB-1260	<0.16	F1	0.168	0.190		mg/Kg	☼	113	61 - 125	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*49 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-256275-13 MSD
Matrix: Solid
Analysis Batch: 787624

Client Sample ID: SB50 (0-3)
Prep Type: Total/NA
Prep Batch: 786335

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	131	S1+	37 - 121

Lab Sample ID: MB 500-786336/1-A
Matrix: Solid
Analysis Batch: 787017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/17/24 07:08	09/20/24 14:37	1
PCB-1221	<0.017		0.017		mg/Kg		09/17/24 07:08	09/20/24 14:37	1
PCB-1232	<0.017		0.017		mg/Kg		09/17/24 07:08	09/20/24 14:37	1
PCB-1242	<0.017		0.017		mg/Kg		09/17/24 07:08	09/20/24 14:37	1
PCB-1248	<0.017		0.017		mg/Kg		09/17/24 07:08	09/20/24 14:37	1
PCB-1254	<0.017		0.017		mg/Kg		09/17/24 07:08	09/20/24 14:37	1
PCB-1260	<0.017		0.017		mg/Kg		09/17/24 07:08	09/20/24 14:37	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/17/24 07:08	09/20/24 14:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	50		49 - 129	09/17/24 07:08	09/20/24 14:37	1
DCB Decachlorobiphenyl	75		37 - 121	09/17/24 07:08	09/20/24 14:37	1

Lab Sample ID: LCS 500-786336/3-A
Matrix: Solid
Analysis Batch: 787017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786336

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.140		mg/Kg		84	57 - 120		
PCB-1260			0.167	0.158		mg/Kg		95	61 - 125		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	69		49 - 129
DCB Decachlorobiphenyl	95		37 - 121

Lab Sample ID: 500-256275-22 MS
Matrix: Solid
Analysis Batch: 787365

Client Sample ID: SB54 (10-12.5)
Prep Type: Total/NA
Prep Batch: 786336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	<0.020	F2 F1	0.201	0.184		mg/Kg	☼	91	57 - 120		
PCB-1260	<0.020	F1	0.201	0.131		mg/Kg	☼	65	61 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	92		49 - 129
DCB Decachlorobiphenyl	84		37 - 121

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-256275-22 MSD
Matrix: Solid
Analysis Batch: 787365

Client Sample ID: SB54 (10-12.5)
Prep Type: Total/NA
Prep Batch: 786336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.020	F2 F1	0.209	0.108	F2 F1	mg/Kg	☼	52	57 - 120	52	30
PCB-1260	<0.020	F1	0.209	0.111	F1	mg/Kg	☼	53	61 - 125	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*59*		*49 - 129*
DCB Decachlorobiphenyl	*66*		*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-786853/1-A
Matrix: Solid
Analysis Batch: 787023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Antimony	<2.0		2.0		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Arsenic	<1.0		1.0		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Barium	<1.0		1.0		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Beryllium	<0.40		0.40		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Cadmium	<0.20		0.20		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Calcium	<20		20		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Chromium	<1.0		1.0		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Cobalt	<0.50		0.50		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Copper	<1.0		1.0		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Iron	37.4		20		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Lead	<0.50		0.50		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Magnesium	<10		10		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Manganese	1.78		1.0		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Nickel	<1.0		1.0		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Potassium	<50		50		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Selenium	<1.0		1.0		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Silver	<0.50		0.50		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Sodium	<100		100		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Thallium	<1.0		1.0		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Vanadium	<0.50		0.50		mg/Kg		09/19/24 09:42	09/19/24 22:13	1
Zinc	<2.0		2.0		mg/Kg		09/19/24 09:42	09/19/24 22:13	1

Lab Sample ID: LCS 500-786853/2-A
Matrix: Solid
Analysis Batch: 787023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	201		mg/Kg		100	80 - 120
Antimony	50.0	48.9		mg/Kg		98	80 - 120
Arsenic	10.0	9.52		mg/Kg		95	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	5.13		mg/Kg		103	80 - 120
Cadmium	5.00	4.75		mg/Kg		95	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-786853/2-A
Matrix: Solid
Analysis Batch: 787023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	20.0	20.3		mg/Kg		102	80 - 120
Cobalt	50.0	49.5		mg/Kg		99	80 - 120
Copper	25.0	24.9		mg/Kg		100	80 - 120
Iron	100	120		mg/Kg		120	80 - 120
Lead	10.0	10.3		mg/Kg		103	80 - 120
Magnesium	1000	964		mg/Kg		96	80 - 120
Manganese	50.0	50.8		mg/Kg		102	80 - 120
Nickel	50.0	50.4		mg/Kg		101	80 - 120
Potassium	1000	878		mg/Kg		88	80 - 120
Selenium	10.0	8.71		mg/Kg		87	80 - 120
Silver	5.00	4.52		mg/Kg		90	80 - 120
Sodium	1000	930		mg/Kg		93	80 - 120
Thallium	10.0	9.80		mg/Kg		98	80 - 120
Vanadium	50.0	50.6		mg/Kg		101	80 - 120
Zinc	50.0	50.1		mg/Kg		100	80 - 120

Lab Sample ID: 500-256275-1 MS
Matrix: Solid
Analysis Batch: 787023

Client Sample ID: SB44 (0-3)
Prep Type: Total/NA
Prep Batch: 786853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	12000		192	12100	4	mg/Kg	☼	140	75 - 125
Arsenic	15	F1 F2	9.60	28.9	F1	mg/Kg	☼	147	75 - 125
Barium	130	F1	192	403	F1	mg/Kg	☼	142	75 - 125
Calcium	40000		960	37200	4	mg/Kg	☼	-294	75 - 125
Potassium	780	F1	960	2130	F1	mg/Kg	☼	141	75 - 125
Sodium	610		960	1510		mg/Kg	☼	94	75 - 125
Zinc	100	F1 F2	48.0	170	F1	mg/Kg	☼	144	75 - 125

Lab Sample ID: 500-256275-1 MS
Matrix: Solid
Analysis Batch: 787456

Client Sample ID: SB44 (0-3)
Prep Type: Total/NA
Prep Batch: 786853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<2.0	F1	48.0	<9.6	F1	mg/Kg	☼	16	75 - 125
Beryllium	0.68	F1	4.80	8.92	F1	mg/Kg	☼	172	75 - 125
Cadmium	<0.20		4.80	5.09		mg/Kg	☼	104	75 - 125
Chromium	60	F1	19.2	366	F1	mg/Kg	☼	1596	75 - 125
Cobalt	2.4	F1	48.0	68.0	F1	mg/Kg	☼	137	75 - 125
Copper	14	F1	24.0	160	F1	mg/Kg	☼	611	75 - 125
Iron	33000	B	96.0	212000	4	mg/Kg	☼	186515	75 - 125
Lead	15	F2 F1	9.60	139	F1	mg/Kg	☼	1296	75 - 125
Magnesium	1600	F2 F1	960	8900	F1	mg/Kg	☼	757	75 - 125
Manganese	1100	B F2	48.0	5040	4	mg/Kg	☼	8142	75 - 125
Nickel	71	F1	48.0	618	F1	mg/Kg	☼	1140	75 - 125
Selenium	<1.0	F1	9.60	11.2		mg/Kg	☼	110	75 - 125
Silver	<0.51	F1	4.80	4.48		mg/Kg	☼	93	75 - 125
Thallium	1.7	F1	9.60	15.0	F1	mg/Kg	☼	138	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256275-1 MS
Matrix: Solid
Analysis Batch: 787456

Client Sample ID: SB44 (0-3)
Prep Type: Total/NA
Prep Batch: 786853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	15	F1	48.0	113	F1	mg/Kg	☼	206	75 - 125

Lab Sample ID: 500-256275-1 MSD
Matrix: Solid
Analysis Batch: 787023

Client Sample ID: SB44 (0-3)
Prep Type: Total/NA
Prep Batch: 786853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	12000		191	12100	4	mg/Kg	☼	134	75 - 125	0	20
Arsenic	15	F1 F2	9.54	23.3	F2	mg/Kg	☼	89	75 - 125	21	20
Barium	130	F1	191	340		mg/Kg	☼	110	75 - 125	17	20
Calcium	40000		954	42500	4	mg/Kg	☼	257	75 - 125	13	20
Potassium	780	F1	954	1980	F1	mg/Kg	☼	126	75 - 125	8	20
Sodium	610		954	1430		mg/Kg	☼	86	75 - 125	5	20
Zinc	100	F1 F2	47.7	135	F1 F2	mg/Kg	☼	73	75 - 125	23	20

Lab Sample ID: 500-256275-1 MSD
Matrix: Solid
Analysis Batch: 787456

Client Sample ID: SB44 (0-3)
Prep Type: Total/NA
Prep Batch: 786853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<2.0	F1	47.7	<9.5	F1	mg/Kg	☼	13	75 - 125	17	20
Beryllium	0.68	F1	4.77	8.82	F1	mg/Kg	☼	171	75 - 125	1	20
Cadmium	<0.20		4.77	5.04		mg/Kg	☼	104	75 - 125	1	20
Chromium	60	F1	19.1	336	F1	mg/Kg	☼	1446	75 - 125	9	20
Cobalt	2.4	F1	47.7	66.1	F1	mg/Kg	☼	134	75 - 125	3	20
Copper	14	F1	23.8	186	F1	mg/Kg	☼	723	75 - 125	15	20
Iron	33000	B	95.4	195000	4	mg/Kg	☼	170104	75 - 125	8	20
Lead	15	F2 F1	9.54	106	F1 F2	mg/Kg	☼	949	75 - 125	28	20
Magnesium	1600	F2 F1	954	15300	F1 F2	mg/Kg	☼	1431	75 - 125	53	20
Manganese	1100	B F2	47.7	4200	4	mg/Kg	☼	6436	75 - 125	18	20
Nickel	71	F1	47.7	593	F1	mg/Kg	☼	1095	75 - 125	4	20
Selenium	<1.0	F1	9.54	12.8	F1	mg/Kg	☼	127	75 - 125	13	20
Silver	<0.51	F1	4.77	4.60		mg/Kg	☼	96	75 - 125	3	20
Thallium	1.7	F1	9.54	15.9	F1	mg/Kg	☼	148	75 - 125	6	20
Vanadium	15	F1	47.7	107	F1	mg/Kg	☼	195	75 - 125	5	20

Lab Sample ID: 500-256275-1 DU
Matrix: Solid
Analysis Batch: 787023

Client Sample ID: SB44 (0-3)
Prep Type: Total/NA
Prep Batch: 786853

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	12000		8120	F3	mg/Kg	☼	37	20
Arsenic	15	F1 F2	16.1		mg/Kg	☼	8	20
Barium	130	F1	90.2	F3	mg/Kg	☼	37	20
Calcium	40000		44100		mg/Kg	☼	10	20
Magnesium	6100	^2 F2	9970	F3	mg/Kg	☼	48	20
Potassium	780	F1	813		mg/Kg	☼	4	20
Sodium	610		485	F3	mg/Kg	☼	23	20
Zinc	100	F1 F2	95.8		mg/Kg	☼	5	20

Method: 6010D - Metals (ICP)

Lab Sample ID: 500-256275-1 DU
Matrix: Solid
Analysis Batch: 787456

Client Sample ID: SB44 (0-3)
Prep Type: Total/NA
Prep Batch: 786853

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<2.0	F1	<11		mg/Kg	☼	NC	20
Beryllium	0.68	F1	2.83	F3	mg/Kg	☼	123	20
Cadmium	<0.20		<1.1		mg/Kg	☼	NC	20
Chromium	60	F1	355	F3	mg/Kg	☼	142	20
Cobalt	2.4	F1	11.7	F3	mg/Kg	☼	133	20
Copper	14	F1	94.8	F3	mg/Kg	☼	149	20
Iron	33000	B	182000	F3	mg/Kg	☼	139	20
Lead	15	F2 F1	92.3	F3	mg/Kg	☼	144	20
Magnesium	1600	F2 F1	14300	F3	mg/Kg	☼	159	20
Nickel	71	F1	424	F3	mg/Kg	☼	143	20
Selenium	<1.0	F1	11.8		mg/Kg	☼	NC	20
Silver	<0.51	F1	<2.7		mg/Kg	☼	NC	20
Vanadium	15	F1	163	F3	mg/Kg	☼	167	20

Lab Sample ID: MB 500-786854/1-A
Matrix: Solid
Analysis Batch: 787024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Arsenic	<1.0		1.0		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Barium	<1.0		1.0		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Beryllium	<0.40		0.40		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Cadmium	<0.20		0.20		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Chromium	<1.0		1.0		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Cobalt	<0.50		0.50		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Copper	<1.0		1.0		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Lead	<0.50		0.50		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Magnesium	<10		10		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Nickel	<1.0		1.0		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Potassium	<50		50		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Selenium	<1.0		1.0		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Silver	<0.50		0.50		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Thallium	<1.0		1.0		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Vanadium	<0.50		0.50		mg/Kg		09/19/24 09:45	09/19/24 23:33	1
Zinc	<2.0		2.0		mg/Kg		09/19/24 09:45	09/19/24 23:33	1

Lab Sample ID: MB 500-786854/1-A
Matrix: Solid
Analysis Batch: 787349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/19/24 09:45	09/23/24 12:44	1
Calcium	<20		20		mg/Kg		09/19/24 09:45	09/23/24 12:44	1
Iron	<20		20		mg/Kg		09/19/24 09:45	09/23/24 12:44	1
Manganese	<1.0		1.0		mg/Kg		09/19/24 09:45	09/23/24 12:44	1
Sodium	<100		100		mg/Kg		09/19/24 09:45	09/23/24 12:44	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-786854/2-A
Matrix: Solid
Analysis Batch: 787024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	53.4		mg/Kg		107	80 - 120
Arsenic	10.0	10.2		mg/Kg		102	80 - 120
Barium	200	191		mg/Kg		96	80 - 120
Beryllium	5.00	4.66		mg/Kg		93	80 - 120
Cadmium	5.00	4.71		mg/Kg		94	80 - 120
Chromium	20.0	20.8		mg/Kg		104	80 - 120
Cobalt	50.0	47.4		mg/Kg		95	80 - 120
Copper	25.0	25.8		mg/Kg		103	80 - 120
Lead	10.0	10.4		mg/Kg		104	80 - 120
Magnesium	1000	917		mg/Kg		92	80 - 120
Nickel	50.0	45.5		mg/Kg		91	80 - 120
Potassium	1000	1050		mg/Kg		105	80 - 120
Selenium	10.0	8.15		mg/Kg		81	80 - 120
Silver	5.00	4.53		mg/Kg		91	80 - 120
Thallium	10.0	10.4		mg/Kg		104	80 - 120
Vanadium	50.0	42.1		mg/Kg		84	80 - 120
Zinc	50.0	40.1		mg/Kg		80	80 - 120

Lab Sample ID: LCS 500-786854/2-A
Matrix: Solid
Analysis Batch: 787349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	172		mg/Kg		86	80 - 120
Calcium	1000	931		mg/Kg		93	80 - 120
Iron	100	85.8		mg/Kg		86	80 - 120
Manganese	50.0	48.8		mg/Kg		98	80 - 120
Sodium	1000	976		mg/Kg		98	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-787088/12-A
Matrix: Solid
Analysis Batch: 787296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/20/24 17:35	09/23/24 07:43	1

Lab Sample ID: LCS 500-787088/13-A
Matrix: Solid
Analysis Batch: 787296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.167		mg/Kg		100	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-256275-11 MS
Matrix: Solid
Analysis Batch: 787296

Client Sample ID: SB49 (0-3)
Prep Type: Total/NA
Prep Batch: 787088

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.017	F1	0.0846	0.119	F1	mg/Kg	☼	129	75 - 125

Lab Sample ID: 500-256275-11 MSD
Matrix: Solid
Analysis Batch: 787296

Client Sample ID: SB49 (0-3)
Prep Type: Total/NA
Prep Batch: 787088

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.017	F1	0.0841	0.109		mg/Kg	☼	117	75 - 125	9	20

Lab Sample ID: 500-256275-11 DU
Matrix: Solid
Analysis Batch: 787296

Client Sample ID: SB49 (0-3)
Prep Type: Total/NA
Prep Batch: 787088

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.017	F1	0.0215		mg/Kg	☼	NC	20

Lab Sample ID: MB 500-787098/12-A
Matrix: Solid
Analysis Batch: 787296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/20/24 17:35	09/23/24 08:44	1

Lab Sample ID: LCS 500-787098/13-A
Matrix: Solid
Analysis Batch: 787296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.148		mg/Kg		89	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-785319/1-A
Matrix: Solid
Analysis Batch: 785655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/10/24 11:02	09/11/24 10:32	1

Lab Sample ID: LCS 500-785319/2-A
Matrix: Solid
Analysis Batch: 785655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.50		mg/Kg		104	85 - 115

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 500-256275-18 MS
Matrix: Solid
Analysis Batch: 785655
Client Sample ID: SB52 (7.5-10)
Prep Type: Total/NA
Prep Batch: 785319

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.28		2.73	2.82		mg/Kg	☼	103	75 - 125

Lab Sample ID: 500-256275-18 MSD
Matrix: Solid
Analysis Batch: 785655
Client Sample ID: SB52 (7.5-10)
Prep Type: Total/NA
Prep Batch: 785319

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.28		2.61	3.22		mg/Kg	☼	123	75 - 125	13	20

Lab Sample ID: MB 500-785357/1-A
Matrix: Solid
Analysis Batch: 785657
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/10/24 15:04	09/11/24 13:45	1

Lab Sample ID: LCS 500-785357/2-A
Matrix: Solid
Analysis Batch: 785657
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.10		mg/Kg		88	85 - 115

Lab Sample ID: 500-256275-21 MS
Matrix: Solid
Analysis Batch: 785657
Client Sample ID: SB54 (0-3)
Prep Type: Total/NA
Prep Batch: 785357

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	14		2.56	20.8	4	mg/Kg	☼	260	75 - 125

Lab Sample ID: 500-256275-21 MSD
Matrix: Solid
Analysis Batch: 785657
Client Sample ID: SB54 (0-3)
Prep Type: Total/NA
Prep Batch: 785357

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	14		2.50	21.2	4	mg/Kg	☼	281	75 - 125	2	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-626558/1-A
Matrix: Solid
Analysis Batch: 626649
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626558

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/11/24 08:43	09/11/24 13:09	1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 240-626558/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 626649
Prep Batch: 626558

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			83.7	70.4		mg/Kg		84	56 - 120		

Method: 9045D - pH

Lab Sample ID: 500-256275-7 DU
Client Sample ID: SB47 (0-3)
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 785809

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	9.98			10.70	F3	SU				7	5

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256275-1

Client Sample ID: SB44 (0-3)
Date Collected: 09/05/24 09:43
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:24
Total/NA	Analysis	Moisture		1	786255	ER	EET CHI	09/16/24 13:08

Client Sample ID: SB44 (0-3)
Date Collected: 09/05/24 09:43
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-1
Matrix: Solid
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785646	W1T	EET CHI	09/12/24 13:43
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		1	786825	WS	EET CHI	09/19/24 14:36
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787410	SB	EET CHI	09/24/24 14:19
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 13:58
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787456	DAJ	EET CHI	09/23/24 14:15
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 22:22
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 07:46
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		5	785655	AC	EET CHI	09/11/24 11:53

Client Sample ID: SB44 (5-7.5)
Date Collected: 09/05/24 09:52
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:26
Total/NA	Analysis	Moisture		1	786255	ER	EET CHI	09/16/24 13:08

Client Sample ID: SB44 (5-7.5)
Date Collected: 09/05/24 09:52
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-2
Matrix: Solid
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785646	W1T	EET CHI	09/12/24 14:08
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		1	786825	WS	EET CHI	09/19/24 15:01
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787410	SB	EET CHI	09/24/24 14:31

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256275-1

Client Sample ID: SB44 (5-7.5)

Lab Sample ID: 500-256275-2
Date Collected: 09/05/24 09:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 14:13
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787456	DAJ	EET CHI	09/23/24 14:49
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 22:44
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 07:49
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		1	785655	AC	EET CHI	09/11/24 10:43

Client Sample ID: SB45 (0-3)

Lab Sample ID: 500-256275-3
Date Collected: 09/05/24 10:15
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:29
Total/NA	Analysis	Moisture		1	786255	ER	EET CHI	09/16/24 13:08

Client Sample ID: SB45 (0-3)

Lab Sample ID: 500-256275-3
Date Collected: 09/05/24 10:15
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785646	W1T	EET CHI	09/12/24 14:33
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		1	786825	WS	EET CHI	09/19/24 15:26
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787410	SB	EET CHI	09/24/24 14:43
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 14:28
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787456	DAJ	EET CHI	09/23/24 14:54
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 22:49
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 07:50
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		1	785655	AC	EET CHI	09/11/24 10:45

Client Sample ID: SB45 (5-7.5)
Lab Sample ID: 500-256275-4

Date Collected: 09/05/24 10:36
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:31
Total/NA	Analysis	Moisture		1	786255	ER	EET CHI	09/16/24 13:08

Client Sample ID: SB45 (5-7.5)
Lab Sample ID: 500-256275-4

Date Collected: 09/05/24 10:36
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785646	W1T	EET CHI	09/12/24 14:58
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		2	786825	WS	EET CHI	09/19/24 20:51
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787590	SB	EET CHI	09/25/24 10:23
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		50	787590	SB	EET CHI	09/25/24 10:35
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 14:43
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 14:58
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 22:53
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 07:52
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		1	785655	AC	EET CHI	09/11/24 10:47
Total/NA	Prep	9030B			626558	C5SV	EET CLE	09/11/24 08:43
Total/NA	Analysis	9034		1	626649	C5SV	EET CLE	09/11/24 13:09

Client Sample ID: SB46 (0-3)
Lab Sample ID: 500-256275-5

Date Collected: 09/05/24 10:52
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:33
Total/NA	Analysis	Moisture		1	786255	ER	EET CHI	09/16/24 13:08

Client Sample ID: SB46 (0-3)
Lab Sample ID: 500-256275-5

Date Collected: 09/05/24 10:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785881	EA	EET CHI	09/13/24 12:42

Client Sample ID: SB46 (0-3)

Lab Sample ID: 500-256275-5

Date Collected: 09/05/24 10:52

Matrix: Solid

Date Received: 09/06/24 12:35

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		2	786825	WS	EET CHI	09/19/24 21:17
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787410	SB	EET CHI	09/24/24 15:06
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 14:58
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 15:03
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 23:06
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 07:54
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		10	785655	AC	EET CHI	09/11/24 12:01

Client Sample ID: SB46 (3-5)

Lab Sample ID: 500-256275-6

Date Collected: 09/05/24 11:07

Matrix: Solid

Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:38
Total/NA	Analysis	Moisture		1	786255	ER	EET CHI	09/16/24 13:08

Client Sample ID: SB46 (3-5)

Lab Sample ID: 500-256275-6

Date Collected: 09/05/24 11:07

Matrix: Solid

Date Received: 09/06/24 12:35

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785646	W1T	EET CHI	09/12/24 15:48
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		2	786825	WS	EET CHI	09/19/24 21:41
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787504	H7CM	EET CHI	09/24/24 19:33
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 15:13
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 15:07
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		20	787561	SJ	EET CHI	09/24/24 15:52
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 23:11
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 07:55

Client Sample ID: SB46 (3-5)

Lab Sample ID: 500-256275-6

Date Collected: 09/05/24 11:07

Matrix: Solid

Date Received: 09/06/24 12:35

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		5	785655	AC	EET CHI	09/11/24 12:06

Client Sample ID: SB47 (0-3)

Lab Sample ID: 500-256275-7

Date Collected: 09/05/24 11:17

Matrix: Solid

Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:41
Total/NA	Analysis	Moisture		1	786255	ER	EET CHI	09/16/24 13:08

Client Sample ID: SB47 (0-3)

Lab Sample ID: 500-256275-7

Date Collected: 09/05/24 11:17

Matrix: Solid

Date Received: 09/06/24 12:35

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785646	W1T	EET CHI	09/12/24 16:12
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		1	786825	WS	EET CHI	09/19/24 18:21
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787504	H7CM	EET CHI	09/24/24 19:44
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 15:28
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 15:12
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		20	787561	SJ	EET CHI	09/24/24 15:56
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 23:15
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 07:57
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		1	785655	AC	EET CHI	09/11/24 11:07

Client Sample ID: SB47 (7.5-10)

Lab Sample ID: 500-256275-8

Date Collected: 09/05/24 11:26

Matrix: Solid

Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:46
Total/NA	Analysis	Moisture		1	786255	ER	EET CHI	09/16/24 13:08

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256275-1

Client Sample ID: SB47 (7.5-10)

Date Collected: 09/05/24 11:26
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-8

Matrix: Solid
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785646	W1T	EET CHI	09/12/24 16:37
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		1	786825	WS	EET CHI	09/19/24 17:56
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787504	H7CM	EET CHI	09/24/24 19:56
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 14:08
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 15:16
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 23:20
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:08
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		1	785655	AC	EET CHI	09/11/24 11:09

Client Sample ID: SB48 (0-3)

Date Collected: 09/05/24 11:47
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:48
Total/NA	Analysis	Moisture		1	786255	ER	EET CHI	09/16/24 13:08

Client Sample ID: SB48 (0-3)

Date Collected: 09/05/24 11:47
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-9

Matrix: Solid
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785646	W1T	EET CHI	09/12/24 17:02
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		2	786825	WS	EET CHI	09/19/24 22:07
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787504	H7CM	EET CHI	09/24/24 20:08
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 15:57
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 15:30
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 23:24
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:09

Client Sample ID: SB48 (0-3)
Lab Sample ID: 500-256275-9
Date Collected: 09/05/24 11:47
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		1	785655	AC	EET CHI	09/11/24 11:10

Client Sample ID: SB48 (5-7.5)
Lab Sample ID: 500-256275-10
Date Collected: 09/05/24 11:52
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:51
Total/NA	Analysis	Moisture		1	786255	ER	EET CHI	09/16/24 13:08

Client Sample ID: SB48 (5-7.5)
Lab Sample ID: 500-256275-10
Date Collected: 09/05/24 11:52
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785646	W1T	EET CHI	09/12/24 17:27
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		2	786826	H7CM	EET CHI	09/19/24 15:23
Total/NA	Prep	3546	DL		786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E	DL	20	786826	H7CM	EET CHI	09/19/24 20:52
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787504	H7CM	EET CHI	09/24/24 20:19
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 16:12
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 15:34
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 23:29
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:11
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		1	785655	AC	EET CHI	09/11/24 11:12

Client Sample ID: SB49 (0-3)
Lab Sample ID: 500-256275-11
Date Collected: 09/05/24 12:43
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:53
Total/NA	Analysis	Moisture		1	786255	ER	EET CHI	09/16/24 13:08

Client Sample ID: SB49 (0-3)

Lab Sample ID: 500-256275-11

Date Collected: 09/05/24 12:43

Matrix: Solid

Date Received: 09/06/24 12:35

Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785881	EA	EET CHI	09/13/24 13:06
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		1	786825	WS	EET CHI	09/19/24 15:51
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787504	H7CM	EET CHI	09/24/24 20:31
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 16:27
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 15:39
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 23:33
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:13
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		10	785655	AC	EET CHI	09/11/24 12:10
Total/NA	Prep	9030B			626558	C5SV	EET CLE	09/11/24 08:43
Total/NA	Analysis	9034		1	626649	C5SV	EET CLE	09/11/24 13:09

Client Sample ID: SB49 (10-12.5)

Lab Sample ID: 500-256275-12

Date Collected: 09/05/24 13:07

Matrix: Solid

Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:56
Total/NA	Analysis	Moisture		1	786247	ER	EET CHI	09/16/24 12:24

Client Sample ID: SB49 (10-12.5)

Lab Sample ID: 500-256275-12

Date Collected: 09/05/24 13:07

Matrix: Solid

Date Received: 09/06/24 12:35

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785646	W1T	EET CHI	09/12/24 18:17
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		1	786825	WS	EET CHI	09/19/24 16:16
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787504	H7CM	EET CHI	09/24/24 20:43
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787465	SB	EET CHI	09/24/24 16:42
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 15:43
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		20	787561	SJ	EET CHI	09/24/24 16:00

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256275-1

Client Sample ID: SB49 (10-12.5)
Date Collected: 09/05/24 13:07
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-12
Matrix: Solid
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 23:38
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:21
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		1	785655	AC	EET CHI	09/11/24 11:15

Client Sample ID: SB50 (0-3)
Date Collected: 09/05/24 13:47
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 13:58
Total/NA	Analysis	Moisture		1	786247	ER	EET CHI	09/16/24 12:24

Client Sample ID: SB50 (0-3)
Date Collected: 09/05/24 13:47
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-13
Matrix: Solid
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785646	W1T	EET CHI	09/12/24 18:42
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		1	786825	WS	EET CHI	09/19/24 16:41
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787504	H7CM	EET CHI	09/24/24 20:54
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787624	SB	EET CHI	09/25/24 11:44
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 15:48
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		20	787561	SJ	EET CHI	09/24/24 16:13
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 23:42
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:23
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		10	785655	AC	EET CHI	09/11/24 12:15

Client Sample ID: SB50 (7.5-10)
Date Collected: 09/05/24 13:58
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 14:00

Client Sample ID: SB50 (7.5-10)
Lab Sample ID: 500-256275-14
Date Collected: 09/05/24 13:58
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	786247	ER	EET CHI	09/16/24 12:24

Client Sample ID: SB50 (7.5-10)
Lab Sample ID: 500-256275-14
Date Collected: 09/05/24 13:58
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785646	W1T	EET CHI	09/12/24 19:06
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		2	786825	WS	EET CHI	09/19/24 19:11
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787504	H7CM	EET CHI	09/24/24 21:29
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787624	SB	EET CHI	09/25/24 12:28
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 15:52
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/19/24 23:47
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:24
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		1	785655	AC	EET CHI	09/11/24 11:19

Client Sample ID: SB51 (0-3)
Lab Sample ID: 500-256275-15
Date Collected: 09/05/24 10:00
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 14:05
Total/NA	Analysis	Moisture		1	786247	ER	EET CHI	09/16/24 12:24

Client Sample ID: SB51 (0-3)
Lab Sample ID: 500-256275-15
Date Collected: 09/05/24 10:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784982		EET CHI	09/05/24 10:00
Total/NA	Analysis	8260D		50	786161	EA	EET CHI	09/16/24 18:21
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		1	786825	WS	EET CHI	09/19/24 18:46
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787504	H7CM	EET CHI	09/24/24 21:41
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787656	H7CM	EET CHI	09/25/24 10:33

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256275-1

Client Sample ID: SB51 (0-3)

Date Collected: 09/05/24 10:00
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-15

Matrix: Solid
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 15:57
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		20	787561	SJ	EET CHI	09/24/24 16:17
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/20/24 00:00
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:32
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		1	785655	AC	EET CHI	09/11/24 11:25
Total/NA	Prep	9030B			626558	C5SV	EET CLE	09/11/24 08:43
Total/NA	Analysis	9034		1	626649	C5SV	EET CLE	09/11/24 13:09

Client Sample ID: SB51 (5-7.5)

Date Collected: 09/05/24 10:30
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 14:08
Total/NA	Analysis	Moisture		1	786247	ER	EET CHI	09/16/24 12:24

Client Sample ID: SB51 (5-7.5)

Date Collected: 09/05/24 10:30
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-16

Matrix: Solid
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785633	SW1	EET CHI	09/12/24 15:42
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		1	786825	WS	EET CHI	09/19/24 17:06
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787504	H7CM	EET CHI	09/24/24 21:52
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787656	H7CM	EET CHI	09/25/24 10:18
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 16:01
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/20/24 00:05
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:34
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		5	785655	AC	EET CHI	09/11/24 12:20

Client Sample ID: SB52 (0-3)

Lab Sample ID: 500-256275-17

Date Collected: 09/05/24 11:20

Matrix: Solid

Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 14:10
Total/NA	Analysis	Moisture		1	786247	ER	EET CHI	09/16/24 12:24

Client Sample ID: SB52 (0-3)

Lab Sample ID: 500-256275-17

Date Collected: 09/05/24 11:20

Matrix: Solid

Date Received: 09/06/24 12:35

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785881	EA	EET CHI	09/13/24 13:54
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		2	786825	WS	EET CHI	09/19/24 19:36
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8081B		10	787504	H7CM	EET CHI	09/24/24 22:04
Total/NA	Prep	3541			786335	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:22 [1]
Total/NA	Analysis	8082A		10	787656	H7CM	EET CHI	09/25/24 10:03
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 16:05
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/20/24 00:09
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:36
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		1	785655	AC	EET CHI	09/11/24 11:28

Client Sample ID: SB52 (7.5-10)

Lab Sample ID: 500-256275-18

Date Collected: 09/05/24 11:30

Matrix: Solid

Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 14:13
Total/NA	Analysis	Moisture		1	786247	ER	EET CHI	09/16/24 12:24

Client Sample ID: SB52 (7.5-10)

Lab Sample ID: 500-256275-18

Date Collected: 09/05/24 11:30

Matrix: Solid

Date Received: 09/06/24 12:35

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784997		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785633	SW1	EET CHI	09/12/24 16:31
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		2	786825	WS	EET CHI	09/19/24 20:01
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8081B		10	787590	SB	EET CHI	09/25/24 09:48

Client Sample ID: SB52 (7.5-10)

Lab Sample ID: 500-256275-18

Date Collected: 09/05/24 11:30

Matrix: Solid

Date Received: 09/06/24 12:35

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8081B		50	787590	SB	EET CHI	09/25/24 10:00
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8082A		50	787465	SB	EET CHI	09/24/24 13:28
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 16:10
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/20/24 00:14
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:38
Total/NA	Prep	9010C			785319	AC	EET CHI	09/10/24 11:02 - 09/10/24 11:32 [1]
Total/NA	Analysis	9012B		1	785655	AC	EET CHI	09/11/24 11:30

Client Sample ID: SB53 (0-3)

Lab Sample ID: 500-256275-19

Date Collected: 09/05/24 13:00

Matrix: Solid

Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 14:15
Total/NA	Analysis	Moisture		1	786216	ER	EET CHI	09/16/24 10:40

Client Sample ID: SB53 (0-3)

Lab Sample ID: 500-256275-19

Date Collected: 09/05/24 13:00

Matrix: Solid

Date Received: 09/06/24 12:35

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784982		EET CHI	09/05/24 13:00
Total/NA	Analysis	8260D		50	786161	EA	EET CHI	09/16/24 18:45
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		2	786825	WS	EET CHI	09/19/24 20:26
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8081B		10	787410	SB	EET CHI	09/24/24 12:46
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8082A		1	787365	H7CM	EET CHI	09/23/24 22:08
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 16:23
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		20	787561	SJ	EET CHI	09/24/24 16:21
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/20/24 00:19
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:40
Total/NA	Prep	9010C			785357	AC	EET CHI	09/10/24 15:04 - 09/10/24 15:34 [1]
Total/NA	Analysis	9012B		1	785657	AC	EET CHI	09/11/24 14:08

Client Sample ID: SB53 (10-12.5)
Lab Sample ID: 500-256275-20
Date Collected: 09/05/24 13:30
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 14:18
Total/NA	Analysis	Moisture		1	786216	ER	EET CHI	09/16/24 10:40

Client Sample ID: SB53 (10-12.5)
Lab Sample ID: 500-256275-20
Date Collected: 09/05/24 13:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784998		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785881	EA	EET CHI	09/13/24 14:42
Total/NA	Prep	3546			786617	OP	EET CHI	09/18/24 09:50
Total/NA	Analysis	8270E		1	786825	WS	EET CHI	09/19/24 17:31
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8081B		10	787410	SB	EET CHI	09/24/24 12:58
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8082A		1	787365	H7CM	EET CHI	09/23/24 22:23
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 16:28
Total/NA	Prep	3050B			786853	BDE	EET CHI	09/19/24 09:42 - 09/19/24 15:42 [1]
Total/NA	Analysis	6010D		1	787023	SJ	EET CHI	09/20/24 00:23
Total/NA	Prep	7471B			787088	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:42
Total/NA	Prep	9010C			785357	AC	EET CHI	09/10/24 15:04 - 09/10/24 15:34 [1]
Total/NA	Analysis	9012B		1	785657	AC	EET CHI	09/11/24 14:10

Client Sample ID: SB54 (0-3)
Lab Sample ID: 500-256275-21
Date Collected: 09/05/24 14:00
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 14:20
Total/NA	Analysis	Moisture		1	786216	ER	EET CHI	09/16/24 10:40

Client Sample ID: SB54 (0-3)
Lab Sample ID: 500-256275-21
Date Collected: 09/05/24 14:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784982		EET CHI	09/05/24 14:00
Total/NA	Analysis	8260D		50	786161	EA	EET CHI	09/16/24 19:08
Total/NA	Prep	3546			786476	LH	EET CHI	09/17/24 13:27
Total/NA	Analysis	8270E		2	786603	H7CM	EET CHI	09/18/24 18:39
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8081B		10	787410	SB	EET CHI	09/24/24 13:09

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256275-1

Client Sample ID: SB54 (0-3)

Lab Sample ID: 500-256275-21
Date Collected: 09/05/24 14:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 14:28
Total/NA	Prep	3050B			786854	BDE	EET CHI	09/19/24 09:45 - 09/19/24 15:45 [1]
Total/NA	Analysis	6010D		1	787024	SJ	EET CHI	09/20/24 00:03
Total/NA	Prep	3050B			786854	BDE	EET CHI	09/19/24 09:45 - 09/19/24 15:45 [1]
Total/NA	Analysis	6010D		5	787349	SJ	EET CHI	09/23/24 12:53
Total/NA	Prep	7471B			787098	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:47
Total/NA	Prep	9010C			785357	AC	EET CHI	09/10/24 15:04 - 09/10/24 15:34 [1]
Total/NA	Analysis	9012B		5	785657	AC	EET CHI	09/11/24 14:15

Client Sample ID: SB54 (10-12.5)

Lab Sample ID: 500-256275-22
Date Collected: 09/05/24 14:30
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 14:23
Total/NA	Analysis	Moisture		1	786216	ER	EET CHI	09/16/24 10:40

Client Sample ID: SB54 (10-12.5)

Lab Sample ID: 500-256275-22
Date Collected: 09/05/24 14:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784982		EET CHI	09/05/24 14:30
Total/NA	Analysis	8260D		50	786161	EA	EET CHI	09/16/24 19:31
Total/NA	Prep	3546			786476	LH	EET CHI	09/17/24 13:27
Total/NA	Analysis	8270E		2	786603	H7CM	EET CHI	09/18/24 19:03
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8081B		10	787410	SB	EET CHI	09/24/24 13:21
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8082A		1	787365	H7CM	EET CHI	09/23/24 22:54
Total/NA	Prep	3050B			786854	BDE	EET CHI	09/19/24 09:45 - 09/19/24 15:45 [1]
Total/NA	Analysis	6010D		1	787024	SJ	EET CHI	09/20/24 00:08
Total/NA	Prep	3050B			786854	BDE	EET CHI	09/19/24 09:45 - 09/19/24 15:45 [1]
Total/NA	Analysis	6010D		5	787349	SJ	EET CHI	09/23/24 12:58
Total/NA	Prep	7471B			787098	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:49
Total/NA	Prep	9010C			785357	AC	EET CHI	09/10/24 15:04 - 09/10/24 15:34 [1]
Total/NA	Analysis	9012B		5	785658	AC	EET CHI	09/11/24 15:27

Client Sample ID: SB55 (0-3)
Lab Sample ID: 500-256275-23
Date Collected: 09/05/24 15:00
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 14:25
Total/NA	Analysis	Moisture		1	786216	ER	EET CHI	09/16/24 10:40

Client Sample ID: SB55 (0-3)
Lab Sample ID: 500-256275-23
Date Collected: 09/05/24 15:00
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784998		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785633	SW1	EET CHI	09/12/24 18:32
Total/NA	Prep	3546			786476	LH	EET CHI	09/17/24 13:27
Total/NA	Analysis	8270E		2	786603	H7CM	EET CHI	09/18/24 19:27
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8081B		100	787590	SB	EET CHI	09/25/24 10:12
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8082A		500	787803	SB	EET CHI	09/26/24 13:09
Total/NA	Prep	3050B			786854	BDE	EET CHI	09/19/24 09:45 - 09/19/24 15:45 [1]
Total/NA	Analysis	6010D		1	787024	SJ	EET CHI	09/20/24 00:12
Total/NA	Prep	3050B			786854	BDE	EET CHI	09/19/24 09:45 - 09/19/24 15:45 [1]
Total/NA	Analysis	6010D		5	787349	SJ	EET CHI	09/23/24 13:02
Total/NA	Prep	7471B			787098	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:56
Total/NA	Prep	9010C			785357	AC	EET CHI	09/10/24 15:04 - 09/10/24 15:34 [1]
Total/NA	Analysis	9012B		1	785657	AC	EET CHI	09/11/24 14:27

Client Sample ID: SB55 (5-7.5)
Lab Sample ID: 500-256275-24
Date Collected: 09/05/24 15:30
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785809	ST	EET CHI	09/11/24 14:27
Total/NA	Analysis	Moisture		1	786216	ER	EET CHI	09/16/24 10:40

Client Sample ID: SB55 (5-7.5)
Lab Sample ID: 500-256275-24
Date Collected: 09/05/24 15:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			784998		EET CHI	09/06/24 18:47
Total/NA	Analysis	8260D		1	785633	SW1	EET CHI	09/12/24 18:56
Total/NA	Prep	3546			786476	LH	EET CHI	09/17/24 13:27
Total/NA	Analysis	8270E		2	786603	H7CM	EET CHI	09/18/24 16:13
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8081B		10	787410	SB	EET CHI	09/24/24 14:08

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB55 (5-7.5)
Lab Sample ID: 500-256275-24

Date Collected: 09/05/24 15:30
Matrix: Solid
Date Received: 09/06/24 12:35
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786336	FRG	EET CHI	09/17/24 07:08 - 09/17/24 14:38 [1]
Total/NA	Analysis	8082A		5	787732	SB	EET CHI	09/25/24 17:13
Total/NA	Prep	3050B			786854	BDE	EET CHI	09/19/24 09:45 - 09/19/24 15:45 [1]
Total/NA	Analysis	6010D		1	787024	SJ	EET CHI	09/20/24 00:25
Total/NA	Prep	3050B			786854	BDE	EET CHI	09/19/24 09:45 - 09/19/24 15:45 [1]
Total/NA	Analysis	6010D		5	787349	SJ	EET CHI	09/23/24 13:07
Total/NA	Prep	7471B			787098	MJG	EET CHI	09/20/24 17:35
Total/NA	Analysis	7471B		1	787296	MJG	EET CHI	09/23/24 08:58
Total/NA	Prep	9010C			785357	AC	EET CHI	09/10/24 15:04 - 09/10/24 15:34 [1]
Total/NA	Analysis	9012B		5	785658	AC	EET CHI	09/11/24 15:33

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	10-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record 719735

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact	Date:	COC No 1
Company Name Pioneer	Tel/Email: jhartsock@pioneereesc.com	Lab Contact:	Carrier:	1 of 2 COCs
Address 2753 W 31st St	Analysis Turnaround Time			Sampler
City/State/Zip: Chicago, IL, 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name 8080 S. Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO# 24-0124-103	☐ 1 day			500-256275

500-256275 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL, pH	Sample Specific Notes
1	SB44 (0-3)	9/5/24	9:43am	G	S	4			X	
2	SB44 (5-7.5)		9:52am						X	
3	SB45 (0-3)		10:15am						X	
4	SB45 (5-7.5)		10:36am						X	
5	SB46 (0-3)		10:52am						X	
6	SB46 (3-5)		11:07am						X	
7	SB47 (0-3)		11:17am						X	
8	SB47 (7.5-10)		11:26am						X	
9	SB48 (0-3)		11:47am						X	
10	SB48 (5-7.5)		11:52am						X	
11	SB49 (0-3)		12:43pm						X	
12	SB49 (10-12.5)		1:07pm						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 2.4 Corr'd 2.1 | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pioneer	9/6/24	[signature]	EETA	9/6/24 1045
[signature]	EETA 9/6/24	1235			
			Received in Laboratory by [signature]	EETA	9/6/24 1235

3/11/2025 (Rev. 2)

Address _____

Chain of Custody Record 719736

eurofins | Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact	Date	COC No 2
Company Name: Pioneer	Tel/Email: jhartsock@pioneereesc.com	Lab Contact	Carrier	2 of 2 COCs
Address: 2753 N 31st St	Analysis Turnaround Time			Sampler
City/State/Zip: Chicago, IL, 60645	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name: 8060 S. Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No: 500-256225
PO# 24-0124-103	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCLP all	Sample Specific Notes
13	SB50 (0-3)	9/6/24	1.47pm	G	S	4			X	
14	SB50 (7.5-10)		1.58pm						X	
15	SB51 (0-3)		10.00am						X	
16	SB51 (5-7.5)		10.30am						X	
17	SB52 (0-3)		11.00am						X	
18	SB52 (7.5-10)		11.30am						X	
19	SB53 (0-3)		1.00pm						X	
20	SB53 (10-12.5)		1.30pm						X	
21	SB54 (0-3)		2.00pm						X	
22	SB54 (10-12.5)		2.30pm						X	
23	SB55 (0-3)		3.00pm						X	
24	SB55 (5-7.5)		3.30pm						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____			
Relinquished by	Company: Pioneer	Date/Time: 9/6/24	Received by	Company: BETA	Date/Time: 9/6/24 1045
Relinquished by	Company: BETA 9/6/24	Date/Time: 1235	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: BETA	Date/Time: 9/6/24 1235

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192361 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256275-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 9/19/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

E186

Special Instructions/Note:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oi BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers
			Preservation Code:					
SB45 (5-7 5) (500-256275-4)	9/5/24	10:36 Central	G	Solid			X	1
SB49 (0-3) (500-256275-11)	9/5/24	12:43 Central	G	Solid			X	1
SB51 (0-3) (500-256275-15)	9/5/24	10:00 Central	G	Solid			X	1

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/9/24 14:30	EET	KATHARINE MARTIN	9/10/24 930	EUR
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins Site Name

Cooler unpacked by: KM

Cooler Received on 9/10/24 Opened on 9/10/24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form KM 1.6

IR GUN # 22 (CF -0.1 °C) Observed Cooler Temp. 5.2 KM 1 °C Corrected Cooler Temp 5.1 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC442471
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen.

ORIGIN ID JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE:
ACTWGT: 58
CAD: 0675

BILL SE

TO SAMPLE RECEIVING
EUROFINS – CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203

REF: 256275 292 327 339 348 85

FedEx Express

1 of 2

TRK# 0201 7051 7620 8440

TUE – 10 SEP 10:30A
PRIORITY OVERNIGHT

MASTER

NX CAKA

44203
OH – US CLE

eurofins | Environment Testing

Temperature Controlled

IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)

TAL-0090(1016)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193731 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256275-2
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/17/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

EOS4

Special Instructions/Note:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oi BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M (MOD) a) 1 element, including prep	Total Number of containers
			Preservation Code:					
SB48 (5-7 5) (500-256275-10)	9/5/24	11 52 Central	G	Solid			X	1
SB55 (0-3) (500-256275-23)	9/5/24	15:00 Central	G	Solid			X	1

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested. I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hernandez	10/11/24 1600	EEA	KATHARINE MARTIN	10/12/24 920	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :**
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler Received on 10/12/24 Opened on 10/12/24

Cooler unpacked by: ICM

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt [X] See Multiple Cooler Form

IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp °C Corrected Cooler Temp °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y(N), # of containers (Y)N), and sample type of grab/comp(Y)N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14. Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved. Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen.

Login # : ___________

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: ______	2.9	3.0	Wet Ice (circled) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ORIGIN ID/JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE 11OCT24
ACTWGT: 68.00 LB MAN
CAD: 0675858/CAFE3854

BILL SENDER

Part # 159469-434 MTW EXP 02/25

TO SAMPLE RECEIVING
EUROFINS – CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396
REF: 257701 255852 917 256054 095 166 275

FedEx Express

E

2 of 4
MPS# 7051 7621 1593
0263
Mstr# 7051 7621 1582
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CAKA

44203
OH-US CLE

RT 448 1 12:00
FZ 447 1593 10.12

492

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256275-1

Login Number: 256275
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 9:25:20 AM Revision 3

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256339-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 9:25:20 AM
Revision 3

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256339-1 — Eurofins Chicago

Job Narrative
500-256339-1

Revision
The report being provided is a revision of the original report sent on 9/30/2024. The report (revision 3) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 10/9/2024 - Reason - The report and EDD have been revised to correct sample ID SB61 (0-3) at 9:41. The ID should be SB62 (0-3) per the COC..

Revision 2 - 12/11/2024 - Reason - The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/9/2024 10:16 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: SB57 (7.5-10) (500-256339-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The method blank for analytical batch 500-785880 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The method blank for analytical batch 500-786144 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The laboratory control sample (LCS) for preparation batch 500-785196 and analytical batch 500-786552 recovered outside control limits for the following analytes: Vinyl Chloride and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Internal standard /surrogate responses were outside of acceptance limits for the following sample: SB59 (0-3) (500-256339-7). The sample(s) shows evidence of matrix interference, as sample was analyzed multiple times with concurring failures.

Method 8260D: The following sample was diluted due to the abundance of non-target analytes: SB61 (17.5-19) (500-256339-13). Elevated reporting limits (RLs) are provided.

Method 8260D: Elevated reporting limits are provided for the following sample(s). All low level vials yielded unusable data. A 1/50 dilution had to be performed from the methanol vial.SB56 (5-7.5) (500-256339-2), SB61 (0-3) (500-256339-11) and SB67 (3-5) (500-256339-25)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB65 (7.5-10) (500-256339-21), SB66 (0-3) (500-256339-22) and SB67 (0-3) (500-256339-24). These results have been reported and qualified.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-786603 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 500-786603 recovered above the upper control limit for 2-Nitroaniline and N-Nitrosodi-n-propylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Job ID: 500-256339-1 (Continued) Eurofins Chicago

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB65 (7.5-10) (500-256339-21), SB66 (0-3) (500-256339-22), SB66 (5-7.5) (500-256339-23) and SB67 (0-3) (500-256339-24). Elevated reporting limits (RLs) are provided.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-786820 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 500-786820 recovered above the upper control limit for 2-Nitroaniline and N-Nitrosodi-n-propylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-786826 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB58 (0-3) (500-256339-5), SB59 (5-7.5) (500-256339-8), SB60 (0-3) (500-256339-9), SB61 (0-3) (500-256339-11), SB61 (17.5-19) (500-256339-13), SB64 (0-3) (500-256339-18), SB64 (7.5-10) (500-256339-19), (500-256339-D-5-D MS) and (500-256339-D-5-E MSD). Elevated reporting limits (RLs) are provided.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB64 (7.5-10) (500-256339-19). These results have been reported and qualified.

Method 8270E: Surrogate recovery for the following samples were outside control limits: SB58 (0-3) (500-256339-5), (500-256339-D-5-D MS) and (500-256339-D-5-E MSD). Evidence of matrix interference is present and confirmed by the subsequent MS/MSD analysis; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and surrogates for preparation batch 500-786798 and analytical batch 500-786826 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-787029 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-787029 was outside the method criteria for the following analyte(s): 2-Nitroaniline, bis(chloroisopropyl) ether and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB56 (0-3) (500-256339-1) and SB60 (7.5-10) (500-256339-10). These results have been reported and qualified.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB58 (10-12.5) (500-256339-6), SB59 (0-3) (500-256339-7) and SB60 (7.5-10) (500-256339-10). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB61 (17.5-19) (500-256339-13). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB61 (12.5-15) (500-256339-12). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-786773 and analytical batch 500-787590 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB64 (7.5-10) (500-256339-19), (500-256339-D-19-C MS) and (500-256339-D-19-D MSD). Elevated reporting limits (RLs) are provided.

Method 8081B: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-787590/4). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

Method 8082A: Surrogate recovery for the following sample was outside control limits: SB58 (10-12.5) (500-256339-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB56 (0-3) (500-256339-1), SB56 (5-7.5) (500-256339-2), SB57 (0-3) (500-256339-3), SB57 (7.5-10) (500-256339-4), SB58 (0-3) (500-256339-5), SB58 (10-12.5) (500-256339-6), SB59 (0-3) (500-256339-7), SB59 (5-7.5) (500-256339-8), SB64 (7.5-10) (500-256339-19), SB65 (0-3) (500-256339-20), SB65 (7.5-10) (500-256339-21), SB66 (0-3) (500-256339-22), SB66 (5-7.5) (500-256339-23), SB67 (0-3) (500-256339-24), SB67 (3-5) (500-256339-25), (500-256339-D-6-E MS), (500-256339-D-6-F MSD), (500-256339-D-19-E MS) and (500-256339-D-19-F MSD). Elevated reporting limits (RLs) are provided.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following samples was outside control limits: SB57 (7.5-10) (500-256339-4), SB59 (0-3) (500-256339-7), SB59 (5-7.5) (500-256339-8) and (500-256339-D-6-E MS). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB60 (0-3) (500-256339-9), SB60 (7.5-10) (500-256339-10), SB61 (0-3) (500-256339-11), SB61 (17.5-19) (500-256339-13), SB62 (0-3) (500-256339-14), SB62 (7.5-10) (500-256339-15), SB63 (0-3) (500-256339-16), SB63 (5-7.5) (500-256339-17) and SB64 (0-3) (500-256339-18). Elevated reporting limits (RLs) are provided.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: SB63 (5-7.5) (500-256339-17) and SB64 (0-3) (500-256339-18). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following samples was outside control limits: SB60 (0-3) (500-256339-9), SB62 (0-3) (500-256339-14) and SB62 (7.5-10) (500-256339-15). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Tetrachloro-m-xylene surrogate recovery for the following samples was outside control limits: SB56 (0-3) (500-256339-1), SB56 (5-7.5) (500-256339-2), SB59 (5-7.5) (500-256339-8) and SB62 (0-3) (500-256339-14). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB61 (17.5-19) (500-256339-13) and SB64 (0-3) (500-256339-18). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The following sample required a dilution due to the nature of the sample matrix: SB63 (0-3) (500-256339-16). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: SB57 (0-3) (500-256339-3), SB58 (10-12.5) (500-256339-6), SB59 (0-3) (500-256339-7), SB60 (0-3) (500-256339-9), SB60 (7.5-10) (500-256339-10), SB63 (5-7.5) (500-256339-17) and (500-256339-D-6-D MSD). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB57 (0-3) (500-256339-3), SB57 (7.5-10) (500-256339-4), SB58 (0-3) (500-256339-5), SB58 (10-12.5) (500-256339-6), SB59

(0-3) (500-256339-7), SB60 (0-3) (500-256339-9), SB60 (7.5-10) (500-256339-10), SB62 (7.5-10) (500-256339-15), SB63 (0-3) (500-256339-16), SB63 (5-7.5) (500-256339-17), (500-256339-D-6-C MS) and (500-256339-D-6-D MSD).

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside control limits: SB61 (0-3) (500-256339-11). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB59 (5-7.5) (500-256339-8), SB61 (0-3) (500-256339-11), SB61 (17.5-19) (500-256339-13), SB62 (0-3) (500-256339-14) and SB64 (0-3) (500-256339-18).

Method 8081B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB64 (7.5-10) (500-256339-19), SB65 (0-3) (500-256339-20), SB65 (7.5-10) (500-256339-21), SB66 (0-3) (500-256339-22), SB66 (5-7.5) (500-256339-23), SB67 (0-3) (500-256339-24), SB67 (3-5) (500-256339-25), (500-256339-D-19-C MS) and (500-256339-D-19-D MSD).

Method 8082A: Spike compounds were inadvertently omitted during the extraction process for the associated laboratory control sample (LCS). The associated matrix spike/matrix spike duplicate recoveries met acceptance criteria and the associated samples were non-detect.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010D: The method blank for prep batch 786944 contained Fe above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010D: The continuing calibration blanks for analytical batch 787456 contained Ca, Mg, Mn, and V- greater than the reporting limit (RL). The associated samples had results greater than 10X the CCB results. The data have been qualified and reported.

Method 6010D: The continuing calibration at line 106 in AD batch 787835 contained Fe greater than the reporting limit (RL). Associated samples were not reanalyzed because they had results greater than 10X the CCB result. The data have been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 9012B: The matrix spike (MS) recoveries for preparation batch 500-785724 and analytical batch 500-786248 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 9045D: The following pH sample was analyzed outside of analytical holding time due to the sample was overlooked on the backlog: SB60 (0-3) (500-256339-9).

Method 9012B: The matrix spike (MS) recoveries for preparation batch 500-786090 and analytical batch 500-786268 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 9034: The following sample(s) was received with less than 2 days remaining on the holding time by the Cleveland Lab. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: SB61 (12.5-15) (500-256339-12), SB61 (17.5-19) (500-256339-13) and SB64 (0-3) (500-256339-18).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SB56 (0-3) — Lab Sample ID: 500-256339-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0055	J	0.0063	0.0028	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.030		0.025	0.011	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.0015	J	0.0025	0.00079	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0019	J	0.0063	0.0012	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0020	J	0.0025	0.00051	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.00091	J	0.0051	0.00087	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.011	J	0.037	0.0062	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.0083	J	0.037	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.054		0.037	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.044		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.089		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.042		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.031	J	0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.067		0.037	0.0097	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.092		0.037	0.0085	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.039		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.018	J	0.037	0.0066	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.13		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.078		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.025	J	0.074	0.0074	mg/Kg	1	☼	8270E	Total/NA
Aluminum	7000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	15		5.3		mg/Kg	5	☼	6010D	Total/NA
Barium	110	F1	1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.4		2.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	53000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	320		5.3		mg/Kg	5	☼	6010D	Total/NA
Cobalt	13		2.7		mg/Kg	5	☼	6010D	Total/NA
Copper	100		5.3		mg/Kg	5	☼	6010D	Total/NA
Iron	260000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	88	F2	2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	12000	F2	11		mg/Kg	1	☼	6010D	Total/NA
Manganese	2800	^2	5.3		mg/Kg	5	☼	6010D	Total/NA
Nickel	200	F1	5.3		mg/Kg	5	☼	6010D	Total/NA
Potassium	310		53		mg/Kg	1	☼	6010D	Total/NA
Sodium	580		530		mg/Kg	5	☼	6010D	Total/NA
Thallium	6.7	F1	5.3		mg/Kg	5	☼	6010D	Total/NA
Vanadium	27		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	160	F1 F2	11		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.17		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.47		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.89		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB56 (5-7.5) — Lab Sample ID: 500-256339-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.034		0.018	0.015	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.045		0.037	0.017	mg/Kg	50	☼	8260D	Total/NA
Acenaphthylene	0.014	J	0.039	0.0066	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.025	J	0.039	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.10		0.039	0.0083	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.051		0.039	0.038	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB56 (5-7.5) (Continued)
Lab Sample ID: 500-256339-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.10		0.039	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.054		0.039	0.0085	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.026	J	0.039	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.12		0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.18		0.039	0.0091	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.035	J	0.039	0.0071	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.99		0.039	0.0085	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.14		0.039	0.011	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.074	J	0.079	0.0078	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.029	J	0.20	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	4100		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.2		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	34		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.2		0.41		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.45		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	35000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	30		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.9		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	14		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	54000		23		mg/Kg	1	☼	6010D	Total/NA
Lead	21		0.51		mg/Kg	1	☼	6010D	Total/NA
Magnesium	13000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	1900		1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	23		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	560		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.5		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	340		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	2.8		1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	38		0.51		mg/Kg	1	☼	6010D	Total/NA
Zinc	120		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.021		0.019		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.47		0.28		mg/Kg	1	☼	9012B	Total/NA
pH	8.99		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB57 (0-3)
Lab Sample ID: 500-256339-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0011	J	0.0028	0.00087	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0055	J	0.0070	0.0013	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0017	J	0.0028	0.00056	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.00098	J	0.0056	0.00095	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.020	J	0.035	0.0060	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.025	J	0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.21		0.035	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.26		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.45		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.24		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.12		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.24		0.035	0.0093	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.078		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.33		0.035	0.0082	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB57 (0-3) (Continued) — Lab Sample ID: 500-256339-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.24		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.078		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.29		0.035	0.0097	mg/Kg	1	☼	8270E	Total/NA
Aluminum	22000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.9		5.1		mg/Kg	5	☼	6010D	Total/NA
Barium	250		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	5.2		0.41		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.42		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	220000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	2500		21		mg/Kg	20	☼	6010D	Total/NA
Cobalt	2.8		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	79		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	35000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	48		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	32000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	20000	^2	5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	49		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1000		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	8.5		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	700		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	59		21		mg/Kg	20	☼	6010D	Total/NA
Vanadium	440		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	100		10		mg/Kg	5	☼	6010D	Total/NA
Cyanide, Total	0.77	F1	0.25		mg/Kg	1	☼	9012B	Total/NA
pH	10.17		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB57 (7.5-10) — Lab Sample ID: 500-256339-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0051	J	0.0067	0.0012	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00075	J	0.0027	0.00054	mg/Kg	1	☼	8260D	Total/NA
Phenanthrene	0.0083	J	0.037	0.0081	mg/Kg	1	☼	8270E	Total/NA
Aluminum	8900		21		mg/Kg	1	☼	6010D	Total/NA
Barium	68		1.1		mg/Kg	1	☼	6010D	Total/NA
Calcium	28000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	15		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	11		2.6		mg/Kg	5	☼	6010D	Total/NA
Iron	380000		210		mg/Kg	10	☼	6010D	Total/NA
Lead	25		11		mg/Kg	20	☼	6010D	Total/NA
Magnesium	9700		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	5700	^2	21		mg/Kg	20	☼	6010D	Total/NA
Potassium	210		53		mg/Kg	1	☼	6010D	Total/NA
Vanadium	58		11		mg/Kg	20	☼	6010D	Total/NA
Zinc	39		11		mg/Kg	5	☼	6010D	Total/NA
Cyanide, Total	0.52	F1	0.24		mg/Kg	1	☼	9012B	Total/NA
pH	8.13		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB58 (0-3) — Lab Sample ID: 500-256339-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.019	J	0.027	0.011	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0050	J	0.0068	0.0013	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB58 (0-3) (Continued)
Lab Sample ID: 500-256339-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.023	J F1	0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.18		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.18		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.25		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.098	F1	0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.19		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.19		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.27		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.11	F1	0.071	0.070	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.060	J	0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.22		0.071	0.020	mg/Kg	2	☼	8270E	Total/NA
Butyl benzyl phthalate	0.16	J	0.36	0.036	mg/Kg	2	☼	8270E	Total/NA
Aluminum	19000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.4		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	250		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.9		0.42		mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.2		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	130000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	90		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.7		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	44		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	48000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	270		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	19000	^2	53		mg/Kg	5	☼	6010D	Total/NA
Manganese	5700	^2	5.3		mg/Kg	5	☼	6010D	Total/NA
Nickel	22		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1400		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.4		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	880		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	9.5		5.3		mg/Kg	5	☼	6010D	Total/NA
Vanadium	54		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	340		11		mg/Kg	5	☼	6010D	Total/NA
Cyanide, Total	1.8		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	11.28		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB58 (10-12.5)
Lab Sample ID: 500-256339-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0032	J	0.0058	0.0011	mg/Kg	1	☼	8260D	Total/NA
Fluoranthene	0.039	J	0.068	0.016	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.055	J	0.068	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.046	J	0.068	0.019	mg/Kg	2	☼	8270E	Total/NA
Aluminum	1900		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.5		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	11		1.0		mg/Kg	1	☼	6010D	Total/NA
Calcium	52000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	4.0		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.2		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	9.4		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	19000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	13		0.51		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB58 (10-12.5) (Continued)
Lab Sample ID: 500-256339-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	35000	^2	10		mg/Kg	1	☼	6010D	Total/NA
Manganese	280		1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	4.6		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	430		51		mg/Kg	1	☼	6010D	Total/NA
Sodium	140		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.7		0.51		mg/Kg	1	☼	6010D	Total/NA
Zinc	36		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.016		0.016		mg/Kg	1	☼	7471B	Total/NA
pH	8.34		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB59 (0-3)
Lab Sample ID: 500-256339-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0016	J	0.0021	0.00065	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0029	J	0.0052	0.00096	mg/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.0096		0.0021	0.0012	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0022		0.0021	0.00042	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0013	J	0.0042	0.00071	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.12		0.073	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.070	J	0.073	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.29		0.073	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.0		0.073	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.84		0.073	0.070	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.5		0.073	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.54		0.073	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.53		0.073	0.028	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.2		0.073	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.18		0.073	0.073	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	2.2		0.073	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.11		0.073	0.022	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.61		0.073	0.071	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.11		0.073	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	1.8		0.073	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	1.5		0.073	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.14	J	0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.21	J	0.37	0.029	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.10	J	0.37	0.026	mg/Kg	2	☼	8270E	Total/NA
Aluminum	9600		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	11		4.8		mg/Kg	5	☼	6010D	Total/NA
Barium	110		0.96		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.4		1.9		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.2		0.96		mg/Kg	5	☼	6010D	Total/NA
Calcium	60000		96		mg/Kg	5	☼	6010D	Total/NA
Chromium	37		0.96		mg/Kg	1	☼	6010D	Total/NA
Cobalt	7.6		2.4		mg/Kg	5	☼	6010D	Total/NA
Copper	100		4.8		mg/Kg	5	☼	6010D	Total/NA
Iron	92000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	84		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	15000	^2	48		mg/Kg	5	☼	6010D	Total/NA
Manganese	3600	^2	4.8		mg/Kg	5	☼	6010D	Total/NA
Nickel	39		4.8		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB59 (0-3) (Continued) — Lab Sample ID: 500-256339-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	780		48		mg/Kg	1	☼	6010D	Total/NA
Sodium	570		480		mg/Kg	5	☼	6010D	Total/NA
Thallium	6.3		4.8		mg/Kg	5	☼	6010D	Total/NA
Vanadium	28		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	200		9.6		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.16		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	9.4		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	8.63		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB59 (5-7.5) — Lab Sample ID: 500-256339-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0058		0.0022	0.0013	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00048	J	0.0022	0.00045	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.017	J	0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.085		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.076		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.098		0.069	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.052	J	0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.081		0.069	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.090		0.069	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.12		0.069	0.016	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.14		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.11		0.069	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.016	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Aluminum	2900		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.4		0.99		mg/Kg	1	☼	6010D	Total/NA
Barium	30		0.99		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.54		0.40		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.20		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	34000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	8.4		0.99		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.1		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	15		0.99		mg/Kg	1	☼	6010D	Total/NA
Iron	23000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	21		0.49		mg/Kg	1	☼	6010D	Total/NA
Magnesium	16000	^2	9.9		mg/Kg	1	☼	6010D	Total/NA
Manganese	620		0.99		mg/Kg	1	☼	6010D	Total/NA
Nickel	8.1		0.99		mg/Kg	1	☼	6010D	Total/NA
Potassium	260		49		mg/Kg	1	☼	6010D	Total/NA
Sodium	150		99		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.2		0.99		mg/Kg	1	☼	6010D	Total/NA
Vanadium	12		0.49		mg/Kg	1	☼	6010D	Total/NA
Zinc	53		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.15		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	3.3		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	9.40		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB60 (0-3) — Lab Sample ID: 500-256339-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0030	J	0.0059	0.0026	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB60 (0-3) (Continued)
Lab Sample ID: 500-256339-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014	J	0.024	0.0099	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0033	J	0.0059	0.0011	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0012	J	0.0047	0.00081	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.025	J	0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.12		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.14		0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.22		0.070	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.096		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.15		0.070	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.17		0.070	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.22		0.070	0.016	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.023	J	0.070	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.20		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.19		0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.039	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
PCB-1260	0.33		0.17		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.33		0.17		mg/Kg	10	☼	8082A	Total/NA
Aluminum	20000		18		mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.5		0.91		mg/Kg	1	☼	6010D	Total/NA
Barium	300		0.91		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.9		0.37		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.88		0.18		mg/Kg	1	☼	6010D	Total/NA
Calcium	160000		91		mg/Kg	5	☼	6010D	Total/NA
Chromium	150		0.91		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.9		2.3		mg/Kg	5	☼	6010D	Total/NA
Copper	260		0.91		mg/Kg	1	☼	6010D	Total/NA
Iron	52000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	120		2.3		mg/Kg	5	☼	6010D	Total/NA
Magnesium	34000	^2	46		mg/Kg	5	☼	6010D	Total/NA
Manganese	7000	^2	4.6		mg/Kg	5	☼	6010D	Total/NA
Nickel	29		0.91		mg/Kg	1	☼	6010D	Total/NA
Potassium	1300		46		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.4		0.91		mg/Kg	1	☼	6010D	Total/NA
Sodium	690		91		mg/Kg	1	☼	6010D	Total/NA
Thallium	8.9		4.6		mg/Kg	5	☼	6010D	Total/NA
Vanadium	69		2.3		mg/Kg	5	☼	6010D	Total/NA
Zinc	190		9.1		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.064		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	11		1.2		mg/Kg	5	☼	9012B	Total/NA
pH	9.02	H	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB60 (7.5-10)
Lab Sample ID: 500-256339-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.031		0.022	0.0092	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0038	J	0.0055	0.0010	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.038	J	0.068	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.046	J	0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.16		0.068	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.15		0.068	0.066	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB60 (7.5-10) (Continued)
Lab Sample ID: 500-256339-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.27		0.068	0.065	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.15		0.068	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.12		0.068	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.20		0.068	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.29		0.068	0.016	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.068	0.067	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.019	J	0.068	0.012	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.21		0.068	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.23		0.068	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.025	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
PCB-1260	0.30		0.17		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.30		0.17		mg/Kg	10	☼	8082A	Total/NA
Aluminum	16000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.7		0.99		mg/Kg	1	☼	6010D	Total/NA
Barium	270		0.99		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.6		0.40		mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.3		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	140000		99		mg/Kg	5	☼	6010D	Total/NA
Chromium	110		0.99		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.9		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	130		0.99		mg/Kg	1	☼	6010D	Total/NA
Iron	74000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	110		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	26000	^2	50		mg/Kg	5	☼	6010D	Total/NA
Manganese	6900	^2	5.0		mg/Kg	5	☼	6010D	Total/NA
Nickel	48		0.99		mg/Kg	1	☼	6010D	Total/NA
Potassium	1300		50		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.4		0.99		mg/Kg	1	☼	6010D	Total/NA
Sodium	630		99		mg/Kg	1	☼	6010D	Total/NA
Thallium	11		5.0		mg/Kg	5	☼	6010D	Total/NA
Vanadium	58		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	240		9.9		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.087		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	12		2.2		mg/Kg	10	☼	9012B	Total/NA
pH	9.63		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB61 (0-3)
Lab Sample ID: 500-256339-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.029		0.014	0.012	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.059		0.029	0.013	mg/Kg	50	☼	8260D	Total/NA
Acenaphthylene	0.22		0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.20		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.6		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	1.5		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	2.2		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.72		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	2.0		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.5		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.30		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	2.3		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB61 (0-3) (Continued) — Lab Sample ID: 500-256339-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.023	J	0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.85		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.10		0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.90		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	2.1		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.090	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.042	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.11	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	23000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	11		5.2		mg/Kg	5	☼	6010D	Total/NA
Barium	260		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	5.8		2.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	5.0		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	160000	^2	100		mg/Kg	5	☼	6010D	Total/NA
Chromium	340		5.2		mg/Kg	5	☼	6010D	Total/NA
Cobalt	7.8		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	56		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	140000		210		mg/Kg	10	☼	6010D	Total/NA
Lead	100		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	19000	^2	52		mg/Kg	5	☼	6010D	Total/NA
Manganese	6600	^2	5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	290		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	1300		52		mg/Kg	1	☼	6010D	Total/NA
Sodium	840		520		mg/Kg	5	☼	6010D	Total/NA
Thallium	11		5.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	31	^2	2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	310		10		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.051		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	52		3.8		mg/Kg	15	☼	9012B	Total/NA
pH	9.18		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB61 (12.5-15) — Lab Sample ID: 500-256339-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	16		1.8		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	26000		1200		mg/Kg	100	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	36000		2400		mg/Kg	100	☼	8015D	Total/NA
Sulfide	440	H	43		mg/Kg	1	☼	9034	Total/NA

Client Sample ID: SB61 (17.5-19) — Lab Sample ID: 500-256339-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.074		0.031	0.015	mg/Kg	50	☼	8260D	Total/NA
Toluene	0.049		0.031	0.027	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.057	J	0.063	0.030	mg/Kg	50	☼	8260D	Total/NA
Acenaphthene	1.5		0.53	0.11	mg/Kg	10	☼	8270E	Total/NA
Anthracene	2.8		0.53	0.11	mg/Kg	10	☼	8270E	Total/NA
Benzo[a]anthracene	3.3		0.53	0.11	mg/Kg	10	☼	8270E	Total/NA
Benzo[a]pyrene	3.0		0.53	0.51	mg/Kg	10	☼	8270E	Total/NA
Benzo[b]fluoranthene	3.0		0.53	0.50	mg/Kg	10	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.9		0.53	0.11	mg/Kg	10	☼	8270E	Total/NA
Benzo[k]fluoranthene	2.5		0.53	0.20	mg/Kg	10	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB61 (17.5-19) (Continued) — Lab Sample ID: 500-256339-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	5.1		0.53	0.14	mg/Kg	10	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.61		0.53	0.53	mg/Kg	10	☼	8270E	Total/NA
Fluoranthene	9.1		0.53	0.12	mg/Kg	10	☼	8270E	Total/NA
Fluorene	4.4		0.53	0.16	mg/Kg	10	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.7		0.53	0.51	mg/Kg	10	☼	8270E	Total/NA
Naphthalene	2.1		0.53	0.095	mg/Kg	10	☼	8270E	Total/NA
Phenanthrene	14		0.53	0.11	mg/Kg	10	☼	8270E	Total/NA
Pyrene	15		0.53	0.14	mg/Kg	10	☼	8270E	Total/NA
2-Methylnaphthalene	2.0		1.1	0.11	mg/Kg	10	☼	8270E	Total/NA
Dibenzofuran	1.8	J	2.7	0.19	mg/Kg	10	☼	8270E	Total/NA
Gasoline Range Organics (C6-C9)	51		2.5		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	5300		630		mg/Kg	50	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	5500		1300		mg/Kg	50	☼	8015D	Total/NA
Aluminum	24000		28		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.1		1.4		mg/Kg	1	☼	6010D	Total/NA
Barium	360		7.0		mg/Kg	5	☼	6010D	Total/NA
Beryllium	4.0		0.56		mg/Kg	1	☼	6010D	Total/NA
Calcium	130000	^2	140		mg/Kg	5	☼	6010D	Total/NA
Chromium	16		1.4		mg/Kg	1	☼	6010D	Total/NA
Iron	22000		30		mg/Kg	1	☼	6010D	Total/NA
Magnesium	16000	^2	70		mg/Kg	5	☼	6010D	Total/NA
Manganese	6600	^2	7.0		mg/Kg	5	☼	6010D	Total/NA
Potassium	2100		70		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.5		1.4		mg/Kg	1	☼	6010D	Total/NA
Sodium	520		140		mg/Kg	1	☼	6010D	Total/NA
Thallium	9.6		7.0		mg/Kg	5	☼	6010D	Total/NA
Vanadium	29	^2	3.5		mg/Kg	5	☼	6010D	Total/NA
Cyanide, Total	22		3.8		mg/Kg	10	☼	9012B	Total/NA
Sulfide	1700	H	49		mg/Kg	1	☼	9034	Total/NA
pH	11.69		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB62 (0-3) — Lab Sample ID: 500-256339-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0074		0.0062	0.0012	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0010	J	0.0025	0.00050	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.018	J	0.039	0.0082	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.012	J	0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.016	J	0.039	0.0090	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.015	J	0.039	0.0084	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.015	J	0.039	0.011	mg/Kg	1	☼	8270E	Total/NA
Aluminum	5300		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	76		1.1		mg/Kg	1	☼	6010D	Total/NA
Calcium	36000	^2	22		mg/Kg	1	☼	6010D	Total/NA
Chromium	5.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	1.5		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	1.6		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	3300		23		mg/Kg	1	☼	6010D	Total/NA
Lead	1.8		0.54		mg/Kg	1	☼	6010D	Total/NA
Magnesium	22000	^2	11		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB62 (0-3) (Continued) — Lab Sample ID: 500-256339-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	240		1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	2.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	220		54		mg/Kg	1	☼	6010D	Total/NA
Sodium	120		110		mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.3		0.54		mg/Kg	1	☼	6010D	Total/NA
Zinc	10		2.2		mg/Kg	1	☼	6010D	Total/NA
pH	9.63		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB62 (7.5-10) — Lab Sample ID: 500-256339-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0018	J	0.0060	0.0011	mg/Kg	1	☼	8260D	Total/NA
Pyrene	0.012	J	0.038	0.011	mg/Kg	1	☼	8270E	Total/NA
Aluminum	40000		120		mg/Kg	5	☼	6010D	Total/NA
Barium	490		6.0		mg/Kg	5	☼	6010D	Total/NA
Beryllium	7.7		2.4		mg/Kg	5	☼	6010D	Total/NA
Calcium	170000	^2	120		mg/Kg	5	☼	6010D	Total/NA
Iron	920		22		mg/Kg	1	☼	6010D	Total/NA
Magnesium	53000	^2	60		mg/Kg	5	☼	6010D	Total/NA
Manganese	2400	^2	6.0		mg/Kg	5	☼	6010D	Total/NA
Potassium	790		300		mg/Kg	5	☼	6010D	Total/NA
Sodium	1000		600		mg/Kg	5	☼	6010D	Total/NA
Vanadium	5.0	^2	3.0		mg/Kg	5	☼	6010D	Total/NA
pH	9.61		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB63 (0-3) — Lab Sample ID: 500-256339-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0029	J	0.0055	0.0010	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.063		0.036	0.0073	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.063		0.036	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.66		0.036	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	1.5		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.8		0.036	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.4		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.62		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.82		0.036	0.0095	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.26		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.72		0.036	0.0083	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.018	J	0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.3		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.011	J	0.036	0.0065	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.23		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.76		0.036	0.0098	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.011	J	0.073	0.0072	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.038	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.013	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	22000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.4		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	350		5.1		mg/Kg	5	☼	6010D	Total/NA
Beryllium	5.9		0.40		mg/Kg	1	☼	6010D	Total/NA
Calcium	220000	^2	100		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB63 (0-3) (Continued) — Lab Sample ID: 500-256339-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	22		1.0		mg/Kg	1	☼	6010D	Total/NA
Copper	3.5		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	8500		20		mg/Kg	1	☼	6010D	Total/NA
Lead	14		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	53000	^2	51		mg/Kg	5	☼	6010D	Total/NA
Manganese	4000	^2	5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	1.5		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1900		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	1000		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	6.4		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	20	^2	2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	33		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	1.0		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	9.62		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB63 (5-7.5) — Lab Sample ID: 500-256339-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0033	J	0.0048	0.00088	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.068		0.039	0.0080	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.022	J	0.039	0.0067	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.071		0.039	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.55		0.039	0.0083	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.93		0.039	0.038	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.3		0.039	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.95		0.039	0.0085	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.52		0.039	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.69		0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.22		0.039	0.039	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.67		0.039	0.0091	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.030	J	0.039	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.82		0.039	0.038	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.034	J	0.039	0.0071	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.26		0.039	0.0085	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.91		0.039	0.011	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.017	J	0.079	0.0079	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.037	J	0.20	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.038	J	0.20	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	22000		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	220		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	6.0		0.44		mg/Kg	1	☼	6010D	Total/NA
Calcium	200000	^2	110		mg/Kg	5	☼	6010D	Total/NA
Chromium	12		1.1		mg/Kg	1	☼	6010D	Total/NA
Copper	2.5		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	8700		20		mg/Kg	1	☼	6010D	Total/NA
Magnesium	61000	^2	54		mg/Kg	5	☼	6010D	Total/NA
Manganese	1400		1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	1.4		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	880		54		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB63 (5-7.5) (Continued) — Lab Sample ID: 500-256339-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	2.7		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	930		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	2.0		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	12	^2	2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	13		2.2		mg/Kg	1	☼	6010D	Total/NA
pH	10.60		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB64 (0-3) — Lab Sample ID: 500-256339-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.015		0.0067	0.0029	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.038		0.027	0.011	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.0074		0.0027	0.00084	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0057	J	0.0067	0.0012	mg/Kg	1	☼	8260D	Total/NA
Ethylbenzene	0.0044		0.0027	0.0014	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.011		0.0027	0.00054	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0051	J	0.0053	0.00092	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.57		0.074	0.015	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.59		0.074	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	5.1		0.074	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	12		0.074	0.072	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	13		0.074	0.071	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	8.7		0.074	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	6.5		0.074	0.028	mg/Kg	2	☼	8270E	Total/NA
Chrysene	7.1		0.074	0.020	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	2.2		0.074	0.074	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	5.5		0.074	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.17		0.074	0.022	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	8.0		0.074	0.072	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.11		0.074	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	2.3		0.074	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	5.3		0.074	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.067	J	0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.29	J	0.37	0.029	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.13	J	0.37	0.026	mg/Kg	2	☼	8270E	Total/NA
Aluminum	7600		21		mg/Kg	1	☼	6010D	Total/NA
Barium	94		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.1		2.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	100000	^2	110		mg/Kg	5	☼	6010D	Total/NA
Chromium	110		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.5		2.7		mg/Kg	5	☼	6010D	Total/NA
Copper	30		5.3		mg/Kg	5	☼	6010D	Total/NA
Iron	95000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	24		2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	38000	^2	53		mg/Kg	5	☼	6010D	Total/NA
Manganese	3100	^2	5.3		mg/Kg	5	☼	6010D	Total/NA
Nickel	16		5.3		mg/Kg	5	☼	6010D	Total/NA
Potassium	280		53		mg/Kg	1	☼	6010D	Total/NA
Thallium	6.3		5.3		mg/Kg	5	☼	6010D	Total/NA
Vanadium	64	^2	2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	46		2.1		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB64 (0-3) (Continued) — Lab Sample ID: 500-256339-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.053		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.8		0.25		mg/Kg	1	☼	9012B	Total/NA
Sulfide	200	H	35		mg/Kg	1	☼	9034	Total/NA
pH	8.29		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB64 (7.5-10) — Lab Sample ID: 500-256339-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0024	J	0.0082	0.0015	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.12		0.084	0.018	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.22		0.084	0.081	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.26		0.084	0.080	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.19		0.084	0.018	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.19		0.084	0.032	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.17		0.084	0.022	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.15		0.084	0.020	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.19		0.084	0.082	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.081	J	0.084	0.018	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.15		0.084	0.023	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.026	J	0.17	0.017	mg/Kg	2	☼	8270E	Total/NA
Aluminum	22000		24		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.7		1.2		mg/Kg	1	☼	6010D	Total/NA
Barium	250		1.2		mg/Kg	1	☼	6010D	Total/NA
Beryllium	6.0		0.48		mg/Kg	1	☼	6010D	Total/NA
Calcium	200000	^2	120		mg/Kg	5	☼	6010D	Total/NA
Chromium	23		1.2		mg/Kg	1	☼	6010D	Total/NA
Copper	2.7		1.2		mg/Kg	1	☼	6010D	Total/NA
Iron	11000		24		mg/Kg	1	☼	6010D	Total/NA
Magnesium	55000	^2	60		mg/Kg	5	☼	6010D	Total/NA
Manganese	4000	^2	6.0		mg/Kg	5	☼	6010D	Total/NA
Nickel	4.9		1.2		mg/Kg	1	☼	6010D	Total/NA
Potassium	1200		60		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.7		1.2		mg/Kg	1	☼	6010D	Total/NA
Sodium	880		120		mg/Kg	1	☼	6010D	Total/NA
Thallium	6.0		6.0		mg/Kg	5	☼	6010D	Total/NA
Vanadium	15	^2	3.0		mg/Kg	5	☼	6010D	Total/NA
Zinc	19		2.4		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	13		1.5		mg/Kg	5	☼	9012B	Total/NA
pH	11.52		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB65 (0-3) — Lab Sample ID: 500-256339-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0039	J	0.0055	0.0010	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.079		0.035	0.0071	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.017	J	0.035	0.0059	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.10		0.035	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.57		0.035	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	1.0		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.3		0.035	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.0		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.44		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB65 (0-3) (Continued) — Lab Sample ID: 500-256339-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.69		0.035	0.0092	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.19		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.78		0.035	0.0081	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.032	J	0.035	0.010	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.90		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.025	J	0.035	0.0063	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.36		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.78		0.035	0.0095	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.014	J	0.070	0.0070	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.043	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.035	J	0.18	0.012	mg/Kg	1	☼	8270E	Total/NA
Aluminum	19000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.4		0.98		mg/Kg	1	☼	6010D	Total/NA
Barium	260		4.9		mg/Kg	5	☼	6010D	Total/NA
Beryllium	5.5		0.39		mg/Kg	1	☼	6010D	Total/NA
Calcium	210000	^2	98		mg/Kg	5	☼	6010D	Total/NA
Chromium	20		0.98		mg/Kg	1	☼	6010D	Total/NA
Copper	12		0.98		mg/Kg	1	☼	6010D	Total/NA
Iron	23000		19		mg/Kg	1	☼	6010D	Total/NA
Lead	31		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	54000	^2	49		mg/Kg	5	☼	6010D	Total/NA
Manganese	3400	^2	4.9		mg/Kg	5	☼	6010D	Total/NA
Nickel	78		0.98		mg/Kg	1	☼	6010D	Total/NA
Potassium	1600		49		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.1		0.98		mg/Kg	1	☼	6010D	Total/NA
Sodium	950		98		mg/Kg	1	☼	6010D	Total/NA
Thallium	5.6		4.9		mg/Kg	5	☼	6010D	Total/NA
Vanadium	19	^2	2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	65		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	1.7		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.57		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB65 (7.5-10) — Lab Sample ID: 500-256339-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0073		0.0056	0.0025	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.012	J	0.022	0.0094	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0059		0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00077	J	0.0022	0.00045	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.031	J	0.071	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.017	J	0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.040	J	0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.26		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.42		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.53		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.41		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.22		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.34		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.11		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.34		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.39		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB65 (7.5-10) (Continued)
Lab Sample ID: 500-256339-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.15		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.34		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Diethyl phthalate	0.050	J B	0.36	0.033	mg/Kg	2	☼	8270E	Total/NA
Aluminum	12000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	13		5.1		mg/Kg	5	☼	6010D	Total/NA
Barium	150		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.5		2.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	120000	^2	100		mg/Kg	5	☼	6010D	Total/NA
Chromium	130		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	13		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	61		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	46000	^2	19		mg/Kg	1	☼	6010D	Total/NA
Lead	43		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	34000	^2	51		mg/Kg	5	☼	6010D	Total/NA
Manganese	3800	^2	5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	2200		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	960		51		mg/Kg	1	☼	6010D	Total/NA
Sodium	700		510		mg/Kg	5	☼	6010D	Total/NA
Thallium	7.0		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	38	^2	2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	75		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.065		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.7		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.60		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB66 (0-3)
Lab Sample ID: 500-256339-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0034	J	0.0053	0.00098	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.25		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.23		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.7		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	3.8		0.072	0.070	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	3.8		0.072	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	3.5		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.7		0.072	0.028	mg/Kg	2	☼	8270E	Total/NA
Chrysene	2.1		0.072	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.58		0.072	0.072	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	2.2		0.072	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.078		0.072	0.022	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	3.2		0.072	0.071	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.041	J	0.072	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.99		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	2.3		0.072	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.019	J	0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.16	J	0.37	0.029	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.044	J	0.37	0.026	mg/Kg	2	☼	8270E	Total/NA
Diethyl phthalate	0.047	J B	0.37	0.033	mg/Kg	2	☼	8270E	Total/NA
Aluminum	19000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.5		0.99		mg/Kg	1	☼	6010D	Total/NA
Barium	170		0.99		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB66 (0-3) (Continued)
Lab Sample ID: 500-256339-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	5.5		0.40		mg/Kg	1	☼	6010D	Total/NA
Calcium	210000	B	99		mg/Kg	5	☼	6010D	Total/NA
Chromium	15		0.99		mg/Kg	1	☼	6010D	Total/NA
Copper	13		0.99		mg/Kg	1	☼	6010D	Total/NA
Iron	20000	B	99		mg/Kg	5	☼	6010D	Total/NA
Lead	21		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	35000		9.9		mg/Kg	1	☼	6010D	Total/NA
Manganese	1800	B	0.99		mg/Kg	1	☼	6010D	Total/NA
Nickel	4.1		0.99		mg/Kg	1	☼	6010D	Total/NA
Potassium	1400		49		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.8		0.99		mg/Kg	1	☼	6010D	Total/NA
Sodium	870		99		mg/Kg	1	☼	6010D	Total/NA
Thallium	3.0		0.99		mg/Kg	1	☼	6010D	Total/NA
Vanadium	13		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	68		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	2.1		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.13		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB66 (5-7.5)
Lab Sample ID: 500-256339-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0037	J	0.0066	0.0012	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.055	J	0.071	0.014	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.12		0.071	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.51		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.74		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.89		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.69		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.36		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.56		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.14		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.87		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.025	J	0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.62		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.017	J	0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.45		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.75		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	1.1		0.36	0.28	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.053	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.032	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Diethyl phthalate	0.045	J B	0.36	0.032	mg/Kg	2	☼	8270E	Total/NA
Aluminum	18000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.7		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	200		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	6.0		0.43		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.26		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	200000	B	110		mg/Kg	5	☼	6010D	Total/NA
Chromium	21		1.1		mg/Kg	1	☼	6010D	Total/NA
Copper	11		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	24000	B	110		mg/Kg	5	☼	6010D	Total/NA
Lead	34		2.7		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB66 (5-7.5) (Continued) — Lab Sample ID: 500-256339-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	31000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	2100	B	1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	10		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1500		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	860		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	3.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	19		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	120		2.1		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	2.4		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	8.85		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB67 (0-3) — Lab Sample ID: 500-256339-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0034	J	0.0054	0.0024	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0046	J	0.0054	0.00099	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.028	J	0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.018	J	0.069	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.080		0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.46		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.65		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.82		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.60		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.35		0.069	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.52		0.069	0.018	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.14		0.069	0.069	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.79		0.069	0.016	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.024	J	0.069	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.57		0.069	0.068	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.29		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.70		0.069	0.019	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.043	J	0.35	0.028	mg/Kg	2	☼	8270E	Total/NA
Diethyl phthalate	0.036	J B	0.35	0.032	mg/Kg	2	☼	8270E	Total/NA
Aluminum	14000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.1		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	160		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.9		0.41		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.74		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	110000	B	100		mg/Kg	5	☼	6010D	Total/NA
Chromium	56		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.7		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	140		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	40000	B	100		mg/Kg	5	☼	6010D	Total/NA
Lead	120		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	11000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	2900	B	5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	22		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1400		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	510		100		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB67 (0-3) (Continued)
Lab Sample ID: 500-256339-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	6.9		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	30		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	240		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.028		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	4.9		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	8.97		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB67 (3-5)
Lab Sample ID: 500-256339-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.033	J	0.047	0.022	mg/Kg	50	☼	8260D	Total/NA
Acenaphthene	0.030	J	0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.0098	J	0.036	0.0062	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.032	J	0.036	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.23		0.036	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.39		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.52		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.39		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.20		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.29		0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.088		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.35		0.036	0.0085	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.013	J	0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.37		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.026	J	0.036	0.0066	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.16		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.34		0.036	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.012	J	0.074	0.0073	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.019	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Diethyl phthalate	0.031	J B	0.18	0.017	mg/Kg	1	☼	8270E	Total/NA
Aluminum	14000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	10		4.8		mg/Kg	5	☼	6010D	Total/NA
Barium	120		0.96		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.6		1.9		mg/Kg	5	☼	6010D	Total/NA
Calcium	99000	B	96		mg/Kg	5	☼	6010D	Total/NA
Chromium	44		0.96		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.4		2.4		mg/Kg	5	☼	6010D	Total/NA
Copper	66		4.8		mg/Kg	5	☼	6010D	Total/NA
Iron	80000	B	96		mg/Kg	5	☼	6010D	Total/NA
Lead	120		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	17000		9.6		mg/Kg	1	☼	6010D	Total/NA
Manganese	1300	B	0.96		mg/Kg	1	☼	6010D	Total/NA
Nickel	29		4.8		mg/Kg	5	☼	6010D	Total/NA
Potassium	1600		48		mg/Kg	1	☼	6010D	Total/NA
Sodium	1000		480		mg/Kg	5	☼	6010D	Total/NA
Vanadium	18		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	430		1.9		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	5.0		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.27		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256339-1	SB56 (0-3)	Solid	09/06/24 09:42	09/09/24 10:16
500-256339-2	SB56 (5-7.5)	Solid	09/06/24 09:50	09/09/24 10:16
500-256339-3	SB57 (0-3)	Solid	09/06/24 10:17	09/09/24 10:16
500-256339-4	SB57 (7.5-10)	Solid	09/06/24 10:20	09/09/24 10:16
500-256339-5	SB58 (0-3)	Solid	09/06/24 11:22	09/09/24 10:16
500-256339-6	SB58 (10-12.5)	Solid	09/06/24 11:36	09/09/24 10:16
500-256339-7	SB59 (0-3)	Solid	09/06/24 12:07	09/09/24 10:16
500-256339-8	SB59 (5-7.5)	Solid	09/06/24 12:17	09/09/24 10:16
500-256339-9	SB60 (0-3)	Solid	09/06/24 13:36	09/09/24 10:16
500-256339-10	SB60 (7.5-10)	Solid	09/06/24 13:42	09/09/24 10:16
500-256339-11	SB61 (0-3)	Solid	09/06/24 08:37	09/09/24 10:16
500-256339-12	SB61 (12.5-15)	Solid	09/06/24 08:55	09/09/24 10:16
500-256339-13	SB61 (17.5-19)	Solid	09/06/24 09:15	09/09/24 10:16
500-256339-14	SB62 (0-3)	Solid	09/06/24 09:41	09/09/24 10:16
500-256339-15	SB62 (7.5-10)	Solid	09/06/24 09:52	09/09/24 10:16
500-256339-16	SB63 (0-3)	Solid	09/06/24 10:32	09/09/24 10:16
500-256339-17	SB63 (5-7.5)	Solid	09/06/24 10:45	09/09/24 10:16
500-256339-18	SB64 (0-3)	Solid	09/06/24 11:57	09/09/24 10:16
500-256339-19	SB64 (7.5-10)	Solid	09/06/24 12:18	09/09/24 10:16
500-256339-20	SB65 (0-3)	Solid	09/06/24 13:14	09/09/24 10:16
500-256339-21	SB65 (7.5-10)	Solid	09/06/24 13:25	09/09/24 10:16
500-256339-22	SB66 (0-3)	Solid	09/06/24 14:08	09/09/24 10:16
500-256339-23	SB66 (5-7.5)	Solid	09/06/24 14:18	09/09/24 10:16
500-256339-24	SB67 (0-3)	Solid	09/06/24 14:55	09/09/24 10:16
500-256339-25	SB67 (3-5)	Solid	09/06/24 15:00	09/09/24 10:16

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB56 (0-3)
Lab Sample ID: 500-256339-1
Date Collected: 09/06/24 09:42
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 89.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0025	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
1,1,2-Trichloroethane	<0.00095		0.0025	0.00095	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
1,1-Dichloroethane	<0.00095		0.0025	0.00095	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
1,2-Dichloroethane	<0.0016		0.0063	0.0016	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
1,2-Dichloropropane	<0.00065		0.0025	0.00065	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
2-Butanone (MEK)	**0.0055**	**J**	0.0063	0.0028	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
2-Hexanone	<0.0038		0.0063	0.0038	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0063	0.0045	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Acetone	**0.030**		0.025	0.011	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Benzene	**0.0015**	**J**	0.0025	0.00079	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Bromodichloromethane	<0.00081		0.0025	0.00081	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Bromoform	<0.0015		0.0025	0.0015	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Bromomethane	<0.0031		0.0063	0.0031	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Carbon disulfide	**0.0019**	**J**	0.0063	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Carbon tetrachloride	<0.00086		0.0025	0.00086	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Chlorobenzene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Chloroethane	<0.0021		0.0063	0.0021	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Chloromethane	<0.0012		0.0063	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
cis-1,2-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Dibromochloromethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Methyl tert-butyl ether	<0.00082		0.0025	0.00082	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Methylene Chloride	<0.0027		0.0063	0.0027	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Styrene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Toluene	**0.0020**	**J**	0.0025	0.00051	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Xylenes, Total	**0.00091**	**J**	0.0051	0.00087	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
trans-1,2-Dichloroethene	<0.00095		0.0025	0.00095	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Trichloroethene	<0.00069		0.0025	0.00069	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*09/06/24 16:49*	*09/13/24 05:33*	*1*
4-Bromofluorobenzene (Surr)	*126*		*75 - 131*	*09/06/24 16:49*	*09/13/24 05:33*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*09/06/24 16:49*	*09/13/24 05:33*	*1*
Toluene-d8 (Surr)	*116*		*75 - 124*	*09/06/24 16:49*	*09/13/24 05:33*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.037	0.0075	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Acenaphthylene	**0.011**	**J**	0.037	0.0062	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Anthracene	**0.0083**	**J**	0.037	0.0075	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Benzo[a]anthracene	**0.054**		0.037	0.0078	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Benzo[a]pyrene	**0.044**		0.037	0.035	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Benzo[b]fluoranthene	**0.089**		0.037	0.035	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Benzo[g,h,i]perylene	**0.042**		0.037	0.0080	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB56 (0-3)
Lab Sample ID: 500-256339-1
Date Collected: 09/06/24 09:42
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 89.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.031**	**J**	0.037	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Chrysene	**0.067**		0.037	0.0097	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Fluoranthene	**0.092**		0.037	0.0085	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Fluorene	<0.011		0.037	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Indeno[1,2,3-cd]pyrene	**0.039**		0.037	0.036	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Naphthalene	**0.018**	**J**	0.037	0.0066	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Phenanthrene	**0.13**		0.037	0.0080	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Pyrene	**0.078**		0.037	0.010	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
1,3-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2,4-Dimethylphenol	<0.082		0.37	0.082	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2,6-Dinitrotoluene	<0.013		0.18	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2-Methylnaphthalene	**0.025**	**J**	0.074	0.0074	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
4-Chloro-3-methylphenol	<0.014		0.37	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
4-Chloroaniline	<0.39		0.74	0.39	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
4-Nitroaniline	<0.027		0.37	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Dimethyl phthalate	<0.0080		0.18	0.0080	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1

Client Sample ID: SB56 (0-3)
Lab Sample ID: 500-256339-1
Date Collected: 09/06/24 09:42
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 89.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
N-Nitrosodi-n-propylamine	<0.0072		0.074	0.0072	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Pentachlorophenol	<0.092		0.74	0.092	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*53*		*31 - 166*	*09/19/24 07:59*	*09/20/24 12:14*	*1*
Phenol-d5 (Surr)	*56*		*30 - 153*	*09/19/24 07:59*	*09/20/24 12:14*	*1*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/19/24 07:59*	*09/20/24 12:14*	*1*
2-Fluorobiphenyl (Surr)	*63*		*43 - 145*	*09/19/24 07:59*	*09/20/24 12:14*	*1*
2,4,6-Tribromophenol (Surr)	*27*	*S1-*	*31 - 143*	*09/19/24 07:59*	*09/20/24 12:14*	*1*
Terphenyl-d14 (Surr)	*64*		*42 - 157*	*09/19/24 07:59*	*09/20/24 12:14*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0098		0.018	0.0098	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
4,4'-DDE	<0.0094		0.018	0.0094	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
4,4'-DDT	<0.0087		0.018	0.0087	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
alpha-Chlordane	<0.0098		0.018	0.0098	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
delta-BHC	<0.0087		0.018	0.0087	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Dieldrin	<0.0096		0.018	0.0096	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Endosulfan I	<0.0099		0.018	0.0099	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Endosulfan II	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Endrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Endrin ketone	<0.0089		0.018	0.0089	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
gamma-BHC (Lindane)	<0.0091		0.018	0.0091	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
gamma-Chlordane	<0.011		0.018	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Heptachlor	<0.0099		0.018	0.0099	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Heptachlor epoxide	<0.0098		0.018	0.0098	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Methoxychlor	<0.012		0.090	0.012	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10
Toxaphene	<0.073		0.18	0.073	mg/Kg	☼	09/18/24 07:16	09/25/24 18:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*33 - 148*	*09/18/24 07:16*	*09/25/24 18:54*	*10*
Tetrachloro-m-xylene	*28*	*S1-*	*30 - 121*	*09/18/24 07:16*	*09/25/24 18:54*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 17:01	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 17:01	10

Client Sample ID: SB56 (0-3)
Date Collected: 09/06/24 09:42
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-1
Matrix: Solid
Percent Solids: 89.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 17:01	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 17:01	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 17:01	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 17:01	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 17:01	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 17:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*49 - 129*	*09/18/24 07:16*	*09/26/24 17:01*	*10*
DCB Decachlorobiphenyl	*96*		*37 - 121*	*09/18/24 07:16*	*09/26/24 17:01*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7000**		21		mg/Kg	☼	09/19/24 15:54	09/20/24 17:28	1
Antimony	<2.1	F1 F2	2.1		mg/Kg	☼	09/19/24 15:54	09/20/24 17:28	1
Arsenic	**15**		5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Barium	**110**	**F1**	1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 17:28	1
Beryllium	**2.4**		2.1		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Cadmium	<1.1		1.1		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Calcium	**53000**		110		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Chromium	**320**		5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Cobalt	**13**		2.7		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Copper	**100**		5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Iron	**260000**		110		mg/Kg	☼	09/24/24 18:31	09/28/24 02:10	5
Lead	**88**	**F2**	2.7		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Magnesium	**12000**	**F2**	11		mg/Kg	☼	09/19/24 15:54	09/20/24 17:28	1
Manganese	**2800**	**^2**	5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Nickel	**200**	**F1**	5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Potassium	**310**		53		mg/Kg	☼	09/19/24 15:54	09/20/24 17:28	1
Selenium	<5.3	F1	5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Silver	<2.7		2.7		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Sodium	**580**		530		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Thallium	**6.7**	**F1**	5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Vanadium	**27**		2.7		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5
Zinc	**160**	**F1 F2**	11		mg/Kg	☼	09/19/24 15:54	09/23/24 16:42	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**		0.017		mg/Kg	☼	09/25/24 17:15	09/26/24 08:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.47**		0.25		mg/Kg	☼	09/15/24 11:20	09/16/24 13:49	1
pH (SW846 9045D)	**9.89**		0.20		SU			09/12/24 12:12	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB56 (5-7.5)
Lab Sample ID: 500-256339-2
Date Collected: 09/06/24 09:50
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.033		0.073	0.033	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
1,1,2,2-Tetrachloroethane	<0.047		0.073	0.047	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
1,1,2-Trichloroethane	<0.054		0.073	0.054	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
1,1-Dichloroethane	<0.027		0.073	0.027	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
1,1-Dichloroethene	<0.035		0.073	0.035	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
1,2-Dichloroethane	<0.042		0.073	0.042	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
1,2-Dichloropropane	<0.027		0.073	0.027	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
2-Butanone (MEK)	<0.23		0.37	0.23	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
2-Hexanone	<0.21		0.37	0.21	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
4-Methyl-2-pentanone (MIBK)	<0.20		0.37	0.20	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Acetone	<0.53		0.73	0.53	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Benzene	<0.0090		0.018	0.0090	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Bromodichloromethane	<0.042		0.073	0.042	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Bromoform	<0.071		0.073	0.071	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Bromomethane	<0.13		0.22	0.13	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Carbon disulfide	<0.079		0.15	0.079	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Carbon tetrachloride	<0.030		0.073	0.030	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Chlorobenzene	<0.030		0.073	0.030	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Chloroethane	<0.034		0.37	0.034	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Chloroform	<0.067		0.15	0.067	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Chloromethane	<0.058		0.37	0.058	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
cis-1,2-Dichloroethene	<0.030		0.073	0.030	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
1,3-Dichloropropene, Total	<0.046		0.073	0.046	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Dibromochloromethane	<0.061		0.073	0.061	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Ethylbenzene	<0.013		0.018	0.013	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Methyl tert-butyl ether	<0.032		0.073	0.032	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Methylene Chloride	<0.16		0.37	0.16	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Styrene	<0.023		0.073	0.023	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Tetrachloroethene	<0.029		0.073	0.029	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Toluene	**0.034**		0.018	0.015	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Xylenes, Total	**0.045**		0.037	0.017	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
trans-1,2-Dichloroethene	<0.032		0.073	0.032	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Trichloroethene	<0.011		0.037	0.011	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50
Vinyl chloride	<0.034	*+	0.073	0.034	mg/Kg	☼	09/06/24 09:50	09/18/24 17:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*09/06/24 09:50*	*09/18/24 17:38*	*50*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*09/06/24 09:50*	*09/18/24 17:38*	*50*
Dibromofluoromethane	*94*		*75 - 120*	*09/06/24 09:50*	*09/18/24 17:38*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*09/06/24 09:50*	*09/18/24 17:38*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0079		0.039	0.0079	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Acenaphthylene	**0.014**	**J**	0.039	0.0066	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Anthracene	**0.025**	**J**	0.039	0.0080	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Benzo[a]anthracene	**0.10**		0.039	0.0083	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Benzo[a]pyrene	**0.051**		0.039	0.038	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Benzo[b]fluoranthene	**0.10**		0.039	0.037	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Benzo[g,h,i]perylene	**0.054**		0.039	0.0085	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB56 (5-7.5)
Lab Sample ID: 500-256339-2
Date Collected: 09/06/24 09:50
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 85.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.026**	**J**	0.039	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Chrysene	**0.12**		0.039	0.010	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Fluoranthene	**0.18**		0.039	0.0091	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Fluorene	<0.012		0.039	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Indeno[1,2,3-cd]pyrene	<0.038		0.039	0.038	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Naphthalene	**0.035**	**J**	0.039	0.0071	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Phenanthrene	**0.99**		0.039	0.0085	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Pyrene	**0.14**		0.039	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
1,2,4-Trichlorobenzene	<0.028		0.20	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
1,2-Dichlorobenzene	<0.016		0.20	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
1,3-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
1,4-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2,4,5-Trichlorophenol	<0.015		0.39	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2,4,6-Trichlorophenol	<0.013		0.39	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2,4-Dichlorophenol	<0.014		0.39	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2,4-Dimethylphenol	<0.087		0.39	0.087	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2,4-Dinitrophenol	<0.23		0.79	0.23	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2,4-Dinitrotoluene	<0.022		0.20	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2,6-Dinitrotoluene	<0.013		0.20	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2-Chloronaphthalene	<0.015		0.20	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2-Chlorophenol	<0.013		0.20	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2-Methylnaphthalene	**0.074**	**J**	0.079	0.0078	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2-Methylphenol	<0.021		0.20	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2-Nitroaniline	<0.021		0.20	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
2-Nitrophenol	<0.026		0.39	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
3,3'-Dichlorobenzidine	<0.032		0.20	0.032	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
3 & 4 Methylphenol	<0.029		0.20	0.029	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
3-Nitroaniline	<0.018		0.39	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
4,6-Dinitro-2-methylphenol	<0.22		0.79	0.22	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
4-Bromophenyl phenyl ether	<0.027		0.20	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
4-Chloro-3-methylphenol	<0.015		0.39	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
4-Chloroaniline	<0.41		0.79	0.41	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
4-Chlorophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
4-Nitroaniline	<0.029		0.39	0.029	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
4-Nitrophenol	<0.14		0.79	0.14	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Bis(2-chloroethoxy)methane	<0.015		0.20	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Bis(2-chloroethyl)ether	<0.018		0.20	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
bis(chloroisopropyl) ether	<0.028		0.20	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Bis(2-ethylhexyl) phthalate	<0.15		0.20	0.15	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Butyl benzyl phthalate	<0.019		0.20	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Carbazole	<0.015		0.20	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Dibenzofuran	**0.029**	**J**	0.20	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Diethyl phthalate	<0.018		0.20	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Dimethyl phthalate	<0.0085		0.20	0.0085	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Di-n-butyl phthalate	<0.012		0.20	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Di-n-octyl phthalate	<0.27		0.39	0.27	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Hexachlorobenzene	<0.0075		0.079	0.0075	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Hexachlorobutadiene	<0.022		0.20	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB56 (5-7.5)
Lab Sample ID: 500-256339-2
Date Collected: 09/06/24 09:50
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 85.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.41		0.79	0.41	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Hexachloroethane	<0.020		0.20	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Isophorone	<0.020		0.20	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Nitrobenzene	<0.012		0.039	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
N-Nitrosodi-n-propylamine	<0.0077		0.079	0.0077	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
N-Nitrosodiphenylamine	<0.023		0.20	0.023	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Pentachlorophenol	<0.098		0.79	0.098	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1
Phenol	<0.017		0.20	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*53*		*31 - 166*	*09/19/24 07:59*	*09/20/24 12:38*	*1*
Phenol-d5 (Surr)	*60*		*30 - 153*	*09/19/24 07:59*	*09/20/24 12:38*	*1*
Nitrobenzene-d5 (Surr)	*58*		*37 - 147*	*09/19/24 07:59*	*09/20/24 12:38*	*1*
2-Fluorobiphenyl (Surr)	*61*		*43 - 145*	*09/19/24 07:59*	*09/20/24 12:38*	*1*
2,4,6-Tribromophenol (Surr)	*61*		*31 - 143*	*09/19/24 07:59*	*09/20/24 12:38*	*1*
Terphenyl-d14 (Surr)	*71*		*42 - 157*	*09/19/24 07:59*	*09/20/24 12:38*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
4,4'-DDT	<0.0092		0.020	0.0092	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Aldrin	<0.013		0.020	0.013	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
alpha-Chlordane	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Chlordane (technical)	<0.037		0.077	0.037	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
delta-BHC	<0.0093		0.020	0.0093	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Endosulfan I	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Endrin	<0.0099		0.020	0.0099	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Endrin aldehyde	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Endrin ketone	<0.0094		0.020	0.0094	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
gamma-BHC (Lindane)	<0.0097		0.020	0.0097	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
gamma-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Heptachlor	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Heptachlor epoxide	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Methoxychlor	<0.013		0.095	0.013	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10
Toxaphene	<0.077		0.19	0.077	mg/Kg	☼	09/18/24 07:16	09/25/24 19:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*130*		*33 - 148*	*09/18/24 07:16*	*09/25/24 19:05*	*10*
Tetrachloro-m-xylene	*17*	*S1-*	*30 - 121*	*09/18/24 07:16*	*09/25/24 19:05*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:16	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:16	10

Client Sample ID: SB56 (5-7.5)
Lab Sample ID: 500-256339-2
Date Collected: 09/06/24 09:50
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 85.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:16	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:16	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:16	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:16	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:16	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*49 - 129*	*09/18/24 07:16*	*09/26/24 17:16*	*10*
DCB Decachlorobiphenyl	*77*		*37 - 121*	*09/18/24 07:16*	*09/26/24 17:16*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4100**		21		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Antimony	<2.1		2.1		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Arsenic	**7.2**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Barium	**34**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Beryllium	**1.2**		0.41		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Cadmium	**0.45**		0.21		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Calcium	**35000**		21		mg/Kg	☼	09/19/24 15:54	09/23/24 17:04	1
Chromium	**30**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Cobalt	**4.9**		0.51		mg/Kg	☼	09/19/24 15:54	09/23/24 17:04	1
Copper	**14**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Iron	**54000**		23		mg/Kg	☼	09/24/24 18:31	09/28/24 02:32	1
Lead	**21**		0.51		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Magnesium	**13000**		10		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Manganese	**1900**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Nickel	**23**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Potassium	**560**		51		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Selenium	**1.5**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Silver	<0.51		0.51		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Sodium	**340**		100		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Thallium	**2.8**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 17:50	1
Vanadium	**38**		0.51		mg/Kg	☼	09/19/24 15:54	09/23/24 17:04	1
Zinc	**120**		2.1		mg/Kg	☼	09/19/24 15:54	09/23/24 17:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.019		mg/Kg	☼	09/25/24 17:15	09/26/24 08:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.47**		0.28		mg/Kg	☼	09/15/24 11:20	09/16/24 13:51	1
pH (SW846 9045D)	**8.99**		0.20		SU			09/12/24 12:15	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB57 (0-3)
Lab Sample ID: 500-256339-3
Date Collected: 09/06/24 10:17
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 91.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0028	0.0014	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
1,1,2-Trichloroethane	<0.0010		0.0028	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
1,1-Dichloroethane	<0.0010		0.0028	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
1,1-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
1,2-Dichloroethane	<0.0018		0.0070	0.0018	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
1,2-Dichloropropane	<0.00072		0.0028	0.00072	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
2-Butanone (MEK)	<0.0031		0.0070	0.0031	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
2-Hexanone	<0.0042		0.0070	0.0042	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0070	0.0049	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Acetone	<0.012		0.028	0.012	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Benzene	**0.0011**	**J**	0.0028	0.00087	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Bromodichloromethane	<0.00089		0.0028	0.00089	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Bromoform	<0.0016		0.0028	0.0016	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Bromomethane	<0.0034		0.0070	0.0034	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Carbon disulfide	**0.0055**	**J**	0.0070	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Carbon tetrachloride	<0.00095		0.0028	0.00095	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Chlorobenzene	<0.0012		0.0028	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Chloroethane	<0.0023		0.0070	0.0023	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Chloroform	<0.0020		0.0028	0.0020	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Chloromethane	<0.0013		0.0070	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
cis-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
1,3-Dichloropropene, Total	<0.0013		0.0028	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Dibromochloromethane	<0.0013		0.0028	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Ethylbenzene	<0.0015		0.0028	0.0015	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Methyl tert-butyl ether	<0.00090		0.0028	0.00090	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Methylene Chloride	<0.0030		0.0070	0.0030	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Styrene	<0.0013		0.0028	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Tetrachloroethene	<0.0016		0.0028	0.0016	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Toluene	**0.0017**	**J**	0.0028	0.00056	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Xylenes, Total	**0.00098**	**J**	0.0056	0.00095	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
trans-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Trichloroethene	<0.00076		0.0028	0.00076	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1
Vinyl chloride	<0.0011		0.0028	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*09/06/24 16:49*	*09/16/24 14:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*	*09/06/24 16:49*	*09/16/24 14:20*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/06/24 16:49*	*09/16/24 14:20*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*09/06/24 16:49*	*09/16/24 14:20*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.035	0.0072	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Acenaphthylene	**0.020**	**J**	0.035	0.0060	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Anthracene	**0.025**	**J**	0.035	0.0072	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Benzo[a]anthracene	**0.21**		0.035	0.0075	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Benzo[a]pyrene	**0.26**		0.035	0.034	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Benzo[b]fluoranthene	**0.45**		0.035	0.034	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Benzo[g,h,i]perylene	**0.24**		0.035	0.0077	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB57 (0-3)
Lab Sample ID: 500-256339-3
Date Collected: 09/06/24 10:17
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 91.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.12**		0.035	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Chrysene	**0.24**		0.035	0.0093	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Dibenz(a,h)anthracene	**0.078**		0.035	0.035	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Fluoranthene	**0.33**		0.035	0.0082	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Indeno[1,2,3-cd]pyrene	**0.24**		0.035	0.034	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Naphthalene	<0.0064		0.035	0.0064	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Phenanthrene	**0.078**		0.035	0.0077	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Pyrene	**0.29**		0.035	0.0097	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2,4-Dimethylphenol	<0.079		0.35	0.079	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2,4-Dinitrophenol	<0.20		0.71	0.20	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2-Methylnaphthalene	<0.0071		0.071	0.0071	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
4,6-Dinitro-2-methylphenol	<0.20		0.71	0.20	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
4-Chloroaniline	<0.37		0.71	0.37	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
4-Nitrophenol	<0.13		0.71	0.13	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Hexachlorobenzene	<0.0068		0.071	0.0068	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1

Client Sample ID: SB57 (0-3)
Lab Sample ID: 500-256339-3
Date Collected: 09/06/24 10:17
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 91.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.71	0.38	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
N-Nitrosodi-n-propylamine	<0.0070		0.071	0.0070	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Pentachlorophenol	<0.088		0.71	0.088	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*31 - 166*	*09/19/24 07:59*	*09/20/24 13:03*	*1*
Phenol-d5 (Surr)	*51*		*30 - 153*	*09/19/24 07:59*	*09/20/24 13:03*	*1*
Nitrobenzene-d5 (Surr)	*50*		*37 - 147*	*09/19/24 07:59*	*09/20/24 13:03*	*1*
2-Fluorobiphenyl (Surr)	*49*		*43 - 145*	*09/19/24 07:59*	*09/20/24 13:03*	*1*
2,4,6-Tribromophenol (Surr)	*34*		*31 - 143*	*09/19/24 07:59*	*09/20/24 13:03*	*1*
Terphenyl-d14 (Surr)	*83*		*42 - 157*	*09/19/24 07:59*	*09/20/24 13:03*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/18/24 07:16	09/26/24 15:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*182*	*S1+*	*33 - 148*	*09/18/24 07:16*	*09/26/24 15:18*	*10*
Tetrachloro-m-xylene	*66*		*30 - 121*	*09/18/24 07:16*	*09/26/24 15:18*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 17:32	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 17:32	10

Client Sample ID: SB57 (0-3)
Lab Sample ID: 500-256339-3
Date Collected: 09/06/24 10:17
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 91.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 17:32	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 17:32	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 17:32	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 17:32	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 17:32	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 17:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*49 - 129*	*09/18/24 07:16*	*09/26/24 17:32*	*10*
DCB Decachlorobiphenyl	*69*		*37 - 121*	*09/18/24 07:16*	*09/26/24 17:32*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22000**		21		mg/Kg	☼	09/19/24 15:54	09/20/24 17:54	1
Antimony	<10		10		mg/Kg	☼	09/19/24 15:54	09/23/24 17:17	5
Arsenic	**6.9**		5.1		mg/Kg	☼	09/19/24 15:54	09/23/24 17:17	5
Barium	**250**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 17:54	1
Beryllium	**5.2**		0.41		mg/Kg	☼	09/19/24 15:54	09/20/24 17:54	1
Cadmium	**0.42**		0.21		mg/Kg	☼	09/19/24 15:54	09/20/24 17:54	1
Calcium	**220000**		100		mg/Kg	☼	09/19/24 15:54	09/23/24 17:17	5
Chromium	**2500**		21		mg/Kg	☼	09/19/24 15:54	09/23/24 17:22	20
Cobalt	**2.8**		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:17	5
Copper	**79**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 17:54	1
Iron	**35000**		20		mg/Kg	☼	09/24/24 18:31	09/28/24 02:45	1
Lead	**48**		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:17	5
Magnesium	**32000**		10		mg/Kg	☼	09/19/24 15:54	09/20/24 17:54	1
Manganese	**20000**	**^2**	5.1		mg/Kg	☼	09/19/24 15:54	09/23/24 17:17	5
Nickel	**49**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 17:54	1
Potassium	**1000**		51		mg/Kg	☼	09/19/24 15:54	09/20/24 17:54	1
Selenium	**8.5**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 17:54	1
Silver	<2.6		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:17	5
Sodium	**700**		100		mg/Kg	☼	09/19/24 15:54	09/20/24 17:54	1
Thallium	**59**		21		mg/Kg	☼	09/19/24 15:54	09/23/24 17:22	20
Vanadium	**440**		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:17	5
Zinc	**100**		10		mg/Kg	☼	09/19/24 15:54	09/23/24 17:17	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/25/24 17:15	09/26/24 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.77**	**F1**	0.25		mg/Kg	☼	09/15/24 11:20	09/16/24 13:52	1
pH (SW846 9045D)	**10.17**		0.20		SU			09/12/24 12:17	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB57 (7.5-10)
Lab Sample ID: 500-256339-4
Date Collected: 09/06/24 10:20
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 87.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0027	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
1,1,2-Trichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
1,1-Dichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
1,1-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
1,2-Dichloroethane	<0.0017		0.0067	0.0017	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
1,2-Dichloropropane	<0.00070		0.0027	0.00070	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
2-Butanone (MEK)	<0.0030		0.0067	0.0030	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
2-Hexanone	<0.0041		0.0067	0.0041	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0067	0.0048	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Acetone	<0.011		0.027	0.011	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Benzene	<0.00085		0.0027	0.00085	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Bromodichloromethane	<0.00087		0.0027	0.00087	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Bromoform	<0.0016		0.0027	0.0016	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Bromomethane	<0.0033		0.0067	0.0033	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Carbon disulfide	**0.0051**	**J**	0.0067	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Carbon tetrachloride	<0.00092		0.0027	0.00092	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Chlorobenzene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Chloroethane	<0.0022		0.0067	0.0022	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Chloroform	<0.0019		0.0027	0.0019	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Chloromethane	<0.0013		0.0067	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
cis-1,2-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
1,3-Dichloropropene, Total	<0.0013		0.0027	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Dibromochloromethane	<0.0013		0.0027	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Ethylbenzene	<0.0014		0.0027	0.0014	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Methyl tert-butyl ether	<0.00087		0.0027	0.00087	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Methylene Chloride	<0.0029		0.0067	0.0029	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Styrene	<0.0012		0.0027	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Tetrachloroethene	<0.0015		0.0027	0.0015	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Toluene	**0.00075**	**J**	0.0027	0.00054	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Xylenes, Total	<0.00093		0.0054	0.00093	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
trans-1,2-Dichloroethene	<0.0010		0.0027	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Trichloroethene	<0.00073		0.0027	0.00073	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1
Vinyl chloride	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 06:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*09/06/24 16:49*	*09/13/24 06:47*	*1*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*75 - 131*	*09/06/24 16:49*	*09/13/24 06:47*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*09/06/24 16:49*	*09/13/24 06:47*	*1*
Toluene-d8 (Surr)	*112*		*75 - 124*	*09/06/24 16:49*	*09/13/24 06:47*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0076		0.037	0.0076	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Acenaphthylene	<0.0063		0.037	0.0063	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Anthracene	<0.0076		0.037	0.0076	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Benzo[a]anthracene	<0.0079		0.037	0.0079	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Benzo[a]pyrene	<0.036		0.037	0.036	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Benzo[b]fluoranthene	<0.035		0.037	0.035	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Benzo[g,h,i]perylene	<0.0081		0.037	0.0081	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB57 (7.5-10)
Lab Sample ID: 500-256339-4
Date Collected: 09/06/24 10:20
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 87.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.014		0.037	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Chrysene	<0.0098		0.037	0.0098	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Fluoranthene	<0.0086		0.037	0.0086	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Fluorene	<0.011		0.037	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Indeno[1,2,3-cd]pyrene	<0.036		0.037	0.036	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Naphthalene	<0.0067		0.037	0.0067	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Phenanthrene	**0.0083**	**J**	0.037	0.0081	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Pyrene	<0.010		0.037	0.010	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2,4-Dimethylphenol	<0.083		0.37	0.083	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2,4-Dinitrophenol	<0.21		0.75	0.21	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2,4-Dinitrotoluene	<0.021		0.19	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2-Methylnaphthalene	<0.0075		0.075	0.0075	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
3,3'-Dichlorobenzidine	<0.030		0.19	0.030	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
3 & 4 Methylphenol	<0.027		0.19	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
4,6-Dinitro-2-methylphenol	<0.21		0.75	0.21	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
4-Bromophenyl phenyl ether	<0.025		0.19	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
4-Chloro-3-methylphenol	<0.014		0.37	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
4-Chloroaniline	<0.39		0.75	0.39	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
4-Chlorophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
4-Nitroaniline	<0.027		0.37	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
4-Nitrophenol	<0.14		0.75	0.14	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Butyl benzyl phthalate	<0.018		0.19	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Dibenzofuran	<0.013		0.19	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Dimethyl phthalate	<0.0081		0.19	0.0081	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Hexachlorobenzene	<0.0071		0.075	0.0071	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB57 (7.5-10)
Lab Sample ID: 500-256339-4
Date Collected: 09/06/24 10:20
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 87.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.75	0.39	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Isophorone	<0.019		0.19	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
N-Nitrosodi-n-propylamine	<0.0073		0.075	0.0073	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Pentachlorophenol	<0.093		0.75	0.093	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1
Phenol	<0.016		0.19	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*40*		*31 - 166*	*09/19/24 07:59*	*09/20/24 13:28*	*1*
Phenol-d5 (Surr)	*44*		*30 - 153*	*09/19/24 07:59*	*09/20/24 13:28*	*1*
Nitrobenzene-d5 (Surr)	*47*		*37 - 147*	*09/19/24 07:59*	*09/20/24 13:28*	*1*
2-Fluorobiphenyl (Surr)	*45*		*43 - 145*	*09/19/24 07:59*	*09/20/24 13:28*	*1*
2,4,6-Tribromophenol (Surr)	*40*		*31 - 143*	*09/19/24 07:59*	*09/20/24 13:28*	*1*
Terphenyl-d14 (Surr)	*56*		*42 - 157*	*09/19/24 07:59*	*09/20/24 13:28*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
4,4'-DDE	<0.0098		0.019	0.0098	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
4,4'-DDT	<0.0090		0.019	0.0090	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Chlordane (technical)	<0.036		0.076	0.036	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
delta-BHC	<0.0091		0.019	0.0091	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Dieldrin	<0.0099		0.019	0.0099	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Endosulfan sulfate	<0.011		0.019	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Endrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Endrin ketone	<0.0093		0.019	0.0093	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
gamma-BHC (Lindane)	<0.0095		0.019	0.0095	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Methoxychlor	<0.013		0.094	0.013	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10
Toxaphene	<0.076		0.19	0.076	mg/Kg	☼	09/18/24 07:16	09/26/24 15:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*33 - 148*	*09/18/24 07:16*	*09/26/24 15:30*	*10*
Tetrachloro-m-xylene	*80*		*30 - 121*	*09/18/24 07:16*	*09/26/24 15:30*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:47	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:47	10

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Client Sample ID: SB57 (7.5-10)

Date Collected: 09/06/24 10:20
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-4

Matrix: Solid
Percent Solids: 87.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:47	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:47	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:47	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:47	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:47	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 17:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*43*	*S1-*	*49 - 129*	*09/18/24 07:16*	*09/26/24 17:47*	*10*
DCB Decachlorobiphenyl	*53*		*37 - 121*	*09/18/24 07:16*	*09/26/24 17:47*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8900**		21		mg/Kg	☼	09/19/24 15:54	09/20/24 17:59	1
Antimony	<42		42		mg/Kg	☼	09/19/24 15:54	09/23/24 17:31	20
Arsenic	<21		21		mg/Kg	☼	09/19/24 15:54	09/23/24 17:31	20
Barium	**68**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 17:59	1
Beryllium	<8.4		8.4		mg/Kg	☼	09/19/24 15:54	09/23/24 17:31	20
Cadmium	<1.1		1.1		mg/Kg	☼	09/19/24 15:54	09/23/24 17:26	5
Calcium	**28000**		110		mg/Kg	☼	09/19/24 15:54	09/23/24 17:26	5
Chromium	**15**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 17:59	1
Cobalt	**11**		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:26	5
Copper	<21		21		mg/Kg	☼	09/19/24 15:54	09/23/24 17:31	20
Iron	**380000**		210		mg/Kg	☼	09/24/24 18:31	09/28/24 02:50	10
Lead	**25**		11		mg/Kg	☼	09/19/24 15:54	09/23/24 17:31	20
Magnesium	**9700**		11		mg/Kg	☼	09/19/24 15:54	09/20/24 17:59	1
Manganese	**5700**	**^2**	21		mg/Kg	☼	09/19/24 15:54	09/23/24 17:31	20
Nickel	<21		21		mg/Kg	☼	09/19/24 15:54	09/23/24 17:31	20
Potassium	**210**		53		mg/Kg	☼	09/19/24 15:54	09/20/24 17:59	1
Selenium	<5.3		5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 17:26	5
Silver	<2.6		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:26	5
Sodium	<530		530		mg/Kg	☼	09/19/24 15:54	09/23/24 17:26	5
Thallium	<21		21		mg/Kg	☼	09/19/24 15:54	09/23/24 17:31	20
Vanadium	**58**		11		mg/Kg	☼	09/19/24 15:54	09/23/24 17:31	20
Zinc	**39**		11		mg/Kg	☼	09/19/24 15:54	09/23/24 17:26	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/25/24 17:15	09/26/24 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.52**	**F1**	0.24		mg/Kg	☼	09/12/24 10:24	09/16/24 10:17	1
pH (SW846 9045D)	**8.13**		0.20		SU			09/12/24 12:20	1

Client Sample ID: SB58 (0-3)
Date Collected: 09/06/24 11:22
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-5
Matrix: Solid
Percent Solids: 91.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0027	0.0014	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
1,1,2-Trichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
1,1-Dichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
1,1-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
1,2-Dichloroethane	<0.0018		0.0068	0.0018	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
1,2-Dichloropropane	<0.00070		0.0027	0.00070	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
2-Butanone (MEK)	<0.0030		0.0068	0.0030	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
2-Hexanone	<0.0041		0.0068	0.0041	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0068	0.0048	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Acetone	**0.019**	**J**	0.027	0.011	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Benzene	<0.00086		0.0027	0.00086	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Bromodichloromethane	<0.00087		0.0027	0.00087	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Bromoform	<0.0016		0.0027	0.0016	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Bromomethane	<0.0034		0.0068	0.0034	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Carbon disulfide	**0.0050**	**J**	0.0068	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Carbon tetrachloride	<0.00093		0.0027	0.00093	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Chlorobenzene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Chloroethane	<0.0022		0.0068	0.0022	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Chloroform	<0.0020		0.0027	0.0020	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Chloromethane	<0.0013		0.0068	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
cis-1,2-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
1,3-Dichloropropene, Total	<0.0013		0.0027	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Dibromochloromethane	<0.0013		0.0027	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Ethylbenzene	<0.0014		0.0027	0.0014	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Methyl tert-butyl ether	<0.00088		0.0027	0.00088	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Methylene Chloride	<0.0029		0.0068	0.0029	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Styrene	<0.0012		0.0027	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Tetrachloroethene	<0.0015		0.0027	0.0015	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Toluene	<0.00055		0.0027	0.00055	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Xylenes, Total	<0.00093		0.0054	0.00093	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
trans-1,2-Dichloroethene	<0.0010		0.0027	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Trichloroethene	<0.00074		0.0027	0.00074	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1
Vinyl chloride	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*09/06/24 16:49*	*09/13/24 15:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*09/06/24 16:49*	*09/13/24 15:41*	*1*
Dibromofluoromethane	*87*		*75 - 126*	*09/06/24 16:49*	*09/13/24 15:41*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/06/24 16:49*	*09/13/24 15:41*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015	F1	0.071	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Acenaphthylene	**0.023**	**J F1**	0.071	0.012	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Anthracene	<0.015		0.071	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Benzo[a]anthracene	**0.18**		0.071	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Benzo[a]pyrene	**0.18**		0.071	0.069	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Benzo[b]fluoranthene	**0.25**		0.071	0.068	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Benzo[g,h,i]perylene	**0.098**	**F1**	0.071	0.016	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB58 (0-3)
Lab Sample ID: 500-256339-5
Date Collected: 09/06/24 11:22
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 91.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.19**		0.071	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Chrysene	**0.19**		0.071	0.019	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Dibenz(a,h)anthracene	<0.071		0.071	0.071	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Fluoranthene	**0.27**		0.071	0.017	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Fluorene	<0.021	F1	0.071	0.021	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Indeno[1,2,3-cd]pyrene	**0.11**	**F1**	0.071	0.070	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Naphthalene	<0.013	F1	0.071	0.013	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Phenanthrene	**0.060**	**J**	0.071	0.016	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Pyrene	**0.22**		0.071	0.020	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
1,2,4-Trichlorobenzene	<0.051	F1	0.36	0.051	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
1,2-Dichlorobenzene	<0.029	F1	0.36	0.029	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
1,3-Dichlorobenzene	<0.032	F1	0.36	0.032	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
1,4-Dichlorobenzene	<0.034	F1	0.36	0.034	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2,4,5-Trichlorophenol	<0.027	F1 F2	0.71	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2,4,6-Trichlorophenol	<0.024	F1 F2	0.71	0.024	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2,4-Dichlorophenol	<0.025	F1	0.71	0.025	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2,4-Dimethylphenol	<0.16	F1	0.71	0.16	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2,4-Dinitrophenol	<0.41	F1	1.4	0.41	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2,4-Dinitrotoluene	<0.041	F1	0.36	0.041	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2,6-Dinitrotoluene	<0.024	F1	0.36	0.024	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2-Chloronaphthalene	<0.027	F1	0.36	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2-Chlorophenol	<0.023	F1	0.36	0.023	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2-Methylnaphthalene	<0.014	F1	0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2-Methylphenol	<0.038	F1	0.36	0.038	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
2-Nitrophenol	<0.049	F1 F2	0.71	0.049	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
3 & 4 Methylphenol	<0.052	F1	0.36	0.052	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
3-Nitroaniline	<0.033		0.71	0.033	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
4,6-Dinitro-2-methylphenol	<0.40	F1	1.4	0.40	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
4-Bromophenyl phenyl ether	<0.049	F1	0.36	0.049	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
4-Chloro-3-methylphenol	<0.028	F1	0.71	0.028	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
4-Chlorophenyl phenyl ether	<0.094	F1	0.36	0.094	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
4-Nitroaniline	<0.053	F1	0.71	0.053	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
4-Nitrophenol	<0.27	F1 F2	1.4	0.27	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Bis(2-chloroethoxy)methane	<0.027	F1	0.36	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Bis(2-chloroethyl)ether	<0.033	F1 F2	0.36	0.033	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
bis(chloroisopropyl) ether	<0.051	F1	0.36	0.051	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Butyl benzyl phthalate	**0.16**	**J**	0.36	0.036	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Carbazole	<0.028		0.36	0.028	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Dibenzofuran	<0.025	F1	0.36	0.025	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Dimethyl phthalate	<0.016	F1	0.36	0.016	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Hexachlorobutadiene	<0.040	F1	0.36	0.040	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB58 (0-3)
Lab Sample ID: 500-256339-5
Date Collected: 09/06/24 11:22
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 91.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76	F1	1.4	0.76	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Hexachloroethane	<0.036	F1	0.36	0.036	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Isophorone	<0.037	F1	0.36	0.037	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Nitrobenzene	<0.023	F1	0.071	0.023	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
N-Nitrosodi-n-propylamine	<0.014	F1	0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
N-Nitrosodiphenylamine	<0.043	F1	0.36	0.043	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Pentachlorophenol	<0.18	F1	1.4	0.18	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2
Phenol	<0.031	F1	0.36	0.031	mg/Kg	☼	09/19/24 07:59	09/19/24 19:36	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*21*	*S1-*	*31 - 166*	*09/19/24 07:59*	*09/19/24 19:36*	*2*
Phenol-d5 (Surr)	*33*		*30 - 153*	*09/19/24 07:59*	*09/19/24 19:36*	*2*
Nitrobenzene-d5 (Surr)	*34*	*S1-*	*37 - 147*	*09/19/24 07:59*	*09/19/24 19:36*	*2*
2-Fluorobiphenyl (Surr)	*37*	*S1-*	*43 - 145*	*09/19/24 07:59*	*09/19/24 19:36*	*2*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/19/24 07:59*	*09/19/24 19:36*	*2*
Terphenyl-d14 (Surr)	*42*		*42 - 157*	*09/19/24 07:59*	*09/19/24 19:36*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0096		0.018	0.0096	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
4,4'-DDE	<0.0092		0.018	0.0092	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
4,4'-DDT	<0.0085		0.018	0.0085	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
alpha-Chlordane	<0.0096		0.018	0.0096	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
delta-BHC	<0.0086		0.018	0.0086	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Dieldrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Endosulfan I	<0.0097		0.018	0.0097	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Endosulfan II	<0.0098		0.018	0.0098	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Endosulfan sulfate	<0.0099		0.018	0.0099	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Endrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Endrin ketone	<0.0087		0.018	0.0087	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
gamma-BHC (Lindane)	<0.0089		0.018	0.0089	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Heptachlor	<0.0097		0.018	0.0097	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Heptachlor epoxide	<0.0096		0.018	0.0096	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Methoxychlor	<0.012		0.088	0.012	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/18/24 07:16	09/26/24 15:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*33 - 148*	*09/18/24 07:16*	*09/26/24 15:41*	*10*
Tetrachloro-m-xylene	*86*		*30 - 121*	*09/18/24 07:16*	*09/26/24 15:41*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 18:02	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 18:02	10

Client Sample ID: SB58 (0-3)
Lab Sample ID: 500-256339-5

Date Collected: 09/06/24 11:22
Matrix: Solid

Date Received: 09/09/24 10:16
Percent Solids: 91.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 18:02	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 18:02	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 18:02	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 18:02	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 18:02	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 18:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*49 - 129*	*09/18/24 07:16*	*09/26/24 18:02*	*10*
DCB Decachlorobiphenyl	*72*		*37 - 121*	*09/18/24 07:16*	*09/26/24 18:02*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		21		mg/Kg	☼	09/19/24 15:54	09/20/24 18:12	1
Antimony	<2.1		2.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:12	1
Arsenic	**6.4**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:12	1
Barium	**250**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:12	1
Beryllium	**2.9**		0.42		mg/Kg	☼	09/19/24 15:54	09/20/24 18:12	1
Cadmium	**1.2**		0.21		mg/Kg	☼	09/19/24 15:54	09/20/24 18:12	1
Calcium	**130000**		110		mg/Kg	☼	09/19/24 15:54	09/23/24 17:35	5
Chromium	**90**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:12	1
Cobalt	**3.7**		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:35	5
Copper	**44**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:12	1
Iron	**48000**		21		mg/Kg	☼	09/24/24 18:31	09/28/24 02:54	1
Lead	**270**		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:35	5
Magnesium	**19000**	**^2**	53		mg/Kg	☼	09/19/24 15:54	09/23/24 17:35	5
Manganese	**5700**	**^2**	5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 17:35	5
Nickel	**22**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:12	1
Potassium	**1400**		53		mg/Kg	☼	09/19/24 15:54	09/20/24 18:12	1
Selenium	**2.4**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:12	1
Silver	<2.6		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:35	5
Sodium	**880**		110		mg/Kg	☼	09/19/24 15:54	09/20/24 18:12	1
Thallium	**9.5**		5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 17:35	5
Vanadium	**54**		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:35	5
Zinc	**340**		11		mg/Kg	☼	09/19/24 15:54	09/23/24 17:35	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/25/24 17:15	09/26/24 08:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.8**		0.26		mg/Kg	☼	09/12/24 10:24	09/16/24 10:22	1
pH (SW846 9045D)	**11.28**		0.20		SU			09/12/24 12:25	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB58 (10-12.5)
Lab Sample ID: 500-256339-6
Date Collected: 09/06/24 11:36
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 94.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00093		0.0023	0.00093	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
1,1,2-Trichloroethane	<0.00086		0.0023	0.00086	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
1,1-Dichloroethane	<0.00087		0.0023	0.00087	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
1,1-Dichloroethene	<0.00095		0.0023	0.00095	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
1,2-Dichloroethane	<0.0015		0.0058	0.0015	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
1,2-Dichloropropane	<0.00060		0.0023	0.00060	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
2-Butanone (MEK)	<0.0025		0.0058	0.0025	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
2-Hexanone	<0.0035		0.0058	0.0035	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0058	0.0041	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Acetone	<0.0097		0.023	0.0097	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Benzene	<0.00073		0.0023	0.00073	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Bromodichloromethane	<0.00074		0.0023	0.00074	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Bromomethane	<0.0028		0.0058	0.0028	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Carbon disulfide	**0.0032**	**J**	0.0058	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Carbon tetrachloride	<0.00079		0.0023	0.00079	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Chlorobenzene	<0.00097		0.0023	0.00097	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Chloroethane	<0.0019		0.0058	0.0019	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Chloroform	<0.0017		0.0023	0.0017	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Chloromethane	<0.0011		0.0058	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
cis-1,2-Dichloroethene	<0.00093		0.0023	0.00093	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Methyl tert-butyl ether	<0.00074		0.0023	0.00074	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Methylene Chloride	<0.0025		0.0058	0.0025	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Toluene	<0.00046		0.0023	0.00046	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Xylenes, Total	<0.00079		0.0046	0.00079	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
trans-1,2-Dichloroethene	<0.00087		0.0023	0.00087	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Trichloroethene	<0.00063		0.0023	0.00063	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1
Vinyl chloride	<0.00094		0.0023	0.00094	mg/Kg	☼	09/06/24 16:49	09/13/24 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*09/06/24 16:49*	*09/13/24 16:05*	*1*
4-Bromofluorobenzene (Surr)	*115*		*75 - 131*	*09/06/24 16:49*	*09/13/24 16:05*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*09/06/24 16:49*	*09/13/24 16:05*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*09/06/24 16:49*	*09/13/24 16:05*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.014		0.068	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Acenaphthylene	<0.012		0.068	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Anthracene	<0.014		0.068	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Benzo[a]anthracene	<0.014		0.068	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Benzo[a]pyrene	<0.066		0.068	0.066	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Benzo[b]fluoranthene	<0.065		0.068	0.065	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Benzo[g,h,i]perylene	<0.015		0.068	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB58 (10-12.5)
Lab Sample ID: 500-256339-6
Date Collected: 09/06/24 11:36
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 94.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.026		0.068	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Chrysene	<0.018		0.068	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Dibenz(a,h)anthracene	<0.068		0.068	0.068	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Fluoranthene	**0.039**	**J**	0.068	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Fluorene	<0.020		0.068	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Indeno[1,2,3-cd]pyrene	<0.066		0.068	0.066	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Naphthalene	<0.012		0.068	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Phenanthrene	**0.055**	**J**	0.068	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Pyrene	**0.046**	**J**	0.068	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
1,2,4-Trichlorobenzene	<0.049		0.34	0.049	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
1,2-Dichlorobenzene	<0.028		0.34	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
1,3-Dichlorobenzene	<0.031		0.34	0.031	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
1,4-Dichlorobenzene	<0.032		0.34	0.032	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2,4,5-Trichlorophenol	<0.026		0.68	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2,4,6-Trichlorophenol	<0.023		0.68	0.023	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2,4-Dichlorophenol	<0.024		0.68	0.024	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2,4-Dimethylphenol	<0.15		0.68	0.15	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2,4-Dinitrophenol	<0.39		1.4	0.39	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2,4-Dinitrotoluene	<0.039		0.34	0.039	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2,6-Dinitrotoluene	<0.023		0.34	0.023	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2-Chloronaphthalene	<0.025		0.34	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2-Chlorophenol	<0.022		0.34	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2-Methylnaphthalene	<0.014		0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2-Methylphenol	<0.036		0.34	0.036	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2-Nitroaniline	<0.036		0.34	0.036	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
2-Nitrophenol	<0.046		0.68	0.046	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
3,3'-Dichlorobenzidine	<0.056		0.34	0.056	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
3 & 4 Methylphenol	<0.050		0.34	0.050	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
3-Nitroaniline	<0.031		0.68	0.031	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
4,6-Dinitro-2-methylphenol	<0.38		1.4	0.38	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
4-Bromophenyl phenyl ether	<0.047		0.34	0.047	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
4-Chloro-3-methylphenol	<0.026		0.68	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
4-Chloroaniline	<0.71		1.4	0.71	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
4-Chlorophenyl phenyl ether	<0.089		0.34	0.089	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
4-Nitroaniline	<0.050		0.68	0.050	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
4-Nitrophenol	<0.25		1.4	0.25	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Bis(2-chloroethoxy)methane	<0.025		0.34	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Bis(2-chloroethyl)ether	<0.031		0.34	0.031	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
bis(chloroisopropyl) ether	<0.049		0.34	0.049	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Bis(2-ethylhexyl) phthalate	<0.27		0.34	0.27	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Butyl benzyl phthalate	<0.034		0.34	0.034	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Carbazole	<0.027		0.34	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Dibenzofuran	<0.024		0.34	0.024	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Diethyl phthalate	<0.031		0.34	0.031	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Dimethyl phthalate	<0.015		0.34	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Di-n-butyl phthalate	<0.022		0.34	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Di-n-octyl phthalate	<0.48		0.68	0.48	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Hexachlorobutadiene	<0.038		0.34	0.038	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2

Client Sample ID: SB58 (10-12.5)
Date Collected: 09/06/24 11:36
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-6
Matrix: Solid
Percent Solids: 94.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.72		1.4	0.72	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Hexachloroethane	<0.034		0.34	0.034	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Isophorone	<0.035		0.34	0.035	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Nitrobenzene	<0.022		0.068	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
N-Nitrosodi-n-propylamine	<0.013		0.14	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
N-Nitrosodiphenylamine	<0.040		0.34	0.040	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2
Phenol	<0.030		0.34	0.030	mg/Kg	☼	09/19/24 07:59	09/20/24 15:59	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*31 - 166*	*09/19/24 07:59*	*09/20/24 15:59*	*2*
Phenol-d5 (Surr)	*52*		*30 - 153*	*09/19/24 07:59*	*09/20/24 15:59*	*2*
Nitrobenzene-d5 (Surr)	*51*		*37 - 147*	*09/19/24 07:59*	*09/20/24 15:59*	*2*
2-Fluorobiphenyl (Surr)	*58*		*43 - 145*	*09/19/24 07:59*	*09/20/24 15:59*	*2*
2,4,6-Tribromophenol (Surr)	*72*		*31 - 143*	*09/19/24 07:59*	*09/20/24 15:59*	*2*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*09/19/24 07:59*	*09/20/24 15:59*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0091	F1	0.017	0.0091	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
4,4'-DDE	<0.0088	F1	0.017	0.0088	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
4,4'-DDT	<0.0081		0.017	0.0081	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Aldrin	<0.012	F1	0.017	0.012	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
alpha-BHC	<0.0096	F1	0.017	0.0096	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
alpha-Chlordane	<0.0091	F1	0.017	0.0091	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Chlordane (technical)	<0.032		0.068	0.032	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
delta-BHC	<0.0081	F1	0.017	0.0081	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Dieldrin	<0.0089	F1	0.017	0.0089	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Endosulfan I	<0.0092	F1	0.017	0.0092	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Endosulfan II	<0.0093	F1	0.017	0.0093	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Endosulfan sulfate	<0.0094	F1	0.017	0.0094	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Endrin	<0.0087	F1	0.017	0.0087	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Endrin aldehyde	<0.0097	F1	0.017	0.0097	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Endrin ketone	<0.0083	F1	0.017	0.0083	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
gamma-BHC (Lindane)	<0.0085	F1	0.017	0.0085	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
gamma-Chlordane	<0.0098	F1 F2	0.017	0.0098	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Heptachlor	<0.0092	F1	0.017	0.0092	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Heptachlor epoxide	<0.0092	F1 F2	0.017	0.0092	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Methoxychlor	<0.011	F1	0.084	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10
Toxaphene	<0.068		0.17	0.068	mg/Kg	☼	09/18/24 07:16	09/26/24 15:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*313*	*S1+*	*33 - 148*	*09/18/24 07:16*	*09/26/24 15:53*	*10*
Tetrachloro-m-xylene	*64*		*30 - 121*	*09/18/24 07:16*	*09/26/24 15:53*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	F1 F2	0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 18:18	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 18:18	10

Client Sample ID: SB58 (10-12.5)
Lab Sample ID: 500-256339-6
Date Collected: 09/06/24 11:36
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 94.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 18:18	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 18:18	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 18:18	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 18:18	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 18:18	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 18:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*	*S1-*	*49 - 129*	*09/18/24 07:16*	*09/26/24 18:18*	*10*
DCB Decachlorobiphenyl	*130*	*S1+*	*37 - 121*	*09/18/24 07:16*	*09/26/24 18:18*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1900**		20		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Arsenic	**4.5**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Barium	**11**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Beryllium	<0.41		0.41		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Cadmium	<0.20		0.20		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Calcium	**52000**		20		mg/Kg	☼	09/19/24 15:54	09/23/24 17:40	1
Chromium	**4.0**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Cobalt	**3.2**		0.51		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Copper	**9.4**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Iron	**19000**		20		mg/Kg	☼	09/24/24 18:31	09/28/24 02:59	1
Lead	**13**		0.51		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Magnesium	**35000**	**^2**	10		mg/Kg	☼	09/19/24 15:54	09/23/24 17:40	1
Manganese	**280**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Nickel	**4.6**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Potassium	**430**		51		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Selenium	<1.0		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Silver	<0.51		0.51		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Sodium	**140**		100		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Thallium	<1.0		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Vanadium	**8.7**		0.51		mg/Kg	☼	09/19/24 15:54	09/20/24 18:16	1
Zinc	**36**		2.0		mg/Kg	☼	09/19/24 15:54	09/23/24 17:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**		0.016		mg/Kg	☼	09/25/24 17:15	09/26/24 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24		mg/Kg	☼	09/12/24 10:24	09/16/24 10:23	1
pH (SW846 9045D)	**8.34**		0.20		SU			09/12/24 12:26	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB59 (0-3)
Lab Sample ID: 500-256339-7
Date Collected: 09/06/24 12:07
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00084		0.0021	0.00084	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
1,1,2,2-Tetrachloroethane	<0.0010	*3	0.0021	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
1,1,2-Trichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
1,1-Dichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
1,1-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
1,2-Dichloroethane	<0.0013		0.0052	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
2-Hexanone	<0.0032		0.0052	0.0032	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0052	0.0037	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Acetone	<0.0087		0.021	0.0087	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Benzene	**0.0016**	**J**	0.0021	0.00065	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Bromodichloromethane	<0.00067		0.0021	0.00067	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Bromomethane	<0.0026		0.0052	0.0026	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Carbon disulfide	**0.0029**	**J**	0.0052	0.00096	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Carbon tetrachloride	<0.00071		0.0021	0.00071	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Chlorobenzene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Chloroethane	<0.0017		0.0052	0.0017	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Chloromethane	<0.0010		0.0052	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
cis-1,2-Dichloroethene	<0.00084		0.0021	0.00084	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Dibromochloromethane	<0.00097		0.0021	0.00097	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Methyl tert-butyl ether	<0.00067		0.0021	0.00067	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Methylene Chloride	<0.0022		0.0052	0.0022	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Styrene	<0.00094		0.0021	0.00094	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Tetrachloroethene	**0.0096**		0.0021	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Toluene	**0.0022**		0.0021	0.00042	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Xylenes, Total	**0.0013**	**J**	0.0042	0.00071	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
trans-1,2-Dichloroethene	<0.00079		0.0021	0.00079	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Trichloroethene	<0.00057		0.0021	0.00057	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1
Vinyl chloride	<0.00085		0.0021	0.00085	mg/Kg	☼	09/06/24 16:49	09/16/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*09/06/24 16:49*	*09/16/24 14:45*	*1*
4-Bromofluorobenzene (Surr)	*138*	*3 S1+	*75 - 131*	*09/06/24 16:49*	*09/16/24 14:45*	*1*
Dibromofluoromethane	*113*		*75 - 126*	*09/06/24 16:49*	*09/16/24 14:45*	*1*
Toluene-d8 (Surr)	*136*	*S1+	*75 - 124*	*09/06/24 16:49*	*09/16/24 14:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.12**		0.073	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Acenaphthylene	**0.070**	**J**	0.073	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Anthracene	**0.29**		0.073	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Benzo[a]anthracene	**1.0**		0.073	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Benzo[a]pyrene	**0.84**		0.073	0.070	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Benzo[b]fluoranthene	**1.5**		0.073	0.069	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Benzo[g,h,i]perylene	**0.54**		0.073	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB59 (0-3)
Lab Sample ID: 500-256339-7
Date Collected: 09/06/24 12:07
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.53**		0.073	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Chrysene	**1.2**		0.073	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Dibenz(a,h)anthracene	**0.18**		0.073	0.073	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Fluoranthene	**2.2**		0.073	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Fluorene	**0.11**		0.073	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Indeno[1,2,3-cd]pyrene	**0.61**		0.073	0.071	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Naphthalene	**0.11**		0.073	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Phenanthrene	**1.8**		0.073	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Pyrene	**1.5**		0.073	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
1,2,4-Trichlorobenzene	<0.052		0.37	0.052	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
1,3-Dichlorobenzene	<0.033		0.37	0.033	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
1,4-Dichlorobenzene	<0.035		0.37	0.035	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2,4,5-Trichlorophenol	<0.027		0.73	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2,4,6-Trichlorophenol	<0.025		0.73	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2,4-Dichlorophenol	<0.026		0.73	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2,4-Dimethylphenol	<0.16		0.73	0.16	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2,4-Dinitrotoluene	<0.042		0.37	0.042	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2-Chloronaphthalene	<0.027		0.37	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2-Chlorophenol	<0.024		0.37	0.024	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2-Methylnaphthalene	**0.14**	**J**	0.15	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2-Methylphenol	<0.038		0.37	0.038	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2-Nitroaniline	<0.039		0.37	0.039	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
2-Nitrophenol	<0.049		0.73	0.049	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
3,3'-Dichlorobenzidine	<0.060		0.37	0.060	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
3 & 4 Methylphenol	<0.053		0.37	0.053	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
3-Nitroaniline	<0.033		0.73	0.033	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
4-Bromophenyl phenyl ether	<0.050		0.37	0.050	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
4-Chloro-3-methylphenol	<0.028		0.73	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
4-Chloroaniline	<0.76		1.5	0.76	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
4-Chlorophenyl phenyl ether	<0.096		0.37	0.096	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
4-Nitroaniline	<0.054		0.73	0.054	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Bis(2-chloroethoxy)methane	<0.027		0.37	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Bis(2-chloroethyl)ether	<0.034		0.37	0.034	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
bis(chloroisopropyl) ether	<0.052		0.37	0.052	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Bis(2-ethylhexyl) phthalate	<0.29		0.37	0.29	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Butyl benzyl phthalate	<0.036		0.37	0.036	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Carbazole	**0.21**	**J**	0.37	0.029	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Dibenzofuran	**0.10**	**J**	0.37	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Diethyl phthalate	<0.033		0.37	0.033	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Di-n-butyl phthalate	<0.023		0.37	0.023	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Di-n-octyl phthalate	<0.51		0.73	0.51	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Hexachlorobutadiene	<0.041		0.37	0.041	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB59 (0-3)
Lab Sample ID: 500-256339-7
Date Collected: 09/06/24 12:07
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.77		1.5	0.77	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Hexachloroethane	<0.036		0.37	0.036	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Isophorone	<0.038		0.37	0.038	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Nitrobenzene	<0.023		0.073	0.023	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
N-Nitrosodiphenylamine	<0.043		0.37	0.043	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2
Phenol	<0.032		0.37	0.032	mg/Kg	☼	09/19/24 07:59	09/20/24 16:24	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*52*		*31 - 166*	*09/19/24 07:59*	*09/20/24 16:24*	*2*
Phenol-d5 (Surr)	*57*		*30 - 153*	*09/19/24 07:59*	*09/20/24 16:24*	*2*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*09/19/24 07:59*	*09/20/24 16:24*	*2*
2-Fluorobiphenyl (Surr)	*60*		*43 - 145*	*09/19/24 07:59*	*09/20/24 16:24*	*2*
2,4,6-Tribromophenol (Surr)	*57*		*31 - 143*	*09/19/24 07:59*	*09/20/24 16:24*	*2*
Terphenyl-d14 (Surr)	*65*		*42 - 157*	*09/19/24 07:59*	*09/20/24 16:24*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
alpha-BHC	<0.0098		0.018	0.0098	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
alpha-Chlordane	<0.0093		0.018	0.0093	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
delta-BHC	<0.0083		0.018	0.0083	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Endosulfan I	<0.0094		0.018	0.0094	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Heptachlor	<0.0094		0.018	0.0094	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Methoxychlor	<0.011		0.086	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/18/24 07:16	09/26/24 16:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*450*	*S1+*	*33 - 148*	*09/18/24 07:16*	*09/26/24 16:28*	*10*
Tetrachloro-m-xylene	*68*		*30 - 121*	*09/18/24 07:16*	*09/26/24 16:28*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:04	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:04	10

Client Sample ID: SB59 (0-3)
Lab Sample ID: 500-256339-7

Date Collected: 09/06/24 12:07
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:04	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:04	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:04	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:04	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:04	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*41*	*S1-*	*49 - 129*	*09/18/24 07:16*	*09/26/24 19:04*	*10*
DCB Decachlorobiphenyl	*65*		*37 - 121*	*09/18/24 07:16*	*09/26/24 19:04*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9600**		19		mg/Kg	☼	09/19/24 15:54	09/20/24 18:20	1
Antimony	<1.9		1.9		mg/Kg	☼	09/19/24 15:54	09/20/24 18:20	1
Arsenic	**11**		4.8		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Barium	**110**		0.96		mg/Kg	☼	09/19/24 15:54	09/20/24 18:20	1
Beryllium	**2.4**		1.9		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Cadmium	**1.2**		0.96		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Calcium	**60000**		96		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Chromium	**37**		0.96		mg/Kg	☼	09/19/24 15:54	09/20/24 18:20	1
Cobalt	**7.6**		2.4		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Copper	**100**		4.8		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Iron	**92000**		110		mg/Kg	☼	09/24/24 18:31	09/28/24 03:04	5
Lead	**84**		2.4		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Magnesium	**15000**	**^2**	48		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Manganese	**3600**	**^2**	4.8		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Nickel	**39**		4.8		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Potassium	**780**		48		mg/Kg	☼	09/19/24 15:54	09/20/24 18:20	1
Selenium	<4.8		4.8		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Silver	<2.4		2.4		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Sodium	**570**		480		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Thallium	**6.3**		4.8		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Vanadium	**28**		2.4		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5
Zinc	**200**		9.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:44	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.017		mg/Kg	☼	09/25/24 17:15	09/26/24 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**9.4**		1.3		mg/Kg	☼	09/12/24 10:24	09/16/24 11:44	5
pH (SW846 9045D)	**8.63**		0.20		SU			09/12/24 12:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB59 (5-7.5)
Lab Sample ID: 500-256339-8
Date Collected: 09/06/24 12:17
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 95.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00091		0.0022	0.00091	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
1,1,2-Trichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
1,1-Dichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
1,1-Dichloroethene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
1,2-Dichloroethane	<0.0015		0.0056	0.0015	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
1,2-Dichloropropane	<0.00058		0.0022	0.00058	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
2-Butanone (MEK)	<0.0025		0.0056	0.0025	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Acetone	<0.0094		0.022	0.0094	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Benzene	<0.00070		0.0022	0.00070	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Bromodichloromethane	<0.00072		0.0022	0.00072	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Bromomethane	<0.0028		0.0056	0.0028	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Carbon disulfide	<0.0010		0.0056	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Carbon tetrachloride	<0.00076		0.0022	0.00076	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Chlorobenzene	<0.00095		0.0022	0.00095	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
cis-1,2-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Methyl tert-butyl ether	<0.00072		0.0022	0.00072	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Styrene	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Tetrachloroethene	**0.0058**		0.0022	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Toluene	**0.00048**	**J**	0.0022	0.00045	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Xylenes, Total	<0.00077		0.0045	0.00077	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
trans-1,2-Dichloroethene	<0.00085		0.0022	0.00085	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Trichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1
Vinyl chloride	<0.00092		0.0022	0.00092	mg/Kg	☼	09/06/24 16:49	09/13/24 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/06/24 16:49*	*09/13/24 16:55*	*1*
4-Bromofluorobenzene (Surr)	*119*		*75 - 131*	*09/06/24 16:49*	*09/13/24 16:55*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*09/06/24 16:49*	*09/13/24 16:55*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*09/06/24 16:49*	*09/13/24 16:55*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.014		0.069	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Acenaphthylene	<0.012		0.069	0.012	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Anthracene	**0.017**	**J**	0.069	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Benzo[a]anthracene	**0.085**		0.069	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Benzo[a]pyrene	**0.076**		0.069	0.067	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Benzo[b]fluoranthene	**0.098**		0.069	0.066	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Benzo[g,h,i]perylene	**0.052**	**J**	0.069	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB59 (5-7.5)
Lab Sample ID: 500-256339-8
Date Collected: 09/06/24 12:17
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 95.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.081**		0.069	0.026	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Chrysene	**0.090**		0.069	0.018	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Dibenz(a,h)anthracene	<0.069		0.069	0.069	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Fluoranthene	**0.12**		0.069	0.016	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Fluorene	<0.020		0.069	0.020	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Indeno[1,2,3-cd]pyrene	<0.067		0.069	0.067	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Naphthalene	<0.012		0.069	0.012	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Phenanthrene	**0.14**		0.069	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Pyrene	**0.11**		0.069	0.019	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
1,2,4-Trichlorobenzene	<0.049		0.35	0.049	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
1,3-Dichlorobenzene	<0.031		0.35	0.031	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2,4,5-Trichlorophenol	<0.026		0.69	0.026	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2,4,6-Trichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2,4-Dichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2,4-Dimethylphenol	<0.15		0.69	0.15	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2,4-Dinitrotoluene	<0.039		0.35	0.039	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2-Chlorophenol	<0.022		0.35	0.022	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2-Methylnaphthalene	**0.016**	**J**	0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2-Methylphenol	<0.036		0.35	0.036	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
2-Nitrophenol	<0.047		0.69	0.047	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
3,3'-Dichlorobenzidine	<0.056		0.35	0.056	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
3-Nitroaniline	<0.031		0.69	0.031	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
4-Bromophenyl phenyl ether	<0.047		0.35	0.047	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
4-Chloro-3-methylphenol	<0.027		0.69	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
4-Chloroaniline	<0.72		1.4	0.72	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
4-Chlorophenyl phenyl ether	<0.091		0.35	0.091	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
4-Nitroaniline	<0.051		0.69	0.051	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Butyl benzyl phthalate	<0.034		0.35	0.034	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Carbazole	<0.027		0.35	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Dibenzofuran	<0.025		0.35	0.025	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Di-n-octyl phthalate	<0.48		0.69	0.48	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2

Client Sample ID: SB59 (5-7.5)
Lab Sample ID: 500-256339-8
Date Collected: 09/06/24 12:17
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 95.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.73		1.4	0.73	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Nitrobenzene	<0.022		0.069	0.022	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/19/24 07:59	09/19/24 16:39	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*42*		*31 - 166*	*09/19/24 07:59*	*09/19/24 16:39*	*2*
Phenol-d5 (Surr)	*48*		*30 - 153*	*09/19/24 07:59*	*09/19/24 16:39*	*2*
Nitrobenzene-d5 (Surr)	*49*		*37 - 147*	*09/19/24 07:59*	*09/19/24 16:39*	*2*
2-Fluorobiphenyl (Surr)	*54*		*43 - 145*	*09/19/24 07:59*	*09/19/24 16:39*	*2*
2,4,6-Tribromophenol (Surr)	*61*		*31 - 143*	*09/19/24 07:59*	*09/19/24 16:39*	*2*
Terphenyl-d14 (Surr)	*73*		*42 - 157*	*09/19/24 07:59*	*09/19/24 16:39*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
alpha-BHC	<0.0098		0.017	0.0098	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
alpha-Chlordane	<0.0093		0.017	0.0093	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
delta-BHC	<0.0083		0.017	0.0083	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Dieldrin	<0.0091		0.017	0.0091	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Endosulfan I	<0.0094		0.017	0.0094	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Endosulfan II	<0.0095		0.017	0.0095	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Endosulfan sulfate	<0.0096		0.017	0.0096	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Endrin	<0.0089		0.017	0.0089	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Endrin aldehyde	<0.0099		0.017	0.0099	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Endrin ketone	<0.0085		0.017	0.0085	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
gamma-Chlordane	<0.010		0.017	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Heptachlor	<0.0094		0.017	0.0094	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Heptachlor epoxide	<0.0094		0.017	0.0094	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/18/24 07:16	09/25/24 20:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*33 - 148*	*09/18/24 07:16*	*09/25/24 20:38*	*10*
Tetrachloro-m-xylene	*14*	*S1-*	*30 - 121*	*09/18/24 07:16*	*09/25/24 20:38*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:19	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:19	10

Client Sample ID: SB59 (5-7.5)
Lab Sample ID: 500-256339-8

Date Collected: 09/06/24 12:17
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 95.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:19	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:19	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:19	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:19	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:19	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 19:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*47*	*S1-*	*49 - 129*	*09/18/24 07:16*	*09/26/24 19:19*	*10*
DCB Decachlorobiphenyl	*67*		*37 - 121*	*09/18/24 07:16*	*09/26/24 19:19*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2900**		20		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Arsenic	**4.4**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Barium	**30**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Beryllium	**0.54**		0.40		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Cadmium	**0.20**		0.20		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Calcium	**34000**		20		mg/Kg	☼	09/19/24 15:54	09/23/24 17:49	1
Chromium	**8.4**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Cobalt	**3.1**		0.49		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Copper	**15**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Iron	**23000**		21		mg/Kg	☼	09/24/24 18:31	09/28/24 03:08	1
Lead	**21**		0.49		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Magnesium	**16000**	**^2**	9.9		mg/Kg	☼	09/19/24 15:54	09/23/24 17:49	1
Manganese	**620**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Nickel	**8.1**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Potassium	**260**		49		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Selenium	<0.99		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Silver	<0.49		0.49		mg/Kg	☼	09/19/24 15:54	09/23/24 17:49	1
Sodium	**150**		99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Thallium	**1.2**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Vanadium	**12**		0.49		mg/Kg	☼	09/19/24 15:54	09/20/24 18:25	1
Zinc	**53**		2.0		mg/Kg	☼	09/19/24 15:54	09/23/24 17:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**		0.017		mg/Kg	☼	09/25/24 17:15	09/26/24 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**3.3**		0.24		mg/Kg	☼	09/12/24 10:24	09/16/24 10:27	1
pH (SW846 9045D)	**9.40**		0.20		SU			09/12/24 12:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB60 (0-3)
Lab Sample ID: 500-256339-9
Date Collected: 09/06/24 13:36
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00095		0.0024	0.00095	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
1,1,2-Trichloroethane	<0.00088		0.0024	0.00088	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
1,1-Dichloroethane	<0.00089		0.0024	0.00089	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
1,1-Dichloroethene	<0.00097		0.0024	0.00097	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
1,2-Dichloroethane	<0.0015		0.0059	0.0015	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
1,2-Dichloropropane	<0.00061		0.0024	0.00061	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
2-Butanone (MEK)	**0.0030**	**J**	0.0059	0.0026	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
2-Hexanone	<0.0036		0.0059	0.0036	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0059	0.0042	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Acetone	**0.014**	**J**	0.024	0.0099	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Benzene	<0.00074		0.0024	0.00074	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Bromodichloromethane	<0.00076		0.0024	0.00076	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Bromomethane	<0.0029		0.0059	0.0029	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Carbon disulfide	**0.0033**	**J**	0.0059	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Carbon tetrachloride	<0.00080		0.0024	0.00080	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Chlorobenzene	<0.00099		0.0024	0.00099	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Chloroethane	<0.0019		0.0059	0.0019	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Chloroform	<0.0017		0.0024	0.0017	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Chloromethane	<0.0011		0.0059	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
cis-1,2-Dichloroethene	<0.00095		0.0024	0.00095	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
1,3-Dichloropropene, Total	<0.0011		0.0024	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Ethylbenzene	<0.0012		0.0024	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Methyl tert-butyl ether	<0.00076		0.0024	0.00076	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Methylene Chloride	<0.0025		0.0059	0.0025	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Styrene	<0.0011		0.0024	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Tetrachloroethene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Toluene	<0.00047		0.0024	0.00047	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Xylenes, Total	**0.0012**	**J**	0.0047	0.00081	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
trans-1,2-Dichloroethene	<0.00089		0.0024	0.00089	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Trichloroethene	<0.00064		0.0024	0.00064	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1
Vinyl chloride	<0.00096		0.0024	0.00096	mg/Kg	☼	09/06/24 16:49	09/13/24 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*09/06/24 16:49*	*09/13/24 17:20*	*1*
4-Bromofluorobenzene (Surr)	*124*		*75 - 131*	*09/06/24 16:49*	*09/13/24 17:20*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*09/06/24 16:49*	*09/13/24 17:20*	*1*
Toluene-d8 (Surr)	*114*		*75 - 124*	*09/06/24 16:49*	*09/13/24 17:20*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.014		0.070	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Acenaphthylene	<0.012		0.070	0.012	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Anthracene	**0.025**	**J**	0.070	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Benzo[a]anthracene	**0.12**		0.070	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Benzo[a]pyrene	**0.14**		0.070	0.068	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Benzo[b]fluoranthene	**0.22**		0.070	0.067	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Benzo[g,h,i]perylene	**0.096**		0.070	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB60 (0-3)
Lab Sample ID: 500-256339-9
Date Collected: 09/06/24 13:36
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.15**		0.070	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Chrysene	**0.17**		0.070	0.018	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Dibenz(a,h)anthracene	<0.070		0.070	0.070	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Fluoranthene	**0.22**		0.070	0.016	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Fluorene	<0.021		0.070	0.021	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Indeno[1,2,3-cd]pyrene	**0.11**		0.070	0.068	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Naphthalene	**0.023**	J	0.070	0.013	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Phenanthrene	**0.20**		0.070	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Pyrene	**0.19**		0.070	0.019	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
1,2,4-Trichlorobenzene	<0.050		0.35	0.050	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
1,2-Dichlorobenzene	<0.029		0.35	0.029	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
1,3-Dichlorobenzene	<0.032		0.35	0.032	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2,4,5-Trichlorophenol	<0.026		0.70	0.026	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2,4,6-Trichlorophenol	<0.024		0.70	0.024	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2,4-Dichlorophenol	<0.025		0.70	0.025	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2,4-Dimethylphenol	<0.16		0.70	0.16	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2,4-Dinitrotoluene	<0.040		0.35	0.040	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2-Chlorophenol	<0.023		0.35	0.023	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2-Methylnaphthalene	**0.039**	J	0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2-Methylphenol	<0.037		0.35	0.037	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2-Nitroaniline	<0.038		0.35	0.038	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
2-Nitrophenol	<0.048		0.70	0.048	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
3,3'-Dichlorobenzidine	<0.057		0.35	0.057	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
3-Nitroaniline	<0.032		0.70	0.032	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
4-Bromophenyl phenyl ether	<0.048		0.35	0.048	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
4-Chloro-3-methylphenol	<0.027		0.70	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
4-Chloroaniline	<0.74		1.4	0.74	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
4-Chlorophenyl phenyl ether	<0.092		0.35	0.092	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
4-Nitroaniline	<0.052		0.70	0.052	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Butyl benzyl phthalate	<0.035		0.35	0.035	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Carbazole	<0.028		0.35	0.028	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Dibenzofuran	<0.025		0.35	0.025	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Di-n-octyl phthalate	<0.49		0.70	0.49	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Hexachlorobutadiene	<0.040		0.35	0.040	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB60 (0-3)
Lab Sample ID: 500-256339-9
Date Collected: 09/06/24 13:36
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.74		1.4	0.74	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Nitrobenzene	<0.022		0.070	0.022	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
N-Nitrosodiphenylamine	<0.042		0.35	0.042	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/19/24 07:59	09/19/24 17:05	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*49*		*31 - 166*	*09/19/24 07:59*	*09/19/24 17:05*	*2*
Phenol-d5 (Surr)	*55*		*30 - 153*	*09/19/24 07:59*	*09/19/24 17:05*	*2*
Nitrobenzene-d5 (Surr)	*56*		*37 - 147*	*09/19/24 07:59*	*09/19/24 17:05*	*2*
2-Fluorobiphenyl (Surr)	*61*		*43 - 145*	*09/19/24 07:59*	*09/19/24 17:05*	*2*
2,4,6-Tribromophenol (Surr)	*36*		*31 - 143*	*09/19/24 07:59*	*09/19/24 17:05*	*2*
Terphenyl-d14 (Surr)	*67*		*42 - 157*	*09/19/24 07:59*	*09/19/24 17:05*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/18/24 07:16	09/26/24 16:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*177*	*S1+*	*33 - 148*	*09/18/24 07:16*	*09/26/24 16:40*	*10*
Tetrachloro-m-xylene	*79*		*30 - 121*	*09/18/24 07:16*	*09/26/24 16:40*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:36	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:36	10

Client Sample ID: SB60 (0-3)
Lab Sample ID: 500-256339-9
Date Collected: 09/06/24 13:36
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:36	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:36	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:36	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:36	10
PCB-1260	**0.33**		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:36	10
Polychlorinated biphenyls, Total	**0.33**		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*	*S1-*	*49 - 129*	*09/18/24 07:16*	*09/26/24 20:36*	*10*
DCB Decachlorobiphenyl	*73*		*37 - 121*	*09/18/24 07:16*	*09/26/24 20:36*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20000**		18		mg/Kg	☼	09/19/24 15:54	09/20/24 18:29	1
Antimony	<1.8		1.8		mg/Kg	☼	09/19/24 15:54	09/20/24 18:29	1
Arsenic	**6.5**		0.91		mg/Kg	☼	09/19/24 15:54	09/20/24 18:29	1
Barium	**300**		0.91		mg/Kg	☼	09/19/24 15:54	09/20/24 18:29	1
Beryllium	**3.9**		0.37		mg/Kg	☼	09/19/24 15:54	09/20/24 18:29	1
Cadmium	**0.88**		0.18		mg/Kg	☼	09/19/24 15:54	09/20/24 18:29	1
Calcium	**160000**		91		mg/Kg	☼	09/19/24 15:54	09/23/24 17:53	5
Chromium	**150**		0.91		mg/Kg	☼	09/19/24 15:54	09/20/24 18:29	1
Cobalt	**3.9**		2.3		mg/Kg	☼	09/19/24 15:54	09/23/24 17:53	5
Copper	**260**		0.91		mg/Kg	☼	09/19/24 15:54	09/20/24 18:29	1
Iron	**52000**		21		mg/Kg	☼	09/24/24 18:31	09/28/24 03:13	1
Lead	**120**		2.3		mg/Kg	☼	09/19/24 15:54	09/23/24 17:53	5
Magnesium	**34000**	**^2**	46		mg/Kg	☼	09/19/24 15:54	09/23/24 17:53	5
Manganese	**7000**	**^2**	4.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:53	5
Nickel	**29**		0.91		mg/Kg	☼	09/19/24 15:54	09/20/24 18:29	1
Potassium	**1300**		46		mg/Kg	☼	09/19/24 15:54	09/20/24 18:29	1
Selenium	**3.4**		0.91		mg/Kg	☼	09/19/24 15:54	09/20/24 18:29	1
Silver	<2.3		2.3		mg/Kg	☼	09/19/24 15:54	09/23/24 17:53	5
Sodium	**690**		91		mg/Kg	☼	09/19/24 15:54	09/20/24 18:29	1
Thallium	**8.9**		4.6		mg/Kg	☼	09/19/24 15:54	09/23/24 17:53	5
Vanadium	**69**		2.3		mg/Kg	☼	09/19/24 15:54	09/23/24 17:53	5
Zinc	**190**		9.1		mg/Kg	☼	09/19/24 15:54	09/23/24 17:53	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.064**		0.017		mg/Kg	☼	09/25/24 17:15	09/26/24 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**11**		1.2		mg/Kg	☼	09/12/24 10:24	09/16/24 11:48	5
pH (SW846 9045D)	**9.02**	**H**	0.20		SU			09/20/24 19:49	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB60 (7.5-10)
Lab Sample ID: 500-256339-10
Date Collected: 09/06/24 13:42
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 94.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00089		0.0022	0.00089	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
1,1,2-Trichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
1,1-Dichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
1,1-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
1,2-Dichloroethane	<0.0014		0.0055	0.0014	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
2-Hexanone	<0.0033		0.0055	0.0033	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0055	0.0039	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Acetone	**0.031**		0.022	0.0092	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Benzene	<0.00069		0.0022	0.00069	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Bromodichloromethane	<0.00071		0.0022	0.00071	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Bromomethane	<0.0027		0.0055	0.0027	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Carbon disulfide	**0.0038**	**J**	0.0055	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Carbon tetrachloride	<0.00075		0.0022	0.00075	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Chlorobenzene	<0.00093		0.0022	0.00093	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Chloroethane	<0.0018		0.0055	0.0018	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
cis-1,2-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Methyl tert-butyl ether	<0.00071		0.0022	0.00071	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Methylene Chloride	<0.0024		0.0055	0.0024	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Styrene	<0.00099		0.0022	0.00099	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Xylenes, Total	<0.00075		0.0044	0.00075	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
trans-1,2-Dichloroethene	<0.00083		0.0022	0.00083	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Trichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1
Vinyl chloride	<0.00090		0.0022	0.00090	mg/Kg	☼	09/06/24 16:49	09/13/24 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/06/24 16:49*	*09/13/24 17:45*	*1*
4-Bromofluorobenzene (Surr)	*118*		*75 - 131*	*09/06/24 16:49*	*09/13/24 17:45*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*09/06/24 16:49*	*09/13/24 17:45*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*09/06/24 16:49*	*09/13/24 17:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.014		0.068	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Acenaphthylene	**0.038**	**J**	0.068	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Anthracene	**0.046**	**J**	0.068	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Benzo[a]anthracene	**0.16**		0.068	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Benzo[a]pyrene	**0.15**		0.068	0.066	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Benzo[b]fluoranthene	**0.27**		0.068	0.065	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Benzo[g,h,i]perylene	**0.15**		0.068	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2

Client Sample ID: SB60 (7.5-10)
Lab Sample ID: 500-256339-10

Date Collected: 09/06/24 13:42
Matrix: Solid

Date Received: 09/09/24 10:16
Percent Solids: 94.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.12**		0.068	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Chrysene	**0.20**		0.068	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Dibenz(a,h)anthracene	<0.068		0.068	0.068	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Fluoranthene	**0.29**		0.068	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Fluorene	<0.020		0.068	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Indeno[1,2,3-cd]pyrene	**0.12**		0.068	0.067	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Naphthalene	**0.019**	J	0.068	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Phenanthrene	**0.21**		0.068	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Pyrene	**0.23**		0.068	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
1,2,4-Trichlorobenzene	<0.049		0.35	0.049	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
1,3-Dichlorobenzene	<0.031		0.35	0.031	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2,4,5-Trichlorophenol	<0.026		0.68	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2,4,6-Trichlorophenol	<0.023		0.68	0.023	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2,4-Dichlorophenol	<0.024		0.68	0.024	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2,4-Dimethylphenol	<0.15		0.68	0.15	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2,4-Dinitrotoluene	<0.039		0.35	0.039	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2,6-Dinitrotoluene	<0.023		0.35	0.023	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2-Chlorophenol	<0.022		0.35	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2-Methylnaphthalene	**0.025**	J	0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2-Methylphenol	<0.036		0.35	0.036	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
2-Nitrophenol	<0.047		0.68	0.047	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
3,3'-Dichlorobenzidine	<0.056		0.35	0.056	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
3 & 4 Methylphenol	<0.050		0.35	0.050	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
3-Nitroaniline	<0.031		0.68	0.031	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
4-Bromophenyl phenyl ether	<0.047		0.35	0.047	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
4-Chloro-3-methylphenol	<0.027		0.68	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
4-Chloroaniline	<0.72		1.4	0.72	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
4-Chlorophenyl phenyl ether	<0.090		0.35	0.090	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
4-Nitroaniline	<0.051		0.68	0.051	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
4-Nitrophenol	<0.25		1.4	0.25	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
bis(chloroisopropyl) ether	<0.049		0.35	0.049	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Butyl benzyl phthalate	<0.034		0.35	0.034	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Carbazole	<0.027		0.35	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Dibenzofuran	<0.024		0.35	0.024	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Diethyl phthalate	<0.031		0.35	0.031	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Di-n-octyl phthalate	<0.48		0.68	0.48	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB60 (7.5-10)
Lab Sample ID: 500-256339-10
Date Collected: 09/06/24 13:42
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 94.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.73		1.4	0.73	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Hexachloroethane	<0.034		0.35	0.034	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Isophorone	<0.035		0.35	0.035	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Nitrobenzene	<0.022		0.068	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/19/24 07:59	09/20/24 16:49	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*54*		*31 - 166*	*09/19/24 07:59*	*09/20/24 16:49*	*2*
Phenol-d5 (Surr)	*65*		*30 - 153*	*09/19/24 07:59*	*09/20/24 16:49*	*2*
Nitrobenzene-d5 (Surr)	*59*		*37 - 147*	*09/19/24 07:59*	*09/20/24 16:49*	*2*
2-Fluorobiphenyl (Surr)	*63*		*43 - 145*	*09/19/24 07:59*	*09/20/24 16:49*	*2*
2,4,6-Tribromophenol (Surr)	*12*	*S1-*	*31 - 143*	*09/19/24 07:59*	*09/20/24 16:49*	*2*
Terphenyl-d14 (Surr)	*74*		*42 - 157*	*09/19/24 07:59*	*09/20/24 16:49*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0092		0.017	0.0092	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Chlordane (technical)	<0.033		0.068	0.033	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
delta-BHC	<0.0082		0.017	0.0082	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Endosulfan II	<0.0094		0.017	0.0094	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Endosulfan sulfate	<0.0095		0.017	0.0095	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Endrin aldehyde	<0.0098		0.017	0.0098	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Heptachlor	<0.0093		0.017	0.0093	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/18/24 07:16	09/26/24 16:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*226*	*S1+*	*33 - 148*	*09/18/24 07:16*	*09/26/24 16:51*	*10*
Tetrachloro-m-xylene	*72*		*30 - 121*	*09/18/24 07:16*	*09/26/24 16:51*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:51	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:51	10

Client Sample ID: SB60 (7.5-10)
Lab Sample ID: 500-256339-10

Date Collected: 09/06/24 13:42
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 94.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:51	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:51	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:51	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:51	10
PCB-1260	**0.30**		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:51	10
Polychlorinated biphenyls, Total	**0.30**		0.17		mg/Kg	☼	09/18/24 07:16	09/26/24 20:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*49 - 129*	*09/18/24 07:16*	*09/26/24 20:51*	*10*
DCB Decachlorobiphenyl	*64*		*37 - 121*	*09/18/24 07:16*	*09/26/24 20:51*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		20		mg/Kg	☼	09/19/24 15:54	09/20/24 18:33	1
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 15:54	09/20/24 18:33	1
Arsenic	**7.7**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:33	1
Barium	**270**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:33	1
Beryllium	**3.6**		0.40		mg/Kg	☼	09/19/24 15:54	09/20/24 18:33	1
Cadmium	**1.3**		0.20		mg/Kg	☼	09/19/24 15:54	09/20/24 18:33	1
Calcium	**140000**		99		mg/Kg	☼	09/19/24 15:54	09/23/24 17:58	5
Chromium	**110**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:33	1
Cobalt	**4.9**		2.5		mg/Kg	☼	09/19/24 15:54	09/23/24 17:58	5
Copper	**130**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:33	1
Iron	**74000**		100		mg/Kg	☼	09/24/24 18:31	09/28/24 03:18	5
Lead	**110**		2.5		mg/Kg	☼	09/19/24 15:54	09/23/24 17:58	5
Magnesium	**26000**	**^2**	50		mg/Kg	☼	09/19/24 15:54	09/23/24 17:58	5
Manganese	**6900**	**^2**	5.0		mg/Kg	☼	09/19/24 15:54	09/23/24 17:58	5
Nickel	**48**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:33	1
Potassium	**1300**		50		mg/Kg	☼	09/19/24 15:54	09/20/24 18:33	1
Selenium	**3.4**		0.99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:33	1
Silver	<2.5		2.5		mg/Kg	☼	09/19/24 15:54	09/23/24 17:58	5
Sodium	**630**		99		mg/Kg	☼	09/19/24 15:54	09/20/24 18:33	1
Thallium	**11**		5.0		mg/Kg	☼	09/19/24 15:54	09/23/24 17:58	5
Vanadium	**58**		2.5		mg/Kg	☼	09/19/24 15:54	09/23/24 17:58	5
Zinc	**240**		9.9		mg/Kg	☼	09/19/24 15:54	09/23/24 17:58	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.087**		0.017		mg/Kg	☼	09/25/24 17:15	09/26/24 08:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**12**		2.2		mg/Kg	☼	09/12/24 10:24	09/16/24 11:53	10
pH (SW846 9045D)	**9.63**		0.20		SU			09/12/24 12:33	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61 (0-3)
Lab Sample ID: 500-256339-11
Date Collected: 09/06/24 08:37
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.026		0.057	0.026	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
1,1,2,2-Tetrachloroethane	<0.037		0.057	0.037	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
1,1,2-Trichloroethane	<0.042		0.057	0.042	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
1,1-Dichloroethane	<0.021		0.057	0.021	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
1,1-Dichloroethene	<0.027		0.057	0.027	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
1,2-Dichloroethane	<0.033		0.057	0.033	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
1,2-Dichloropropane	<0.021		0.057	0.021	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
2-Butanone (MEK)	<0.18		0.29	0.18	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
2-Hexanone	<0.17		0.29	0.17	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
4-Methyl-2-pentanone (MIBK)	<0.15		0.29	0.15	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Acetone	<0.41		0.57	0.41	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Benzene	<0.0070		0.014	0.0070	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Bromodichloromethane	<0.033		0.057	0.033	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Bromoform	<0.055		0.057	0.055	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Bromomethane	<0.10		0.17	0.10	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Carbon disulfide	<0.062		0.11	0.062	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Carbon tetrachloride	<0.024		0.057	0.024	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Chlorobenzene	<0.024		0.057	0.024	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Chloroethane	<0.027		0.29	0.027	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Chloroform	<0.053		0.11	0.053	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Chloromethane	<0.045		0.29	0.045	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
cis-1,2-Dichloroethene	<0.024		0.057	0.024	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
1,3-Dichloropropene, Total	<0.036		0.057	0.036	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Dibromochloromethane	<0.047		0.057	0.047	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Ethylbenzene	<0.0098		0.014	0.0098	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Methyl tert-butyl ether	<0.025		0.057	0.025	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Methylene Chloride	<0.12		0.29	0.12	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Styrene	<0.018		0.057	0.018	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Tetrachloroethene	<0.022		0.057	0.022	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Toluene	**0.029**		0.014	0.012	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Xylenes, Total	**0.059**		0.029	0.013	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
trans-1,2-Dichloroethene	<0.025		0.057	0.025	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Trichloroethene	<0.0085		0.029	0.0085	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50
Vinyl chloride	<0.027	*+	0.057	0.027	mg/Kg	☼	09/06/24 08:37	09/18/24 18:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*09/06/24 08:37*	*09/18/24 18:24*	*50*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*09/06/24 08:37*	*09/18/24 18:24*	*50*
Dibromofluoromethane	*95*		*75 - 120*	*09/06/24 08:37*	*09/18/24 18:24*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*09/06/24 08:37*	*09/18/24 18:24*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015		0.071	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Acenaphthylene	**0.22**		0.071	0.012	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Anthracene	**0.20**		0.071	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Benzo[a]anthracene	**1.6**		0.071	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Benzo[a]pyrene	**1.5**		0.071	0.069	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Benzo[b]fluoranthene	**2.2**		0.071	0.068	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Benzo[g,h,i]perylene	**0.72**		0.071	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61 (0-3)
Lab Sample ID: 500-256339-11
Date Collected: 09/06/24 08:37
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**2.0**		0.071	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Chrysene	**1.5**		0.071	0.019	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Dibenz(a,h)anthracene	**0.30**		0.071	0.071	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Fluoranthene	**2.3**		0.071	0.017	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Fluorene	**0.023**	**J**	0.071	0.021	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Indeno[1,2,3-cd]pyrene	**0.85**		0.071	0.069	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Naphthalene	**0.10**		0.071	0.013	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Phenanthrene	**0.90**		0.071	0.016	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Pyrene	**2.1**		0.071	0.019	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2-Methylnaphthalene	**0.090**	**J**	0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
2-Nitrophenol	<0.048		0.71	0.048	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
3-Nitroaniline	<0.032		0.71	0.032	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Butyl benzyl phthalate	<0.035		0.36	0.035	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Carbazole	**0.042**	**J**	0.36	0.028	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Dibenzofuran	**0.11**	**J**	0.36	0.025	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2

Client Sample ID: SB61 (0-3)
Lab Sample ID: 500-256339-11
Date Collected: 09/06/24 08:37
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76		1.4	0.76	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/19/24 07:59	09/19/24 17:55	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*31*		*31 - 166*	*09/19/24 07:59*	*09/19/24 17:55*	*2*
Phenol-d5 (Surr)	*35*		*30 - 153*	*09/19/24 07:59*	*09/19/24 17:55*	*2*
Nitrobenzene-d5 (Surr)	*37*		*37 - 147*	*09/19/24 07:59*	*09/19/24 17:55*	*2*
2-Fluorobiphenyl (Surr)	*43*		*43 - 145*	*09/19/24 07:59*	*09/19/24 17:55*	*2*
2,4,6-Tribromophenol (Surr)	*38*		*31 - 143*	*09/19/24 07:59*	*09/19/24 17:55*	*2*
Terphenyl-d14 (Surr)	*62*		*42 - 157*	*09/19/24 07:59*	*09/19/24 17:55*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
alpha-Chlordane	<0.0095		0.018	0.0095	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Chlordane (technical)	<0.034		0.070	0.034	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
delta-BHC	<0.0085		0.018	0.0085	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Dieldrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Endosulfan I	<0.0096		0.018	0.0096	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Endosulfan sulfate	<0.0098		0.018	0.0098	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Heptachlor	<0.0096		0.018	0.0096	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/18/24 07:16	09/25/24 21:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*306*	*S1+*	*33 - 148*	*09/18/24 07:16*	*09/25/24 21:13*	*10*
Tetrachloro-m-xylene	*32*		*30 - 121*	*09/18/24 07:16*	*09/25/24 21:13*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 21:06	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 21:06	10

Client Sample ID: SB61 (0-3)
Date Collected: 09/06/24 08:37
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-11
Matrix: Solid
Percent Solids: 92.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 21:06	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 21:06	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 21:06	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 21:06	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 21:06	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 21:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*09/18/24 07:16*	*09/26/24 21:06*	*10*
DCB Decachlorobiphenyl	*90*		*37 - 121*	*09/18/24 07:16*	*09/26/24 21:06*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**23000**		21		mg/Kg	☼	09/19/24 15:54	09/20/24 18:38	1
Antimony	<10		10		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Arsenic	**11**		5.2		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Barium	**260**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 18:38	1
Beryllium	**5.8**		2.1		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Cadmium	**5.0**		1.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Calcium	**160000**	**^2**	100		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Chromium	**340**		5.2		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Cobalt	**7.8**		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Copper	**56**		5.2		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Iron	**140000**		210		mg/Kg	☼	09/24/24 18:31	09/28/24 03:22	10
Lead	**100**		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Magnesium	**19000**	**^2**	52		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Manganese	**6600**	**^2**	5.2		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Nickel	**290**		5.2		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Potassium	**1300**		52		mg/Kg	☼	09/19/24 15:54	09/20/24 18:38	1
Selenium	<5.2		5.2		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Silver	<2.6		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Sodium	**840**		520		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Thallium	**11**		5.2		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Vanadium	**31**	**^2**	2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5
Zinc	**310**		10		mg/Kg	☼	09/19/24 15:54	09/23/24 18:11	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.051**		0.016		mg/Kg	☼	09/25/24 17:15	09/26/24 08:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**52**		3.8		mg/Kg	☼	09/12/24 10:24	09/16/24 11:58	15
pH (SW846 9045D)	**9.18**		0.20		SU			09/12/24 12:35	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Client Sample ID: SB61 (12.5-15)

Date Collected: 09/06/24 08:55
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-12

Matrix: Solid
Percent Solids: 69.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	16		1.8		mg/Kg	☼	09/06/24 08:55	09/12/24 18:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*70 - 130*	*09/06/24 08:55*	*09/12/24 18:44*	*50*
4-Bromofluorobenzene	*106*		*60 - 130*	*09/06/24 08:55*	*09/12/24 18:44*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	26000		1200		mg/Kg	☼	09/10/24 07:28	09/12/24 00:48	100
Oil Range Organics (C28-C36)	36000		2400		mg/Kg	☼	09/10/24 07:28	09/12/24 00:48	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*09/10/24 07:28*	*09/12/24 00:48*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*09/10/24 07:28*	*09/12/24 00:48*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	440	H	43		mg/Kg	☼	09/16/24 07:29	09/16/24 09:22	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61 (17.5-19)
Lab Sample ID: 500-256339-13
Date Collected: 09/06/24 09:15
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 62.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.057		0.13	0.057	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
1,1,2,2-Tetrachloroethane	<0.081		0.13	0.081	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
1,1,2-Trichloroethane	<0.092		0.13	0.092	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
1,1-Dichloroethane	<0.046		0.13	0.046	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
1,1-Dichloroethene	<0.060		0.13	0.060	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
1,2-Dichloroethane	<0.073		0.13	0.073	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
1,2-Dichloropropane	<0.047		0.13	0.047	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
2-Butanone (MEK)	<0.39		0.63	0.39	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
2-Hexanone	<0.37		0.63	0.37	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
4-Methyl-2-pentanone (MIBK)	<0.34		0.63	0.34	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Acetone	<0.91		1.3	0.91	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Benzene	**0.074**		0.031	0.015	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Bromodichloromethane	<0.072		0.13	0.072	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Bromoform	<0.12		0.13	0.12	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Bromomethane	<0.23		0.38	0.23	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Carbon disulfide	<0.14		0.25	0.14	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Carbon tetrachloride	<0.052		0.13	0.052	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Chlorobenzene	<0.052		0.13	0.052	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Chloroethane	<0.059		0.63	0.059	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Chloroform	<0.12		0.25	0.12	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Chloromethane	<0.099		0.63	0.099	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
cis-1,2-Dichloroethene	<0.052		0.13	0.052	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
1,3-Dichloropropene, Total	<0.080		0.13	0.080	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Dibromochloromethane	<0.10		0.13	0.10	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Ethylbenzene	<0.022		0.031	0.022	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Methyl tert-butyl ether	<0.055		0.13	0.055	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Methylene Chloride	<0.27		0.63	0.27	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Styrene	<0.039		0.13	0.039	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Tetrachloroethene	<0.049		0.13	0.049	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Toluene	**0.049**		0.031	0.027	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Xylenes, Total	**0.057**	**J**	0.063	0.030	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
trans-1,2-Dichloroethene	<0.055		0.13	0.055	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Trichloroethene	<0.019		0.063	0.019	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50
Vinyl chloride	<0.059	*+	0.13	0.059	mg/Kg	☼	09/06/24 09:15	09/18/24 18:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*09/06/24 09:15*	*09/18/24 18:48*	*50*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*	*09/06/24 09:15*	*09/18/24 18:48*	*50*
Dibromofluoromethane	*95*		*75 - 120*	*09/06/24 09:15*	*09/18/24 18:48*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*09/06/24 09:15*	*09/18/24 18:48*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1.5**		0.53	0.11	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Acenaphthylene	<0.090		0.53	0.090	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Anthracene	**2.8**		0.53	0.11	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Benzo[a]anthracene	**3.3**		0.53	0.11	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Benzo[a]pyrene	**3.0**		0.53	0.51	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Benzo[b]fluoranthene	**3.0**		0.53	0.50	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Benzo[g,h,i]perylene	**1.9**		0.53	0.11	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61 (17.5-19)
Lab Sample ID: 500-256339-13
Date Collected: 09/06/24 09:15
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 62.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**2.5**		0.53	0.20	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Chrysene	**5.1**		0.53	0.14	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Dibenz(a,h)anthracene	**0.61**		0.53	0.53	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Fluoranthene	**9.1**		0.53	0.12	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Fluorene	**4.4**		0.53	0.16	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Indeno[1,2,3-cd]pyrene	**1.7**		0.53	0.51	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Naphthalene	**2.1**		0.53	0.095	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Phenanthrene	**14**		0.53	0.11	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Pyrene	**15**		0.53	0.14	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
1,2,4-Trichlorobenzene	<0.38		2.7	0.38	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
1,2-Dichlorobenzene	<0.21		2.7	0.21	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
1,3-Dichlorobenzene	<0.24		2.7	0.24	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
1,4-Dichlorobenzene	<0.25		2.7	0.25	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2,4,5-Trichlorophenol	<0.20		5.3	0.20	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2,4,6-Trichlorophenol	<0.18		5.3	0.18	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2,4-Dichlorophenol	<0.19		5.3	0.19	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2,4-Dimethylphenol	<1.2		5.3	1.2	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2,4-Dinitrophenol	<3.1		11	3.1	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2,4-Dinitrotoluene	<0.30		2.7	0.30	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2,6-Dinitrotoluene	<0.18		2.7	0.18	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2-Chloronaphthalene	<0.20		2.7	0.20	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2-Chlorophenol	<0.17		2.7	0.17	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2-Methylnaphthalene	**2.0**		1.1	0.11	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2-Methylphenol	<0.28		2.7	0.28	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2-Nitroaniline	<0.28		2.7	0.28	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
2-Nitrophenol	<0.36		5.3	0.36	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
3,3'-Dichlorobenzidine	<0.43		2.7	0.43	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
3 & 4 Methylphenol	<0.39		2.7	0.39	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
3-Nitroaniline	<0.24		5.3	0.24	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
4,6-Dinitro-2-methylphenol	<3.0		11	3.0	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
4-Bromophenyl phenyl ether	<0.36		2.7	0.36	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
4-Chloro-3-methylphenol	<0.21		5.3	0.21	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
4-Chloroaniline	<5.5		11	5.5	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
4-Chlorophenyl phenyl ether	<0.69		2.7	0.69	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
4-Nitroaniline	<0.39		5.3	0.39	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
4-Nitrophenol	<2.0		11	2.0	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Bis(2-chloroethoxy)methane	<0.20		2.7	0.20	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Bis(2-chloroethyl)ether	<0.24		2.7	0.24	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
bis(chloroisopropyl) ether	<0.38		2.7	0.38	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Bis(2-ethylhexyl) phthalate	<2.1		2.7	2.1	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Butyl benzyl phthalate	<0.26		2.7	0.26	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Carbazole	<0.21		2.7	0.21	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Dibenzofuran	**1.8**	**J**	2.7	0.19	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Diethyl phthalate	<0.24		2.7	0.24	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Dimethyl phthalate	<0.11		2.7	0.11	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Di-n-butyl phthalate	<0.17		2.7	0.17	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Di-n-octyl phthalate	<3.7		5.3	3.7	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Hexachlorobenzene	<0.10		1.1	0.10	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Hexachlorobutadiene	<0.30		2.7	0.30	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10

Client Sample ID: SB61 (17.5-19)
Lab Sample ID: 500-256339-13
Date Collected: 09/06/24 09:15
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 62.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<5.6		11	5.6	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Hexachloroethane	<0.26		2.7	0.26	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Isophorone	<0.27		2.7	0.27	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Nitrobenzene	<0.17		0.53	0.17	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
N-Nitrosodi-n-propylamine	<0.10		1.1	0.10	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
N-Nitrosodiphenylamine	<0.31		2.7	0.31	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Pentachlorophenol	<1.3		11	1.3	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10
Phenol	<0.23		2.7	0.23	mg/Kg	☼	09/19/24 07:59	09/19/24 18:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*45*		*31 - 166*	*09/19/24 07:59*	*09/19/24 18:21*	*10*
Phenol-d5 (Surr)	*59*		*30 - 153*	*09/19/24 07:59*	*09/19/24 18:21*	*10*
Nitrobenzene-d5 (Surr)	*73*		*37 - 147*	*09/19/24 07:59*	*09/19/24 18:21*	*10*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/19/24 07:59*	*09/19/24 18:21*	*10*
2,4,6-Tribromophenol (Surr)	*39*		*31 - 143*	*09/19/24 07:59*	*09/19/24 18:21*	*10*
Terphenyl-d14 (Surr)	*68*		*42 - 157*	*09/19/24 07:59*	*09/19/24 18:21*	*10*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	**51**		2.5		mg/Kg	☼	09/06/24 09:15	09/12/24 19:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*70 - 130*	*09/06/24 09:15*	*09/12/24 19:58*	*50*
4-Bromofluorobenzene	*105*		*60 - 130*	*09/06/24 09:15*	*09/12/24 19:58*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5300**		630		mg/Kg	☼	09/10/24 07:28	09/12/24 15:31	50
Oil Range Organics (C28-C36)	**5500**		1300		mg/Kg	☼	09/10/24 07:28	09/12/24 15:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*09/10/24 07:28*	*09/12/24 15:31*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*09/10/24 07:28*	*09/12/24 15:31*	*50*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.014		0.026	0.014	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
4,4'-DDE	<0.013		0.026	0.013	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
4,4'-DDT	<0.012		0.026	0.012	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
Aldrin	<0.018		0.026	0.018	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
alpha-BHC	<0.015		0.026	0.015	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
alpha-Chlordane	<0.014		0.026	0.014	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
beta-BHC	<0.021		0.026	0.021	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
Chlordane (technical)	<0.050		0.10	0.050	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
delta-BHC	<0.012		0.026	0.012	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
Dieldrin	<0.014		0.026	0.014	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
Endosulfan I	<0.014		0.026	0.014	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
Endosulfan II	<0.014		0.026	0.014	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
Endosulfan sulfate	<0.014		0.026	0.014	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
Endrin	<0.013		0.026	0.013	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
Endrin aldehyde	<0.015		0.026	0.015	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10

Client Sample ID: SB61 (17.5-19)
Lab Sample ID: 500-256339-13
Date Collected: 09/06/24 09:15
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 62.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	<0.013		0.026	0.013	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
gamma-BHC (Lindane)	<0.013		0.026	0.013	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
gamma-Chlordane	<0.015		0.026	0.015	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
Heptachlor	<0.014		0.026	0.014	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
Heptachlor epoxide	<0.014		0.026	0.014	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
Methoxychlor	<0.017		0.13	0.017	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10
Toxaphene	<0.10		0.26	0.10	mg/Kg	☼	09/18/24 07:16	09/25/24 21:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*163*	*S1+*	*33 - 148*	*09/18/24 07:16*	*09/25/24 21:25*	*10*
Tetrachloro-m-xylene	*199*	*S1+*	*30 - 121*	*09/18/24 07:16*	*09/25/24 21:25*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.26		0.26		mg/Kg	☼	09/18/24 07:16	09/26/24 21:22	10
PCB-1221	<0.26		0.26		mg/Kg	☼	09/18/24 07:16	09/26/24 21:22	10
PCB-1232	<0.26		0.26		mg/Kg	☼	09/18/24 07:16	09/26/24 21:22	10
PCB-1242	<0.26		0.26		mg/Kg	☼	09/18/24 07:16	09/26/24 21:22	10
PCB-1248	<0.26		0.26		mg/Kg	☼	09/18/24 07:16	09/26/24 21:22	10
PCB-1254	<0.26		0.26		mg/Kg	☼	09/18/24 07:16	09/26/24 21:22	10
PCB-1260	<0.26		0.26		mg/Kg	☼	09/18/24 07:16	09/26/24 21:22	10
Polychlorinated biphenyls, Total	<0.26		0.26		mg/Kg	☼	09/18/24 07:16	09/26/24 21:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*49*		*49 - 129*	*09/18/24 07:16*	*09/26/24 21:22*	*10*
DCB Decachlorobiphenyl	*99*		*37 - 121*	*09/18/24 07:16*	*09/26/24 21:22*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**24000**		28		mg/Kg	☼	09/19/24 15:54	09/20/24 18:42	1
Antimony	<2.8		2.8		mg/Kg	☼	09/19/24 15:54	09/20/24 18:42	1
Arsenic	**5.1**		1.4		mg/Kg	☼	09/19/24 15:54	09/20/24 18:42	1
Barium	**360**		7.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:16	5
Beryllium	**4.0**		0.56		mg/Kg	☼	09/19/24 15:54	09/20/24 18:42	1
Cadmium	<0.28		0.28		mg/Kg	☼	09/19/24 15:54	09/20/24 18:42	1
Calcium	**130000**	**^2**	140		mg/Kg	☼	09/19/24 15:54	09/23/24 18:16	5
Chromium	**16**		1.4		mg/Kg	☼	09/19/24 15:54	09/20/24 18:42	1
Cobalt	<3.5		3.5		mg/Kg	☼	09/19/24 15:54	09/23/24 18:16	5
Copper	<1.4		1.4		mg/Kg	☼	09/19/24 15:54	09/20/24 18:42	1
Iron	**22000**		30		mg/Kg	☼	09/24/24 18:31	09/28/24 03:27	1
Lead	<0.70		0.70		mg/Kg	☼	09/19/24 15:54	09/20/24 18:42	1
Magnesium	**16000**	**^2**	70		mg/Kg	☼	09/19/24 15:54	09/23/24 18:16	5
Manganese	**6600**	**^2**	7.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:16	5
Nickel	<1.4		1.4		mg/Kg	☼	09/19/24 15:54	09/20/24 18:42	1
Potassium	**2100**		70		mg/Kg	☼	09/19/24 15:54	09/20/24 18:42	1
Selenium	**2.5**		1.4		mg/Kg	☼	09/19/24 15:54	09/20/24 18:42	1
Silver	<3.5		3.5		mg/Kg	☼	09/19/24 15:54	09/23/24 18:16	5
Sodium	**520**		140		mg/Kg	☼	09/19/24 15:54	09/20/24 18:42	1
Thallium	**9.6**		7.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:16	5
Vanadium	**29**	**^2**	3.5		mg/Kg	☼	09/19/24 15:54	09/23/24 18:16	5

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61 (17.5-19)
Lab Sample ID: 500-256339-13
Date Collected: 09/06/24 09:15
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 62.2

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<14		14		mg/Kg	☼	09/19/24 15:54	09/23/24 18:16	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.024		0.024		mg/Kg	☼	09/25/24 17:15	09/26/24 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	22		3.8		mg/Kg	☼	09/12/24 10:24	09/16/24 12:02	10
Sulfide (SW846 9034)	1700	H	49		mg/Kg	☼	09/16/24 07:29	09/16/24 09:22	1
pH (SW846 9045D)	11.69		0.20		SU			09/12/24 12:38	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB62 (0-3)
Date Collected: 09/06/24 09:41
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-14
Matrix: Solid
Percent Solids: 85.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
1,1,2-Trichloroethane	<0.00094		0.0025	0.00094	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
1,1-Dichloroethane	<0.00094		0.0025	0.00094	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
1,2-Dichloroethane	<0.0016		0.0062	0.0016	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
1,2-Dichloropropane	<0.00064		0.0025	0.00064	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
2-Butanone (MEK)	<0.0027		0.0062	0.0027	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
2-Hexanone	<0.0038		0.0062	0.0038	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0062	0.0044	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Acetone	<0.010		0.025	0.010	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Benzene	<0.00079		0.0025	0.00079	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Bromodichloromethane	<0.00080		0.0025	0.00080	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Bromoform	<0.0015		0.0025	0.0015	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Bromomethane	<0.0031		0.0062	0.0031	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Carbon disulfide	**0.0074**		0.0062	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Carbon tetrachloride	<0.00085		0.0025	0.00085	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Chlorobenzene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Chloroethane	<0.0021		0.0062	0.0021	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Chloromethane	<0.0012		0.0062	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
cis-1,2-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Dibromochloromethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Methyl tert-butyl ether	<0.00081		0.0025	0.00081	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Methylene Chloride	<0.0027		0.0062	0.0027	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Styrene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Toluene	**0.0010**	**J**	0.0025	0.00050	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Xylenes, Total	<0.00086		0.0050	0.00086	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
trans-1,2-Dichloroethene	<0.00094		0.0025	0.00094	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Trichloroethene	<0.00068		0.0025	0.00068	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/06/24 16:49*	*09/16/24 15:35*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*09/06/24 16:49*	*09/16/24 15:35*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*09/06/24 16:49*	*09/16/24 15:35*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/06/24 16:49*	*09/16/24 15:35*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0079		0.039	0.0079	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Acenaphthylene	<0.0066		0.039	0.0066	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Anthracene	<0.0079		0.039	0.0079	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Benzo[a]anthracene	**0.018**	**J**	0.039	0.0082	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Benzo[a]pyrene	<0.037		0.039	0.037	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Benzo[b]fluoranthene	<0.037		0.039	0.037	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Benzo[g,h,i]perylene	<0.0084		0.039	0.0084	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB62 (0-3)
Lab Sample ID: 500-256339-14
Date Collected: 09/06/24 09:41
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 85.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.015		0.039	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Chrysene	**0.012**	**J**	0.039	0.010	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Fluoranthene	**0.016**	**J**	0.039	0.0090	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Fluorene	<0.011		0.039	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Indeno[1,2,3-cd]pyrene	<0.038		0.039	0.038	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Naphthalene	<0.0070		0.039	0.0070	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Phenanthrene	**0.015**	**J**	0.039	0.0084	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Pyrene	**0.015**	**J**	0.039	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
1,2,4-Trichlorobenzene	<0.028		0.20	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
1,2-Dichlorobenzene	<0.016		0.20	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
1,3-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
1,4-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2,4,5-Trichlorophenol	<0.015		0.39	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2,4,6-Trichlorophenol	<0.013		0.39	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2,4-Dichlorophenol	<0.014		0.39	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2,4-Dimethylphenol	<0.087		0.39	0.087	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2,4-Dinitrophenol	<0.22		0.78	0.22	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2,4-Dinitrotoluene	<0.022		0.20	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2,6-Dinitrotoluene	<0.013		0.20	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2-Chloronaphthalene	<0.014		0.20	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2-Chlorophenol	<0.013		0.20	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2-Methylnaphthalene	<0.0078		0.078	0.0078	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2-Methylphenol	<0.020		0.20	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2-Nitroaniline	<0.021		0.20	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
2-Nitrophenol	<0.026		0.39	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
3,3'-Dichlorobenzidine	<0.032		0.20	0.032	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
3 & 4 Methylphenol	<0.028		0.20	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
3-Nitroaniline	<0.018		0.39	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
4,6-Dinitro-2-methylphenol	<0.22		0.78	0.22	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
4-Bromophenyl phenyl ether	<0.027		0.20	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
4-Chloro-3-methylphenol	<0.015		0.39	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
4-Chloroaniline	<0.41		0.78	0.41	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
4-Chlorophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
4-Nitroaniline	<0.029		0.39	0.029	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
4-Nitrophenol	<0.14		0.78	0.14	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Bis(2-chloroethoxy)methane	<0.014		0.20	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Bis(2-chloroethyl)ether	<0.018		0.20	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
bis(chloroisopropyl) ether	<0.028		0.20	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Bis(2-ethylhexyl) phthalate	<0.15		0.20	0.15	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Butyl benzyl phthalate	<0.019		0.20	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Carbazole	<0.015		0.20	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Dibenzofuran	<0.014		0.20	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Diethyl phthalate	<0.018		0.20	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Dimethyl phthalate	<0.0084		0.20	0.0084	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Di-n-butyl phthalate	<0.012		0.20	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Di-n-octyl phthalate	<0.27		0.39	0.27	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Hexachlorobenzene	<0.0074		0.078	0.0074	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Hexachlorobutadiene	<0.022		0.20	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1

Client Sample ID: SB62 (0-3) — **Lab Sample ID: 500-256339-14**
Date Collected: 09/06/24 09:41 — **Matrix: Solid**
Date Received: 09/09/24 10:16 — **Percent Solids: 85.4**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.41		0.78	0.41	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Hexachloroethane	<0.019		0.20	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Isophorone	<0.020		0.20	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Nitrobenzene	<0.012		0.039	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
N-Nitrosodi-n-propylamine	<0.0077		0.078	0.0077	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
N-Nitrosodiphenylamine	<0.023		0.20	0.023	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Pentachlorophenol	<0.097		0.78	0.097	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1
Phenol	<0.017		0.20	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*73*		*31 - 166*	*09/19/24 07:59*	*09/20/24 13:53*	*1*
Phenol-d5 (Surr)	*75*		*30 - 153*	*09/19/24 07:59*	*09/20/24 13:53*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*09/19/24 07:59*	*09/20/24 13:53*	*1*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/19/24 07:59*	*09/20/24 13:53*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*31 - 143*	*09/19/24 07:59*	*09/20/24 13:53*	*1*
Terphenyl-d14 (Surr)	*79*		*42 - 157*	*09/19/24 07:59*	*09/20/24 13:53*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
4,4'-DDE	<0.0099		0.019	0.0099	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
4,4'-DDT	<0.0091		0.019	0.0091	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Chlordane (technical)	<0.036		0.076	0.036	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
delta-BHC	<0.0091		0.019	0.0091	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Dieldrin	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Endosulfan sulfate	<0.011		0.019	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Endrin	<0.0098		0.019	0.0098	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Endrin ketone	<0.0093		0.019	0.0093	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
gamma-BHC (Lindane)	<0.0095		0.019	0.0095	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Methoxychlor	<0.013		0.094	0.013	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10
Toxaphene	<0.076		0.19	0.076	mg/Kg	☼	09/18/24 07:16	09/25/24 21:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*33 - 148*	*09/18/24 07:16*	*09/25/24 21:36*	*10*
Tetrachloro-m-xylene	*7*	*S1-*	*30 - 121*	*09/18/24 07:16*	*09/25/24 21:36*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 21:37	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 21:37	10

Client Sample ID: SB62 (0-3)
Date Collected: 09/06/24 09:41
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-14
Matrix: Solid
Percent Solids: 85.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 21:37	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 21:37	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 21:37	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 21:37	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 21:37	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 21:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*44*	*S1-*	*49 - 129*	*09/18/24 07:16*	*09/26/24 21:37*	*10*
DCB Decachlorobiphenyl	*50*		*37 - 121*	*09/18/24 07:16*	*09/26/24 21:37*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5300**		22		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Antimony	<2.2		2.2		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Arsenic	**1.9**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Barium	**76**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Beryllium	<0.43		0.43		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Cadmium	<0.22		0.22		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Calcium	**36000**	**^2**	22		mg/Kg	☼	09/19/24 15:54	09/23/24 18:21	1
Chromium	**5.3**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Cobalt	**1.5**		0.54		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Copper	**1.6**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Iron	**3300**		23		mg/Kg	☼	09/24/24 18:31	09/28/24 03:41	1
Lead	**1.8**		0.54		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Magnesium	**22000**	**^2**	11		mg/Kg	☼	09/19/24 15:54	09/23/24 18:21	1
Manganese	**240**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Nickel	**2.8**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Potassium	**220**		54		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Selenium	<1.1		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Silver	<0.54		0.54		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Sodium	**120**		110		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Thallium	<1.1		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Vanadium	**6.3**		0.54		mg/Kg	☼	09/19/24 15:54	09/20/24 18:47	1
Zinc	**10**		2.2		mg/Kg	☼	09/19/24 15:54	09/23/24 18:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019		mg/Kg	☼	09/25/24 17:15	09/26/24 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27		mg/Kg	☼	09/12/24 10:24	09/16/24 10:40	1
pH (SW846 9045D)	**9.63**		0.20		SU			09/12/24 12:40	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB62 (7.5-10)
Lab Sample ID: 500-256339-15
Date Collected: 09/06/24 09:52
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 83.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00097		0.0024	0.00097	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
1,1,2-Trichloroethane	<0.00090		0.0024	0.00090	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
1,1-Dichloroethane	<0.00090		0.0024	0.00090	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
1,1-Dichloroethene	<0.00098		0.0024	0.00098	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
1,2-Dichloroethane	<0.0016		0.0060	0.0016	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
1,2-Dichloropropane	<0.00062		0.0024	0.00062	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
2-Butanone (MEK)	<0.0026		0.0060	0.0026	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
2-Hexanone	<0.0036		0.0060	0.0036	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0060	0.0043	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Acetone	<0.010		0.024	0.010	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Benzene	<0.00075		0.0024	0.00075	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Bromodichloromethane	<0.00077		0.0024	0.00077	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Bromomethane	<0.0029		0.0060	0.0029	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Carbon disulfide	**0.0018**	**J**	0.0060	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Carbon tetrachloride	<0.00081		0.0024	0.00081	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Chloroethane	<0.0020		0.0060	0.0020	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Chloroform	<0.0017		0.0024	0.0017	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Chloromethane	<0.0012		0.0060	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
cis-1,2-Dichloroethene	<0.00096		0.0024	0.00096	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
1,3-Dichloropropene, Total	<0.0011		0.0024	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Ethylbenzene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Methyl tert-butyl ether	<0.00077		0.0024	0.00077	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Methylene Chloride	<0.0026		0.0060	0.0026	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Styrene	<0.0011		0.0024	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Tetrachloroethene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Toluene	<0.00048		0.0024	0.00048	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Xylenes, Total	<0.00082		0.0048	0.00082	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
trans-1,2-Dichloroethene	<0.00090		0.0024	0.00090	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Trichloroethene	<0.00065		0.0024	0.00065	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1
Vinyl chloride	<0.00098		0.0024	0.00098	mg/Kg	☼	09/06/24 16:49	09/16/24 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/06/24 16:49*	*09/16/24 16:00*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*09/06/24 16:49*	*09/16/24 16:00*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*09/06/24 16:49*	*09/16/24 16:00*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*09/06/24 16:49*	*09/16/24 16:00*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0079		0.038	0.0079	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Acenaphthylene	<0.0066		0.038	0.0066	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Anthracene	<0.0079		0.038	0.0079	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Benzo[a]anthracene	<0.0082		0.038	0.0082	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Benzo[a]pyrene	<0.037		0.038	0.037	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Benzo[b]fluoranthene	<0.037		0.038	0.037	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Benzo[g,h,i]perylene	<0.0084		0.038	0.0084	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB62 (7.5-10)
Lab Sample ID: 500-256339-15
Date Collected: 09/06/24 09:52
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 83.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.015		0.038	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Chrysene	<0.010		0.038	0.010	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Fluoranthene	<0.0090		0.038	0.0090	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Fluorene	<0.011		0.038	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.038	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Naphthalene	<0.0070		0.038	0.0070	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Phenanthrene	<0.0084		0.038	0.0084	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Pyrene	**0.012**	**J**	0.038	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
1,2,4-Trichlorobenzene	<0.028		0.19	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
1,2-Dichlorobenzene	<0.016		0.19	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2,4,5-Trichlorophenol	<0.015		0.38	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2,4,6-Trichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2,4-Dichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2,4-Dimethylphenol	<0.087		0.38	0.087	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2,4-Dinitrophenol	<0.22		0.78	0.22	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2,4-Dinitrotoluene	<0.022		0.19	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2-Methylnaphthalene	<0.0078		0.078	0.0078	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2-Nitroaniline	<0.021		0.19	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
2-Nitrophenol	<0.026		0.38	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
3,3'-Dichlorobenzidine	<0.032		0.19	0.032	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
3 & 4 Methylphenol	<0.028		0.19	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
3-Nitroaniline	<0.018		0.38	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
4,6-Dinitro-2-methylphenol	<0.22		0.78	0.22	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
4-Chloro-3-methylphenol	<0.015		0.38	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
4-Chloroaniline	<0.41		0.78	0.41	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
4-Chlorophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
4-Nitroaniline	<0.029		0.38	0.029	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
4-Nitrophenol	<0.14		0.78	0.14	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Bis(2-chloroethyl)ether	<0.018		0.19	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
bis(chloroisopropyl) ether	<0.028		0.19	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Dibenzofuran	<0.014		0.19	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Diethyl phthalate	<0.018		0.19	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Dimethyl phthalate	<0.0084		0.19	0.0084	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Di-n-octyl phthalate	<0.27		0.38	0.27	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Hexachlorobenzene	<0.0074		0.078	0.0074	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Hexachlorobutadiene	<0.022		0.19	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB62 (7.5-10)
Lab Sample ID: 500-256339-15
Date Collected: 09/06/24 09:52
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 83.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.41		0.78	0.41	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Isophorone	<0.020		0.19	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Nitrobenzene	<0.012		0.038	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
N-Nitrosodi-n-propylamine	<0.0076		0.078	0.0076	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
N-Nitrosodiphenylamine	<0.023		0.19	0.023	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Pentachlorophenol	<0.097		0.78	0.097	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1
Phenol	<0.017		0.19	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*83*		*31 - 166*	*09/19/24 07:59*	*09/20/24 14:18*	*1*
Phenol-d5 (Surr)	*83*		*30 - 153*	*09/19/24 07:59*	*09/20/24 14:18*	*1*
Nitrobenzene-d5 (Surr)	*85*		*37 - 147*	*09/19/24 07:59*	*09/20/24 14:18*	*1*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*	*09/19/24 07:59*	*09/20/24 14:18*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*31 - 143*	*09/19/24 07:59*	*09/20/24 14:18*	*1*
Terphenyl-d14 (Surr)	*85*		*42 - 157*	*09/19/24 07:59*	*09/20/24 14:18*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
4,4'-DDT	<0.0094		0.020	0.0094	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
alpha-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Chlordane (technical)	<0.038		0.079	0.038	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
delta-BHC	<0.0095		0.020	0.0095	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Endrin	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Endrin aldehyde	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Endrin ketone	<0.0096		0.020	0.0096	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
gamma-BHC (Lindane)	<0.0099		0.020	0.0099	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
gamma-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Heptachlor epoxide	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Methoxychlor	<0.013		0.097	0.013	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10
Toxaphene	<0.079		0.20	0.079	mg/Kg	☼	09/18/24 07:16	09/26/24 17:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*33 - 148*	*09/18/24 07:16*	*09/26/24 17:03*	*10*
Tetrachloro-m-xylene	*102*		*30 - 121*	*09/18/24 07:16*	*09/26/24 17:03*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.20		0.20		mg/Kg	☼	09/18/24 07:16	09/26/24 21:52	10
PCB-1221	<0.20		0.20		mg/Kg	☼	09/18/24 07:16	09/26/24 21:52	10

Client Sample ID: SB62 (7.5-10)
Date Collected: 09/06/24 09:52
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-15
Matrix: Solid
Percent Solids: 83.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.20		0.20		mg/Kg	☼	09/18/24 07:16	09/26/24 21:52	10
PCB-1242	<0.20		0.20		mg/Kg	☼	09/18/24 07:16	09/26/24 21:52	10
PCB-1248	<0.20		0.20		mg/Kg	☼	09/18/24 07:16	09/26/24 21:52	10
PCB-1254	<0.20		0.20		mg/Kg	☼	09/18/24 07:16	09/26/24 21:52	10
PCB-1260	<0.20		0.20		mg/Kg	☼	09/18/24 07:16	09/26/24 21:52	10
Polychlorinated biphenyls, Total	<0.20		0.20		mg/Kg	☼	09/18/24 07:16	09/26/24 21:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*36*	*S1-*	*49 - 129*	*09/18/24 07:16*	*09/26/24 21:52*	*10*
DCB Decachlorobiphenyl	*44*		*37 - 121*	*09/18/24 07:16*	*09/26/24 21:52*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**40000**		120		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Antimony	<12		12		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Arsenic	<6.0		6.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Barium	**490**		6.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Beryllium	**7.7**		2.4		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Cadmium	<1.2		1.2		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Calcium	**170000**	**^2**	120		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Chromium	<6.0		6.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Cobalt	<3.0		3.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Copper	<6.0		6.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Iron	**920**		22		mg/Kg	☼	09/24/24 18:31	09/28/24 03:45	1
Lead	<0.60		0.60		mg/Kg	☼	09/19/24 15:54	09/20/24 18:51	1
Magnesium	**53000**	**^2**	60		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Manganese	**2400**	**^2**	6.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Nickel	<1.2		1.2		mg/Kg	☼	09/19/24 15:54	09/20/24 18:51	1
Potassium	**790**		300		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Selenium	<6.0		6.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Silver	<3.0		3.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Sodium	**1000**		600		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Thallium	<1.2		1.2		mg/Kg	☼	09/19/24 15:54	09/20/24 18:51	1
Vanadium	**5.0**	**^2**	3.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5
Zinc	<12		12		mg/Kg	☼	09/19/24 15:54	09/23/24 18:25	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/25/24 17:15	09/26/24 08:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25		mg/Kg	☼	09/12/24 10:24	09/16/24 10:41	1
pH (SW846 9045D)	**9.61**		0.20		SU			09/12/24 12:42	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB63 (0-3)
Lab Sample ID: 500-256339-16
Date Collected: 09/06/24 10:32
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00089		0.0022	0.00089	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
1,1,2-Trichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
1,1-Dichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
1,1-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
1,2-Dichloroethane	<0.0014		0.0055	0.0014	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
2-Hexanone	<0.0033		0.0055	0.0033	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0055	0.0039	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Acetone	<0.0092		0.022	0.0092	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Benzene	<0.00069		0.0022	0.00069	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Bromodichloromethane	<0.00071		0.0022	0.00071	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Bromomethane	<0.0027		0.0055	0.0027	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Carbon disulfide	**0.0029**	**J**	0.0055	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Carbon tetrachloride	<0.00075		0.0022	0.00075	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Chlorobenzene	<0.00093		0.0022	0.00093	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Chloroethane	<0.0018		0.0055	0.0018	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
cis-1,2-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Methyl tert-butyl ether	<0.00071		0.0022	0.00071	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Methylene Chloride	<0.0023		0.0055	0.0023	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Styrene	<0.00099		0.0022	0.00099	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Xylenes, Total	<0.00075		0.0044	0.00075	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
trans-1,2-Dichloroethene	<0.00083		0.0022	0.00083	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Trichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1
Vinyl chloride	<0.00090		0.0022	0.00090	mg/Kg	☼	09/06/24 16:49	09/16/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*09/06/24 16:49*	*09/16/24 16:24*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*09/06/24 16:49*	*09/16/24 16:24*	*1*
Dibromofluoromethane	*97*		*75 - 126*	*09/06/24 16:49*	*09/16/24 16:24*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*09/06/24 16:49*	*09/16/24 16:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.063**		0.036	0.0073	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Acenaphthylene	<0.0061		0.036	0.0061	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Anthracene	**0.063**		0.036	0.0073	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Benzo[a]anthracene	**0.66**		0.036	0.0076	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Benzo[a]pyrene	**1.5**		0.036	0.035	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Benzo[b]fluoranthene	**1.8**		0.036	0.034	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Benzo[g,h,i]perylene	**1.4**		0.036	0.0078	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB63 (0-3)
Lab Sample ID: 500-256339-16
Date Collected: 09/06/24 10:32
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.62**		0.036	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Chrysene	**0.82**		0.036	0.0095	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Dibenz(a,h)anthracene	**0.26**		0.036	0.036	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Fluoranthene	**0.72**		0.036	0.0083	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Fluorene	**0.018**	**J**	0.036	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Indeno[1,2,3-cd]pyrene	**1.3**		0.036	0.035	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Naphthalene	**0.011**	**J**	0.036	0.0065	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Phenanthrene	**0.23**		0.036	0.0078	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Pyrene	**0.76**		0.036	0.0098	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2,4-Dimethylphenol	<0.080		0.36	0.080	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2-Methylnaphthalene	**0.011**	**J**	0.073	0.0072	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
2-Nitrophenol	<0.024		0.36	0.024	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
3-Nitroaniline	<0.016		0.36	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Carbazole	**0.038**	**J**	0.18	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Dibenzofuran	**0.013**	**J**	0.18	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Dimethyl phthalate	<0.0078		0.18	0.0078	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Hexachlorobenzene	<0.0069		0.073	0.0069	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB63 (0-3)
Lab Sample ID: 500-256339-16
Date Collected: 09/06/24 10:32
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.73	0.38	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
N-Nitrosodi-n-propylamine	<0.0071		0.073	0.0071	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Pentachlorophenol	<0.090		0.73	0.090	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*71*		*31 - 166*	*09/19/24 07:59*	*09/20/24 14:44*	*1*
Phenol-d5 (Surr)	*73*		*30 - 153*	*09/19/24 07:59*	*09/20/24 14:44*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*09/19/24 07:59*	*09/20/24 14:44*	*1*
2-Fluorobiphenyl (Surr)	*70*		*43 - 145*	*09/19/24 07:59*	*09/20/24 14:44*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*31 - 143*	*09/19/24 07:59*	*09/20/24 14:44*	*1*
Terphenyl-d14 (Surr)	*82*		*42 - 157*	*09/19/24 07:59*	*09/20/24 14:44*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.019		0.036	0.019	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
4,4'-DDE	<0.018		0.036	0.018	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
4,4'-DDT	<0.017		0.036	0.017	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Aldrin	<0.025		0.036	0.025	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
alpha-BHC	<0.020		0.036	0.020	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
alpha-Chlordane	<0.019		0.036	0.019	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
beta-BHC	<0.029		0.036	0.029	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Chlordane (technical)	<0.068		0.14	0.068	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
delta-BHC	<0.017		0.036	0.017	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Dieldrin	<0.019		0.036	0.019	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Endosulfan I	<0.019		0.036	0.019	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Endosulfan II	<0.020		0.036	0.020	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Endosulfan sulfate	<0.020		0.036	0.020	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Endrin	<0.018		0.036	0.018	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Endrin aldehyde	<0.020		0.036	0.020	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Endrin ketone	<0.017		0.036	0.017	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
gamma-BHC (Lindane)	<0.018		0.036	0.018	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
gamma-Chlordane	<0.020		0.036	0.020	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Heptachlor	<0.019		0.036	0.019	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Heptachlor epoxide	<0.019		0.036	0.019	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Methoxychlor	<0.023		0.18	0.023	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20
Toxaphene	<0.14		0.35	0.14	mg/Kg	☼	09/18/24 07:16	09/26/24 17:14	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/18/24 07:16*	*09/26/24 17:14*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/18/24 07:16*	*09/26/24 17:14*	*20*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 22:08	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 22:08	10

Client Sample ID: SB63 (0-3)
Lab Sample ID: 500-256339-16
Date Collected: 09/06/24 10:32
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 22:08	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 22:08	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 22:08	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 22:08	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 22:08	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/18/24 07:16	09/26/24 22:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*54*		*49 - 129*	*09/18/24 07:16*	*09/26/24 22:08*	*10*
DCB Decachlorobiphenyl	*70*		*37 - 121*	*09/18/24 07:16*	*09/26/24 22:08*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22000**		20		mg/Kg	☼	09/19/24 15:54	09/20/24 19:04	1
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:04	1
Arsenic	**2.4**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:04	1
Barium	**350**		5.1		mg/Kg	☼	09/19/24 15:54	09/23/24 18:30	5
Beryllium	**5.9**		0.40		mg/Kg	☼	09/19/24 15:54	09/20/24 19:04	1
Cadmium	<0.20		0.20		mg/Kg	☼	09/19/24 15:54	09/20/24 19:04	1
Calcium	**220000**	**^2**	100		mg/Kg	☼	09/19/24 15:54	09/23/24 18:30	5
Chromium	**22**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:04	1
Cobalt	<2.5		2.5		mg/Kg	☼	09/19/24 15:54	09/23/24 18:30	5
Copper	**3.5**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:04	1
Iron	**8500**		20		mg/Kg	☼	09/24/24 18:31	09/28/24 03:50	1
Lead	**14**		2.5		mg/Kg	☼	09/19/24 15:54	09/23/24 18:30	5
Magnesium	**53000**	**^2**	51		mg/Kg	☼	09/19/24 15:54	09/23/24 18:30	5
Manganese	**4000**	**^2**	5.1		mg/Kg	☼	09/19/24 15:54	09/23/24 18:30	5
Nickel	**1.5**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:04	1
Potassium	**1900**		51		mg/Kg	☼	09/19/24 15:54	09/20/24 19:04	1
Selenium	**3.3**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:04	1
Silver	<2.5		2.5		mg/Kg	☼	09/19/24 15:54	09/23/24 18:30	5
Sodium	**1000**		100		mg/Kg	☼	09/19/24 15:54	09/20/24 19:04	1
Thallium	**6.4**		5.1		mg/Kg	☼	09/19/24 15:54	09/23/24 18:30	5
Vanadium	**20**	**^2**	2.5		mg/Kg	☼	09/19/24 15:54	09/23/24 18:30	5
Zinc	**33**		2.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/25/24 17:15	09/26/24 08:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.0**		0.24		mg/Kg	☼	09/12/24 10:24	09/16/24 10:43	1
pH (SW846 9045D)	**9.62**		0.20		SU			09/12/24 12:45	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB63 (5-7.5)
Lab Sample ID: 500-256339-17
Date Collected: 09/06/24 10:45
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 84.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00078		0.0019	0.00078	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
1,1,2,2-Tetrachloroethane	<0.00095		0.0019	0.00095	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
1,1,2-Trichloroethane	<0.00072		0.0019	0.00072	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
1,1-Dichloroethane	<0.00072		0.0019	0.00072	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
1,1-Dichloroethene	<0.00079		0.0019	0.00079	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
1,2-Dichloroethane	<0.0012		0.0048	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
2-Hexanone	<0.0029		0.0048	0.0029	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0048	0.0034	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Acetone	<0.0080		0.019	0.0080	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Benzene	<0.00060		0.0019	0.00060	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Bromodichloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Bromoform	<0.0011		0.0019	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Bromomethane	<0.0024		0.0048	0.0024	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Carbon disulfide	**0.0033**	**J**	0.0048	0.00088	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Carbon tetrachloride	<0.00065		0.0019	0.00065	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Chlorobenzene	<0.00081		0.0019	0.00081	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Chloroethane	<0.0016		0.0048	0.0016	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Chloroform	<0.0014		0.0019	0.0014	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Chloromethane	<0.00093		0.0048	0.00093	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
cis-1,2-Dichloroethene	<0.00077		0.0019	0.00077	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
1,3-Dichloropropene, Total	<0.00092		0.0019	0.00092	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Dibromochloromethane	<0.00089		0.0019	0.00089	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Ethylbenzene	<0.0010		0.0019	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Methyl tert-butyl ether	<0.00062		0.0019	0.00062	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Methylene Chloride	<0.0020		0.0048	0.0020	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Styrene	<0.00086		0.0019	0.00086	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Tetrachloroethene	<0.0011		0.0019	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Toluene	<0.00039		0.0019	0.00039	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Xylenes, Total	<0.00066		0.0038	0.00066	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
trans-1,2-Dichloroethene	<0.00072		0.0019	0.00072	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Trichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1
Vinyl chloride	<0.00078		0.0019	0.00078	mg/Kg	☼	09/06/24 16:49	09/16/24 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*09/06/24 16:49*	*09/16/24 16:49*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*	*09/06/24 16:49*	*09/16/24 16:49*	*1*
Dibromofluoromethane	*81*		*75 - 126*	*09/06/24 16:49*	*09/16/24 16:49*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*09/06/24 16:49*	*09/16/24 16:49*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.068**		0.039	0.0080	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Acenaphthylene	**0.022**	**J**	0.039	0.0067	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Anthracene	**0.071**		0.039	0.0080	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Benzo[a]anthracene	**0.55**		0.039	0.0083	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Benzo[a]pyrene	**0.93**		0.039	0.038	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Benzo[b]fluoranthene	**1.3**		0.039	0.037	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Benzo[g,h,i]perylene	**0.95**		0.039	0.0085	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB63 (5-7.5)
Lab Sample ID: 500-256339-17
Date Collected: 09/06/24 10:45
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 84.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.52**		0.039	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Chrysene	**0.69**		0.039	0.010	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Dibenz(a,h)anthracene	**0.22**		0.039	0.039	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Fluoranthene	**0.67**		0.039	0.0091	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Fluorene	**0.030**	**J**	0.039	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Indeno[1,2,3-cd]pyrene	**0.82**		0.039	0.038	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Naphthalene	**0.034**	**J**	0.039	0.0071	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Phenanthrene	**0.26**		0.039	0.0085	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Pyrene	**0.91**		0.039	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
1,2,4-Trichlorobenzene	<0.028		0.20	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
1,2-Dichlorobenzene	<0.016		0.20	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
1,3-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
1,4-Dichlorobenzene	<0.019		0.20	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2,4,5-Trichlorophenol	<0.015		0.39	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2,4,6-Trichlorophenol	<0.013		0.39	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2,4-Dichlorophenol	<0.014		0.39	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2,4-Dimethylphenol	<0.088		0.39	0.088	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2,4-Dinitrophenol	<0.23		0.79	0.23	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2,4-Dinitrotoluene	<0.022		0.20	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2,6-Dinitrotoluene	<0.013		0.20	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2-Chloronaphthalene	<0.015		0.20	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2-Chlorophenol	<0.013		0.20	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2-Methylnaphthalene	**0.017**	**J**	0.079	0.0079	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2-Methylphenol	<0.021		0.20	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2-Nitroaniline	<0.021		0.20	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
2-Nitrophenol	<0.027		0.39	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
3,3'-Dichlorobenzidine	<0.032		0.20	0.032	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
3 & 4 Methylphenol	<0.029		0.20	0.029	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
3-Nitroaniline	<0.018		0.39	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
4,6-Dinitro-2-methylphenol	<0.22		0.79	0.22	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
4-Bromophenyl phenyl ether	<0.027		0.20	0.027	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
4-Chloro-3-methylphenol	<0.015		0.39	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
4-Chloroaniline	<0.41		0.79	0.41	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
4-Chlorophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
4-Nitroaniline	<0.029		0.39	0.029	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
4-Nitrophenol	<0.15		0.79	0.15	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Bis(2-chloroethoxy)methane	<0.015		0.20	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Bis(2-chloroethyl)ether	<0.018		0.20	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
bis(chloroisopropyl) ether	<0.028		0.20	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Bis(2-ethylhexyl) phthalate	<0.15		0.20	0.15	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Butyl benzyl phthalate	<0.020		0.20	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Carbazole	**0.037**	**J**	0.20	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Dibenzofuran	**0.038**	**J**	0.20	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Diethyl phthalate	<0.018		0.20	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Dimethyl phthalate	<0.0085		0.20	0.0085	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Di-n-butyl phthalate	<0.012		0.20	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Di-n-octyl phthalate	<0.27		0.39	0.27	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Hexachlorobenzene	<0.0075		0.079	0.0075	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Hexachlorobutadiene	<0.022		0.20	0.022	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB63 (5-7.5)
Lab Sample ID: 500-256339-17
Date Collected: 09/06/24 10:45
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 84.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.42		0.79	0.42	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Hexachloroethane	<0.020		0.20	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Isophorone	<0.020		0.20	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Nitrobenzene	<0.012		0.039	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
N-Nitrosodi-n-propylamine	<0.0077		0.079	0.0077	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
N-Nitrosodiphenylamine	<0.023		0.20	0.023	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Pentachlorophenol	<0.098		0.79	0.098	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1
Phenol	<0.017		0.20	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*73*		*31 - 166*	*09/19/24 07:59*	*09/20/24 15:09*	*1*
Phenol-d5 (Surr)	*80*		*30 - 153*	*09/19/24 07:59*	*09/20/24 15:09*	*1*
Nitrobenzene-d5 (Surr)	*80*		*37 - 147*	*09/19/24 07:59*	*09/20/24 15:09*	*1*
2-Fluorobiphenyl (Surr)	*75*		*43 - 145*	*09/19/24 07:59*	*09/20/24 15:09*	*1*
2,4,6-Tribromophenol (Surr)	*45*		*31 - 143*	*09/19/24 07:59*	*09/20/24 15:09*	*1*
Terphenyl-d14 (Surr)	*83*		*42 - 157*	*09/19/24 07:59*	*09/20/24 15:09*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
4,4'-DDT	<0.0092		0.020	0.0092	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
alpha-Chlordane	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Chlordane (technical)	<0.037		0.077	0.037	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
delta-BHC	<0.0093		0.020	0.0093	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Endrin	<0.0099		0.020	0.0099	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Endrin aldehyde	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Endrin ketone	<0.0095		0.020	0.0095	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
gamma-BHC (Lindane)	<0.0097		0.020	0.0097	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
gamma-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Heptachlor epoxide	<0.010		0.020	0.010	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Methoxychlor	<0.013		0.096	0.013	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10
Toxaphene	<0.078		0.19	0.078	mg/Kg	☼	09/18/24 07:16	09/26/24 17:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*232*	*S1+*	*33 - 148*	*09/18/24 07:16*	*09/26/24 17:26*	*10*
Tetrachloro-m-xylene	*103*		*30 - 121*	*09/18/24 07:16*	*09/26/24 17:26*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:23	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:23	10

Client Sample ID: SB63 (5-7.5)
Lab Sample ID: 500-256339-17
Date Collected: 09/06/24 10:45
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 84.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:23	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:23	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:23	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:23	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:23	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*49 - 129*	*09/18/24 07:16*	*09/26/24 22:23*	*10*
DCB Decachlorobiphenyl	*35*	*S1-*	*37 - 121*	*09/18/24 07:16*	*09/26/24 22:23*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22000**		22		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Antimony	<2.2		2.2		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Arsenic	**2.3**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Barium	**220**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Beryllium	**6.0**		0.44		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Cadmium	<0.22		0.22		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Calcium	**200000**	**^2**	110		mg/Kg	☼	09/19/24 15:54	09/23/24 18:34	5
Chromium	**12**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Cobalt	<2.7		2.7		mg/Kg	☼	09/19/24 15:54	09/23/24 18:34	5
Copper	**2.5**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Iron	**8700**		20		mg/Kg	☼	09/24/24 18:31	09/28/24 03:55	1
Lead	<2.7		2.7		mg/Kg	☼	09/19/24 15:54	09/23/24 18:34	5
Magnesium	**61000**	**^2**	54		mg/Kg	☼	09/19/24 15:54	09/23/24 18:34	5
Manganese	**1400**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Nickel	**1.4**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Potassium	**880**		54		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Selenium	**2.7**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Silver	<2.7		2.7		mg/Kg	☼	09/19/24 15:54	09/23/24 18:34	5
Sodium	**930**		110		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Thallium	**2.0**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1
Vanadium	**12**	**^2**	2.7		mg/Kg	☼	09/19/24 15:54	09/23/24 18:34	5
Zinc	**13**		2.2		mg/Kg	☼	09/19/24 15:54	09/20/24 19:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/25/24 17:15	09/26/24 08:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26		mg/Kg	☼	09/12/24 10:24	09/16/24 10:45	1
pH (SW846 9045D)	**10.60**		0.20		SU			09/12/24 12:49	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB64 (0-3)
Lab Sample ID: 500-256339-18
Date Collected: 09/06/24 11:57
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 87.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0027	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
1,1,2-Trichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
1,1-Dichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
1,1-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
1,2-Dichloroethane	<0.0017		0.0067	0.0017	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
1,2-Dichloropropane	<0.00069		0.0027	0.00069	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
2-Butanone (MEK)	**0.015**		0.0067	0.0029	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
2-Hexanone	<0.0041		0.0067	0.0041	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0067	0.0047	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Acetone	**0.038**		0.027	0.011	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Benzene	**0.0074**		0.0027	0.00084	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Bromodichloromethane	<0.00086		0.0027	0.00086	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Bromoform	<0.0016		0.0027	0.0016	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Bromomethane	<0.0033		0.0067	0.0033	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Carbon disulfide	**0.0057**	**J**	0.0067	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Carbon tetrachloride	<0.00091		0.0027	0.00091	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Chlorobenzene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Chloroethane	<0.0022		0.0067	0.0022	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Chloroform	<0.0019		0.0027	0.0019	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Chloromethane	<0.0013		0.0067	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
cis-1,2-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
1,3-Dichloropropene, Total	<0.0013		0.0027	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Dibromochloromethane	<0.0012		0.0027	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Ethylbenzene	**0.0044**		0.0027	0.0014	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Methyl tert-butyl ether	<0.00086		0.0027	0.00086	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Methylene Chloride	<0.0029		0.0067	0.0029	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Styrene	<0.0012		0.0027	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Tetrachloroethene	<0.0015		0.0027	0.0015	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Toluene	**0.011**		0.0027	0.00054	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Xylenes, Total	**0.0051**	**J**	0.0053	0.00092	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
trans-1,2-Dichloroethene	<0.0010		0.0027	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Trichloroethene	<0.00073		0.0027	0.00073	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1
Vinyl chloride	<0.0011		0.0027	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*09/06/24 16:49*	*09/16/24 17:14*	*1*
4-Bromofluorobenzene (Surr)	*126*		*75 - 131*	*09/06/24 16:49*	*09/16/24 17:14*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*09/06/24 16:49*	*09/16/24 17:14*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*	*09/06/24 16:49*	*09/16/24 17:14*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.57**		0.074	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Acenaphthylene	<0.013		0.074	0.013	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Anthracene	**0.59**		0.074	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Benzo[a]anthracene	**5.1**		0.074	0.016	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Benzo[a]pyrene	**12**		0.074	0.072	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Benzo[b]fluoranthene	**13**		0.074	0.071	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Benzo[g,h,i]perylene	**8.7**		0.074	0.016	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB64 (0-3)
Lab Sample ID: 500-256339-18
Date Collected: 09/06/24 11:57
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 87.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**6.5**		0.074	0.028	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Chrysene	**7.1**		0.074	0.020	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Dibenz(a,h)anthracene	**2.2**		0.074	0.074	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Fluoranthene	**5.5**		0.074	0.017	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Fluorene	**0.17**		0.074	0.022	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Indeno[1,2,3-cd]pyrene	**8.0**		0.074	0.072	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Naphthalene	**0.11**		0.074	0.013	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Phenanthrene	**2.3**		0.074	0.016	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Pyrene	**5.3**		0.074	0.020	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
1,2,4-Trichlorobenzene	<0.053		0.37	0.053	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
1,3-Dichlorobenzene	<0.034		0.37	0.034	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
1,4-Dichlorobenzene	<0.035		0.37	0.035	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2,4,5-Trichlorophenol	<0.028		0.74	0.028	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2,4,6-Trichlorophenol	<0.025		0.74	0.025	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2,4-Dichlorophenol	<0.026		0.74	0.026	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2,4-Dimethylphenol	<0.17		0.74	0.17	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2,4-Dinitrophenol	<0.43		1.5	0.43	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2,4-Dinitrotoluene	<0.042		0.37	0.042	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2-Chloronaphthalene	<0.028		0.37	0.028	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2-Chlorophenol	<0.024		0.37	0.024	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2-Methylnaphthalene	**0.067**	**J**	0.15	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2-Methylphenol	<0.039		0.37	0.039	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2-Nitroaniline	<0.040		0.37	0.040	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
2-Nitrophenol	<0.050		0.74	0.050	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
3,3'-Dichlorobenzidine	<0.061		0.37	0.061	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
3 & 4 Methylphenol	<0.054		0.37	0.054	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
3-Nitroaniline	<0.034		0.74	0.034	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
4,6-Dinitro-2-methylphenol	<0.42		1.5	0.42	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
4-Bromophenyl phenyl ether	<0.051		0.37	0.051	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
4-Chloro-3-methylphenol	<0.029		0.74	0.029	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
4-Chloroaniline	<0.78		1.5	0.78	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
4-Chlorophenyl phenyl ether	<0.097		0.37	0.097	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
4-Nitroaniline	<0.055		0.74	0.055	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
4-Nitrophenol	<0.28		1.5	0.28	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Bis(2-chloroethoxy)methane	<0.028		0.37	0.028	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Bis(2-chloroethyl)ether	<0.034		0.37	0.034	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
bis(chloroisopropyl) ether	<0.053		0.37	0.053	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Bis(2-ethylhexyl) phthalate	<0.29		0.37	0.29	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Butyl benzyl phthalate	<0.037		0.37	0.037	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Carbazole	**0.29**	**J**	0.37	0.029	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Dibenzofuran	**0.13**	**J**	0.37	0.026	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Diethyl phthalate	<0.034		0.37	0.034	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Di-n-butyl phthalate	<0.024		0.37	0.024	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Di-n-octyl phthalate	<0.52		0.74	0.52	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Hexachlorobutadiene	<0.042		0.37	0.042	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB64 (0-3)
Lab Sample ID: 500-256339-18
Date Collected: 09/06/24 11:57
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 87.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.79		1.5	0.79	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Hexachloroethane	<0.037		0.37	0.037	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Isophorone	<0.038		0.37	0.038	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Nitrobenzene	<0.024		0.074	0.024	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
N-Nitrosodiphenylamine	<0.044		0.37	0.044	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Pentachlorophenol	<0.19		1.5	0.19	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2
Phenol	<0.032		0.37	0.032	mg/Kg	☼	09/19/24 07:59	09/19/24 18:46	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*43*		*31 - 166*	*09/19/24 07:59*	*09/19/24 18:46*	*2*
Phenol-d5 (Surr)	*44*		*30 - 153*	*09/19/24 07:59*	*09/19/24 18:46*	*2*
Nitrobenzene-d5 (Surr)	*43*		*37 - 147*	*09/19/24 07:59*	*09/19/24 18:46*	*2*
2-Fluorobiphenyl (Surr)	*55*		*43 - 145*	*09/19/24 07:59*	*09/19/24 18:46*	*2*
2,4,6-Tribromophenol (Surr)	*31*		*31 - 143*	*09/19/24 07:59*	*09/19/24 18:46*	*2*
Terphenyl-d14 (Surr)	*53*		*42 - 157*	*09/19/24 07:59*	*09/19/24 18:46*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
4,4'-DDE	<0.0097		0.019	0.0097	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
4,4'-DDT	<0.0090		0.019	0.0090	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Chlordane (technical)	<0.036		0.075	0.036	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
delta-BHC	<0.0090		0.019	0.0090	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Dieldrin	<0.0099		0.019	0.0099	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Endrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Endrin ketone	<0.0092		0.019	0.0092	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
gamma-BHC (Lindane)	<0.0094		0.019	0.0094	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Methoxychlor	<0.012		0.093	0.012	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10
Toxaphene	<0.076		0.19	0.076	mg/Kg	☼	09/18/24 07:16	09/25/24 22:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*279*	*S1+*	*33 - 148*	*09/18/24 07:16*	*09/25/24 22:23*	*10*
Tetrachloro-m-xylene	*343*	*S1+*	*30 - 121*	*09/18/24 07:16*	*09/25/24 22:23*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:38	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:38	10

Client Sample ID: SB64 (0-3)
Date Collected: 09/06/24 11:57
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-18
Matrix: Solid
Percent Solids: 87.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:38	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:38	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:38	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:38	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:38	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/18/24 07:16	09/26/24 22:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/18/24 07:16*	*09/26/24 22:38*	*10*
DCB Decachlorobiphenyl	*327*	*S1+*	*37 - 121*	*09/18/24 07:16*	*09/26/24 22:38*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7600**		21		mg/Kg	☼	09/19/24 15:54	09/20/24 19:13	1
Antimony	<11		11		mg/Kg	☼	09/24/24 18:31	09/28/24 03:59	5
Arsenic	<5.3		5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Barium	**94**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 19:13	1
Beryllium	**3.1**		2.1		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Cadmium	<1.1		1.1		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Calcium	**100000**	**^2**	110		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Chromium	**110**		1.1		mg/Kg	☼	09/19/24 15:54	09/20/24 19:13	1
Cobalt	**4.5**		2.7		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Copper	**30**		5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Iron	**95000**		110		mg/Kg	☼	09/24/24 18:31	09/28/24 03:59	5
Lead	**24**		2.7		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Magnesium	**38000**	**^2**	53		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Manganese	**3100**	**^2**	5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Nickel	**16**		5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Potassium	**280**		53		mg/Kg	☼	09/19/24 15:54	09/20/24 19:13	1
Selenium	<5.3		5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Silver	<2.7		2.7		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Sodium	<530		530		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Thallium	**6.3**		5.3		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Vanadium	**64**	**^2**	2.7		mg/Kg	☼	09/19/24 15:54	09/23/24 18:39	5
Zinc	**46**		2.1		mg/Kg	☼	09/19/24 15:54	09/20/24 19:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.053**		0.018		mg/Kg	☼	09/25/24 17:15	09/26/24 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.8**		0.25		mg/Kg	☼	09/16/24 11:23	09/16/24 16:15	1
Sulfide (SW846 9034)	**200**	**H**	35		mg/Kg	☼	09/16/24 07:29	09/16/24 09:22	1
pH (SW846 9045D)	**8.29**		0.20		SU			09/12/24 12:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB64 (7.5-10)
Lab Sample ID: 500-256339-19
Date Collected: 09/06/24 12:18
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 78.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0013		0.0033	0.0013	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0033	0.0016	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
1,1,2-Trichloroethane	<0.0012		0.0033	0.0012	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
1,1-Dichloroethane	<0.0012		0.0033	0.0012	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
1,1-Dichloroethene	<0.0013		0.0033	0.0013	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
1,2-Dichloroethane	<0.0021		0.0082	0.0021	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
1,2-Dichloropropane	<0.00084		0.0033	0.00084	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
2-Butanone (MEK)	<0.0036		0.0082	0.0036	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
2-Hexanone	<0.0050		0.0082	0.0050	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0082	0.0058	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Acetone	<0.014		0.033	0.014	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Benzene	<0.0010		0.0033	0.0010	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Bromodichloromethane	<0.0010		0.0033	0.0010	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Bromoform	<0.0019		0.0033	0.0019	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Bromomethane	<0.0040		0.0082	0.0040	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Carbon disulfide	**0.0024**	**J**	0.0082	0.0015	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Carbon tetrachloride	<0.0011		0.0033	0.0011	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Chlorobenzene	<0.0014		0.0033	0.0014	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Chloroethane	<0.0027		0.0082	0.0027	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Chloroform	<0.0023		0.0033	0.0023	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Chloromethane	<0.0016		0.0082	0.0016	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
cis-1,2-Dichloroethene	<0.0013		0.0033	0.0013	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
1,3-Dichloropropene, Total	<0.0016		0.0033	0.0016	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Dibromochloromethane	<0.0015		0.0033	0.0015	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Ethylbenzene	<0.0017		0.0033	0.0017	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Methyl tert-butyl ether	<0.0011		0.0033	0.0011	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Methylene Chloride	<0.0035		0.0082	0.0035	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Styrene	<0.0015		0.0033	0.0015	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Tetrachloroethene	<0.0018		0.0033	0.0018	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Toluene	<0.00066		0.0033	0.00066	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Xylenes, Total	<0.0011		0.0065	0.0011	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
trans-1,2-Dichloroethene	<0.0012		0.0033	0.0012	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Trichloroethene	<0.00089		0.0033	0.00089	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1
Vinyl chloride	<0.0013		0.0033	0.0013	mg/Kg	☼	09/06/24 16:49	09/17/24 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 134*	*09/06/24 16:49*	*09/17/24 11:55*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*09/06/24 16:49*	*09/17/24 11:55*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*09/06/24 16:49*	*09/17/24 11:55*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*09/06/24 16:49*	*09/17/24 11:55*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.017		0.084	0.017	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Acenaphthylene	<0.014		0.084	0.014	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Anthracene	<0.017		0.084	0.017	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Benzo[a]anthracene	**0.12**		0.084	0.018	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Benzo[a]pyrene	**0.22**		0.084	0.081	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Benzo[b]fluoranthene	**0.26**		0.084	0.080	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Benzo[g,h,i]perylene	**0.19**		0.084	0.018	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB64 (7.5-10)
Lab Sample ID: 500-256339-19
Date Collected: 09/06/24 12:18
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 78.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.19**		0.084	0.032	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Chrysene	**0.17**		0.084	0.022	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Dibenz(a,h)anthracene	<0.084		0.084	0.084	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Fluoranthene	**0.15**		0.084	0.020	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Fluorene	<0.025		0.084	0.025	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Indeno[1,2,3-cd]pyrene	**0.19**		0.084	0.082	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Naphthalene	<0.015		0.084	0.015	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Phenanthrene	**0.081**	**J**	0.084	0.018	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Pyrene	**0.15**		0.084	0.023	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
1,2,4-Trichlorobenzene	<0.060		0.42	0.060	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
1,2-Dichlorobenzene	<0.034		0.42	0.034	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
1,3-Dichlorobenzene	<0.038		0.42	0.038	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
1,4-Dichlorobenzene	<0.040		0.42	0.040	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2,4,5-Trichlorophenol	<0.032		0.84	0.032	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2,4,6-Trichlorophenol	<0.029		0.84	0.029	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2,4-Dichlorophenol	<0.030		0.84	0.030	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2,4-Dimethylphenol	<0.19		0.84	0.19	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2,4-Dinitrophenol	<0.49		1.7	0.49	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2,4-Dinitrotoluene	<0.048		0.42	0.048	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2,6-Dinitrotoluene	<0.029		0.42	0.029	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2-Chloronaphthalene	<0.031		0.42	0.031	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2-Chlorophenol	<0.027		0.42	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2-Methylnaphthalene	**0.026**	**J**	0.17	0.017	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2-Methylphenol	<0.044		0.42	0.044	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2-Nitroaniline	<0.045		0.42	0.045	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
2-Nitrophenol	<0.057		0.84	0.057	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
3,3'-Dichlorobenzidine	<0.069		0.42	0.069	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
3 & 4 Methylphenol	<0.062		0.42	0.062	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
3-Nitroaniline	<0.038		0.84	0.038	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
4,6-Dinitro-2-methylphenol	<0.47		1.7	0.47	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
4-Bromophenyl phenyl ether	<0.057		0.42	0.057	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
4-Chloro-3-methylphenol	<0.033		0.84	0.033	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
4-Chloroaniline	<0.88		1.7	0.88	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
4-Chlorophenyl phenyl ether	<0.11		0.42	0.11	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
4-Nitroaniline	<0.062		0.84	0.062	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
4-Nitrophenol	<0.31		1.7	0.31	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Bis(2-chloroethoxy)methane	<0.031		0.42	0.031	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Bis(2-chloroethyl)ether	<0.039		0.42	0.039	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
bis(chloroisopropyl) ether	<0.060		0.42	0.060	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Bis(2-ethylhexyl) phthalate	<0.33		0.42	0.33	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Butyl benzyl phthalate	<0.042		0.42	0.042	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Carbazole	<0.033		0.42	0.033	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Dibenzofuran	<0.030		0.42	0.030	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Diethyl phthalate	<0.038		0.42	0.038	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Dimethyl phthalate	<0.018		0.42	0.018	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Di-n-butyl phthalate	<0.027		0.42	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Di-n-octyl phthalate	<0.59		0.84	0.59	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Hexachlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Hexachlorobutadiene	<0.047		0.42	0.047	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB64 (7.5-10)
Lab Sample ID: 500-256339-19
Date Collected: 09/06/24 12:18
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 78.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.89		1.7	0.89	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Hexachloroethane	<0.042		0.42	0.042	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Isophorone	<0.043		0.42	0.043	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Nitrobenzene	<0.027		0.084	0.027	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
N-Nitrosodi-n-propylamine	<0.017		0.17	0.017	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
N-Nitrosodiphenylamine	<0.050		0.42	0.050	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Pentachlorophenol	<0.21		1.7	0.21	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2
Phenol	<0.036		0.42	0.036	mg/Kg	☼	09/19/24 07:59	09/19/24 19:11	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*43*		*31 - 166*	*09/19/24 07:59*	*09/19/24 19:11*	*2*
Phenol-d5 (Surr)	*58*		*30 - 153*	*09/19/24 07:59*	*09/19/24 19:11*	*2*
Nitrobenzene-d5 (Surr)	*61*		*37 - 147*	*09/19/24 07:59*	*09/19/24 19:11*	*2*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/19/24 07:59*	*09/19/24 19:11*	*2*
2,4,6-Tribromophenol (Surr)	*18*	*S1-*	*31 - 143*	*09/19/24 07:59*	*09/19/24 19:11*	*2*
Terphenyl-d14 (Surr)	*75*		*42 - 157*	*09/19/24 07:59*	*09/19/24 19:11*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011	F2	0.021	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
4,4'-DDE	<0.011		0.021	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
4,4'-DDT	<0.010	F2	0.021	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Aldrin	<0.015	F1	0.021	0.015	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
alpha-BHC	<0.012	F1	0.021	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
alpha-Chlordane	<0.011	F1 F2	0.021	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
beta-BHC	<0.017		0.021	0.017	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Chlordane (technical)	<0.040		0.084	0.040	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
delta-BHC	<0.010	F1	0.021	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Dieldrin	<0.011		0.021	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Endosulfan I	<0.011	F1	0.021	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Endosulfan II	<0.012	F1	0.021	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Endosulfan sulfate	<0.012	F1	0.021	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Endrin	<0.011	F2	0.021	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Endrin aldehyde	<0.012	F1	0.021	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Endrin ketone	<0.010		0.021	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
gamma-BHC (Lindane)	<0.011	F1 F2	0.021	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
gamma-Chlordane	<0.012	F1 F2	0.021	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Heptachlor	<0.011	F1	0.021	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Heptachlor epoxide	<0.011	F1	0.021	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Methoxychlor	<0.014		0.10	0.014	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10
Toxaphene	<0.085		0.21	0.085	mg/Kg	☼	09/19/24 07:20	09/25/24 13:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*116*		*33 - 148*	*09/19/24 07:20*	*09/25/24 13:41*	*10*
Tetrachloro-m-xylene	*98*		*30 - 121*	*09/19/24 07:20*	*09/25/24 13:41*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.21	F2 *-	0.21		mg/Kg	☼	09/19/24 07:20	09/26/24 14:43	10
PCB-1221	<0.21		0.21		mg/Kg	☼	09/19/24 07:20	09/26/24 14:43	10

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Client Sample ID: SB64 (7.5-10)

Date Collected: 09/06/24 12:18
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-19

Matrix: Solid
Percent Solids: 78.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.21		0.21		mg/Kg	☼	09/19/24 07:20	09/26/24 14:43	10
PCB-1242	<0.21		0.21		mg/Kg	☼	09/19/24 07:20	09/26/24 14:43	10
PCB-1248	<0.21		0.21		mg/Kg	☼	09/19/24 07:20	09/26/24 14:43	10
PCB-1254	<0.21		0.21		mg/Kg	☼	09/19/24 07:20	09/26/24 14:43	10
PCB-1260	<0.21	F1 *-	0.21		mg/Kg	☼	09/19/24 07:20	09/26/24 14:43	10
Polychlorinated biphenyls, Total	<0.21		0.21		mg/Kg	☼	09/19/24 07:20	09/26/24 14:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*49 - 129*	*09/19/24 07:20*	*09/26/24 14:43*	*10*
DCB Decachlorobiphenyl	*74*		*37 - 121*	*09/19/24 07:20*	*09/26/24 14:43*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22000**		24		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1
Antimony	<2.4		2.4		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1
Arsenic	**2.7**		1.2		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1
Barium	**250**		1.2		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1
Beryllium	**6.0**		0.48		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1
Cadmium	<0.24		0.24		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1
Calcium	**200000**	**^2**	120		mg/Kg	☼	09/19/24 15:54	09/23/24 18:43	5
Chromium	**23**		1.2		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1
Cobalt	<3.0		3.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:43	5
Copper	**2.7**		1.2		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1
Iron	**11000**		24		mg/Kg	☼	09/24/24 18:31	09/28/24 04:04	1
Lead	<3.0		3.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:43	5
Magnesium	**55000**	**^2**	60		mg/Kg	☼	09/19/24 15:54	09/23/24 18:43	5
Manganese	**4000**	**^2**	6.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:43	5
Nickel	**4.9**		1.2		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1
Potassium	**1200**		60		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1
Selenium	**3.7**		1.2		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1
Silver	<3.0		3.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:43	5
Sodium	**880**		120		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1
Thallium	**6.0**		6.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:43	5
Vanadium	**15**	**^2**	3.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:43	5
Zinc	**19**		2.4		mg/Kg	☼	09/19/24 15:54	09/20/24 19:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	09/25/24 17:15	09/26/24 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**13**		1.5		mg/Kg	☼	09/16/24 11:23	09/17/24 11:06	5
pH (SW846 9045D)	**11.52**		0.20		SU			09/12/24 12:56	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB65 (0-3)
Lab Sample ID: 500-256339-20
Date Collected: 09/06/24 13:14
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00089		0.0022	0.00089	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
1,1,2-Trichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
1,1-Dichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
1,1-Dichloroethene	<0.00091		0.0022	0.00091	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
1,2-Dichloroethane	<0.0014		0.0055	0.0014	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
2-Hexanone	<0.0034		0.0055	0.0034	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0055	0.0039	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Acetone	<0.0093		0.022	0.0093	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Benzene	<0.00069		0.0022	0.00069	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Bromodichloromethane	<0.00071		0.0022	0.00071	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Bromomethane	<0.0027		0.0055	0.0027	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Carbon disulfide	**0.0039**	**J**	0.0055	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Carbon tetrachloride	<0.00075		0.0022	0.00075	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Chlorobenzene	<0.00093		0.0022	0.00093	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Chloroethane	<0.0018		0.0055	0.0018	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
cis-1,2-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Methyl tert-butyl ether	<0.00071		0.0022	0.00071	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Methylene Chloride	<0.0024		0.0055	0.0024	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Styrene	<0.00099		0.0022	0.00099	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Xylenes, Total	<0.00076		0.0044	0.00076	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
trans-1,2-Dichloroethene	<0.00084		0.0022	0.00084	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Trichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1
Vinyl chloride	<0.00090		0.0022	0.00090	mg/Kg	☼	09/06/24 16:49	09/16/24 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/06/24 16:49*	*09/16/24 18:04*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*09/06/24 16:49*	*09/16/24 18:04*	*1*
Dibromofluoromethane	*97*		*75 - 126*	*09/06/24 16:49*	*09/16/24 18:04*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*09/06/24 16:49*	*09/16/24 18:04*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.079**		0.035	0.0071	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Acenaphthylene	**0.017**	**J**	0.035	0.0059	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Anthracene	**0.10**		0.035	0.0071	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Benzo[a]anthracene	**0.57**		0.035	0.0074	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Benzo[a]pyrene	**1.0**		0.035	0.034	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Benzo[b]fluoranthene	**1.3**		0.035	0.033	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Benzo[g,h,i]perylene	**1.0**		0.035	0.0076	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB65 (0-3)
Lab Sample ID: 500-256339-20
Date Collected: 09/06/24 13:14
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.44**		0.035	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Chrysene	**0.69**		0.035	0.0092	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Dibenz(a,h)anthracene	**0.19**		0.035	0.035	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Fluoranthene	**0.78**		0.035	0.0081	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Fluorene	**0.032**	**J**	0.035	0.010	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Indeno[1,2,3-cd]pyrene	**0.90**		0.035	0.034	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Naphthalene	**0.025**	**J**	0.035	0.0063	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Phenanthrene	**0.36**		0.035	0.0076	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Pyrene	**0.78**		0.035	0.0095	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
1,4-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2,4-Dimethylphenol	<0.078		0.35	0.078	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2,4-Dinitrophenol	<0.20		0.70	0.20	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2-Methylnaphthalene	**0.014**	**J**	0.070	0.0070	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2-Methylphenol	<0.018		0.18	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
3,3'-Dichlorobenzidine	<0.028		0.18	0.028	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
4,6-Dinitro-2-methylphenol	<0.20		0.70	0.20	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
4-Chloroaniline	<0.37		0.70	0.37	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
4-Nitrophenol	<0.13		0.70	0.13	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Butyl benzyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Carbazole	**0.043**	**J**	0.18	0.014	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Dibenzofuran	**0.035**	**J**	0.18	0.012	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Dimethyl phthalate	<0.0076		0.18	0.0076	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Di-n-octyl phthalate	<0.24		0.35	0.24	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Hexachlorobenzene	<0.0067		0.070	0.0067	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB65 (0-3)
Lab Sample ID: 500-256339-20
Date Collected: 09/06/24 13:14
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.70	0.37	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Hexachloroethane	<0.017		0.18	0.017	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
N-Nitrosodi-n-propylamine	<0.0069		0.070	0.0069	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Pentachlorophenol	<0.087		0.70	0.087	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/19/24 07:59	09/20/24 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*50*		*31 - 166*	*09/19/24 07:59*	*09/20/24 15:34*	*1*
Phenol-d5 (Surr)	*51*		*30 - 153*	*09/19/24 07:59*	*09/20/24 15:34*	*1*
Nitrobenzene-d5 (Surr)	*52*		*37 - 147*	*09/19/24 07:59*	*09/20/24 15:34*	*1*
2-Fluorobiphenyl (Surr)	*49*		*43 - 145*	*09/19/24 07:59*	*09/20/24 15:34*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*31 - 143*	*09/19/24 07:59*	*09/20/24 15:34*	*1*
Terphenyl-d14 (Surr)	*79*		*42 - 157*	*09/19/24 07:59*	*09/20/24 15:34*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/19/24 07:20	09/25/24 14:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*114*		*33 - 148*	*09/19/24 07:20*	*09/25/24 14:16*	*10*
Tetrachloro-m-xylene	*106*		*30 - 121*	*09/19/24 07:20*	*09/25/24 14:16*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:29	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:29	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB65 (0-3)
Lab Sample ID: 500-256339-20

Date Collected: 09/06/24 13:14
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:29	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:29	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:29	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:29	10
PCB-1260	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:29	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*49 - 129*	*09/19/24 07:20*	*09/26/24 15:29*	*10*
DCB Decachlorobiphenyl	*61*		*37 - 121*	*09/19/24 07:20*	*09/26/24 15:29*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		20		mg/Kg	☼	09/19/24 15:54	09/20/24 19:22	1
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:22	1
Arsenic	**2.4**		0.98		mg/Kg	☼	09/19/24 15:54	09/20/24 19:22	1
Barium	**260**		4.9		mg/Kg	☼	09/19/24 15:54	09/23/24 18:48	5
Beryllium	**5.5**		0.39		mg/Kg	☼	09/19/24 15:54	09/20/24 19:22	1
Cadmium	<0.20		0.20		mg/Kg	☼	09/19/24 15:54	09/20/24 19:22	1
Calcium	**210000**	**^2**	98		mg/Kg	☼	09/19/24 15:54	09/23/24 18:48	5
Chromium	**20**		0.98		mg/Kg	☼	09/19/24 15:54	09/20/24 19:22	1
Cobalt	<2.4		2.4		mg/Kg	☼	09/19/24 15:54	09/23/24 18:48	5
Copper	**12**		0.98		mg/Kg	☼	09/19/24 15:54	09/20/24 19:22	1
Iron	**23000**		19		mg/Kg	☼	09/24/24 18:31	09/28/24 04:08	1
Lead	**31**		2.4		mg/Kg	☼	09/19/24 15:54	09/23/24 18:48	5
Magnesium	**54000**	**^2**	49		mg/Kg	☼	09/19/24 15:54	09/23/24 18:48	5
Manganese	**3400**	**^2**	4.9		mg/Kg	☼	09/19/24 15:54	09/23/24 18:48	5
Nickel	**78**		0.98		mg/Kg	☼	09/19/24 15:54	09/20/24 19:22	1
Potassium	**1600**		49		mg/Kg	☼	09/19/24 15:54	09/20/24 19:22	1
Selenium	**3.1**		0.98		mg/Kg	☼	09/19/24 15:54	09/20/24 19:22	1
Silver	<2.4		2.4		mg/Kg	☼	09/19/24 15:54	09/23/24 18:48	5
Sodium	**950**		98		mg/Kg	☼	09/19/24 15:54	09/20/24 19:22	1
Thallium	**5.6**		4.9		mg/Kg	☼	09/19/24 15:54	09/23/24 18:48	5
Vanadium	**19**	**^2**	2.4		mg/Kg	☼	09/19/24 15:54	09/23/24 18:48	5
Zinc	**65**		2.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/25/24 17:15	09/26/24 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.7**		0.25		mg/Kg	☼	09/16/24 11:23	09/16/24 16:22	1
pH (SW846 9045D)	**9.57**		0.20		SU			09/12/24 12:59	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB65 (7.5-10)
Lab Sample ID: 500-256339-21
Date Collected: 09/06/24 13:25
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 93.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00090		0.0022	0.00090	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
1,1,2-Trichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
1,1-Dichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
1,1-Dichloroethene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
1,2-Dichloroethane	<0.0014		0.0056	0.0014	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
1,2-Dichloropropane	<0.00058		0.0022	0.00058	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
2-Butanone (MEK)	**0.0073**		0.0056	0.0025	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Acetone	**0.012**	**J**	0.022	0.0094	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Benzene	<0.00070		0.0022	0.00070	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Bromodichloromethane	<0.00072		0.0022	0.00072	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Bromomethane	<0.0028		0.0056	0.0028	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Carbon disulfide	**0.0059**		0.0056	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Carbon tetrachloride	<0.00076		0.0022	0.00076	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Chlorobenzene	<0.00094		0.0022	0.00094	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
cis-1,2-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Methyl tert-butyl ether	<0.00072		0.0022	0.00072	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Styrene	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Tetrachloroethene	<0.0013		0.0022	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Toluene	**0.00077**	**J**	0.0022	0.00045	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Xylenes, Total	<0.00077		0.0045	0.00077	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
trans-1,2-Dichloroethene	<0.00084		0.0022	0.00084	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Trichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1
Vinyl chloride	<0.00091		0.0022	0.00091	mg/Kg	☼	09/06/24 16:49	09/16/24 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*09/06/24 16:49*	*09/16/24 18:29*	*1*
4-Bromofluorobenzene (Surr)	*113*		*75 - 131*	*09/06/24 16:49*	*09/16/24 18:29*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*09/06/24 16:49*	*09/16/24 18:29*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*09/06/24 16:49*	*09/16/24 18:29*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.031**	**J**	0.071	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Acenaphthylene	**0.017**	**J**	0.071	0.012	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Anthracene	**0.040**	**J**	0.071	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Benzo[a]anthracene	**0.26**		0.071	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Benzo[a]pyrene	**0.42**		0.071	0.069	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Benzo[b]fluoranthene	**0.53**		0.071	0.068	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Benzo[g,h,i]perylene	**0.41**		0.071	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB65 (7.5-10)
Lab Sample ID: 500-256339-21
Date Collected: 09/06/24 13:25
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 93.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.22**		0.071	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Chrysene	**0.34**		0.071	0.019	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Dibenz(a,h)anthracene	**0.11**		0.071	0.071	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Fluoranthene	**0.34**		0.071	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Fluorene	<0.021		0.071	0.021	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Indeno[1,2,3-cd]pyrene	**0.39**		0.071	0.069	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Naphthalene	<0.013		0.071	0.013	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Phenanthrene	**0.15**		0.071	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Pyrene	**0.34**		0.071	0.019	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2-Methylnaphthalene	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
2-Nitrophenol	<0.048		0.71	0.048	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
3-Nitroaniline	<0.032		0.71	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
4-Chlorophenyl phenyl ether	<0.093		0.36	0.093	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Butyl benzyl phthalate	<0.035		0.36	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Carbazole	<0.028		0.36	0.028	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Dibenzofuran	<0.025		0.36	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Diethyl phthalate	**0.050**	**J B**	0.36	0.033	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Dimethyl phthalate	<0.015		0.36	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB65 (7.5-10)
Lab Sample ID: 500-256339-21
Date Collected: 09/06/24 13:25
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 93.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.75		1.4	0.75	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/17/24 13:27	09/18/24 14:36	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*55*		*31 - 166*	*09/17/24 13:27*	*09/18/24 14:36*	*2*
Phenol-d5 (Surr)	*57*		*30 - 153*	*09/17/24 13:27*	*09/18/24 14:36*	*2*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*09/17/24 13:27*	*09/18/24 14:36*	*2*
2-Fluorobiphenyl (Surr)	*59*		*43 - 145*	*09/17/24 13:27*	*09/18/24 14:36*	*2*
2,4,6-Tribromophenol (Surr)	*24*	*S1-*	*31 - 143*	*09/17/24 13:27*	*09/18/24 14:36*	*2*
Terphenyl-d14 (Surr)	*57*		*42 - 157*	*09/17/24 13:27*	*09/18/24 14:36*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
alpha-Chlordane	<0.0095		0.018	0.0095	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Chlordane (technical)	<0.034		0.070	0.034	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
delta-BHC	<0.0085		0.018	0.0085	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Endosulfan I	<0.0096		0.018	0.0096	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Endosulfan sulfate	<0.0098		0.018	0.0098	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Heptachlor	<0.0096		0.018	0.0096	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10
Toxaphene	<0.071		0.17	0.071	mg/Kg	☼	09/19/24 07:20	09/25/24 14:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*33 - 148*	*09/19/24 07:20*	*09/25/24 14:28*	*10*
Tetrachloro-m-xylene	*62*		*30 - 121*	*09/19/24 07:20*	*09/25/24 14:28*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:44	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:44	10

Client Sample ID: SB65 (7.5-10)
Lab Sample ID: 500-256339-21

Date Collected: 09/06/24 13:25
Matrix: Solid

Date Received: 09/09/24 10:16
Percent Solids: 93.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:44	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:44	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:44	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:44	10
PCB-1260	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:44	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 15:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*49 - 129*	*09/19/24 07:20*	*09/26/24 15:44*	*10*
DCB Decachlorobiphenyl	*47*		*37 - 121*	*09/19/24 07:20*	*09/26/24 15:44*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		20		mg/Kg	☼	09/19/24 15:54	09/20/24 19:26	1
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:26	1
Arsenic	**13**		5.1		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Barium	**150**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:26	1
Beryllium	**4.5**		2.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Cadmium	<1.0		1.0		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Calcium	**120000**	**^2**	100		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Chromium	**130**		1.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:26	1
Cobalt	**13**		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Copper	**61**		5.1		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Iron	**46000**	**^2**	19		mg/Kg	☼	09/24/24 18:31	09/26/24 04:05	1
Lead	**43**		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Magnesium	**34000**	**^2**	51		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Manganese	**3800**	**^2**	5.1		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Nickel	**2200**		5.1		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Potassium	**960**		51		mg/Kg	☼	09/19/24 15:54	09/20/24 19:26	1
Selenium	<5.1		5.1		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Silver	<2.6		2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Sodium	**700**		510		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Thallium	**7.0**		5.1		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Vanadium	**38**	**^2**	2.6		mg/Kg	☼	09/19/24 15:54	09/23/24 18:53	5
Zinc	**75**		2.0		mg/Kg	☼	09/19/24 15:54	09/20/24 19:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.065**		0.016		mg/Kg	☼	09/25/24 17:15	09/26/24 09:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.7**		0.25		mg/Kg	☼	09/16/24 11:23	09/16/24 16:24	1
pH (SW846 9045D)	**9.60**		0.20		SU			09/12/24 13:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB66 (0-3)
Lab Sample ID: 500-256339-22
Date Collected: 09/06/24 14:08
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00086		0.0021	0.00086	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0021	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
1,1,2-Trichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
1,1-Dichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
1,1-Dichloroethene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
1,2-Dichloroethane	<0.0014		0.0053	0.0014	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
2-Butanone (MEK)	<0.0023		0.0053	0.0023	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
2-Hexanone	<0.0032		0.0053	0.0032	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0053	0.0038	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Acetone	<0.0089		0.021	0.0089	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Benzene	<0.00067		0.0021	0.00067	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Bromodichloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Bromomethane	<0.0026		0.0053	0.0026	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Carbon disulfide	**0.0034**	**J**	0.0053	0.00098	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Carbon tetrachloride	<0.00073		0.0021	0.00073	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Chlorobenzene	<0.00090		0.0021	0.00090	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Chloroethane	<0.0017		0.0053	0.0017	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Chloromethane	<0.0010		0.0053	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
cis-1,2-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Dibromochloromethane	<0.00099		0.0021	0.00099	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Methyl tert-butyl ether	<0.00069		0.0021	0.00069	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Methylene Chloride	<0.0023		0.0053	0.0023	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Styrene	<0.00096		0.0021	0.00096	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Toluene	<0.00043		0.0021	0.00043	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Xylenes, Total	<0.00073		0.0043	0.00073	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
trans-1,2-Dichloroethene	<0.00081		0.0021	0.00081	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Trichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1
Vinyl chloride	<0.00087		0.0021	0.00087	mg/Kg	☼	09/06/24 16:49	09/16/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/06/24 16:49*	*09/16/24 18:54*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*09/06/24 16:49*	*09/16/24 18:54*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/06/24 16:49*	*09/16/24 18:54*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*09/06/24 16:49*	*09/16/24 18:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.25**		0.072	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Acenaphthylene	<0.012		0.072	0.012	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Anthracene	**0.23**		0.072	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Benzo[a]anthracene	**1.7**		0.072	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Benzo[a]pyrene	**3.8**		0.072	0.070	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Benzo[b]fluoranthene	**3.8**		0.072	0.069	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Benzo[g,h,i]perylene	**3.5**		0.072	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB66 (0-3)
Lab Sample ID: 500-256339-22
Date Collected: 09/06/24 14:08
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.7**		0.072	0.028	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Chrysene	**2.1**		0.072	0.019	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Dibenz(a,h)anthracene	**0.58**		0.072	0.072	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Fluoranthene	**2.2**		0.072	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Fluorene	**0.078**		0.072	0.022	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Indeno[1,2,3-cd]pyrene	**3.2**		0.072	0.071	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Naphthalene	**0.041**	**J**	0.072	0.013	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Phenanthrene	**0.99**		0.072	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Pyrene	**2.3**		0.072	0.020	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
1,2,4-Trichlorobenzene	<0.052		0.37	0.052	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
1,3-Dichlorobenzene	<0.033		0.37	0.033	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
1,4-Dichlorobenzene	<0.034		0.37	0.034	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2,4,5-Trichlorophenol	<0.027		0.72	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2,4,6-Trichlorophenol	<0.025		0.72	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2,4-Dichlorophenol	<0.026		0.72	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2,4-Dimethylphenol	<0.16		0.72	0.16	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2,4-Dinitrotoluene	<0.041		0.37	0.041	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2-Chloronaphthalene	<0.027		0.37	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2-Chlorophenol	<0.023		0.37	0.023	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2-Methylnaphthalene	**0.019**	**J**	0.15	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2-Methylphenol	<0.038		0.37	0.038	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2-Nitroaniline	<0.039		0.37	0.039	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
2-Nitrophenol	<0.049		0.72	0.049	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
3,3'-Dichlorobenzidine	<0.059		0.37	0.059	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
3 & 4 Methylphenol	<0.053		0.37	0.053	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
3-Nitroaniline	<0.033		0.72	0.033	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
4-Bromophenyl phenyl ether	<0.050		0.37	0.050	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
4-Chloro-3-methylphenol	<0.028		0.72	0.028	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
4-Chloroaniline	<0.76		1.5	0.76	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
4-Chlorophenyl phenyl ether	<0.095		0.37	0.095	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
4-Nitroaniline	<0.054		0.72	0.054	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Bis(2-chloroethoxy)methane	<0.027		0.37	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Bis(2-chloroethyl)ether	<0.034		0.37	0.034	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
bis(chloroisopropyl) ether	<0.052		0.37	0.052	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Bis(2-ethylhexyl) phthalate	<0.29		0.37	0.29	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Butyl benzyl phthalate	<0.036		0.37	0.036	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Carbazole	**0.16**	**J**	0.37	0.029	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Dibenzofuran	**0.044**	**J**	0.37	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Diethyl phthalate	**0.047**	**J B**	0.37	0.033	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Di-n-butyl phthalate	<0.023		0.37	0.023	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Di-n-octyl phthalate	<0.51		0.72	0.51	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Hexachlorobutadiene	<0.041		0.37	0.041	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB66 (0-3)
Lab Sample ID: 500-256339-22
Date Collected: 09/06/24 14:08
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.77		1.5	0.77	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Hexachloroethane	<0.036		0.37	0.036	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Isophorone	<0.038		0.37	0.038	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Nitrobenzene	<0.023		0.072	0.023	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
N-Nitrosodiphenylamine	<0.043		0.37	0.043	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2
Phenol	<0.032		0.37	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 15:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*53*		*31 - 166*	*09/17/24 13:27*	*09/18/24 15:00*	*2*
Phenol-d5 (Surr)	*54*		*30 - 153*	*09/17/24 13:27*	*09/18/24 15:00*	*2*
Nitrobenzene-d5 (Surr)	*56*		*37 - 147*	*09/17/24 13:27*	*09/18/24 15:00*	*2*
2-Fluorobiphenyl (Surr)	*52*		*43 - 145*	*09/17/24 13:27*	*09/18/24 15:00*	*2*
2,4,6-Tribromophenol (Surr)	*30*	*S1-*	*31 - 143*	*09/17/24 13:27*	*09/18/24 15:00*	*2*
Terphenyl-d14 (Surr)	*49*		*42 - 157*	*09/17/24 13:27*	*09/18/24 15:00*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0096		0.018	0.0096	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
4,4'-DDE	<0.0092		0.018	0.0092	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
4,4'-DDT	<0.0085		0.018	0.0085	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
alpha-Chlordane	<0.0096		0.018	0.0096	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
delta-BHC	<0.0086		0.018	0.0086	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Dieldrin	<0.0094		0.018	0.0094	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Endosulfan I	<0.0097		0.018	0.0097	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Endosulfan II	<0.0098		0.018	0.0098	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Endosulfan sulfate	<0.0099		0.018	0.0099	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Endrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Endrin ketone	<0.0087		0.018	0.0087	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
gamma-BHC (Lindane)	<0.0089		0.018	0.0089	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Heptachlor	<0.0097		0.018	0.0097	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Heptachlor epoxide	<0.0097		0.018	0.0097	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Methoxychlor	<0.012		0.088	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/19/24 07:20	09/25/24 14:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*33 - 148*	*09/19/24 07:20*	*09/25/24 14:39*	*10*
Tetrachloro-m-xylene	*62*		*30 - 121*	*09/19/24 07:20*	*09/25/24 14:39*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	*-	0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:00	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:00	10

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Client Sample ID: SB66 (0-3)

Date Collected: 09/06/24 14:08
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-22

Matrix: Solid
Percent Solids: 90.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:00	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:00	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:00	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:00	10
PCB-1260	<0.18	*-	0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:00	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*49 - 129*	*09/19/24 07:20*	*09/26/24 16:00*	*10*
DCB Decachlorobiphenyl	*105*		*37 - 121*	*09/19/24 07:20*	*09/26/24 16:00*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		20		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Arsenic	**2.5**		0.99		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Barium	**170**		0.99		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Beryllium	**5.5**		0.40		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Cadmium	<0.20		0.20		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Calcium	**210000**	**B**	99		mg/Kg	☼	09/19/24 15:57	09/24/24 23:21	5
Chromium	**15**		0.99		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Cobalt	<2.5		2.5		mg/Kg	☼	09/19/24 15:57	09/23/24 23:06	5
Copper	**13**		0.99		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Iron	**20000**	**B**	99		mg/Kg	☼	09/19/24 15:57	09/24/24 23:21	5
Lead	**21**		2.5		mg/Kg	☼	09/19/24 15:57	09/23/24 23:06	5
Magnesium	**35000**		9.9		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Manganese	**1800**	**B**	0.99		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Nickel	**4.1**		0.99		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Potassium	**1400**		49		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Selenium	**2.8**		0.99		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Silver	<2.5		2.5		mg/Kg	☼	09/19/24 15:57	09/23/24 23:06	5
Sodium	**870**		99		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Thallium	**3.0**		0.99		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1
Vanadium	**13**		2.5		mg/Kg	☼	09/19/24 15:57	09/24/24 23:21	5
Zinc	**68**		2.0		mg/Kg	☼	09/19/24 15:57	09/20/24 20:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/25/24 17:15	09/26/24 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.1**		0.25		mg/Kg	☼	09/16/24 11:23	09/16/24 16:40	1
pH (SW846 9045D)	**9.13**		0.20		SU			09/12/24 13:03	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB66 (5-7.5)
Lab Sample ID: 500-256339-23
Date Collected: 09/06/24 14:18
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0026	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
1,1,2-Trichloroethane	<0.00099		0.0026	0.00099	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
1,1-Dichloroethane	<0.0010		0.0026	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
1,1-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
1,2-Dichloroethane	<0.0017		0.0066	0.0017	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
1,2-Dichloropropane	<0.00068		0.0026	0.00068	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
2-Butanone (MEK)	<0.0029		0.0066	0.0029	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
2-Hexanone	<0.0040		0.0066	0.0040	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0066	0.0047	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Acetone	<0.011		0.026	0.011	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Benzene	<0.00083		0.0026	0.00083	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Bromodichloromethane	<0.00085		0.0026	0.00085	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Bromoform	<0.0015		0.0026	0.0015	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Bromomethane	<0.0033		0.0066	0.0033	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Carbon disulfide	**0.0037**	**J**	0.0066	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Carbon tetrachloride	<0.00090		0.0026	0.00090	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Chlorobenzene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Chloroethane	<0.0022		0.0066	0.0022	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Chloroform	<0.0019		0.0026	0.0019	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Chloromethane	<0.0013		0.0066	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
cis-1,2-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
1,3-Dichloropropene, Total	<0.0013		0.0026	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Dibromochloromethane	<0.0012		0.0026	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Ethylbenzene	<0.0014		0.0026	0.0014	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Methyl tert-butyl ether	<0.00085		0.0026	0.00085	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Methylene Chloride	<0.0028		0.0066	0.0028	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Styrene	<0.0012		0.0026	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Tetrachloroethene	<0.0015		0.0026	0.0015	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Toluene	<0.00053		0.0026	0.00053	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Xylenes, Total	<0.00091		0.0053	0.00091	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
trans-1,2-Dichloroethene	<0.0010		0.0026	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Trichloroethene	<0.00072		0.0026	0.00072	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1
Vinyl chloride	<0.0011		0.0026	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*09/06/24 16:49*	*09/16/24 19:19*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*09/06/24 16:49*	*09/16/24 19:19*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/06/24 16:49*	*09/16/24 19:19*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*09/06/24 16:49*	*09/16/24 19:19*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.055**	**J**	0.071	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Acenaphthylene	<0.012		0.071	0.012	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Anthracene	**0.12**		0.071	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Benzo[a]anthracene	**0.51**		0.071	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Benzo[a]pyrene	**0.74**		0.071	0.068	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Benzo[b]fluoranthene	**0.89**		0.071	0.068	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Benzo[g,h,i]perylene	**0.69**		0.071	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB66 (5-7.5)
Lab Sample ID: 500-256339-23
Date Collected: 09/06/24 14:18
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.36**		0.071	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Chrysene	**0.56**		0.071	0.019	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Dibenz(a,h)anthracene	**0.14**		0.071	0.071	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Fluoranthene	**0.87**		0.071	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Fluorene	**0.025**	**J**	0.071	0.021	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Indeno[1,2,3-cd]pyrene	**0.62**		0.071	0.069	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Naphthalene	**0.017**	**J**	0.071	0.013	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Phenanthrene	**0.45**		0.071	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Pyrene	**0.75**		0.071	0.019	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2,4-Dinitrotoluene	<0.040		0.36	0.040	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2-Chloronaphthalene	<0.026		0.36	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2-Methylnaphthalene	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2-Methylphenol	<0.037		0.36	0.037	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
2-Nitrophenol	<0.048		0.71	0.048	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
3-Nitroaniline	<0.032		0.71	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
4-Chloroaniline	<0.74		1.4	0.74	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
4-Chlorophenyl phenyl ether	<0.093		0.36	0.093	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
4-Nitroaniline	<0.052		0.71	0.052	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Bis(2-chloroethoxy)methane	<0.026		0.36	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Bis(2-ethylhexyl) phthalate	**1.1**		0.36	0.28	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Butyl benzyl phthalate	<0.035		0.36	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Carbazole	**0.053**	**J**	0.36	0.028	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Dibenzofuran	**0.032**	**J**	0.36	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Diethyl phthalate	**0.045**	**J B**	0.36	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Dimethyl phthalate	<0.015		0.36	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Di-n-butyl phthalate	<0.022		0.36	0.022	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB66 (5-7.5)
Lab Sample ID: 500-256339-23
Date Collected: 09/06/24 14:18
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.75		1.4	0.75	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Hexachloroethane	<0.035		0.36	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Nitrobenzene	<0.022		0.071	0.022	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/17/24 13:27	09/18/24 15:25	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*51*		*31 - 166*	*09/17/24 13:27*	*09/18/24 15:25*	*2*
Phenol-d5 (Surr)	*52*		*30 - 153*	*09/17/24 13:27*	*09/18/24 15:25*	*2*
Nitrobenzene-d5 (Surr)	*50*		*37 - 147*	*09/17/24 13:27*	*09/18/24 15:25*	*2*
2-Fluorobiphenyl (Surr)	*51*		*43 - 145*	*09/17/24 13:27*	*09/18/24 15:25*	*2*
2,4,6-Tribromophenol (Surr)	*38*		*31 - 143*	*09/17/24 13:27*	*09/18/24 15:25*	*2*
Terphenyl-d14 (Surr)	*54*		*42 - 157*	*09/17/24 13:27*	*09/18/24 15:25*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
delta-BHC	<0.0083		0.017	0.0083	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Endosulfan II	<0.0095		0.017	0.0095	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Endosulfan sulfate	<0.0096		0.017	0.0096	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Endrin aldehyde	<0.0099		0.017	0.0099	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Heptachlor	<0.0094		0.017	0.0094	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/19/24 07:20	09/25/24 14:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*115*		*33 - 148*	*09/19/24 07:20*	*09/25/24 14:51*	*10*
Tetrachloro-m-xylene	*62*		*30 - 121*	*09/19/24 07:20*	*09/25/24 14:51*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:15	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:15	10

Client Sample ID: SB66 (5-7.5)
Date Collected: 09/06/24 14:18
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-23
Matrix: Solid
Percent Solids: 92.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:15	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:15	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:15	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:15	10
PCB-1260	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:15	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*49 - 129*	*09/19/24 07:20*	*09/26/24 16:15*	*10*
DCB Decachlorobiphenyl	*68*		*37 - 121*	*09/19/24 07:20*	*09/26/24 16:15*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18000**		21		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Antimony	<2.1		2.1		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Arsenic	**2.7**		1.1		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Barium	**200**		1.1		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Beryllium	**6.0**		0.43		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Cadmium	**0.26**		0.21		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Calcium	**200000**	**B**	110		mg/Kg	☼	09/19/24 15:57	09/24/24 23:25	5
Chromium	**21**		1.1		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Cobalt	<2.7		2.7		mg/Kg	☼	09/19/24 15:57	09/23/24 23:11	5
Copper	**11**		1.1		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Iron	**24000**	**B**	110		mg/Kg	☼	09/19/24 15:57	09/24/24 23:25	5
Lead	**34**		2.7		mg/Kg	☼	09/19/24 15:57	09/23/24 23:11	5
Magnesium	**31000**		11		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Manganese	**2100**	**B**	1.1		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Nickel	**10**		1.1		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Potassium	**1500**		53		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Selenium	**2.9**		1.1		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Silver	<2.7		2.7		mg/Kg	☼	09/19/24 15:57	09/23/24 23:11	5
Sodium	**860**		110		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Thallium	**3.9**		1.1		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1
Vanadium	**19**		2.7		mg/Kg	☼	09/19/24 15:57	09/24/24 23:25	5
Zinc	**120**		2.1		mg/Kg	☼	09/19/24 15:57	09/20/24 20:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/25/24 17:15	09/26/24 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.4**		0.25		mg/Kg	☼	09/16/24 11:23	09/16/24 16:41	1
pH (SW846 9045D)	**8.85**		0.20		SU			09/12/24 13:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB67 (0-3)
Lab Sample ID: 500-256339-24
Date Collected: 09/06/24 14:55
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00087		0.0022	0.00087	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
1,1-Dichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
1,1-Dichloroethene	<0.00088		0.0022	0.00088	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
1,2-Dichloropropane	<0.00055		0.0022	0.00055	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
2-Butanone (MEK)	**0.0034**	**J**	0.0054	0.0024	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0054	0.0038	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Acetone	<0.0090		0.022	0.0090	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Benzene	<0.00068		0.0022	0.00068	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Bromodichloromethane	<0.00069		0.0022	0.00069	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Bromomethane	<0.0026		0.0054	0.0026	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Carbon disulfide	**0.0046**	**J**	0.0054	0.00099	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Carbon tetrachloride	<0.00073		0.0022	0.00073	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Chlorobenzene	<0.00091		0.0022	0.00091	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Chloroform	<0.0015		0.0022	0.0015	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Chloromethane	<0.0010		0.0054	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
cis-1,2-Dichloroethene	<0.00087		0.0022	0.00087	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Methyl tert-butyl ether	<0.00069		0.0022	0.00069	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Styrene	<0.00097		0.0022	0.00097	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Toluene	<0.00043		0.0022	0.00043	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Xylenes, Total	<0.00074		0.0043	0.00074	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
trans-1,2-Dichloroethene	<0.00081		0.0022	0.00081	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Trichloroethene	<0.00058		0.0022	0.00058	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1
Vinyl chloride	<0.00088		0.0022	0.00088	mg/Kg	☼	09/06/24 16:49	09/16/24 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*09/06/24 16:49*	*09/16/24 19:44*	*1*
4-Bromofluorobenzene (Surr)	*117*		*75 - 131*	*09/06/24 16:49*	*09/16/24 19:44*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*09/06/24 16:49*	*09/16/24 19:44*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/06/24 16:49*	*09/16/24 19:44*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.028**	**J**	0.069	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Acenaphthylene	**0.018**	**J**	0.069	0.012	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Anthracene	**0.080**		0.069	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Benzo[a]anthracene	**0.46**		0.069	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Benzo[a]pyrene	**0.65**		0.069	0.067	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Benzo[b]fluoranthene	**0.82**		0.069	0.067	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Benzo[g,h,i]perylene	**0.60**		0.069	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB67 (0-3)
Lab Sample ID: 500-256339-24
Date Collected: 09/06/24 14:55
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.35**		0.069	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Chrysene	**0.52**		0.069	0.018	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Dibenz(a,h)anthracene	**0.14**		0.069	0.069	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Fluoranthene	**0.79**		0.069	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Fluorene	**0.024**	**J**	0.069	0.021	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Indeno[1,2,3-cd]pyrene	**0.57**		0.069	0.068	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Naphthalene	<0.013		0.069	0.013	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Phenanthrene	**0.29**		0.069	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Pyrene	**0.70**		0.069	0.019	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
1,2,4-Trichlorobenzene	<0.050		0.35	0.050	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
1,3-Dichlorobenzene	<0.032		0.35	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2,4,5-Trichlorophenol	<0.026		0.69	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2,4,6-Trichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2,4-Dichlorophenol	<0.025		0.69	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2,4-Dimethylphenol	<0.16		0.69	0.16	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2,4-Dinitrotoluene	<0.040		0.35	0.040	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2-Chlorophenol	<0.023		0.35	0.023	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2-Methylnaphthalene	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2-Methylphenol	<0.037		0.35	0.037	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
2-Nitrophenol	<0.047		0.69	0.047	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
3,3'-Dichlorobenzidine	<0.057		0.35	0.057	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
3-Nitroaniline	<0.032		0.69	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
4-Bromophenyl phenyl ether	<0.048		0.35	0.048	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
4-Chloro-3-methylphenol	<0.027		0.69	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
4-Chloroaniline	<0.73		1.4	0.73	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
4-Chlorophenyl phenyl ether	<0.092		0.35	0.092	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
4-Nitroaniline	<0.052		0.69	0.052	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Butyl benzyl phthalate	<0.035		0.35	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Carbazole	**0.043**	**J**	0.35	0.028	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Dibenzofuran	<0.025		0.35	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Diethyl phthalate	**0.036**	**J B**	0.35	0.032	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Di-n-octyl phthalate	<0.49		0.69	0.49	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2

Client Sample ID: SB67 (0-3)
Lab Sample ID: 500-256339-24
Date Collected: 09/06/24 14:55
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.74		1.4	0.74	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Nitrobenzene	<0.022		0.069	0.022	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/17/24 13:27	09/18/24 15:49	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*56*		*31 - 166*	*09/17/24 13:27*	*09/18/24 15:49*	*2*
Phenol-d5 (Surr)	*61*		*30 - 153*	*09/17/24 13:27*	*09/18/24 15:49*	*2*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*09/17/24 13:27*	*09/18/24 15:49*	*2*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*09/17/24 13:27*	*09/18/24 15:49*	*2*
2,4,6-Tribromophenol (Surr)	*30*	*S1-*	*31 - 143*	*09/17/24 13:27*	*09/18/24 15:49*	*2*
Terphenyl-d14 (Surr)	*61*		*42 - 157*	*09/17/24 13:27*	*09/18/24 15:49*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
delta-BHC	<0.0083		0.017	0.0083	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Endosulfan I	<0.0094		0.017	0.0094	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Endosulfan II	<0.0095		0.017	0.0095	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Endosulfan sulfate	<0.0096		0.017	0.0096	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Endrin aldehyde	<0.0099		0.017	0.0099	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
gamma-Chlordane	<0.010		0.017	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Heptachlor	<0.0094		0.017	0.0094	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/19/24 07:20	09/25/24 15:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*33 - 148*	*09/19/24 07:20*	*09/25/24 15:03*	*10*
Tetrachloro-m-xylene	*42*		*30 - 121*	*09/19/24 07:20*	*09/25/24 15:03*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:30	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:30	10

Client Sample ID: SB67 (0-3)
Lab Sample ID: 500-256339-24

Date Collected: 09/06/24 14:55
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:30	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:30	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:30	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:30	10
PCB-1260	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:30	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 16:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*09/19/24 07:20*	*09/26/24 16:30*	*10*
DCB Decachlorobiphenyl	*74*		*37 - 121*	*09/19/24 07:20*	*09/26/24 16:30*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		20		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Arsenic	**4.1**		1.0		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Barium	**160**		1.0		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Beryllium	**3.9**		0.41		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Cadmium	**0.74**		0.20		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Calcium	**110000**	**B**	100		mg/Kg	☼	09/19/24 15:57	09/24/24 23:30	5
Chromium	**56**		1.0		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Cobalt	**2.7**		2.6		mg/Kg	☼	09/19/24 15:57	09/23/24 23:15	5
Copper	**140**		1.0		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Iron	**40000**	**B**	100		mg/Kg	☼	09/19/24 15:57	09/24/24 23:30	5
Lead	**120**		2.6		mg/Kg	☼	09/19/24 15:57	09/23/24 23:15	5
Magnesium	**11000**		10		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Manganese	**2900**	**B**	5.1		mg/Kg	☼	09/19/24 15:57	09/24/24 23:30	5
Nickel	**22**		1.0		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Potassium	**1400**		51		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Selenium	**2.3**		1.0		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Silver	<2.6		2.6		mg/Kg	☼	09/19/24 15:57	09/23/24 23:15	5
Sodium	**510**		100		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1
Thallium	**6.9**		5.1		mg/Kg	☼	09/19/24 15:57	09/23/24 23:15	5
Vanadium	**30**		2.6		mg/Kg	☼	09/19/24 15:57	09/24/24 23:30	5
Zinc	**240**		2.0		mg/Kg	☼	09/19/24 15:57	09/20/24 20:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.017		mg/Kg	☼	09/25/24 17:15	09/26/24 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**4.9**		0.25		mg/Kg	☼	09/16/24 11:23	09/17/24 10:05	1
pH (SW846 9045D)	**8.97**		0.20		SU			09/12/24 13:08	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB67 (3-5)
Lab Sample ID: 500-256339-25
Date Collected: 09/06/24 15:00
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 89.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.042		0.093	0.042	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
1,1,2,2-Tetrachloroethane	<0.060		0.093	0.060	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
1,1,2-Trichloroethane	<0.068		0.093	0.068	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
1,1-Dichloroethane	<0.034		0.093	0.034	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
1,1-Dichloroethene	<0.045		0.093	0.045	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
1,2-Dichloroethane	<0.054		0.093	0.054	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
1,2-Dichloropropane	<0.035		0.093	0.035	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
2-Butanone (MEK)	<0.29		0.47	0.29	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
2-Hexanone	<0.27		0.47	0.27	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
4-Methyl-2-pentanone (MIBK)	<0.25		0.47	0.25	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Acetone	<0.67		0.93	0.67	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Benzene	<0.011		0.023	0.011	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Bromodichloromethane	<0.053		0.093	0.053	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Bromoform	<0.090		0.093	0.090	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Bromomethane	<0.17		0.28	0.17	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Carbon disulfide	<0.10		0.19	0.10	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Carbon tetrachloride	<0.039		0.093	0.039	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Chlorobenzene	<0.038		0.093	0.038	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Chloroethane	<0.044		0.47	0.044	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Chloroform	<0.086		0.19	0.086	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Chloromethane	<0.073		0.47	0.073	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
cis-1,2-Dichloroethene	<0.039		0.093	0.039	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
1,3-Dichloropropene, Total	<0.059		0.093	0.059	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Dibromochloromethane	<0.077		0.093	0.077	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Ethylbenzene	<0.016		0.023	0.016	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Methyl tert-butyl ether	<0.040		0.093	0.040	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Methylene Chloride	<0.20		0.47	0.20	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Styrene	<0.029		0.093	0.029	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Tetrachloroethene	<0.036		0.093	0.036	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Toluene	<0.020		0.023	0.020	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Xylenes, Total	**0.033**	**J**	0.047	0.022	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
trans-1,2-Dichloroethene	<0.041		0.093	0.041	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Trichloroethene	<0.014		0.047	0.014	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50
Vinyl chloride	<0.044	*+	0.093	0.044	mg/Kg	☼	09/06/24 15:00	09/18/24 19:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*09/06/24 15:00*	*09/18/24 19:11*	*50*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*	*09/06/24 15:00*	*09/18/24 19:11*	*50*
Dibromofluoromethane	*95*		*75 - 120*	*09/06/24 15:00*	*09/18/24 19:11*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*09/06/24 15:00*	*09/18/24 19:11*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.030**	**J**	0.036	0.0074	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Acenaphthylene	**0.0098**	**J**	0.036	0.0062	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Anthracene	**0.032**	**J**	0.036	0.0075	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Benzo[a]anthracene	**0.23**		0.036	0.0077	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Benzo[a]pyrene	**0.39**		0.036	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Benzo[b]fluoranthene	**0.52**		0.036	0.035	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Benzo[g,h,i]perylene	**0.39**		0.036	0.0079	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB67 (3-5)
Lab Sample ID: 500-256339-25
Date Collected: 09/06/24 15:00
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.20**		0.036	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Chrysene	**0.29**		0.036	0.0096	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Dibenz(a,h)anthracene	**0.088**		0.036	0.036	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Fluoranthene	**0.35**		0.036	0.0085	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Fluorene	**0.013**	**J**	0.036	0.011	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Indeno[1,2,3-cd]pyrene	**0.37**		0.036	0.036	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Naphthalene	**0.026**	**J**	0.036	0.0066	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Phenanthrene	**0.16**		0.036	0.0079	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Pyrene	**0.34**		0.036	0.010	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2,4-Dimethylphenol	<0.082		0.36	0.082	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2-Methylnaphthalene	**0.012**	**J**	0.074	0.0073	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
4-Chloroaniline	<0.38		0.74	0.38	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Carbazole	**0.019**	**J**	0.18	0.014	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Diethyl phthalate	**0.031**	**J B**	0.18	0.017	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Dimethyl phthalate	<0.0079		0.18	0.0079	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Di-n-octyl phthalate	<0.26		0.36	0.26	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB67 (3-5)
Lab Sample ID: 500-256339-25
Date Collected: 09/06/24 15:00
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Nitrobenzene	<0.012		0.036	0.012	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
N-Nitrosodi-n-propylamine	<0.0072		0.074	0.0072	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Pentachlorophenol	<0.091		0.74	0.091	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/17/24 13:27	09/18/24 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*41*		*31 - 166*	*09/17/24 13:27*	*09/18/24 13:47*	*1*
Phenol-d5 (Surr)	*42*		*30 - 153*	*09/17/24 13:27*	*09/18/24 13:47*	*1*
Nitrobenzene-d5 (Surr)	*43*		*37 - 147*	*09/17/24 13:27*	*09/18/24 13:47*	*1*
2-Fluorobiphenyl (Surr)	*43*		*43 - 145*	*09/17/24 13:27*	*09/18/24 13:47*	*1*
2,4,6-Tribromophenol (Surr)	*33*		*31 - 143*	*09/17/24 13:27*	*09/18/24 13:47*	*1*
Terphenyl-d14 (Surr)	*55*		*42 - 157*	*09/17/24 13:27*	*09/18/24 13:47*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0099		0.019	0.0099	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
4,4'-DDE	<0.0095		0.019	0.0095	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
delta-BHC	<0.0088		0.019	0.0088	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Endrin	<0.0094		0.019	0.0094	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Heptachlor epoxide	<0.0099		0.019	0.0099	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/19/24 07:20	09/25/24 15:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*33 - 148*	*09/19/24 07:20*	*09/25/24 15:14*	*10*
Tetrachloro-m-xylene	*42*		*30 - 121*	*09/19/24 07:20*	*09/25/24 15:14*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	*-	0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:46	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:46	10

Client Sample ID: SB67 (3-5)
Date Collected: 09/06/24 15:00
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-25
Matrix: Solid
Percent Solids: 89.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:46	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:46	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:46	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:46	10
PCB-1260	<0.18	*-	0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:46	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 16:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*49*		*49 - 129*	*09/19/24 07:20*	*09/26/24 16:46*	*10*
DCB Decachlorobiphenyl	*69*		*37 - 121*	*09/19/24 07:20*	*09/26/24 16:46*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		19		mg/Kg	☼	09/19/24 15:57	09/20/24 20:25	1
Antimony	<1.9		1.9		mg/Kg	☼	09/19/24 15:57	09/20/24 20:25	1
Arsenic	**10**		4.8		mg/Kg	☼	09/19/24 15:57	09/23/24 23:20	5
Barium	**120**		0.96		mg/Kg	☼	09/19/24 15:57	09/20/24 20:25	1
Beryllium	**3.6**		1.9		mg/Kg	☼	09/19/24 15:57	09/23/24 23:20	5
Cadmium	<0.96		0.96		mg/Kg	☼	09/19/24 15:57	09/23/24 23:20	5
Calcium	**99000**	**B**	96		mg/Kg	☼	09/19/24 15:57	09/24/24 23:34	5
Chromium	**44**		0.96		mg/Kg	☼	09/19/24 15:57	09/20/24 20:25	1
Cobalt	**5.4**		2.4		mg/Kg	☼	09/19/24 15:57	09/23/24 23:20	5
Copper	**66**		4.8		mg/Kg	☼	09/19/24 15:57	09/23/24 23:20	5
Iron	**80000**	**B**	96		mg/Kg	☼	09/19/24 15:57	09/24/24 23:34	5
Lead	**120**		2.4		mg/Kg	☼	09/19/24 15:57	09/23/24 23:20	5
Magnesium	**17000**		9.6		mg/Kg	☼	09/19/24 15:57	09/20/24 20:25	1
Manganese	**1300**	**B**	0.96		mg/Kg	☼	09/19/24 15:57	09/20/24 20:25	1
Nickel	**29**		4.8		mg/Kg	☼	09/19/24 15:57	09/23/24 23:20	5
Potassium	**1600**		48		mg/Kg	☼	09/19/24 15:57	09/20/24 20:25	1
Selenium	<4.8		4.8		mg/Kg	☼	09/19/24 15:57	09/23/24 23:20	5
Silver	<2.4		2.4		mg/Kg	☼	09/19/24 15:57	09/23/24 23:20	5
Sodium	**1000**		480		mg/Kg	☼	09/19/24 15:57	09/23/24 23:20	5
Thallium	<4.8		4.8		mg/Kg	☼	09/19/24 15:57	09/23/24 23:20	5
Vanadium	**18**		2.4		mg/Kg	☼	09/19/24 15:57	09/24/24 23:34	5
Zinc	**430**		1.9		mg/Kg	☼	09/19/24 15:57	09/20/24 20:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/25/24 17:15	09/26/24 09:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.0**		0.25		mg/Kg	☼	09/16/24 11:23	09/17/24 10:07	1
pH (SW846 9045D)	**9.27**		0.20		SU			09/12/24 13:11	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 785196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	5035	
500-256339-11	SB61 (0-3)	Total/NA	Solid	5035	
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	5035	
500-256339-25	SB67 (3-5)	Total/NA	Solid	5035	

Prep Batch: 785204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	5035	
500-256339-3	SB57 (0-3)	Total/NA	Solid	5035	
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	5035	
500-256339-5	SB58 (0-3)	Total/NA	Solid	5035	
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	5035	
500-256339-7	SB59 (0-3)	Total/NA	Solid	5035	
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	5035	
500-256339-9	SB60 (0-3)	Total/NA	Solid	5035	
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	5035	
500-256339-14	SB62 (0-3)	Total/NA	Solid	5035	
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	5035	
500-256339-16	SB63 (0-3)	Total/NA	Solid	5035	
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	5035	
500-256339-18	SB64 (0-3)	Total/NA	Solid	5035	
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	5035	
500-256339-20	SB65 (0-3)	Total/NA	Solid	5035	
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	5035	
500-256339-22	SB66 (0-3)	Total/NA	Solid	5035	
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	5035	
500-256339-24	SB67 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 785840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	8260D	785204
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	8260D	785204
MB 500-785840/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785840/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-785840/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 785880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-5	SB58 (0-3)	Total/NA	Solid	8260D	785204
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	8260D	785204
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	8260D	785204
500-256339-9	SB60 (0-3)	Total/NA	Solid	8260D	785204
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	8260D	785204
MB 500-785880/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-785880/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-785880/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 786144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-3	SB57 (0-3)	Total/NA	Solid	8260D	785204
500-256339-7	SB59 (0-3)	Total/NA	Solid	8260D	785204

GC/MS VOA (Continued)

Analysis Batch: 786144 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-14	SB62 (0-3)	Total/NA	Solid	8260D	785204
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	8260D	785204
500-256339-16	SB63 (0-3)	Total/NA	Solid	8260D	785204
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	8260D	785204
500-256339-18	SB64 (0-3)	Total/NA	Solid	8260D	785204
500-256339-20	SB65 (0-3)	Total/NA	Solid	8260D	785204
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	8260D	785204
500-256339-22	SB66 (0-3)	Total/NA	Solid	8260D	785204
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	8260D	785204
500-256339-24	SB67 (0-3)	Total/NA	Solid	8260D	785204
MB 500-786144/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-786144/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-786144/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 786358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	8260D	785204
MB 500-786358/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-786358/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-786358/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 786552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	8260D	785196
500-256339-11	SB61 (0-3)	Total/NA	Solid	8260D	785196
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	8260D	785196
500-256339-25	SB67 (3-5)	Total/NA	Solid	8260D	785196
MB 500-786552/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-786552/4	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 786476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	3546	
500-256339-22	SB66 (0-3)	Total/NA	Solid	3546	
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	3546	
500-256339-24	SB67 (0-3)	Total/NA	Solid	3546	
500-256339-25	SB67 (3-5)	Total/NA	Solid	3546	
MB 500-786476/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-786476/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 786603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	8270E	786476
500-256339-22	SB66 (0-3)	Total/NA	Solid	8270E	786476
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	8270E	786476
500-256339-24	SB67 (0-3)	Total/NA	Solid	8270E	786476
500-256339-25	SB67 (3-5)	Total/NA	Solid	8270E	786476
MB 500-786476/1-A	Method Blank	Total/NA	Solid	8270E	786476
LCS 500-786476/2-A	Lab Control Sample	Total/NA	Solid	8270E	786476

GC/MS Semi VOA

Prep Batch: 786798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	3546	
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	3546	
500-256339-3	SB57 (0-3)	Total/NA	Solid	3546	
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	3546	
500-256339-5	SB58 (0-3)	Total/NA	Solid	3546	
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	3546	
500-256339-7	SB59 (0-3)	Total/NA	Solid	3546	
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	3546	
500-256339-9	SB60 (0-3)	Total/NA	Solid	3546	
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	3546	
500-256339-11	SB61 (0-3)	Total/NA	Solid	3546	
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	3546	
500-256339-14	SB62 (0-3)	Total/NA	Solid	3546	
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	3546	
500-256339-16	SB63 (0-3)	Total/NA	Solid	3546	
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	3546	
500-256339-18	SB64 (0-3)	Total/NA	Solid	3546	
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	3546	
500-256339-20	SB65 (0-3)	Total/NA	Solid	3546	
MB 500-786798/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-786798/2-A	Lab Control Sample	Total/NA	Solid	3546	
500-256339-5 MS	SB58 (0-3)	Total/NA	Solid	3546	
500-256339-5 MSD	SB58 (0-3)	Total/NA	Solid	3546	

Analysis Batch: 786820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-786798/1-A	Method Blank	Total/NA	Solid	8270E	786798
LCS 500-786798/2-A	Lab Control Sample	Total/NA	Solid	8270E	786798

Analysis Batch: 786826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-5	SB58 (0-3)	Total/NA	Solid	8270E	786798
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	8270E	786798
500-256339-9	SB60 (0-3)	Total/NA	Solid	8270E	786798
500-256339-11	SB61 (0-3)	Total/NA	Solid	8270E	786798
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	8270E	786798
500-256339-18	SB64 (0-3)	Total/NA	Solid	8270E	786798
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	8270E	786798
500-256339-5 MS	SB58 (0-3)	Total/NA	Solid	8270E	786798
500-256339-5 MSD	SB58 (0-3)	Total/NA	Solid	8270E	786798

Analysis Batch: 787029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	8270E	786798
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	8270E	786798
500-256339-3	SB57 (0-3)	Total/NA	Solid	8270E	786798
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	8270E	786798
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	8270E	786798
500-256339-7	SB59 (0-3)	Total/NA	Solid	8270E	786798
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	8270E	786798
500-256339-14	SB62 (0-3)	Total/NA	Solid	8270E	786798

GC/MS Semi VOA (Continued)

Analysis Batch: 787029 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	8270E	786798
500-256339-16	SB63 (0-3)	Total/NA	Solid	8270E	786798
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	8270E	786798
500-256339-20	SB65 (0-3)	Total/NA	Solid	8270E	786798

GC VOA

Prep Batch: 785196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-12	SB61 (12.5-15)	Total/NA	Solid	5035	
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	5035	

Analysis Batch: 785604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-12	SB61 (12.5-15)	Total/NA	Solid	8015D	785196
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	8015D	785196
MB 500-785604/3	Method Blank	Total/NA	Solid	8015D	
LCS 500-785604/4	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 785243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-12	SB61 (12.5-15)	Total/NA	Solid	3541	
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	3541	
MB 500-785243/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-785243/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 785461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-12	SB61 (12.5-15)	Total/NA	Solid	8015D	785243
MB 500-785243/1-A	Method Blank	Total/NA	Solid	8015D	785243
LCS 500-785243/2-A	Lab Control Sample	Total/NA	Solid	8015D	785243

Analysis Batch: 785722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	8015D	785243

Prep Batch: 786541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	3541	
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	3541	
500-256339-3	SB57 (0-3)	Total/NA	Solid	3541	
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	3541	
500-256339-5	SB58 (0-3)	Total/NA	Solid	3541	
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	3541	
500-256339-7	SB59 (0-3)	Total/NA	Solid	3541	
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	3541	
500-256339-9	SB60 (0-3)	Total/NA	Solid	3541	
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	3541	
500-256339-11	SB61 (0-3)	Total/NA	Solid	3541	
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 786541 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-14	SB62 (0-3)	Total/NA	Solid	3541	
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	3541	
500-256339-16	SB63 (0-3)	Total/NA	Solid	3541	
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	3541	
500-256339-18	SB64 (0-3)	Total/NA	Solid	3541	
MB 500-786541/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-786541/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-786541/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256339-6 MS	SB58 (10-12.5)	Total/NA	Solid	3541	
500-256339-6 MS	SB58 (10-12.5)	Total/NA	Solid	3541	
500-256339-6 MSD	SB58 (10-12.5)	Total/NA	Solid	3541	
500-256339-6 MSD	SB58 (10-12.5)	Total/NA	Solid	3541	

Prep Batch: 786773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	3541	
500-256339-20	SB65 (0-3)	Total/NA	Solid	3541	
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	3541	
500-256339-22	SB66 (0-3)	Total/NA	Solid	3541	
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	3541	
500-256339-24	SB67 (0-3)	Total/NA	Solid	3541	
500-256339-25	SB67 (3-5)	Total/NA	Solid	3541	
MB 500-786773/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-786773/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-786773/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256339-19 MS	SB64 (7.5-10)	Total/NA	Solid	3541	
500-256339-19 MS	SB64 (7.5-10)	Total/NA	Solid	3541	
500-256339-19 MSD	SB64 (7.5-10)	Total/NA	Solid	3541	
500-256339-19 MSD	SB64 (7.5-10)	Total/NA	Solid	3541	

Analysis Batch: 787590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	8081B	786773
500-256339-20	SB65 (0-3)	Total/NA	Solid	8081B	786773
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	8081B	786773
500-256339-22	SB66 (0-3)	Total/NA	Solid	8081B	786773
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	8081B	786773
500-256339-24	SB67 (0-3)	Total/NA	Solid	8081B	786773
500-256339-25	SB67 (3-5)	Total/NA	Solid	8081B	786773
MB 500-786773/1-A	Method Blank	Total/NA	Solid	8081B	786773
LCS 500-786773/2-A	Lab Control Sample	Total/NA	Solid	8081B	786773
500-256339-19 MS	SB64 (7.5-10)	Total/NA	Solid	8081B	786773
500-256339-19 MSD	SB64 (7.5-10)	Total/NA	Solid	8081B	786773

Analysis Batch: 787729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	8081B	786541
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	8081B	786541
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	8081B	786541
500-256339-11	SB61 (0-3)	Total/NA	Solid	8081B	786541
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	8081B	786541

GC Semi VOA (Continued)

Analysis Batch: 787729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-14	SB62 (0-3)	Total/NA	Solid	8081B	786541
500-256339-18	SB64 (0-3)	Total/NA	Solid	8081B	786541
MB 500-786541/1-A	Method Blank	Total/NA	Solid	8081B	786541
LCS 500-786541/2-A	Lab Control Sample	Total/NA	Solid	8081B	786541

Analysis Batch: 787802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	8082A	786541
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	8082A	786541
500-256339-3	SB57 (0-3)	Total/NA	Solid	8082A	786541
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	8082A	786541
500-256339-5	SB58 (0-3)	Total/NA	Solid	8082A	786541
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	8082A	786541
500-256339-7	SB59 (0-3)	Total/NA	Solid	8082A	786541
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	8082A	786541
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	8082A	786773
500-256339-20	SB65 (0-3)	Total/NA	Solid	8082A	786773
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	8082A	786773
500-256339-22	SB66 (0-3)	Total/NA	Solid	8082A	786773
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	8082A	786773
500-256339-24	SB67 (0-3)	Total/NA	Solid	8082A	786773
500-256339-25	SB67 (3-5)	Total/NA	Solid	8082A	786773
500-256339-6 MS	SB58 (10-12.5)	Total/NA	Solid	8082A	786541
500-256339-6 MSD	SB58 (10-12.5)	Total/NA	Solid	8082A	786541
500-256339-19 MS	SB64 (7.5-10)	Total/NA	Solid	8082A	786773
500-256339-19 MSD	SB64 (7.5-10)	Total/NA	Solid	8082A	786773

Analysis Batch: 787803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-786541/1-A	Method Blank	Total/NA	Solid	8082A	786541
MB 500-786773/1-A	Method Blank	Total/NA	Solid	8082A	786773
LCS 500-786541/3-A	Lab Control Sample	Total/NA	Solid	8082A	786541
LCS 500-786773/3-A	Lab Control Sample	Total/NA	Solid	8082A	786773

Analysis Batch: 787804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-9	SB60 (0-3)	Total/NA	Solid	8082A	786541
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	8082A	786541
500-256339-11	SB61 (0-3)	Total/NA	Solid	8082A	786541
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	8082A	786541
500-256339-14	SB62 (0-3)	Total/NA	Solid	8082A	786541
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	8082A	786541
500-256339-16	SB63 (0-3)	Total/NA	Solid	8082A	786541
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	8082A	786541
500-256339-18	SB64 (0-3)	Total/NA	Solid	8082A	786541

Analysis Batch: 787891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-3	SB57 (0-3)	Total/NA	Solid	8081B	786541
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	8081B	786541
500-256339-5	SB58 (0-3)	Total/NA	Solid	8081B	786541

GC Semi VOA (Continued)

Analysis Batch: 787891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	8081B	786541
500-256339-7	SB59 (0-3)	Total/NA	Solid	8081B	786541
500-256339-9	SB60 (0-3)	Total/NA	Solid	8081B	786541
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	8081B	786541
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	8081B	786541
500-256339-16	SB63 (0-3)	Total/NA	Solid	8081B	786541
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	8081B	786541
500-256339-6 MS	SB58 (10-12.5)	Total/NA	Solid	8081B	786541
500-256339-6 MSD	SB58 (10-12.5)	Total/NA	Solid	8081B	786541

Metals

Prep Batch: 786942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	3050B	
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	3050B	
500-256339-3	SB57 (0-3)	Total/NA	Solid	3050B	
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	3050B	
500-256339-5	SB58 (0-3)	Total/NA	Solid	3050B	
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	3050B	
500-256339-7	SB59 (0-3)	Total/NA	Solid	3050B	
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	3050B	
500-256339-9	SB60 (0-3)	Total/NA	Solid	3050B	
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	3050B	
500-256339-11	SB61 (0-3)	Total/NA	Solid	3050B	
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	3050B	
500-256339-14	SB62 (0-3)	Total/NA	Solid	3050B	
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	3050B	
500-256339-16	SB63 (0-3)	Total/NA	Solid	3050B	
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	3050B	
500-256339-18	SB64 (0-3)	Total/NA	Solid	3050B	
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	3050B	
500-256339-20	SB65 (0-3)	Total/NA	Solid	3050B	
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	3050B	
MB 500-786942/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786942/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-256339-1 MS	SB56 (0-3)	Total/NA	Solid	3050B	
500-256339-1 MSD	SB56 (0-3)	Total/NA	Solid	3050B	
500-256339-1 DU	SB56 (0-3)	Total/NA	Solid	3050B	

Prep Batch: 786944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-22	SB66 (0-3)	Total/NA	Solid	3050B	
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	3050B	
500-256339-24	SB67 (0-3)	Total/NA	Solid	3050B	
500-256339-25	SB67 (3-5)	Total/NA	Solid	3050B	
MB 500-786944/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786944/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Metals

Analysis Batch: 787265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	6010D	786942
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	6010D	786942
500-256339-3	SB57 (0-3)	Total/NA	Solid	6010D	786942
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	6010D	786942
500-256339-5	SB58 (0-3)	Total/NA	Solid	6010D	786942
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	6010D	786942
500-256339-7	SB59 (0-3)	Total/NA	Solid	6010D	786942
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	6010D	786942
500-256339-9	SB60 (0-3)	Total/NA	Solid	6010D	786942
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	6010D	786942
500-256339-11	SB61 (0-3)	Total/NA	Solid	6010D	786942
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	6010D	786942
500-256339-14	SB62 (0-3)	Total/NA	Solid	6010D	786942
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	6010D	786942
500-256339-16	SB63 (0-3)	Total/NA	Solid	6010D	786942
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	6010D	786942
500-256339-18	SB64 (0-3)	Total/NA	Solid	6010D	786942
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	6010D	786942
500-256339-20	SB65 (0-3)	Total/NA	Solid	6010D	786942
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	6010D	786942
500-256339-22	SB66 (0-3)	Total/NA	Solid	6010D	786944
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	6010D	786944
500-256339-24	SB67 (0-3)	Total/NA	Solid	6010D	786944
500-256339-25	SB67 (3-5)	Total/NA	Solid	6010D	786944
MB 500-786942/1-A	Method Blank	Total/NA	Solid	6010D	786942
MB 500-786944/1-A	Method Blank	Total/NA	Solid	6010D	786944
LCS 500-786942/2-A	Lab Control Sample	Total/NA	Solid	6010D	786942
LCS 500-786944/2-A	Lab Control Sample	Total/NA	Solid	6010D	786944
500-256339-1 MS	SB56 (0-3)	Total/NA	Solid	6010D	786942
500-256339-1 MSD	SB56 (0-3)	Total/NA	Solid	6010D	786942
500-256339-1 DU	SB56 (0-3)	Total/NA	Solid	6010D	786942

Analysis Batch: 787456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	6010D	786942
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	6010D	786942
500-256339-3	SB57 (0-3)	Total/NA	Solid	6010D	786942
500-256339-3	SB57 (0-3)	Total/NA	Solid	6010D	786942
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	6010D	786942
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	6010D	786942
500-256339-5	SB58 (0-3)	Total/NA	Solid	6010D	786942
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	6010D	786942
500-256339-7	SB59 (0-3)	Total/NA	Solid	6010D	786942
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	6010D	786942
500-256339-9	SB60 (0-3)	Total/NA	Solid	6010D	786942
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	6010D	786942
500-256339-11	SB61 (0-3)	Total/NA	Solid	6010D	786942
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	6010D	786942
500-256339-14	SB62 (0-3)	Total/NA	Solid	6010D	786942
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	6010D	786942
500-256339-16	SB63 (0-3)	Total/NA	Solid	6010D	786942

Metals (Continued)

Analysis Batch: 787456 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	6010D	786942
500-256339-18	SB64 (0-3)	Total/NA	Solid	6010D	786942
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	6010D	786942
500-256339-20	SB65 (0-3)	Total/NA	Solid	6010D	786942
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	6010D	786942
MB 500-786942/1-A	Method Blank	Total/NA	Solid	6010D	786942
LCS 500-786942/2-A	Lab Control Sample	Total/NA	Solid	6010D	786942
500-256339-1 MS	SB56 (0-3)	Total/NA	Solid	6010D	786942
500-256339-1 MSD	SB56 (0-3)	Total/NA	Solid	6010D	786942
500-256339-1 DU	SB56 (0-3)	Total/NA	Solid	6010D	786942

Analysis Batch: 787457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-22	SB66 (0-3)	Total/NA	Solid	6010D	786944
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	6010D	786944
500-256339-24	SB67 (0-3)	Total/NA	Solid	6010D	786944
500-256339-25	SB67 (3-5)	Total/NA	Solid	6010D	786944

Prep Batch: 787564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	3050B	
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	3050B	
500-256339-3	SB57 (0-3)	Total/NA	Solid	3050B	
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	3050B	
500-256339-5	SB58 (0-3)	Total/NA	Solid	3050B	
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	3050B	
500-256339-7	SB59 (0-3)	Total/NA	Solid	3050B	
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	3050B	
500-256339-9	SB60 (0-3)	Total/NA	Solid	3050B	
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	3050B	
500-256339-11	SB61 (0-3)	Total/NA	Solid	3050B	
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	3050B	
500-256339-14	SB62 (0-3)	Total/NA	Solid	3050B	
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	3050B	
500-256339-16	SB63 (0-3)	Total/NA	Solid	3050B	
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	3050B	
500-256339-18	SB64 (0-3)	Total/NA	Solid	3050B	
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	3050B	
500-256339-20	SB65 (0-3)	Total/NA	Solid	3050B	
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	3050B	
MB 500-787564/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-787564/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-256339-1 MS	SB56 (0-3)	Total/NA	Solid	3050B	
500-256339-1 MSD	SB56 (0-3)	Total/NA	Solid	3050B	
500-256339-1 DU	SB56 (0-3)	Total/NA	Solid	3050B	

Analysis Batch: 787627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-22	SB66 (0-3)	Total/NA	Solid	6010D	786944
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	6010D	786944
500-256339-24	SB67 (0-3)	Total/NA	Solid	6010D	786944

Metals (Continued)

Analysis Batch: 787627 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-25	SB67 (3-5)	Total/NA	Solid	6010D	786944

Prep Batch: 787719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	7471B	
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	7471B	
500-256339-3	SB57 (0-3)	Total/NA	Solid	7471B	
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	7471B	
500-256339-5	SB58 (0-3)	Total/NA	Solid	7471B	
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	7471B	
500-256339-7	SB59 (0-3)	Total/NA	Solid	7471B	
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	7471B	
500-256339-9	SB60 (0-3)	Total/NA	Solid	7471B	
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	7471B	
500-256339-11	SB61 (0-3)	Total/NA	Solid	7471B	
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	7471B	
500-256339-14	SB62 (0-3)	Total/NA	Solid	7471B	
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	7471B	
500-256339-16	SB63 (0-3)	Total/NA	Solid	7471B	
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	7471B	
500-256339-18	SB64 (0-3)	Total/NA	Solid	7471B	
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	7471B	
500-256339-20	SB65 (0-3)	Total/NA	Solid	7471B	
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	7471B	
MB 500-787719/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-787719/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-256339-11 MS	SB61 (0-3)	Total/NA	Solid	7471B	
500-256339-11 MSD	SB61 (0-3)	Total/NA	Solid	7471B	
500-256339-11 DU	SB61 (0-3)	Total/NA	Solid	7471B	

Prep Batch: 787738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-22	SB66 (0-3)	Total/NA	Solid	7471B	
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	7471B	
500-256339-24	SB67 (0-3)	Total/NA	Solid	7471B	
500-256339-25	SB67 (3-5)	Total/NA	Solid	7471B	
MB 500-787738/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-787738/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 787835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	6010D	787564
MB 500-787564/1-A	Method Blank	Total/NA	Solid	6010D	787564
LCS 500-787564/2-A	Lab Control Sample	Total/NA	Solid	6010D	787564

Analysis Batch: 787898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	7471B	787719
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	7471B	787719
500-256339-3	SB57 (0-3)	Total/NA	Solid	7471B	787719
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	7471B	787719

Metals (Continued)

Analysis Batch: 787898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-5	SB58 (0-3)	Total/NA	Solid	7471B	787719
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	7471B	787719
500-256339-7	SB59 (0-3)	Total/NA	Solid	7471B	787719
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	7471B	787719
500-256339-9	SB60 (0-3)	Total/NA	Solid	7471B	787719
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	7471B	787719
500-256339-11	SB61 (0-3)	Total/NA	Solid	7471B	787719
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	7471B	787719
500-256339-14	SB62 (0-3)	Total/NA	Solid	7471B	787719
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	7471B	787719
500-256339-16	SB63 (0-3)	Total/NA	Solid	7471B	787719
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	7471B	787719
500-256339-18	SB64 (0-3)	Total/NA	Solid	7471B	787719
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	7471B	787719
500-256339-20	SB65 (0-3)	Total/NA	Solid	7471B	787719
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	7471B	787719
500-256339-22	SB66 (0-3)	Total/NA	Solid	7471B	787738
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	7471B	787738
500-256339-24	SB67 (0-3)	Total/NA	Solid	7471B	787738
500-256339-25	SB67 (3-5)	Total/NA	Solid	7471B	787738
MB 500-787719/12-A	Method Blank	Total/NA	Solid	7471B	787719
MB 500-787738/12-A	Method Blank	Total/NA	Solid	7471B	787738
LCS 500-787719/13-A	Lab Control Sample	Total/NA	Solid	7471B	787719
LCS 500-787738/13-A	Lab Control Sample	Total/NA	Solid	7471B	787738
500-256339-11 MS	SB61 (0-3)	Total/NA	Solid	7471B	787719
500-256339-11 MSD	SB61 (0-3)	Total/NA	Solid	7471B	787719
500-256339-11 DU	SB61 (0-3)	Total/NA	Solid	7471B	787719

Analysis Batch: 788203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	6010D	787564
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	6010D	787564
500-256339-3	SB57 (0-3)	Total/NA	Solid	6010D	787564
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	6010D	787564
500-256339-5	SB58 (0-3)	Total/NA	Solid	6010D	787564
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	6010D	787564
500-256339-7	SB59 (0-3)	Total/NA	Solid	6010D	787564
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	6010D	787564
500-256339-9	SB60 (0-3)	Total/NA	Solid	6010D	787564
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	6010D	787564
500-256339-11	SB61 (0-3)	Total/NA	Solid	6010D	787564
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	6010D	787564
500-256339-14	SB62 (0-3)	Total/NA	Solid	6010D	787564
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	6010D	787564
500-256339-16	SB63 (0-3)	Total/NA	Solid	6010D	787564
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	6010D	787564
500-256339-18	SB64 (0-3)	Total/NA	Solid	6010D	787564
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	6010D	787564
500-256339-20	SB65 (0-3)	Total/NA	Solid	6010D	787564
MB 500-787564/1-A	Method Blank	Total/NA	Solid	6010D	787564
LCS 500-787564/2-A	Lab Control Sample	Total/NA	Solid	6010D	787564

Metals (Continued)

Analysis Batch: 788203 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1 MS	SB56 (0-3)	Total/NA	Solid	6010D	787564
500-256339-1 MSD	SB56 (0-3)	Total/NA	Solid	6010D	787564
500-256339-1 DU	SB56 (0-3)	Total/NA	Solid	6010D	787564

General Chemistry

Prep Batch: 627056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-12	SB61 (12.5-15)	Total/NA	Solid	9030B	
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	9030B	
500-256339-18	SB64 (0-3)	Total/NA	Solid	9030B	
MB 240-627056/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-627056/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 627111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-12	SB61 (12.5-15)	Total/NA	Solid	9034	627056
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	9034	627056
500-256339-18	SB64 (0-3)	Total/NA	Solid	9034	627056
MB 240-627056/1-A	Method Blank	Total/NA	Solid	9034	627056
LCS 240-627056/2-A	Lab Control Sample	Total/NA	Solid	9034	627056

Prep Batch: 785724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	9010C	
500-256339-5	SB58 (0-3)	Total/NA	Solid	9010C	
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	9010C	
500-256339-7	SB59 (0-3)	Total/NA	Solid	9010C	
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	9010C	
500-256339-9	SB60 (0-3)	Total/NA	Solid	9010C	
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	9010C	
500-256339-11	SB61 (0-3)	Total/NA	Solid	9010C	
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	9010C	
500-256339-14	SB62 (0-3)	Total/NA	Solid	9010C	
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	9010C	
500-256339-16	SB63 (0-3)	Total/NA	Solid	9010C	
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	9010C	
MB 500-785724/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-785724/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256339-4 MS	SB57 (7.5-10)	Total/NA	Solid	9010C	
500-256339-4 MSD	SB57 (7.5-10)	Total/NA	Solid	9010C	

Analysis Batch: 785786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	9045D	
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	9045D	
500-256339-3	SB57 (0-3)	Total/NA	Solid	9045D	
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	9045D	
500-256339-5	SB58 (0-3)	Total/NA	Solid	9045D	
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	9045D	
500-256339-7	SB59 (0-3)	Total/NA	Solid	9045D	

General Chemistry (Continued)

Analysis Batch: 785786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	9045D	
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	9045D	
500-256339-11	SB61 (0-3)	Total/NA	Solid	9045D	
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	9045D	
500-256339-14	SB62 (0-3)	Total/NA	Solid	9045D	
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	9045D	
500-256339-16	SB63 (0-3)	Total/NA	Solid	9045D	
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	9045D	
500-256339-18	SB64 (0-3)	Total/NA	Solid	9045D	
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	9045D	
500-256339-20	SB65 (0-3)	Total/NA	Solid	9045D	
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	9045D	
500-256339-22	SB66 (0-3)	Total/NA	Solid	9045D	
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	9045D	
500-256339-24	SB67 (0-3)	Total/NA	Solid	9045D	
500-256339-25	SB67 (3-5)	Total/NA	Solid	9045D	
LCS 500-785786/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-785786/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-256339-17 DU	SB63 (5-7.5)	Total/NA	Solid	9045D	

Analysis Batch: 785898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-785898/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-785898/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-256339-17 DU	SB63 (5-7.5)	Total/NA	Solid	9045D	

Prep Batch: 786090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	9010C	
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	9010C	
500-256339-3	SB57 (0-3)	Total/NA	Solid	9010C	
MB 500-786090/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-786090/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256339-3 MS	SB57 (0-3)	Total/NA	Solid	9010C	
500-256339-3 MSD	SB57 (0-3)	Total/NA	Solid	9010C	

Prep Batch: 786222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-18	SB64 (0-3)	Total/NA	Solid	9010C	
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	9010C	
500-256339-20	SB65 (0-3)	Total/NA	Solid	9010C	
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	9010C	
500-256339-22	SB66 (0-3)	Total/NA	Solid	9010C	
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	9010C	
500-256339-24	SB67 (0-3)	Total/NA	Solid	9010C	
500-256339-25	SB67 (3-5)	Total/NA	Solid	9010C	
MB 500-786222/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-786222/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256339-18 MS	SB64 (0-3)	Total/NA	Solid	9010C	
500-256339-18 MSD	SB64 (0-3)	Total/NA	Solid	9010C	

General Chemistry

Analysis Batch: 786248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	9012B	785724
500-256339-5	SB58 (0-3)	Total/NA	Solid	9012B	785724
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	9012B	785724
500-256339-7	SB59 (0-3)	Total/NA	Solid	9012B	785724
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	9012B	785724
500-256339-9	SB60 (0-3)	Total/NA	Solid	9012B	785724
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	9012B	785724
500-256339-11	SB61 (0-3)	Total/NA	Solid	9012B	785724
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	9012B	785724
500-256339-14	SB62 (0-3)	Total/NA	Solid	9012B	785724
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	9012B	785724
500-256339-16	SB63 (0-3)	Total/NA	Solid	9012B	785724
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	9012B	785724
MB 500-785724/1-A	Method Blank	Total/NA	Solid	9012B	785724
LCS 500-785724/2-A	Lab Control Sample	Total/NA	Solid	9012B	785724
500-256339-4 MS	SB57 (7.5-10)	Total/NA	Solid	9012B	785724
500-256339-4 MSD	SB57 (7.5-10)	Total/NA	Solid	9012B	785724

Analysis Batch: 786268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	9012B	786090
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	9012B	786090
500-256339-3	SB57 (0-3)	Total/NA	Solid	9012B	786090
MB 500-786090/1-A	Method Blank	Total/NA	Solid	9012B	786090
LCS 500-786090/2-A	Lab Control Sample	Total/NA	Solid	9012B	786090
500-256339-3 MS	SB57 (0-3)	Total/NA	Solid	9012B	786090
500-256339-3 MSD	SB57 (0-3)	Total/NA	Solid	9012B	786090

Analysis Batch: 786298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	Total/NA	Solid	Moisture	
500-256339-2	SB56 (5-7.5)	Total/NA	Solid	Moisture	
500-256339-3	SB57 (0-3)	Total/NA	Solid	Moisture	
500-256339-4	SB57 (7.5-10)	Total/NA	Solid	Moisture	
500-256339-5	SB58 (0-3)	Total/NA	Solid	Moisture	
500-256339-6	SB58 (10-12.5)	Total/NA	Solid	Moisture	
500-256339-7	SB59 (0-3)	Total/NA	Solid	Moisture	
500-256339-8	SB59 (5-7.5)	Total/NA	Solid	Moisture	
500-256339-9	SB60 (0-3)	Total/NA	Solid	Moisture	
500-256339-10	SB60 (7.5-10)	Total/NA	Solid	Moisture	
500-256339-11	SB61 (0-3)	Total/NA	Solid	Moisture	
500-256339-12	SB61 (12.5-15)	Total/NA	Solid	Moisture	
500-256339-13	SB61 (17.5-19)	Total/NA	Solid	Moisture	
500-256339-14	SB62 (0-3)	Total/NA	Solid	Moisture	
500-256339-15	SB62 (7.5-10)	Total/NA	Solid	Moisture	
500-256339-16	SB63 (0-3)	Total/NA	Solid	Moisture	
500-256339-17	SB63 (5-7.5)	Total/NA	Solid	Moisture	
500-256339-18	SB64 (0-3)	Total/NA	Solid	Moisture	

General Chemistry

Analysis Batch: 786309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	Moisture	
500-256339-20	SB65 (0-3)	Total/NA	Solid	Moisture	
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	Moisture	
500-256339-22	SB66 (0-3)	Total/NA	Solid	Moisture	
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	Moisture	
500-256339-24	SB67 (0-3)	Total/NA	Solid	Moisture	
500-256339-25	SB67 (3-5)	Total/NA	Solid	Moisture	
500-256339-19 DU	SB64 (7.5-10)	Total/NA	Solid	Moisture	

Analysis Batch: 786447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-19	SB64 (7.5-10)	Total/NA	Solid	9012B	786222
500-256339-24	SB67 (0-3)	Total/NA	Solid	9012B	786222
500-256339-25	SB67 (3-5)	Total/NA	Solid	9012B	786222
MB 500-786222/1-A	Method Blank	Total/NA	Solid	9012B	786222
LCS 500-786222/2-A	Lab Control Sample	Total/NA	Solid	9012B	786222

Analysis Batch: 787247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-9	SB60 (0-3)	Total/NA	Solid	9045D	
LCS 500-787247/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-787247/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 787888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-18	SB64 (0-3)	Total/NA	Solid	9012B	786222
500-256339-20	SB65 (0-3)	Total/NA	Solid	9012B	786222
500-256339-21	SB65 (7.5-10)	Total/NA	Solid	9012B	786222
500-256339-22	SB66 (0-3)	Total/NA	Solid	9012B	786222
500-256339-23	SB66 (5-7.5)	Total/NA	Solid	9012B	786222
MB 500-786222/1-A	Method Blank	Total/NA	Solid	9012B	786222
LCS 500-786222/2-A	Lab Control Sample	Total/NA	Solid	9012B	786222
500-256339-18 MS	SB64 (0-3)	Total/NA	Solid	9012B	786222
500-256339-18 MSD	SB64 (0-3)	Total/NA	Solid	9012B	786222

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-256339-1	SB56 (0-3)	106	126	96	116
500-256339-3	SB57 (0-3)	103	98	99	104
500-256339-4	SB57 (7.5-10)	106	138 S1+	103	112
500-256339-5	SB58 (0-3)	105	99	87	101
500-256339-6	SB58 (10-12.5)	106	115	101	108
500-256339-7	SB59 (0-3)	107	138 *3 S1+	113	136 S1+
500-256339-8	SB59 (5-7.5)	102	119	102	106
500-256339-9	SB60 (0-3)	106	124	101	114
500-256339-10	SB60 (7.5-10)	102	118	98	107
500-256339-14	SB62 (0-3)	102	105	103	101
500-256339-15	SB62 (7.5-10)	102	99	98	99
500-256339-16	SB63 (0-3)	101	103	97	98
500-256339-17	SB63 (5-7.5)	97	102	81	102
500-256339-18	SB64 (0-3)	97	126	95	109
500-256339-19	SB64 (7.5-10)	114	99	91	96
500-256339-20	SB65 (0-3)	98	103	97	100
500-256339-21	SB65 (7.5-10)	106	113	100	103
500-256339-22	SB66 (0-3)	102	105	99	103
500-256339-23	SB66 (5-7.5)	103	105	99	99
500-256339-24	SB67 (0-3)	103	117	96	105
LCS 500-785840/4	Lab Control Sample	96	93	98	98
LCS 500-785880/4	Lab Control Sample	98	94	99	100
LCS 500-786144/4	Lab Control Sample	101	93	101	97
LCS 500-786358/4	Lab Control Sample	104	96	99	101
LCSD 500-785840/5	Lab Control Sample Dup	96	91	98	99
LCSD 500-785880/5	Lab Control Sample Dup	95	93	101	100
LCSD 500-786144/5	Lab Control Sample Dup	98	95	97	99
LCSD 500-786358/5	Lab Control Sample Dup	105	96	98	102
MB 500-785840/7	Method Blank	100	97	101	97
MB 500-785880/7	Method Blank	99	100	101	98
MB 500-786144/7	Method Blank	96	98	100	98
MB 500-786358/7	Method Blank	110	94	102	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-256339-2	SB56 (5-7.5)	97	100	94	101
500-256339-11	SB61 (0-3)	96	100	95	102
500-256339-13	SB61 (17.5-19)	97	101	95	101
500-256339-25	SB67 (3-5)	97	101	95	100
LCS 500-786552/4	Lab Control Sample	95	100	99	100

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
MB 500-786552/7	Method Blank	98	100	102	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256339-1	SB56 (0-3)	53	56	65	63	27 S1-	64
500-256339-2	SB56 (5-7.5)	53	60	58	61	61	71
500-256339-3	SB57 (0-3)	46	51	50	49	34	83
500-256339-4	SB57 (7.5-10)	40	44	47	45	40	56
500-256339-5	SB58 (0-3)	21 S1-	33	34 S1-	37 S1-	0 S1-	42
500-256339-5 MS	SB58 (0-3)	28 S1-	37	37	41 S1-	4 S1-	68
500-256339-5 MSD	SB58 (0-3)	30 S1-	44	43	47	2 S1-	72
500-256339-6	SB58 (10-12.5)	46	52	51	58	72	66
500-256339-7	SB59 (0-3)	52	57	60	60	57	65
500-256339-8	SB59 (5-7.5)	42	48	49	54	61	73
500-256339-9	SB60 (0-3)	49	55	56	61	36	67
500-256339-10	SB60 (7.5-10)	54	65	59	63	12 S1-	74
500-256339-11	SB61 (0-3)	31	35	37	43	38	62
500-256339-13	SB61 (17.5-19)	45	59	73	67	39	68
500-256339-14	SB62 (0-3)	73	75	77	69	70	79
500-256339-15	SB62 (7.5-10)	83	83	85	78	65	85
500-256339-16	SB63 (0-3)	71	73	74	70	63	82
500-256339-17	SB63 (5-7.5)	73	80	80	75	45	83
500-256339-18	SB64 (0-3)	43	44	43	55	31	53
500-256339-19	SB64 (7.5-10)	43	58	61	67	18 S1-	75
500-256339-20	SB65 (0-3)	50	51	52	49	62	79
500-256339-21	SB65 (7.5-10)	55	57	57	59	24 S1-	57
500-256339-22	SB66 (0-3)	53	54	56	52	30 S1-	49
500-256339-23	SB66 (5-7.5)	51	52	50	51	38	54
500-256339-24	SB67 (0-3)	56	61	57	62	30 S1-	61
500-256339-25	SB67 (3-5)	41	42	43	43	33	55
LCS 500-786476/2-A	Lab Control Sample	83	83	85	80	64	80
LCS 500-786798/2-A	Lab Control Sample	85	87	89	81	79	91
MB 500-786476/1-A	Method Blank	91	88	93	90	65	92
MB 500-786798/1-A	Method Blank	64	67	67	62	67	87

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

TPHL = Terphenyl-d14 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-256339-12	SB61 (12.5-15)	105	106
500-256339-13	SB61 (17.5-19)	106	105
LCS 500-785604/4	Lab Control Sample	104	106
MB 500-785604/3	Method Blank	99	106

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-256339-12	SB61 (12.5-15)	0 S1-	0 S1-
500-256339-13	SB61 (17.5-19)	0 S1-	0 S1-
LCS 500-785243/2-A	Lab Control Sample	84	76
MB 500-785243/1-A	Method Blank	80	61

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(33-148)	(30-121)
500-256339-1	SB56 (0-3)	94	28 S1-
500-256339-2	SB56 (5-7.5)	130	17 S1-
500-256339-5	SB58 (0-3)	51	86
500-256339-8	SB59 (5-7.5)	62	14 S1-
500-256339-11	SB61 (0-3)	306 S1+	32
500-256339-13	SB61 (17.5-19)	163 S1+	199 S1+
500-256339-14	SB62 (0-3)	98	7 S1-
500-256339-18	SB64 (0-3)	279 S1+	343 S1+
500-256339-20	SB65 (0-3)	114	106
500-256339-21	SB65 (7.5-10)	93	62
500-256339-22	SB66 (0-3)	102	62
500-256339-23	SB66 (5-7.5)	115	62
500-256339-24	SB67 (0-3)	82	42
500-256339-25	SB67 (3-5)	91	42
LCS 500-786541/2-A	Lab Control Sample	89	61
MB 500-786541/1-A	Method Blank	98	66

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (33-148)	TCX2 (30-121)
500-256339-3	SB57 (0-3)	182 S1+	66
500-256339-4	SB57 (7.5-10)	91	80
500-256339-6	SB58 (10-12.5)	313 S1+	64
500-256339-6 MS	SB58 (10-12.5)	120	52
500-256339-6 MSD	SB58 (10-12.5)	157 S1+	64
500-256339-7	SB59 (0-3)	450 S1+	68
500-256339-9	SB60 (0-3)	177 S1+	79
500-256339-10	SB60 (7.5-10)	226 S1+	72
500-256339-15	SB62 (7.5-10)	80	102
500-256339-16	SB63 (0-3)	0 S1-	0 S1-
500-256339-17	SB63 (5-7.5)	232 S1+	103
500-256339-19	SB64 (7.5-10)	116	98
500-256339-19 MS	SB64 (7.5-10)	120	87
500-256339-19 MSD	SB64 (7.5-10)	109	104
LCS 500-786773/2-A	Lab Control Sample	84	57
MB 500-786773/1-A	Method Blank	106	70

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-256339-1	SB56 (0-3)	76	96
500-256339-2	SB56 (5-7.5)	58	77
500-256339-3	SB57 (0-3)	51	69
500-256339-4	SB57 (7.5-10)	43 S1-	53
500-256339-5	SB58 (0-3)	51	72
500-256339-6	SB58 (10-12.5)	48 S1-	130 S1+
500-256339-6 MS	SB58 (10-12.5)	45 S1-	56
500-256339-6 MSD	SB58 (10-12.5)	54	73
500-256339-7	SB59 (0-3)	41 S1-	65
500-256339-8	SB59 (5-7.5)	47 S1-	67
500-256339-9	SB60 (0-3)	48 S1-	73
500-256339-10	SB60 (7.5-10)	56	64
500-256339-11	SB61 (0-3)	60	90
500-256339-13	SB61 (17.5-19)	49	99
500-256339-15	SB62 (7.5-10)	36 S1-	44
500-256339-16	SB63 (0-3)	54	70
500-256339-17	SB63 (5-7.5)	57	35 S1-
500-256339-18	SB64 (0-3)	59	327 S1+
500-256339-19	SB64 (7.5-10)	65	74
500-256339-19 MS	SB64 (7.5-10)	61	58
500-256339-19 MSD	SB64 (7.5-10)	52	56
500-256339-20	SB65 (0-3)	76	61
500-256339-21	SB65 (7.5-10)	58	47
500-256339-22	SB66 (0-3)	57	105

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-256339-23	SB66 (5-7.5)	65	68
500-256339-24	SB67 (0-3)	60	74
500-256339-25	SB67 (3-5)	49	69
LCS 500-786541/3-A	Lab Control Sample	75	125 S1+
LCS 500-786773/3-A	Lab Control Sample	69	130 S1+
MB 500-786541/1-A	Method Blank	74	117
MB 500-786773/1-A	Method Blank	59	113

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-256339-14	SB62 (0-3)	44 S1-	50

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-785840/7
Matrix: Solid
Analysis Batch: 785840

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/12/24 22:33	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/12/24 22:33	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/12/24 22:33	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/12/24 22:33	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/12/24 22:33	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/12/24 22:33	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/12/24 22:33	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/12/24 22:33	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/12/24 22:33	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/12/24 22:33	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/12/24 22:33	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/12/24 22:33	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/12/24 22:33	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/12/24 22:33	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/12/24 22:33	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/12/24 22:33	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/12/24 22:33	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/12/24 22:33	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/12/24 22:33	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/12/24 22:33	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/12/24 22:33	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/12/24 22:33	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/12/24 22:33	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/12/24 22:33	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/12/24 22:33	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/12/24 22:33	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/12/24 22:33	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/12/24 22:33	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/12/24 22:33	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/12/24 22:33	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/12/24 22:33	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/12/24 22:33	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/12/24 22:33	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/12/24 22:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*09/12/24 22:33*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*		*09/12/24 22:33*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*09/12/24 22:33*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*		*09/12/24 22:33*	*1*

Lab Sample ID: LCS 500-785840/4
Matrix: Solid
Analysis Batch: 785840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0519		mg/Kg		104	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0604		mg/Kg		121	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785840/4
Matrix: Solid
Analysis Batch: 785840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0603		mg/Kg		121	70 - 125
1,1-Dichloroethane	0.0500	0.0553		mg/Kg		111	70 - 125
1,1-Dichloroethene	0.0500	0.0556		mg/Kg		111	70 - 120
1,2-Dichloroethane	0.0500	0.0546		mg/Kg		109	70 - 130
1,2-Dichloropropane	0.0500	0.0582		mg/Kg		116	70 - 125
2-Butanone (MEK)	0.0500	0.0614		mg/Kg		123	47 - 138
2-Hexanone	0.0500	0.0635		mg/Kg		127	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0654		mg/Kg		131	50 - 148
Acetone	0.0500	0.0595		mg/Kg		119	40 - 150
Benzene	0.0500	0.0568		mg/Kg		114	70 - 125
Bromodichloromethane	0.0500	0.0575		mg/Kg		115	67 - 129
Bromoform	0.0500	0.0637		mg/Kg		127	68 - 136
Bromomethane	0.0500	0.0541		mg/Kg		108	70 - 130
Carbon disulfide	0.0500	0.0559		mg/Kg		112	70 - 129
Carbon tetrachloride	0.0500	0.0533		mg/Kg		107	75 - 125
Chlorobenzene	0.0500	0.0561		mg/Kg		112	50 - 150
Chloroethane	0.0500	0.0503		mg/Kg		101	75 - 125
Chloroform	0.0500	0.0552		mg/Kg		110	57 - 135
Chloromethane	0.0500	0.0557		mg/Kg		111	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0578		mg/Kg		116	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0574		mg/Kg		115	70 - 125
Dibromochloromethane	0.0500	0.0595		mg/Kg		119	69 - 125
Ethylbenzene	0.0500	0.0569		mg/Kg		114	61 - 136
Methyl tert-butyl ether	0.0500	0.0604		mg/Kg		121	50 - 140
Methylene Chloride	0.0500	0.0515		mg/Kg		103	70 - 126
Styrene	0.0500	0.0605		mg/Kg		121	70 - 125
Tetrachloroethene	0.0500	0.0525		mg/Kg		105	70 - 124
Toluene	0.0500	0.0556		mg/Kg		111	70 - 125
Xylenes, Total	0.100	0.112		mg/Kg		112	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0560		mg/Kg		112	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0576		mg/Kg		115	70 - 125
Trichloroethene	0.0500	0.0539		mg/Kg		108	70 - 125
Vinyl chloride	0.0500	0.0508		mg/Kg		102	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*
Dibromofluoromethane	*98*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 124*

Lab Sample ID: LCSD 500-785840/5
Matrix: Solid
Analysis Batch: 785840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 128	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0590		mg/Kg		118	70 - 122	2	30
1,1,2-Trichloroethane	0.0500	0.0577		mg/Kg		115	70 - 125	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-785840/5
Matrix: Solid
Analysis Batch: 785840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0542		mg/Kg		108	70 - 125	2	30
1,1-Dichloroethene			0.0500	0.0560		mg/Kg		112	70 - 120	1	30
1,2-Dichloroethane			0.0500	0.0535		mg/Kg		107	70 - 130	2	30
1,2-Dichloropropane			0.0500	0.0574		mg/Kg		115	70 - 125	1	30
2-Butanone (MEK)			0.0500	0.0629		mg/Kg		126	47 - 138	2	30
2-Hexanone			0.0500	0.0643		mg/Kg		129	48 - 146	1	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0639		mg/Kg		128	50 - 148	2	30
Acetone			0.0500	0.0568		mg/Kg		114	40 - 150	4	30
Benzene			0.0500	0.0561		mg/Kg		112	70 - 125	1	30
Bromodichloromethane			0.0500	0.0574		mg/Kg		115	67 - 129	0	30
Bromoform			0.0500	0.0645		mg/Kg		129	68 - 136	1	30
Bromomethane			0.0500	0.0529		mg/Kg		106	70 - 130	2	30
Carbon disulfide			0.0500	0.0557		mg/Kg		111	70 - 129	0	30
Carbon tetrachloride			0.0500	0.0527		mg/Kg		105	75 - 125	1	30
Chlorobenzene			0.0500	0.0557		mg/Kg		111	50 - 150	1	30
Chloroethane			0.0500	0.0577		mg/Kg		115	75 - 125	14	30
Chloroform			0.0500	0.0535		mg/Kg		107	57 - 135	3	30
Chloromethane			0.0500	0.0554		mg/Kg		111	70 - 125	1	30
cis-1,2-Dichloroethene			0.0500	0.0575		mg/Kg		115	70 - 125	1	30
cis-1,3-Dichloropropene			0.0500	0.0565		mg/Kg		113	70 - 125	2	30
Dibromochloromethane			0.0500	0.0587		mg/Kg		117	69 - 125	1	30
Ethylbenzene			0.0500	0.0568		mg/Kg		114	61 - 136	0	30
Methyl tert-butyl ether			0.0500	0.0584		mg/Kg		117	50 - 140	3	30
Methylene Chloride			0.0500	0.0519		mg/Kg		104	70 - 126	1	30
Styrene			0.0500	0.0609		mg/Kg		122	70 - 125	1	30
Tetrachloroethene			0.0500	0.0540		mg/Kg		108	70 - 124	3	30
Toluene			0.0500	0.0555		mg/Kg		111	70 - 125	0	30
Xylenes, Total			0.100	0.112		mg/Kg		112	53 - 147	0	30
trans-1,2-Dichloroethene			0.0500	0.0545		mg/Kg		109	70 - 125	3	30
trans-1,3-Dichloropropene			0.0500	0.0564		mg/Kg		113	70 - 125	2	30
Trichloroethene			0.0500	0.0539		mg/Kg		108	70 - 125	0	30
Vinyl chloride			0.0500	0.0502		mg/Kg		100	70 - 125	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*
Dibromofluoromethane	*98*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 124*

Lab Sample ID: MB 500-785880/7
Matrix: Solid
Analysis Batch: 785880

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/13/24 11:32	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/13/24 11:32	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/13/24 11:32	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/13/24 11:32	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-785880/7
Matrix: Solid
Analysis Batch: 785880

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/13/24 11:32	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/13/24 11:32	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/13/24 11:32	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/13/24 11:32	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/13/24 11:32	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/13/24 11:32	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/13/24 11:32	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/13/24 11:32	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/13/24 11:32	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/13/24 11:32	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/13/24 11:32	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/13/24 11:32	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/13/24 11:32	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/13/24 11:32	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/13/24 11:32	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/13/24 11:32	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/13/24 11:32	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/13/24 11:32	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/13/24 11:32	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/13/24 11:32	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/13/24 11:32	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/13/24 11:32	1
Methylene Chloride	0.00227	J	0.0050	0.0021	mg/Kg			09/13/24 11:32	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/13/24 11:32	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/13/24 11:32	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/13/24 11:32	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/13/24 11:32	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/13/24 11:32	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/13/24 11:32	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/13/24 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*09/13/24 11:32*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*		*09/13/24 11:32*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*09/13/24 11:32*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*		*09/13/24 11:32*	*1*

Lab Sample ID: LCS 500-785880/4
Matrix: Solid
Analysis Batch: 785880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0409		mg/Kg		82	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0480		mg/Kg		96	70 - 122
1,1,2-Trichloroethane	0.0500	0.0458		mg/Kg		92	70 - 125
1,1-Dichloroethane	0.0500	0.0439		mg/Kg		88	70 - 125
1,1-Dichloroethene	0.0500	0.0443		mg/Kg		89	70 - 120
1,2-Dichloroethane	0.0500	0.0406		mg/Kg		81	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-785880/4
Matrix: Solid
Analysis Batch: 785880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0463		mg/Kg		93	70 - 125
2-Butanone (MEK)	0.0500	0.0445		mg/Kg		89	47 - 138
2-Hexanone	0.0500	0.0446		mg/Kg		89	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0455		mg/Kg		91	50 - 148
Acetone	0.0500	0.0395		mg/Kg		79	40 - 150
Benzene	0.0500	0.0453		mg/Kg		91	70 - 125
Bromodichloromethane	0.0500	0.0452		mg/Kg		90	67 - 129
Bromoform	0.0500	0.0470		mg/Kg		94	68 - 136
Bromomethane	0.0500	0.0453		mg/Kg		91	70 - 130
Carbon disulfide	0.0500	0.0447		mg/Kg		89	70 - 129
Carbon tetrachloride	0.0500	0.0417		mg/Kg		83	75 - 125
Chlorobenzene	0.0500	0.0447		mg/Kg		89	50 - 150
Chloroethane	0.0500	0.0453		mg/Kg		91	75 - 125
Chloroform	0.0500	0.0429		mg/Kg		86	57 - 135
Chloromethane	0.0500	0.0474		mg/Kg		95	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0450		mg/Kg		90	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0451		mg/Kg		90	70 - 125
Dibromochloromethane	0.0500	0.0471		mg/Kg		94	69 - 125
Ethylbenzene	0.0500	0.0459		mg/Kg		92	61 - 136
Methyl tert-butyl ether	0.0500	0.0461		mg/Kg		92	50 - 140
Methylene Chloride	0.0500	0.0421		mg/Kg		84	70 - 126
Styrene	0.0500	0.0479		mg/Kg		96	70 - 125
Tetrachloroethene	0.0500	0.0435		mg/Kg		87	70 - 124
Toluene	0.0500	0.0448		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0897		mg/Kg		90	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0438		mg/Kg		88	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0445		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0425		mg/Kg		85	70 - 125
Vinyl chloride	0.0500	0.0432		mg/Kg		86	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*
Dibromofluoromethane	*99*		*75 - 126*
Toluene-d8 (Surr)	*100*		*75 - 124*

Lab Sample ID: LCSD 500-785880/5
Matrix: Solid
Analysis Batch: 785880

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0421		mg/Kg		84	70 - 128	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0486		mg/Kg		97	70 - 122	1	30
1,1,2-Trichloroethane	0.0500	0.0469		mg/Kg		94	70 - 125	2	30
1,1-Dichloroethane	0.0500	0.0443		mg/Kg		89	70 - 125	1	30
1,1-Dichloroethene	0.0500	0.0436		mg/Kg		87	70 - 120	1	30
1,2-Dichloroethane	0.0500	0.0428		mg/Kg		86	70 - 130	5	30
1,2-Dichloropropane	0.0500	0.0469		mg/Kg		94	70 - 125	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-785880/5
Matrix: Solid
Analysis Batch: 785880

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			0.0500	0.0456		mg/Kg		91	47 - 138	2	30
2-Hexanone			0.0500	0.0470		mg/Kg		94	48 - 146	5	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0487		mg/Kg		97	50 - 148	7	30
Acetone			0.0500	0.0407		mg/Kg		81	40 - 150	3	30
Benzene			0.0500	0.0458		mg/Kg		92	70 - 125	1	30
Bromodichloromethane			0.0500	0.0467		mg/Kg		93	67 - 129	3	30
Bromoform			0.0500	0.0512		mg/Kg		102	68 - 136	9	30
Bromomethane			0.0500	0.0448		mg/Kg		90	70 - 130	1	30
Carbon disulfide			0.0500	0.0450		mg/Kg		90	70 - 129	1	30
Carbon tetrachloride			0.0500	0.0434		mg/Kg		87	75 - 125	4	30
Chlorobenzene			0.0500	0.0451		mg/Kg		90	50 - 150	1	30
Chloroethane			0.0500	0.0488		mg/Kg		98	75 - 125	7	30
Chloroform			0.0500	0.0435		mg/Kg		87	57 - 135	2	30
Chloromethane			0.0500	0.0477		mg/Kg		95	70 - 125	1	30
cis-1,2-Dichloroethene			0.0500	0.0445		mg/Kg		89	70 - 125	1	30
cis-1,3-Dichloropropene			0.0500	0.0456		mg/Kg		91	70 - 125	1	30
Dibromochloromethane			0.0500	0.0474		mg/Kg		95	69 - 125	1	30
Ethylbenzene			0.0500	0.0458		mg/Kg		92	61 - 136	0	30
Methyl tert-butyl ether			0.0500	0.0469		mg/Kg		94	50 - 140	2	30
Methylene Chloride			0.0500	0.0413		mg/Kg		83	70 - 126	2	30
Styrene			0.0500	0.0495		mg/Kg		99	70 - 125	3	30
Tetrachloroethene			0.0500	0.0433		mg/Kg		87	70 - 124	1	30
Toluene			0.0500	0.0451		mg/Kg		90	70 - 125	1	30
Xylenes, Total			0.100	0.0917		mg/Kg		92	53 - 147	2	30
trans-1,2-Dichloroethene			0.0500	0.0452		mg/Kg		90	70 - 125	3	30
trans-1,3-Dichloropropene			0.0500	0.0465		mg/Kg		93	70 - 125	4	30
Trichloroethene			0.0500	0.0438		mg/Kg		88	70 - 125	3	30
Vinyl chloride			0.0500	0.0421		mg/Kg		84	70 - 125	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*100*		*75 - 124*

Lab Sample ID: MB 500-786144/7
Matrix: Solid
Analysis Batch: 786144

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/16/24 11:25	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/16/24 11:25	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/16/24 11:25	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/16/24 11:25	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/16/24 11:25	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/16/24 11:25	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/16/24 11:25	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/16/24 11:25	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-786144/7
Matrix: Solid
Analysis Batch: 786144

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/16/24 11:25	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/16/24 11:25	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/16/24 11:25	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/16/24 11:25	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/16/24 11:25	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/16/24 11:25	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/16/24 11:25	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/16/24 11:25	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/16/24 11:25	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/16/24 11:25	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/16/24 11:25	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/16/24 11:25	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/16/24 11:25	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/16/24 11:25	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/16/24 11:25	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/16/24 11:25	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/16/24 11:25	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/16/24 11:25	1
Methylene Chloride	0.00219	J	0.0050	0.0021	mg/Kg			09/16/24 11:25	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/16/24 11:25	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/16/24 11:25	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/16/24 11:25	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/16/24 11:25	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/16/24 11:25	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/16/24 11:25	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/16/24 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*		*09/16/24 11:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*		*09/16/24 11:25*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*09/16/24 11:25*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*		*09/16/24 11:25*	*1*

Lab Sample ID: LCS 500-786144/4
Matrix: Solid
Analysis Batch: 786144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0423		mg/Kg		85	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0518		mg/Kg		104	70 - 122
1,1,2-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 125
1,1-Dichloroethane	0.0500	0.0443		mg/Kg		89	70 - 125
1,1-Dichloroethene	0.0500	0.0436		mg/Kg		87	70 - 120
1,2-Dichloroethane	0.0500	0.0448		mg/Kg		90	70 - 130
1,2-Dichloropropane	0.0500	0.0466		mg/Kg		93	70 - 125
2-Butanone (MEK)	0.0500	0.0535		mg/Kg		107	47 - 138
2-Hexanone	0.0500	0.0562		mg/Kg		112	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0563		mg/Kg		113	50 - 148

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786144/4
Matrix: Solid
Analysis Batch: 786144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0452		mg/Kg		90	40 - 150
Benzene	0.0500	0.0470		mg/Kg		94	70 - 125
Bromodichloromethane	0.0500	0.0475		mg/Kg		95	67 - 129
Bromoform	0.0500	0.0512		mg/Kg		102	68 - 136
Bromomethane	0.0500	0.0420		mg/Kg		84	70 - 130
Carbon disulfide	0.0500	0.0468		mg/Kg		94	70 - 129
Carbon tetrachloride	0.0500	0.0444		mg/Kg		89	75 - 125
Chlorobenzene	0.0500	0.0458		mg/Kg		92	50 - 150
Chloroethane	0.0500	0.0462		mg/Kg		92	75 - 125
Chloroform	0.0500	0.0439		mg/Kg		88	57 - 135
Chloromethane	0.0500	0.0453		mg/Kg		91	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0463		mg/Kg		93	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0462		mg/Kg		92	70 - 125
Dibromochloromethane	0.0500	0.0483		mg/Kg		97	69 - 125
Ethylbenzene	0.0500	0.0458		mg/Kg		92	61 - 136
Methyl tert-butyl ether	0.0500	0.0473		mg/Kg		95	50 - 140
Methylene Chloride	0.0500	0.0427		mg/Kg		85	70 - 126
Styrene	0.0500	0.0497		mg/Kg		99	70 - 125
Tetrachloroethene	0.0500	0.0431		mg/Kg		86	70 - 124
Toluene	0.0500	0.0452		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0903		mg/Kg		90	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0465		mg/Kg		93	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0452		mg/Kg		90	70 - 125
Trichloroethene	0.0500	0.0458		mg/Kg		92	70 - 125
Vinyl chloride	0.0500	0.0419		mg/Kg		84	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*97*		*75 - 124*

Lab Sample ID: LCSD 500-786144/5
Matrix: Solid
Analysis Batch: 786144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0420		mg/Kg		84	70 - 128	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0503		mg/Kg		101	70 - 122	3	30
1,1,2-Trichloroethane	0.0500	0.0472		mg/Kg		94	70 - 125	0	30
1,1-Dichloroethane	0.0500	0.0442		mg/Kg		88	70 - 125	0	30
1,1-Dichloroethene	0.0500	0.0454		mg/Kg		91	70 - 120	4	30
1,2-Dichloroethane	0.0500	0.0424		mg/Kg		85	70 - 130	6	30
1,2-Dichloropropane	0.0500	0.0484		mg/Kg		97	70 - 125	4	30
2-Butanone (MEK)	0.0500	0.0489		mg/Kg		98	47 - 138	9	30
2-Hexanone	0.0500	0.0557		mg/Kg		111	48 - 146	1	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0564		mg/Kg		113	50 - 148	0	30
Acetone	0.0500	0.0429		mg/Kg		86	40 - 150	5	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-786144/5
Matrix: Solid
Analysis Batch: 786144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.0462		mg/Kg		92	70 - 125	2	30
Bromodichloromethane			0.0500	0.0459		mg/Kg		92	67 - 129	4	30
Bromoform			0.0500	0.0497		mg/Kg		99	68 - 136	3	30
Bromomethane			0.0500	0.0402		mg/Kg		80	70 - 130	4	30
Carbon disulfide			0.0500	0.0464		mg/Kg		93	70 - 129	1	30
Carbon tetrachloride			0.0500	0.0432		mg/Kg		86	75 - 125	3	30
Chlorobenzene			0.0500	0.0465		mg/Kg		93	50 - 150	2	30
Chloroethane			0.0500	0.0429		mg/Kg		86	75 - 125	7	30
Chloroform			0.0500	0.0436		mg/Kg		87	57 - 135	1	30
Chloromethane			0.0500	0.0439		mg/Kg		88	70 - 125	3	30
cis-1,2-Dichloroethene			0.0500	0.0457		mg/Kg		91	70 - 125	1	30
cis-1,3-Dichloropropene			0.0500	0.0470		mg/Kg		94	70 - 125	2	30
Dibromochloromethane			0.0500	0.0472		mg/Kg		94	69 - 125	2	30
Ethylbenzene			0.0500	0.0457		mg/Kg		91	61 - 136	0	30
Methyl tert-butyl ether			0.0500	0.0477		mg/Kg		95	50 - 140	1	30
Methylene Chloride			0.0500	0.0431		mg/Kg		86	70 - 126	1	30
Styrene			0.0500	0.0498		mg/Kg		100	70 - 125	0	30
Tetrachloroethene			0.0500	0.0425		mg/Kg		85	70 - 124	2	30
Toluene			0.0500	0.0460		mg/Kg		92	70 - 125	2	30
Xylenes, Total			0.100	0.0906		mg/Kg		91	53 - 147	0	30
trans-1,2-Dichloroethene			0.0500	0.0454		mg/Kg		91	70 - 125	3	30
trans-1,3-Dichloropropene			0.0500	0.0468		mg/Kg		94	70 - 125	3	30
Trichloroethene			0.0500	0.0438		mg/Kg		88	70 - 125	5	30
Vinyl chloride			0.0500	0.0395		mg/Kg		79	70 - 125	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*
Dibromofluoromethane	*97*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 124*

Lab Sample ID: MB 500-786358/7
Matrix: Solid
Analysis Batch: 786358

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/17/24 11:07	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/17/24 11:07	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/17/24 11:07	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/17/24 11:07	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/17/24 11:07	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/17/24 11:07	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/17/24 11:07	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/17/24 11:07	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/17/24 11:07	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/17/24 11:07	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/17/24 11:07	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/17/24 11:07	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-786358/7
Matrix: Solid
Analysis Batch: 786358

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/17/24 11:07	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/17/24 11:07	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/17/24 11:07	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/17/24 11:07	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/17/24 11:07	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/17/24 11:07	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/17/24 11:07	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/17/24 11:07	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/17/24 11:07	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/17/24 11:07	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/17/24 11:07	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/17/24 11:07	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/17/24 11:07	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/17/24 11:07	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/17/24 11:07	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/17/24 11:07	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/17/24 11:07	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/17/24 11:07	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/17/24 11:07	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/17/24 11:07	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/17/24 11:07	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/17/24 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*		*09/17/24 11:07*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*		*09/17/24 11:07*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*09/17/24 11:07*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*		*09/17/24 11:07*	*1*

Lab Sample ID: LCS 500-786358/4
Matrix: Solid
Analysis Batch: 786358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0524		mg/Kg		105	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0397		mg/Kg		79	70 - 122
1,1,2-Trichloroethane	0.0500	0.0452		mg/Kg		90	70 - 125
1,1-Dichloroethane	0.0500	0.0411		mg/Kg		82	70 - 125
1,1-Dichloroethene	0.0500	0.0454		mg/Kg		91	70 - 120
1,2-Dichloroethane	0.0500	0.0474		mg/Kg		95	70 - 130
1,2-Dichloropropane	0.0500	0.0389		mg/Kg		78	70 - 125
2-Butanone (MEK)	0.0500	0.0416		mg/Kg		83	47 - 138
2-Hexanone	0.0500	0.0433		mg/Kg		87	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0422		mg/Kg		84	50 - 148
Acetone	0.0500	0.0362		mg/Kg		72	40 - 150
Benzene	0.0500	0.0442		mg/Kg		88	70 - 125
Bromodichloromethane	0.0500	0.0495		mg/Kg		99	67 - 129
Bromoform	0.0500	0.0489		mg/Kg		98	68 - 136

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786358/4
Matrix: Solid
Analysis Batch: 786358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromomethane			0.0500	0.0458		mg/Kg		92	70 - 130		
Carbon disulfide			0.0500	0.0426		mg/Kg		85	70 - 129		
Carbon tetrachloride			0.0500	0.0540		mg/Kg		108	75 - 125		
Chlorobenzene			0.0500	0.0456		mg/Kg		91	50 - 150		
Chloroethane			0.0500	0.0401		mg/Kg		80	75 - 125		
Chloroform			0.0500	0.0458		mg/Kg		92	57 - 135		
Chloromethane			0.0500	0.0389		mg/Kg		78	70 - 125		
cis-1,2-Dichloroethene			0.0500	0.0422		mg/Kg		84	70 - 125		
cis-1,3-Dichloropropene			0.0500	0.0473		mg/Kg		95	70 - 125		
Dibromochloromethane			0.0500	0.0501		mg/Kg		100	69 - 125		
Ethylbenzene			0.0500	0.0470		mg/Kg		94	61 - 136		
Methyl tert-butyl ether			0.0500	0.0453		mg/Kg		91	50 - 140		
Methylene Chloride			0.0500	0.0382		mg/Kg		76	70 - 126		
Styrene			0.0500	0.0469		mg/Kg		94	70 - 125		
Tetrachloroethene			0.0500	0.0518		mg/Kg		104	70 - 124		
Toluene			0.0500	0.0463		mg/Kg		93	70 - 125		
Xylenes, Total			0.100	0.0958		mg/Kg		96	53 - 147		
trans-1,2-Dichloroethene			0.0500	0.0421		mg/Kg		84	70 - 125		
trans-1,3-Dichloropropene			0.0500	0.0491		mg/Kg		98	70 - 125		
Trichloroethene			0.0500	0.0481		mg/Kg		96	70 - 125		
Vinyl chloride			0.0500	0.0444		mg/Kg		89	70 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*
4-Bromofluorobenzene (Surr)	*96*		*75 - 131*
Dibromofluoromethane	*99*		*75 - 126*
Toluene-d8 (Surr)	*101*		*75 - 124*

Lab Sample ID: LCSD 500-786358/5
Matrix: Solid
Analysis Batch: 786358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0500	0.0567		mg/Kg		113	70 - 128	8	30
1,1,2,2-Tetrachloroethane			0.0500	0.0427		mg/Kg		85	70 - 122	7	30
1,1,2-Trichloroethane			0.0500	0.0479		mg/Kg		96	70 - 125	6	30
1,1-Dichloroethane			0.0500	0.0443		mg/Kg		89	70 - 125	7	30
1,1-Dichloroethene			0.0500	0.0484		mg/Kg		97	70 - 120	6	30
1,2-Dichloroethane			0.0500	0.0513		mg/Kg		103	70 - 130	8	30
1,2-Dichloropropane			0.0500	0.0436		mg/Kg		87	70 - 125	11	30
2-Butanone (MEK)			0.0500	0.0386		mg/Kg		77	47 - 138	7	30
2-Hexanone			0.0500	0.0430		mg/Kg		86	48 - 146	1	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0437		mg/Kg		87	50 - 148	3	30
Acetone			0.0500	0.0406		mg/Kg		81	40 - 150	11	30
Benzene			0.0500	0.0469		mg/Kg		94	70 - 125	6	30
Bromodichloromethane			0.0500	0.0528		mg/Kg		106	67 - 129	7	30
Bromoform			0.0500	0.0515		mg/Kg		103	68 - 136	5	30
Bromomethane			0.0500	0.0496		mg/Kg		99	70 - 130	8	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-786358/5
Matrix: Solid
Analysis Batch: 786358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			0.0500	0.0463		mg/Kg		93	70 - 129	8	30
Carbon tetrachloride			0.0500	0.0566		mg/Kg		113	75 - 125	5	30
Chlorobenzene			0.0500	0.0491		mg/Kg		98	50 - 150	7	30
Chloroethane			0.0500	0.0446		mg/Kg		89	75 - 125	11	30
Chloroform			0.0500	0.0479		mg/Kg		96	57 - 135	4	30
Chloromethane			0.0500	0.0426		mg/Kg		85	70 - 125	9	30
cis-1,2-Dichloroethene			0.0500	0.0453		mg/Kg		91	70 - 125	7	30
cis-1,3-Dichloropropene			0.0500	0.0500		mg/Kg		100	70 - 125	6	30
Dibromochloromethane			0.0500	0.0526		mg/Kg		105	69 - 125	5	30
Ethylbenzene			0.0500	0.0502		mg/Kg		100	61 - 136	6	30
Methyl tert-butyl ether			0.0500	0.0498		mg/Kg		100	50 - 140	9	30
Methylene Chloride			0.0500	0.0405		mg/Kg		81	70 - 126	6	30
Styrene			0.0500	0.0504		mg/Kg		101	70 - 125	7	30
Tetrachloroethene			0.0500	0.0540		mg/Kg		108	70 - 124	4	30
Toluene			0.0500	0.0487		mg/Kg		97	70 - 125	5	30
Xylenes, Total			0.100	0.101		mg/Kg		101	53 - 147	5	30
trans-1,2-Dichloroethene			0.0500	0.0467		mg/Kg		93	70 - 125	10	30
trans-1,3-Dichloropropene			0.0500	0.0524		mg/Kg		105	70 - 125	6	30
Trichloroethene			0.0500	0.0517		mg/Kg		103	70 - 125	7	30
Vinyl chloride			0.0500	0.0480		mg/Kg		96	70 - 125	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*
4-Bromofluorobenzene (Surr)	*96*		*75 - 131*
Dibromofluoromethane	*98*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 124*

Lab Sample ID: MB 500-786552/7
Matrix: Solid
Analysis Batch: 786552

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			09/18/24 11:28	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			09/18/24 11:28	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			09/18/24 11:28	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			09/18/24 11:28	1
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			09/18/24 11:28	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			09/18/24 11:28	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			09/18/24 11:28	1
2-Butanone (MEK)	<0.0031		0.0050	0.0031	mg/Kg			09/18/24 11:28	1
2-Hexanone	<0.0029		0.0050	0.0029	mg/Kg			09/18/24 11:28	1
4-Methyl-2-pentanone (MIBK)	<0.0027		0.0050	0.0027	mg/Kg			09/18/24 11:28	1
Acetone	<0.0072		0.010	0.0072	mg/Kg			09/18/24 11:28	1
Benzene	<0.00012		0.00025	0.00012	mg/Kg			09/18/24 11:28	1
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			09/18/24 11:28	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			09/18/24 11:28	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			09/18/24 11:28	1
Carbon disulfide	<0.0011		0.0020	0.0011	mg/Kg			09/18/24 11:28	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-786552/7
Matrix: Solid
Analysis Batch: 786552

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			09/18/24 11:28	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			09/18/24 11:28	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			09/18/24 11:28	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			09/18/24 11:28	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			09/18/24 11:28	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			09/18/24 11:28	1
1,3-Dichloropropene, Total	<0.00063		0.0010	0.00063	mg/Kg			09/18/24 11:28	1
Dibromochloromethane	<0.00083		0.0010	0.00083	mg/Kg			09/18/24 11:28	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			09/18/24 11:28	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			09/18/24 11:28	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/18/24 11:28	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			09/18/24 11:28	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			09/18/24 11:28	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			09/18/24 11:28	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			09/18/24 11:28	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			09/18/24 11:28	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			09/18/24 11:28	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			09/18/24 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*09/18/24 11:28*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*09/18/24 11:28*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*09/18/24 11:28*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*09/18/24 11:28*	*1*

Lab Sample ID: LCS 500-786552/4
Matrix: Solid
Analysis Batch: 786552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0516		mg/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0504		mg/Kg		101	62 - 140
1,1,2-Trichloroethane	0.0500	0.0506		mg/Kg		101	71 - 130
1,1-Dichloroethane	0.0500	0.0496		mg/Kg		99	70 - 125
1,1-Dichloroethene	0.0500	0.0525		mg/Kg		105	67 - 122
1,2-Dichloroethane	0.0500	0.0468		mg/Kg		94	68 - 127
1,2-Dichloropropane	0.0500	0.0491		mg/Kg		98	67 - 130
2-Butanone (MEK)	0.0500	0.0447		mg/Kg		89	46 - 144
2-Hexanone	0.0500	0.0461		mg/Kg		92	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0489		mg/Kg		98	55 - 139
Acetone	0.0500	0.0407		mg/Kg		81	40 - 143
Benzene	0.0500	0.0480		mg/Kg		96	70 - 120
Bromodichloromethane	0.0500	0.0474		mg/Kg		95	69 - 120
Bromoform	0.0500	0.0493		mg/Kg		99	56 - 132
Bromomethane	0.0500	0.0591		mg/Kg		118	40 - 152
Carbon disulfide	0.0500	0.0521		mg/Kg		104	66 - 120
Carbon tetrachloride	0.0500	0.0526		mg/Kg		105	59 - 133
Chlorobenzene	0.0500	0.0500		mg/Kg		100	70 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786552/4
Matrix: Solid
Analysis Batch: 786552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	0.0500	0.0490		mg/Kg		98	48 - 136
Chloroform	0.0500	0.0468		mg/Kg		94	70 - 120
Chloromethane	0.0500	0.0690		mg/Kg		138	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0472		mg/Kg		94	64 - 127
Dibromochloromethane	0.0500	0.0498		mg/Kg		100	68 - 125
Ethylbenzene	0.0500	0.0475		mg/Kg		95	70 - 123
Methyl tert-butyl ether	0.0500	0.0493		mg/Kg		99	55 - 123
Methylene Chloride	0.0500	0.0503		mg/Kg		101	69 - 125
Styrene	0.0500	0.0501		mg/Kg		100	70 - 120
Tetrachloroethene	0.0500	0.0535		mg/Kg		107	70 - 128
Toluene	0.0500	0.0455		mg/Kg		91	70 - 125
Xylenes, Total	0.100	0.0949		mg/Kg		95	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0527		mg/Kg		105	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0478		mg/Kg		96	62 - 128
Trichloroethene	0.0500	0.0486		mg/Kg		97	70 - 125
Vinyl chloride	0.0500	0.0669	*+	mg/Kg		134	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*
Dibromofluoromethane	*99*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-786476/1-A
Matrix: Solid
Analysis Batch: 786603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/17/24 13:27	09/18/24 11:46	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786476/1-A
Matrix: Solid
Analysis Batch: 786603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Diethyl phthalate	0.0397	J	0.17	0.015	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/17/24 13:27	09/18/24 11:46	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/17/24 13:27	09/18/24 11:46	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786476/1-A
Matrix: Solid
Analysis Batch: 786603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786476

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	91		31 - 166	09/17/24 13:27	09/18/24 11:46	1
Phenol-d5 (Surr)	88		30 - 153	09/17/24 13:27	09/18/24 11:46	1
Nitrobenzene-d5 (Surr)	93		37 - 147	09/17/24 13:27	09/18/24 11:46	1
2-Fluorobiphenyl (Surr)	90		43 - 145	09/17/24 13:27	09/18/24 11:46	1
2,4,6-Tribromophenol (Surr)	65		31 - 143	09/17/24 13:27	09/18/24 11:46	1
Terphenyl-d14 (Surr)	92		42 - 157	09/17/24 13:27	09/18/24 11:46	1

Lab Sample ID: LCS 500-786476/2-A
Matrix: Solid
Analysis Batch: 786603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.67		mg/Kg		80	63 - 109
Acenaphthylene	3.33	2.82		mg/Kg		85	61 - 115
Anthracene	3.33	2.81		mg/Kg		84	68 - 120
Benzo[a]anthracene	3.33	2.76		mg/Kg		83	70 - 121
Benzo[a]pyrene	3.33	2.99		mg/Kg		90	73 - 132
Benzo[b]fluoranthene	3.33	2.85		mg/Kg		86	68 - 123
Benzo[g,h,i]perylene	3.33	3.01		mg/Kg		90	65 - 126
Benzo[k]fluoranthene	3.33	3.07		mg/Kg		92	64 - 128
Chrysene	3.33	2.72		mg/Kg		81	70 - 123
Dibenz(a,h)anthracene	3.33	2.98		mg/Kg		89	66 - 125
Fluoranthene	3.33	2.78		mg/Kg		83	66 - 123
Fluorene	3.33	2.68		mg/Kg		80	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.13		mg/Kg		94	66 - 131
Naphthalene	3.33	2.59		mg/Kg		78	54 - 98
Phenanthrene	3.33	2.82		mg/Kg		85	65 - 115
Pyrene	3.33	2.87		mg/Kg		86	71 - 128
1,2,4-Trichlorobenzene	3.33	2.37		mg/Kg		71	49 - 100
1,2-Dichlorobenzene	3.33	2.42		mg/Kg		73	47 - 94
1,3-Dichlorobenzene	3.33	2.44		mg/Kg		73	47 - 92
1,4-Dichlorobenzene	3.33	2.43		mg/Kg		73	46 - 92
2,4,5-Trichlorophenol	3.33	2.45		mg/Kg		74	48 - 121
2,4,6-Trichlorophenol	3.33	2.39		mg/Kg		72	50 - 121
2,4-Dichlorophenol	3.33	2.52		mg/Kg		76	51 - 109
2,4-Dimethylphenol	3.33	2.81		mg/Kg		84	48 - 93
2,4-Dinitrophenol	6.67	2.79		mg/Kg		42	10 - 130
2,4-Dinitrotoluene	3.33	2.74		mg/Kg		82	65 - 120
2,6-Dinitrotoluene	3.33	2.70		mg/Kg		81	66 - 117
2-Chloronaphthalene	3.33	2.62		mg/Kg		79	60 - 107
2-Chlorophenol	3.33	2.67		mg/Kg		80	50 - 102
2-Methylnaphthalene	3.33	2.24		mg/Kg		67	58 - 103
2-Methylphenol	3.33	2.62		mg/Kg		79	50 - 104
2-Nitroaniline	3.33	3.08		mg/Kg		92	61 - 126
2-Nitrophenol	3.33	2.52		mg/Kg		76	41 - 114
3,3'-Dichlorobenzidine	3.33	2.34		mg/Kg		70	36 - 131
3 & 4 Methylphenol	3.33	2.68		mg/Kg		80	49 - 109
3-Nitroaniline	3.33	2.63		mg/Kg		79	44 - 124

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-786476/2-A
Matrix: Solid
Analysis Batch: 786603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-2-methylphenol	6.67	4.35		mg/Kg		65	36 - 138
4-Bromophenyl phenyl ether	3.33	2.61		mg/Kg		78	57 - 124
4-Chloro-3-methylphenol	3.33	2.67		mg/Kg		80	57 - 113
4-Chloroaniline	3.33	2.38		mg/Kg		72	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.51		mg/Kg		75	60 - 112
4-Nitroaniline	3.33	2.59		mg/Kg		78	60 - 115
4-Nitrophenol	6.67	5.11		mg/Kg		77	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.64		mg/Kg		79	54 - 102
Bis(2-chloroethyl)ether	3.33	2.68		mg/Kg		81	49 - 99
bis(chloroisopropyl) ether	3.33	3.01		mg/Kg		90	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.12		mg/Kg		94	70 - 139
Butyl benzyl phthalate	3.33	3.08		mg/Kg		92	65 - 140
Carbazole	3.33	2.80		mg/Kg		84	68 - 120
Dibenzofuran	3.33	2.58		mg/Kg		78	64 - 112
Diethyl phthalate	3.33	2.73		mg/Kg		82	66 - 115
Dimethyl phthalate	3.33	2.65		mg/Kg		80	65 - 114
Di-n-butyl phthalate	3.33	2.92		mg/Kg		88	69 - 125
Di-n-octyl phthalate	3.33	3.04		mg/Kg		91	61 - 131
Hexachlorobenzene	3.33	2.61		mg/Kg		78	52 - 126
Hexachlorobutadiene	3.33	2.41		mg/Kg		72	42 - 103
Hexachlorocyclopentadiene	3.33	1.35		mg/Kg		41	10 - 100
Hexachloroethane	3.33	2.73		mg/Kg		82	45 - 95
Isophorone	3.33	2.61		mg/Kg		78	47 - 108
Nitrobenzene	3.33	2.94		mg/Kg		88	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.76		mg/Kg		83	48 - 110
N-Nitrosodiphenylamine	3.33	2.76		mg/Kg		83	67 - 112
Pentachlorophenol	6.67	3.02		mg/Kg		45	32 - 128
Phenol	3.33	2.91		mg/Kg		87	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*83*		*31 - 166*
Phenol-d5 (Surr)	*83*		*30 - 153*
Nitrobenzene-d5 (Surr)	*85*		*37 - 147*
2-Fluorobiphenyl (Surr)	*80*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*64*		*31 - 143*
Terphenyl-d14 (Surr)	*80*		*42 - 157*

Lab Sample ID: MB 500-786798/1-A
Matrix: Solid
Analysis Batch: 786820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/19/24 07:59	09/19/24 15:20	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786798/1-A
Matrix: Solid
Analysis Batch: 786820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/19/24 07:59	09/19/24 15:20	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786798/1-A
Matrix: Solid
Analysis Batch: 786820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/19/24 07:59	09/19/24 15:20	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/19/24 07:59	09/19/24 15:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*64*		*31 - 166*	*09/19/24 07:59*	*09/19/24 15:20*	*1*
Phenol-d5 (Surr)	*67*		*30 - 153*	*09/19/24 07:59*	*09/19/24 15:20*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*09/19/24 07:59*	*09/19/24 15:20*	*1*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*09/19/24 07:59*	*09/19/24 15:20*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*31 - 143*	*09/19/24 07:59*	*09/19/24 15:20*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*09/19/24 07:59*	*09/19/24 15:20*	*1*

Lab Sample ID: LCS 500-786798/2-A
Matrix: Solid
Analysis Batch: 786820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.77		mg/Kg		83	63 - 109
Acenaphthylene	3.33	2.88		mg/Kg		86	61 - 115
Anthracene	3.33	2.79		mg/Kg		84	68 - 120
Benzo[a]anthracene	3.33	2.77		mg/Kg		83	70 - 121
Benzo[a]pyrene	3.33	2.99		mg/Kg		90	73 - 132
Benzo[b]fluoranthene	3.33	3.11		mg/Kg		93	68 - 123
Benzo[g,h,i]perylene	3.33	3.16		mg/Kg		95	65 - 126
Benzo[k]fluoranthene	3.33	3.14		mg/Kg		94	64 - 128
Chrysene	3.33	2.69		mg/Kg		81	70 - 123
Dibenz(a,h)anthracene	3.33	3.07		mg/Kg		92	66 - 125
Fluoranthene	3.33	2.75		mg/Kg		82	66 - 123
Fluorene	3.33	2.63		mg/Kg		79	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.63		mg/Kg		109	66 - 131
Naphthalene	3.33	2.61		mg/Kg		78	54 - 98
Phenanthrene	3.33	2.74		mg/Kg		82	65 - 115
Pyrene	3.33	2.99		mg/Kg		90	71 - 128
1,2,4-Trichlorobenzene	3.33	2.31		mg/Kg		69	49 - 100
1,2-Dichlorobenzene	3.33	2.48		mg/Kg		74	47 - 94
1,3-Dichlorobenzene	3.33	2.44		mg/Kg		73	47 - 92
1,4-Dichlorobenzene	3.33	2.43		mg/Kg		73	46 - 92
2,4,5-Trichlorophenol	3.33	2.54		mg/Kg		76	48 - 121
2,4,6-Trichlorophenol	3.33	2.53		mg/Kg		76	50 - 121
2,4-Dichlorophenol	3.33	2.54		mg/Kg		76	51 - 109
2,4-Dimethylphenol	3.33	2.88		mg/Kg		86	48 - 93
2,4-Dinitrophenol	6.67	2.94		mg/Kg		44	10 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-786798/2-A
Matrix: Solid
Analysis Batch: 786820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	3.33	2.67		mg/Kg		80	65 - 120
2,6-Dinitrotoluene	3.33	2.64		mg/Kg		79	66 - 117
2-Chloronaphthalene	3.33	2.64		mg/Kg		79	60 - 107
2-Chlorophenol	3.33	2.66		mg/Kg		80	50 - 102
2-Methylnaphthalene	3.33	2.33		mg/Kg		70	58 - 103
2-Methylphenol	3.33	2.83		mg/Kg		85	50 - 104
2-Nitroaniline	3.33	3.37		mg/Kg		101	61 - 126
2-Nitrophenol	3.33	2.55		mg/Kg		76	41 - 114
3,3'-Dichlorobenzidine	3.33	2.44		mg/Kg		73	36 - 131
3 & 4 Methylphenol	3.33	2.72		mg/Kg		82	49 - 109
3-Nitroaniline	3.33	2.56		mg/Kg		77	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.15		mg/Kg		62	36 - 138
4-Bromophenyl phenyl ether	3.33	2.77		mg/Kg		83	57 - 124
4-Chloro-3-methylphenol	3.33	2.93		mg/Kg		88	57 - 113
4-Chloroaniline	3.33	2.41		mg/Kg		72	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.57		mg/Kg		77	60 - 112
4-Nitroaniline	3.33	2.61		mg/Kg		78	60 - 115
4-Nitrophenol	6.67	5.12		mg/Kg		77	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.76		mg/Kg		83	54 - 102
Bis(2-chloroethyl)ether	3.33	2.77		mg/Kg		83	49 - 99
bis(chloroisopropyl) ether	3.33	2.98		mg/Kg		89	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.23		mg/Kg		97	70 - 139
Butyl benzyl phthalate	3.33	3.27		mg/Kg		98	65 - 140
Carbazole	3.33	2.84		mg/Kg		85	68 - 120
Dibenzofuran	3.33	2.64		mg/Kg		79	64 - 112
Diethyl phthalate	3.33	2.91		mg/Kg		87	66 - 115
Dimethyl phthalate	3.33	2.75		mg/Kg		82	65 - 114
Di-n-butyl phthalate	3.33	3.16		mg/Kg		95	69 - 125
Di-n-octyl phthalate	3.33	2.95		mg/Kg		88	61 - 131
Hexachlorobenzene	3.33	2.83		mg/Kg		85	52 - 126
Hexachlorobutadiene	3.33	2.38		mg/Kg		71	42 - 103
Hexachlorocyclopentadiene	3.33	0.933		mg/Kg		28	10 - 100
Hexachloroethane	3.33	2.69		mg/Kg		81	45 - 95
Isophorone	3.33	2.86		mg/Kg		86	47 - 108
Nitrobenzene	3.33	2.95		mg/Kg		88	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.97		mg/Kg		89	48 - 110
N-Nitrosodiphenylamine	3.33	2.74		mg/Kg		82	67 - 112
Pentachlorophenol	6.67	4.19		mg/Kg		63	32 - 128
Phenol	3.33	2.71		mg/Kg		81	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*85*		*31 - 166*
Phenol-d5 (Surr)	*87*		*30 - 153*
Nitrobenzene-d5 (Surr)	*89*		*37 - 147*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*79*		*31 - 143*
Terphenyl-d14 (Surr)	*91*		*42 - 157*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256339-5 MS
Matrix: Solid
Analysis Batch: 786826

Client Sample ID: SB58 (0-3)
Prep Type: Total/NA
Prep Batch: 786798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	<0.015	F1	3.64	1.83	F1	mg/Kg	☼	50	65 - 124
Acenaphthylene	0.023	J F1	3.64	1.77	F1	mg/Kg	☼	48	68 - 120
Anthracene	<0.015		3.64	2.57		mg/Kg	☼	70	70 - 114
Benzo[a]anthracene	0.18		3.64	2.88		mg/Kg	☼	74	67 - 122
Benzo[a]pyrene	0.18		3.64	3.03		mg/Kg	☼	78	65 - 133
Benzo[b]fluoranthene	0.25		3.64	3.62		mg/Kg	☼	93	69 - 129
Benzo[g,h,i]perylene	0.098	F1	3.64	2.22	F1	mg/Kg	☼	58	72 - 131
Benzo[k]fluoranthene	0.19		3.64	3.24		mg/Kg	☼	84	68 - 127
Chrysene	0.19		3.64	2.81		mg/Kg	☼	72	63 - 120
Dibenz(a,h)anthracene	<0.071		3.64	2.40		mg/Kg	☼	66	64 - 131
Fluoranthene	0.27		3.64	3.15		mg/Kg	☼	79	62 - 120
Fluorene	<0.021	F1	3.64	2.11	F1	mg/Kg	☼	58	62 - 120
Indeno[1,2,3-cd]pyrene	0.11	F1	3.64	2.40	F1	mg/Kg	☼	63	68 - 130
Naphthalene	<0.013	F1	3.64	1.33	F1	mg/Kg	☼	37	63 - 110
Phenanthrene	0.060	J	3.64	2.70		mg/Kg	☼	72	62 - 120
Pyrene	0.22		3.64	3.01		mg/Kg	☼	76	61 - 128
1,2,4-Trichlorobenzene	<0.051	F1	3.64	1.28	F1	mg/Kg	☼	35	66 - 117
1,2-Dichlorobenzene	<0.029	F1	3.64	1.19	F1	mg/Kg	☼	33	62 - 110
1,3-Dichlorobenzene	<0.032	F1	3.64	1.18	F1	mg/Kg	☼	32	60 - 110
1,4-Dichlorobenzene	<0.034	F1	3.64	1.16	F1	mg/Kg	☼	32	61 - 110
2,4,5-Trichlorophenol	<0.027	F1 F2	3.64	0.445	J F1	mg/Kg	☼	12	50 - 120
2,4,6-Trichlorophenol	<0.024	F1 F2	3.64	0.126	J F1	mg/Kg	☼	3	57 - 120
2,4-Dichlorophenol	<0.025	F1	3.64	0.889	F1	mg/Kg	☼	24	58 - 120
2,4-Dimethylphenol	<0.16	F1	3.64	1.46	F1	mg/Kg	☼	40	60 - 110
2,4-Dinitrophenol	<0.41	F1	7.29	<0.42	F1	mg/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<0.041	F1	3.64	2.40	F1	mg/Kg	☼	66	69 - 124
2,6-Dinitrotoluene	<0.024	F1	3.64	2.03	F1	mg/Kg	☼	56	70 - 123
2-Chloronaphthalene	<0.027	F1	3.64	1.50	F1	mg/Kg	☼	41	69 - 114
2-Chlorophenol	<0.023	F1	3.64	1.08	F1	mg/Kg	☼	30	64 - 110
2-Methylnaphthalene	<0.014	F1	3.64	1.21	F1	mg/Kg	☼	33	69 - 112
2-Methylphenol	<0.038	F1	3.64	1.40	F1	mg/Kg	☼	38	60 - 120
2-Nitroaniline	<0.038		3.64	2.27		mg/Kg	☼	62	57 - 124
2-Nitrophenol	<0.049	F1 F2	3.64	0.418	J F1	mg/Kg	☼	11	60 - 120
3,3'-Dichlorobenzidine	<0.058		3.64	2.53		mg/Kg	☼	69	35 - 128
3 & 4 Methylphenol	<0.052	F1	3.64	1.39	F1	mg/Kg	☼	38	57 - 120
3-Nitroaniline	<0.033		3.64	2.25		mg/Kg	☼	62	40 - 122
4,6-Dinitro-2-methylphenol	<0.40	F1	7.29	<0.41	F1	mg/Kg	☼	0	10 - 110
4-Bromophenyl phenyl ether	<0.049	F1	3.64	2.30	F1	mg/Kg	☼	63	68 - 118
4-Chloro-3-methylphenol	<0.028	F1	3.64	1.99	F1	mg/Kg	☼	55	65 - 122
4-Chloroaniline	<0.75		3.64	1.12	J	mg/Kg	☼	31	30 - 150
4-Chlorophenyl phenyl ether	<0.094	F1	3.64	2.05	F1	mg/Kg	☼	56	62 - 119
4-Nitroaniline	<0.053	F1	3.64	2.12	F1	mg/Kg	☼	58	60 - 160
4-Nitrophenol	<0.27	F1 F2	7.29	0.496	J F1	mg/Kg	☼	7	30 - 122
Bis(2-chloroethoxy)methane	<0.027	F1	3.64	1.31	F1	mg/Kg	☼	36	60 - 112
Bis(2-chloroethyl)ether	<0.033	F1 F2	3.64	1.31	F1	mg/Kg	☼	36	55 - 111
bis(chloroisopropyl) ether	<0.051	F1	3.64	1.32	F1	mg/Kg	☼	36	40 - 124
Bis(2-ethylhexyl) phthalate	<0.28		3.64	2.95		mg/Kg	☼	81	72 - 131
Butyl benzyl phthalate	0.16	J	3.64	2.92		mg/Kg	☼	76	71 - 129

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256339-5 MS
Matrix: Solid
Analysis Batch: 786826

Client Sample ID: SB58 (0-3)
Prep Type: Total/NA
Prep Batch: 786798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbazole	<0.028		3.64	2.57		mg/Kg	☼	71	65 - 142
Dibenzofuran	<0.025	F1	3.64	1.78	F1	mg/Kg	☼	49	66 - 115
Diethyl phthalate	<0.033		3.64	2.47		mg/Kg	☼	68	58 - 120
Dimethyl phthalate	<0.016	F1	3.64	2.09	F1	mg/Kg	☼	57	69 - 116
Di-n-butyl phthalate	<0.023		3.64	2.77		mg/Kg	☼	76	65 - 120
Di-n-octyl phthalate	<0.50		3.64	2.75		mg/Kg	☼	76	68 - 134
Hexachlorobenzene	<0.014		3.64	2.48		mg/Kg	☼	68	63 - 124
Hexachlorobutadiene	<0.040	F1	3.64	1.30	F1	mg/Kg	☼	36	56 - 120
Hexachlorocyclopentadiene	<0.76	F1	3.64	<0.77	F1	mg/Kg	☼	0	10 - 133
Hexachloroethane	<0.036	F1	3.64	1.10	F1	mg/Kg	☼	30	60 - 114
Isophorone	<0.037	F1	3.64	1.37	F1	mg/Kg	☼	38	55 - 110
Nitrobenzene	<0.023	F1	3.64	1.38	F1	mg/Kg	☼	38	60 - 116
N-Nitrosodi-n-propylamine	<0.014	F1	3.64	1.41	F1	mg/Kg	☼	39	56 - 118
N-Nitrosodiphenylamine	<0.043	F1	3.64	2.30	F1	mg/Kg	☼	63	65 - 112
Pentachlorophenol	<0.18	F1	7.29	<0.18	F1	mg/Kg	☼	0	13 - 112
Phenol	<0.031	F1	3.64	1.36	F1	mg/Kg	☼	37	56 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*28*	*S1-*	*31 - 166*
Phenol-d5 (Surr)	*37*		*30 - 153*
Nitrobenzene-d5 (Surr)	*37*		*37 - 147*
2-Fluorobiphenyl (Surr)	*41*	*S1-*	*43 - 145*
2,4,6-Tribromophenol (Surr)	*4*	*S1-*	*31 - 143*
Terphenyl-d14 (Surr)	*68*		*42 - 157*

Lab Sample ID: 500-256339-5 MSD
Matrix: Solid
Analysis Batch: 786826

Client Sample ID: SB58 (0-3)
Prep Type: Total/NA
Prep Batch: 786798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	<0.015	F1	3.60	2.08	F1	mg/Kg	☼	58	65 - 124	13	30
Acenaphthylene	0.023	J F1	3.60	2.05	F1	mg/Kg	☼	56	68 - 120	15	30
Anthracene	<0.015		3.60	2.73		mg/Kg	☼	76	70 - 114	6	30
Benzo[a]anthracene	0.18		3.60	3.10		mg/Kg	☼	81	67 - 122	7	30
Benzo[a]pyrene	0.18		3.60	3.30		mg/Kg	☼	87	65 - 133	9	30
Benzo[b]fluoranthene	0.25		3.60	3.96		mg/Kg	☼	103	69 - 129	9	30
Benzo[g,h,i]perylene	0.098	F1	3.60	2.49	F1	mg/Kg	☼	66	72 - 131	12	30
Benzo[k]fluoranthene	0.19		3.60	3.49		mg/Kg	☼	92	68 - 127	8	30
Chrysene	0.19		3.60	3.06		mg/Kg	☼	80	63 - 120	8	30
Dibenz(a,h)anthracene	<0.071		3.60	2.57		mg/Kg	☼	71	64 - 131	7	30
Fluoranthene	0.27		3.60	3.31		mg/Kg	☼	84	62 - 120	5	30
Fluorene	<0.021	F1	3.60	2.30		mg/Kg	☼	64	62 - 120	9	30
Indeno[1,2,3-cd]pyrene	0.11	F1	3.60	2.62		mg/Kg	☼	70	68 - 130	9	30
Naphthalene	<0.013	F1	3.60	1.62	F1	mg/Kg	☼	45	63 - 110	20	30
Phenanthrene	0.060	J	3.60	2.87		mg/Kg	☼	78	62 - 120	6	30
Pyrene	0.22		3.60	3.24		mg/Kg	☼	84	61 - 128	7	30
1,2,4-Trichlorobenzene	<0.051	F1	3.60	1.53	F1	mg/Kg	☼	43	66 - 117	18	30
1,2-Dichlorobenzene	<0.029	F1	3.60	1.54	F1	mg/Kg	☼	43	62 - 110	25	30

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256339-5 MSD
Matrix: Solid
Analysis Batch: 786826

Client Sample ID: SB58 (0-3)
Prep Type: Total/NA
Prep Batch: 786798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3-Dichlorobenzene	<0.032	F1	3.60	1.49	F1	mg/Kg	☼	41	60 - 110	23	30
1,4-Dichlorobenzene	<0.034	F1	3.60	1.53	F1	mg/Kg	☼	42	61 - 110	27	30
2,4,5-Trichlorophenol	<0.027	F1 F2	3.60	0.289	J F1 F2	mg/Kg	☼	8	50 - 120	42	30
2,4,6-Trichlorophenol	<0.024	F1 F2	3.60	0.0785	J F1 F2	mg/Kg	☼	2	57 - 120	46	30
2,4-Dichlorophenol	<0.025	F1	3.60	0.811	F1	mg/Kg	☼	23	58 - 120	9	30
2,4-Dimethylphenol	<0.16	F1	3.60	1.83	F1	mg/Kg	☼	51	60 - 110	23	30
2,4-Dinitrophenol	<0.41	F1	7.21	<0.42	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.041	F1	3.60	2.59		mg/Kg	☼	72	69 - 124	8	30
2,6-Dinitrotoluene	<0.024	F1	3.60	2.29	F1	mg/Kg	☼	64	70 - 123	12	30
2-Chloronaphthalene	<0.027	F1	3.60	1.85	F1	mg/Kg	☼	51	69 - 114	21	30
2-Chlorophenol	<0.023	F1	3.60	1.26	F1	mg/Kg	☼	35	64 - 110	15	30
2-Methylnaphthalene	<0.014	F1	3.60	1.49	F1	mg/Kg	☼	41	69 - 112	20	30
2-Methylphenol	<0.038	F1	3.60	1.75	F1	mg/Kg	☼	49	60 - 120	22	30
2-Nitroaniline	<0.038		3.60	2.63		mg/Kg	☼	73	57 - 124	14	30
2-Nitrophenol	<0.049	F1 F2	3.60	0.296	J F1 F2	mg/Kg	☼	8	60 - 120	34	30
3,3'-Dichlorobenzidine	<0.058		3.60	2.58		mg/Kg	☼	71	35 - 128	2	30
3 & 4 Methylphenol	<0.052	F1	3.60	1.73	F1	mg/Kg	☼	48	57 - 120	22	30
3-Nitroaniline	<0.033		3.60	2.40		mg/Kg	☼	67	40 - 122	6	30
4,6-Dinitro-2-methylphenol	<0.40	F1	7.21	<0.40	F1	mg/Kg	☼	0	10 - 110	NC	30
4-Bromophenyl phenyl ether	<0.049	F1	3.60	2.64		mg/Kg	☼	73	68 - 118	14	30
4-Chloro-3-methylphenol	<0.028	F1	3.60	2.10	F1	mg/Kg	☼	58	65 - 122	5	30
4-Chloroaniline	<0.75		3.60	1.34	J	mg/Kg	☼	37	30 - 150	18	30
4-Chlorophenyl phenyl ether	<0.094	F1	3.60	2.37		mg/Kg	☼	66	62 - 119	14	30
4-Nitroaniline	<0.053	F1	3.60	2.26		mg/Kg	☼	63	60 - 160	7	30
4-Nitrophenol	<0.27	F1 F2	7.21	0.298	J F1 F2	mg/Kg	☼	4	30 - 122	50	30
Bis(2-chloroethoxy)methane	<0.027	F1	3.60	1.68	F1	mg/Kg	☼	46	60 - 112	24	30
Bis(2-chloroethyl)ether	<0.033	F1 F2	3.60	1.92	F1 F2	mg/Kg	☼	53	55 - 111	38	30
bis(chloroisopropyl) ether	<0.051	F1	3.60	1.69		mg/Kg	☼	47	40 - 124	25	30
Bis(2-ethylhexyl) phthalate	<0.28		3.60	3.26		mg/Kg	☼	90	72 - 131	10	30
Butyl benzyl phthalate	0.16	J	3.60	3.96		mg/Kg	☼	105	71 - 129	30	30
Carbazole	<0.028		3.60	2.75		mg/Kg	☼	76	65 - 142	7	30
Dibenzofuran	<0.025	F1	3.60	2.06	F1	mg/Kg	☼	57	66 - 115	15	30
Diethyl phthalate	<0.033		3.60	2.66		mg/Kg	☼	74	58 - 120	7	30
Dimethyl phthalate	<0.016	F1	3.60	2.29	F1	mg/Kg	☼	64	69 - 116	9	30
Di-n-butyl phthalate	<0.023		3.60	3.04		mg/Kg	☼	84	65 - 120	9	30
Di-n-octyl phthalate	<0.50		3.60	2.98		mg/Kg	☼	83	68 - 134	8	30
Hexachlorobenzene	<0.014		3.60	2.81		mg/Kg	☼	78	63 - 124	13	30
Hexachlorobutadiene	<0.040	F1	3.60	1.54	F1	mg/Kg	☼	43	56 - 120	17	30
Hexachlorocyclopentadiene	<0.76	F1	3.60	<0.76	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.036	F1	3.60	1.23	F1	mg/Kg	☼	34	60 - 114	11	30
Isophorone	<0.037	F1	3.60	1.73	F1	mg/Kg	☼	48	55 - 110	24	30
Nitrobenzene	<0.023	F1	3.60	1.75	F1	mg/Kg	☼	49	60 - 116	24	30
N-Nitrosodi-n-propylamine	<0.014	F1	3.60	1.76	F1	mg/Kg	☼	49	56 - 118	22	30
N-Nitrosodiphenylamine	<0.043	F1	3.60	2.63		mg/Kg	☼	73	65 - 112	13	30
Pentachlorophenol	<0.18	F1	7.21	<0.18	F1	mg/Kg	☼	0	13 - 112	NC	30
Phenol	<0.031	F1	3.60	1.66	F1	mg/Kg	☼	46	56 - 122	20	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256339-5 MSD
Matrix: Solid
Analysis Batch: 786826

Client Sample ID: SB58 (0-3)
Prep Type: Total/NA
Prep Batch: 786798

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol (Surr)	30	S1-	31 - 166
Phenol-d5 (Surr)	44		30 - 153
Nitrobenzene-d5 (Surr)	43		37 - 147
2-Fluorobiphenyl (Surr)	47		43 - 145
2,4,6-Tribromophenol (Surr)	2	S1-	31 - 143
Terphenyl-d14 (Surr)	72		42 - 157

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-785604/3
Matrix: Solid
Analysis Batch: 785604

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			09/12/24 08:58	50

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		70 - 130		09/12/24 08:58	50
4-Bromofluorobenzene	106		60 - 130		09/12/24 08:58	50

Lab Sample ID: LCS 500-785604/4
Matrix: Solid
Analysis Batch: 785604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	19.9	16.8		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	104		70 - 130
4-Bromofluorobenzene	106		60 - 130

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-785243/1-A
Matrix: Solid
Analysis Batch: 785461

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		09/10/24 07:28	09/11/24 16:14	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		09/10/24 07:28	09/11/24 16:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	80		50 - 126	09/10/24 07:28	09/11/24 16:14	1
2-Fluorobiphenyl (Surr)	61		40 - 133	09/10/24 07:28	09/11/24 16:14	1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 500-785243/2-A
Matrix: Solid
Analysis Batch: 785461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785243

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	51.2		mg/Kg		77	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*84*		*50 - 126*
2-Fluorobiphenyl (Surr)	*76*		*40 - 133*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-786541/1-A
Matrix: Solid
Analysis Batch: 787729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/18/24 07:16	09/25/24 17:55	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/18/24 07:16	09/25/24 17:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*33 - 148*	*09/18/24 07:16*	*09/25/24 17:55*	*1*
Tetrachloro-m-xylene	*66*		*30 - 121*	*09/18/24 07:16*	*09/25/24 17:55*	*1*

Lab Sample ID: LCS 500-786541/2-A
Matrix: Solid
Analysis Batch: 787729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786541

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			0.0133	0.0112		mg/Kg		84	47 - 137		
4,4'-DDE			0.0133	0.0105		mg/Kg		79	50 - 130		

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-786541/2-A
Matrix: Solid
Analysis Batch: 787729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDT	0.0133	0.0106		mg/Kg		80	46 - 143
Aldrin	0.0133	0.00877		mg/Kg		66	52 - 122
alpha-BHC	0.0133	0.00856		mg/Kg		64	50 - 123
beta-BHC	0.0133	0.0105		mg/Kg		78	44 - 140
delta-BHC	0.0133	0.0109		mg/Kg		82	57 - 125
Dieldrin	0.0133	0.0101		mg/Kg		75	51 - 133
Endosulfan I	0.0133	0.00787		mg/Kg		59	30 - 120
Endosulfan II	0.0133	0.00950		mg/Kg		71	30 - 120
Endosulfan sulfate	0.0133	0.0109		mg/Kg		82	42 - 150
Endrin	0.0133	0.0108		mg/Kg		81	43 - 144
Endrin aldehyde	0.0133	0.0105		mg/Kg		79	39 - 131
Endrin ketone	0.0133	0.0110		mg/Kg		82	51 - 135
gamma-BHC (Lindane)	0.0133	0.00852		mg/Kg		64	50 - 122
Heptachlor	0.0133	0.00870		mg/Kg		65	53 - 129
Heptachlor epoxide	0.0133	0.00914		mg/Kg		69	50 - 139
Methoxychlor	0.0133	0.0103		mg/Kg		77	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*33 - 148*
Tetrachloro-m-xylene	*61*		*30 - 121*

Lab Sample ID: 500-256339-6 MS
Matrix: Solid
Analysis Batch: 787891

Client Sample ID: SB58 (10-12.5)
Prep Type: Total/NA
Prep Batch: 786541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.0091	F1	0.0137	<0.0093	F1	mg/Kg	☼	0	47 - 137
4,4'-DDE	<0.0088	F1	0.0137	<0.0089	F1	mg/Kg	☼	0	50 - 130
4,4'-DDT	<0.0081		0.0137	0.0144	J	mg/Kg	☼	105	46 - 143
Aldrin	<0.012	F1	0.0137	<0.012	F1	mg/Kg	☼	0	52 - 122
alpha-BHC	<0.0096	F1	0.0137	<0.0098	F1	mg/Kg	☼	0	50 - 123
beta-BHC	<0.014		0.0137	<0.014		mg/Kg	☼	NC	44 - 140
delta-BHC	<0.0081	F1	0.0137	<0.0083	F1	mg/Kg	☼	0	57 - 125
Dieldrin	<0.0089	F1	0.0137	<0.0091	F1	mg/Kg	☼	0	51 - 133
Endosulfan I	<0.0092	F1	0.0137	<0.0094	F1	mg/Kg	☼	0	30 - 120
Endosulfan II	<0.0093	F1	0.0137	<0.0095	F1	mg/Kg	☼	0	30 - 120
Endosulfan sulfate	<0.0094	F1	0.0137	0.0212	F1	mg/Kg	☼	155	42 - 150
Endrin	<0.0087	F1	0.0137	<0.0089	F1	mg/Kg	☼	0	43 - 144
Endrin aldehyde	<0.0097	F1	0.0137	<0.0099	F1	mg/Kg	☼	0	39 - 131
Endrin ketone	<0.0083	F1	0.0137	0.0147	J	mg/Kg	☼	108	51 - 135
gamma-BHC (Lindane)	<0.0085	F1	0.0137	<0.0086	F1	mg/Kg	☼	0	50 - 122
Heptachlor	<0.0092	F1	0.0137	<0.0094	F1	mg/Kg	☼	0	53 - 129
Heptachlor epoxide	<0.0092	F1 F2	0.0137	0.0466	F1	mg/Kg	☼	340	50 - 139
Methoxychlor	<0.011	F1	0.0137	<0.011	F1	mg/Kg	☼	0	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*120*		*33 - 148*
Tetrachloro-m-xylene	*52*		*30 - 121*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: 500-256339-6 MSD
Client Sample ID: SB58 (10-12.5)
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 787891
Prep Batch: 786541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.0091	F1	0.0136	0.0103	J	mg/Kg	☼	76	47 - 137	NC	30
4,4'-DDE	<0.0088	F1	0.0136	0.00896	J	mg/Kg	☼	66	50 - 130	NC	30
4,4'-DDT	<0.0081		0.0136	0.0177		mg/Kg	☼	130	46 - 143	20	30
Aldrin	<0.012	F1	0.0136	<0.012	F1	mg/Kg	☼	0	52 - 122	NC	30
alpha-BHC	<0.0096	F1	0.0136	<0.0097	F1	mg/Kg	☼	0	50 - 123	NC	30
beta-BHC	<0.014		0.0136	<0.014		mg/Kg	☼	NC	44 - 140	NC	30
delta-BHC	<0.0081	F1	0.0136	0.00874	J	mg/Kg	☼	64	57 - 125	NC	30
Dieldrin	<0.0089	F1	0.0136	<0.0090	F1	mg/Kg	☼	0	51 - 133	NC	30
Endosulfan I	<0.0092	F1	0.0136	<0.0093	F1	mg/Kg	☼	0	30 - 120	NC	30
Endosulfan II	<0.0093	F1	0.0136	<0.0094	F1	mg/Kg	☼	0	30 - 120	NC	30
Endosulfan sulfate	<0.0094	F1	0.0136	<0.0095	F1	mg/Kg	☼	0	42 - 150	NC	30
Endrin	<0.0087	F1	0.0136	<0.0088	F1	mg/Kg	☼	0	43 - 144	NC	30
Endrin aldehyde	<0.0097	F1	0.0136	<0.0098	F1	mg/Kg	☼	0	39 - 131	NC	30
Endrin ketone	<0.0083	F1	0.0136	<0.0084	F1	mg/Kg	☼	0	51 - 135	NC	30
gamma-BHC (Lindane)	<0.0085	F1	0.0136	0.00940	J	mg/Kg	☼	69	50 - 122	NC	30
Heptachlor	<0.0092	F1	0.0136	0.0101	J	mg/Kg	☼	74	53 - 129	NC	30
Heptachlor epoxide	<0.0092	F1 F2	0.0136	0.0265	F1 F2	mg/Kg	☼	194	50 - 139	55	30
Methoxychlor	<0.011	F1	0.0136	0.0140	J	mg/Kg	☼	103	45 - 144	NC	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*157*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*64*		*30 - 121*

Lab Sample ID: MB 500-786773/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 787590
Prep Batch: 786773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/19/24 07:20	09/25/24 08:39	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-786773/1-A
Matrix: Solid
Analysis Batch: 787590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/19/24 07:20	09/25/24 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*33 - 148*	*09/19/24 07:20*	*09/25/24 08:39*	*1*
Tetrachloro-m-xylene	*70*		*30 - 121*	*09/19/24 07:20*	*09/25/24 08:39*	*1*

Lab Sample ID: LCS 500-786773/2-A
Matrix: Solid
Analysis Batch: 787590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0108		mg/Kg		81	47 - 137
4,4'-DDE	0.0133	0.00968		mg/Kg		73	50 - 130
4,4'-DDT	0.0133	0.0115		mg/Kg		86	46 - 143
Aldrin	0.0133	0.00804		mg/Kg		60	52 - 122
alpha-BHC	0.0133	0.00909		mg/Kg		68	50 - 123
beta-BHC	0.0133	0.00928		mg/Kg		70	44 - 140
delta-BHC	0.0133	0.00947		mg/Kg		71	57 - 125
Dieldrin	0.0133	0.00935		mg/Kg		70	51 - 133
Endosulfan I	0.0133	0.00723		mg/Kg		54	30 - 120
Endosulfan II	0.0133	0.00871		mg/Kg		65	30 - 120
Endosulfan sulfate	0.0133	0.0100		mg/Kg		75	42 - 150
Endrin	0.0133	0.0103		mg/Kg		77	43 - 144
Endrin aldehyde	0.0133	0.00994		mg/Kg		75	39 - 131
Endrin ketone	0.0133	0.0110		mg/Kg		82	51 - 135
gamma-BHC (Lindane)	0.0133	0.00927		mg/Kg		70	50 - 122
Heptachlor	0.0133	0.00933		mg/Kg		70	53 - 129
Heptachlor epoxide	0.0133	0.00888		mg/Kg		67	50 - 139
Methoxychlor	0.0133	0.0155		mg/Kg		116	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*84*		*33 - 148*
Tetrachloro-m-xylene	*57*		*30 - 121*

Lab Sample ID: 500-256339-19 MS
Matrix: Solid
Analysis Batch: 787590

Client Sample ID: SB64 (7.5-10)
Prep Type: Total/NA
Prep Batch: 786773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDE	<0.011		0.0159	0.0107	J	mg/Kg	☼	67	50 - 130
Aldrin	<0.015	F1	0.0159	0.106	F1	mg/Kg	☼	666	52 - 122
alpha-BHC	<0.012	F1	0.0159	<0.011	F1	mg/Kg	☼	0	50 - 123
delta-BHC	<0.010	F1	0.0159	0.0273	F1	mg/Kg	☼	172	57 - 125
Dieldrin	<0.011		0.0159	0.0110	J	mg/Kg	☼	69	51 - 133
Endosulfan I	<0.011	F1	0.0159	<0.011	F1	mg/Kg	☼	0	30 - 120
Endosulfan II	<0.012	F1	0.0159	<0.011	F1	mg/Kg	☼	0	30 - 120
Endosulfan sulfate	<0.012	F1	0.0159	<0.011	F1	mg/Kg	☼	0	42 - 150

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-256339-19 MS
Matrix: Solid
Analysis Batch: 787590

Client Sample ID: SB64 (7.5-10)
Prep Type: Total/NA
Prep Batch: 786773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Endrin	<0.011	F2	0.0159	0.0135	J	mg/Kg	☼	85	43 - 144
Endrin ketone	<0.010		0.0159	0.0102	J	mg/Kg	☼	64	51 - 135
gamma-BHC (Lindane)	<0.011	F1 F2	0.0159	0.0471	F1	mg/Kg	☼	296	50 - 122
Heptachlor	<0.011	F1	0.0159	0.0444	F1	mg/Kg	☼	279	53 - 129
Heptachlor epoxide	<0.011	F1	0.0159	<0.011	F1	mg/Kg	☼	0	50 - 139
Methoxychlor	<0.014		0.0159	0.0164	J	mg/Kg	☼	103	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*120*		*33 - 148*
Tetrachloro-m-xylene	*87*		*30 - 121*

Lab Sample ID: 500-256339-19 MSD
Matrix: Solid
Analysis Batch: 787590

Client Sample ID: SB64 (7.5-10)
Prep Type: Total/NA
Prep Batch: 786773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDE	<0.011		0.0164	0.0110	J	mg/Kg	☼	67	50 - 130	3	30
Aldrin	<0.015	F1	0.0164	0.0949	F1	mg/Kg	☼	578	52 - 122	11	30
alpha-BHC	<0.012	F1	0.0164	<0.012	F1	mg/Kg	☼	0	50 - 123	NC	30
beta-BHC	<0.017		0.0164	<0.017		mg/Kg	☼	NC	44 - 140	NC	30
delta-BHC	<0.010	F1	0.0164	0.0260	F1	mg/Kg	☼	158	57 - 125	5	30
Dieldrin	<0.011		0.0164	0.0116	J	mg/Kg	☼	71	51 - 133	5	30
Endosulfan I	<0.011	F1	0.0164	<0.011	F1	mg/Kg	☼	0	30 - 120	NC	30
Endosulfan II	<0.012	F1	0.0164	<0.011	F1	mg/Kg	☼	0	30 - 120	NC	30
Endosulfan sulfate	<0.012	F1	0.0164	0.0232		mg/Kg	☼	141	42 - 150	NC	30
Endrin aldehyde	<0.012	F1	0.0164	<0.012	F1	mg/Kg	☼	0	39 - 131	NC	30
Endrin ketone	<0.010		0.0164	0.0113	J	mg/Kg	☼	69	51 - 135	11	30
gamma-BHC (Lindane)	<0.011	F1 F2	0.0164	0.0305	F1 F2	mg/Kg	☼	186	50 - 122	43	30
Heptachlor	<0.011	F1	0.0164	0.0472	F1	mg/Kg	☼	287	53 - 129	6	30
Heptachlor epoxide	<0.011	F1	0.0164	<0.011	F1	mg/Kg	☼	0	50 - 139	NC	30
Methoxychlor	<0.014		0.0164	0.0195	J	mg/Kg	☼	119	45 - 144	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*109*		*33 - 148*
Tetrachloro-m-xylene	*104*		*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-786541/1-A
Matrix: Solid
Analysis Batch: 787803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/18/24 07:16	09/26/24 12:39	1
PCB-1221	<0.017		0.017		mg/Kg		09/18/24 07:16	09/26/24 12:39	1
PCB-1232	<0.017		0.017		mg/Kg		09/18/24 07:16	09/26/24 12:39	1
PCB-1242	<0.017		0.017		mg/Kg		09/18/24 07:16	09/26/24 12:39	1
PCB-1248	<0.017		0.017		mg/Kg		09/18/24 07:16	09/26/24 12:39	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-786541/1-A
Matrix: Solid
Analysis Batch: 787803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.017		0.017		mg/Kg		09/18/24 07:16	09/26/24 12:39	1
PCB-1260	<0.017		0.017		mg/Kg		09/18/24 07:16	09/26/24 12:39	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/18/24 07:16	09/26/24 12:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*49 - 129*	*09/18/24 07:16*	*09/26/24 12:39*	*1*
DCB Decachlorobiphenyl	*117*		*37 - 121*	*09/18/24 07:16*	*09/26/24 12:39*	*1*

Lab Sample ID: LCS 500-786541/3-A
Matrix: Solid
Analysis Batch: 787803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786541

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.137		mg/Kg		82	57 - 120		
PCB-1260			0.167	0.173		mg/Kg		104	61 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*49 - 129*
DCB Decachlorobiphenyl	*125*	*S1+*	*37 - 121*

Lab Sample ID: 500-256339-6 MS
Matrix: Solid
Analysis Batch: 787802

Client Sample ID: SB58 (10-12.5)
Prep Type: Total/NA
Prep Batch: 786541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	<0.17	F1 F2	0.175	<0.17	F1	mg/Kg	☼	46	57 - 120		
PCB-1260	<0.17		0.175	0.201		mg/Kg	☼	115	61 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*45*	*S1-*	*49 - 129*
DCB Decachlorobiphenyl	*56*		*37 - 121*

Lab Sample ID: 500-256339-6 MSD
Matrix: Solid
Analysis Batch: 787802

Client Sample ID: SB58 (10-12.5)
Prep Type: Total/NA
Prep Batch: 786541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.17	F1 F2	0.167	<0.17	F1 F2	mg/Kg	☼	53	57 - 120	35	30
PCB-1260	<0.17		0.167	0.195		mg/Kg	☼	116	61 - 125	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*54*		*49 - 129*
DCB Decachlorobiphenyl	*73*		*37 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-786773/1-A
Matrix: Solid
Analysis Batch: 787803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
PCB-1221	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
PCB-1232	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
PCB-1242	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
PCB-1248	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
PCB-1254	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
PCB-1260	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/19/24 07:20*	*09/26/24 12:09*	*1*
DCB Decachlorobiphenyl	*113*		*37 - 121*	*09/19/24 07:20*	*09/26/24 12:09*	*1*

Lab Sample ID: LCS 500-786773/3-A
Matrix: Solid
Analysis Batch: 787803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786773

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	<0.0066	*-	mg/Kg		0.4	57 - 120		
PCB-1260			0.167	<0.0063	*-	mg/Kg		2	61 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*49 - 129*
DCB Decachlorobiphenyl	*130*	*S1+*	*37 - 121*

Lab Sample ID: 500-256339-19 MS
Matrix: Solid
Analysis Batch: 787802

Client Sample ID: SB64 (7.5-10)
Prep Type: Total/NA
Prep Batch: 786773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	<0.21	F2 *-	0.208	<0.21		mg/Kg	☼	85	57 - 120		
PCB-1260	<0.21	F1 *-	0.208	0.286	F1	mg/Kg	☼	138	61 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*61*		*49 - 129*
DCB Decachlorobiphenyl	*58*		*37 - 121*

Lab Sample ID: 500-256339-19 MSD
Matrix: Solid
Analysis Batch: 787802

Client Sample ID: SB64 (7.5-10)
Prep Type: Total/NA
Prep Batch: 786773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.21	F2 *-	0.201	<0.20	F2	mg/Kg	☼	84	57 - 120	184	30
PCB-1260	<0.21	F1 *-	0.201	0.246		mg/Kg	☼	122	61 - 125	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*52*		*49 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-256339-19 MSD
Matrix: Solid
Analysis Batch: 787802

Client Sample ID: SB64 (7.5-10)
Prep Type: Total/NA
Prep Batch: 786773

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*56*		*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-786942/1-A
Matrix: Solid
Analysis Batch: 787265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Antimony	<2.0		2.0		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Arsenic	<1.0		1.0		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Barium	<1.0		1.0		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Beryllium	<0.40		0.40		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Cadmium	<0.20		0.20		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Chromium	<1.0		1.0		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Cobalt	<0.50		0.50		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Copper	<1.0		1.0		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Lead	<0.50		0.50		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Magnesium	<10		10		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Manganese	<1.0		1.0		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Nickel	<1.0		1.0		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Potassium	<50		50		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Selenium	<1.0		1.0		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Silver	<0.50		0.50		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Sodium	<100		100		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Thallium	<1.0		1.0		mg/Kg		09/19/24 15:54	09/20/24 17:20	1
Vanadium	<0.50		0.50		mg/Kg		09/19/24 15:54	09/20/24 17:20	1

Lab Sample ID: MB 500-786942/1-A
Matrix: Solid
Analysis Batch: 787456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<20		20		mg/Kg		09/19/24 15:54	09/23/24 16:33	1
Zinc	<2.0		2.0		mg/Kg		09/19/24 15:54	09/23/24 16:33	1

Lab Sample ID: LCS 500-786942/2-A
Matrix: Solid
Analysis Batch: 787265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	209		mg/Kg		105	80 - 120
Antimony	50.0	49.4		mg/Kg		99	80 - 120
Arsenic	10.0	10.2		mg/Kg		102	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	5.13		mg/Kg		103	80 - 120
Cadmium	5.00	5.00		mg/Kg		100	80 - 120
Chromium	20.0	20.4		mg/Kg		102	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-786942/2-A
Matrix: Solid
Analysis Batch: 787265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	50.0	50.5		mg/Kg		101	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Lead	10.0	10.4		mg/Kg		104	80 - 120
Magnesium	1000	1010		mg/Kg		101	80 - 120
Manganese	50.0	52.3		mg/Kg		105	80 - 120
Nickel	50.0	51.1		mg/Kg		102	80 - 120
Potassium	1000	1020		mg/Kg		102	80 - 120
Selenium	10.0	10.0		mg/Kg		100	80 - 120
Silver	5.00	4.63		mg/Kg		93	80 - 120
Sodium	1000	1040		mg/Kg		104	80 - 120
Thallium	10.0	9.93		mg/Kg		99	80 - 120
Vanadium	50.0	51.2		mg/Kg		102	80 - 120

Lab Sample ID: LCS 500-786942/2-A
Matrix: Solid
Analysis Batch: 787456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	1000	1010		mg/Kg		101	80 - 120
Zinc	50.0	53.1		mg/Kg		106	80 - 120

Lab Sample ID: 500-256339-1 MS
Matrix: Solid
Analysis Batch: 787265

Client Sample ID: SB56 (0-3)
Prep Type: Total/NA
Prep Batch: 786942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7000		195	6550	4	mg/Kg	☼	-235	75 - 125
Barium	110	F1	195	254	F1	mg/Kg	☼	72	75 - 125
Magnesium	12000	F2	976	16200	4	mg/Kg	☼	416	75 - 125
Potassium	310		976	1400		mg/Kg	☼	112	75 - 125

Lab Sample ID: 500-256339-1 MS
Matrix: Solid
Analysis Batch: 787456

Client Sample ID: SB56 (0-3)
Prep Type: Total/NA
Prep Batch: 786942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	15		9.76	23.6		mg/Kg	☼	89	75 - 125
Beryllium	2.4		4.88	7.07		mg/Kg	☼	96	75 - 125
Cadmium	<1.1		4.88	5.22		mg/Kg	☼	91	75 - 125
Calcium	53000		976	54400	4	mg/Kg	☼	100	75 - 125
Chromium	320		19.5	53.5	4	mg/Kg	☼	-1349	75 - 125
Cobalt	13		48.8	58.7		mg/Kg	☼	94	75 - 125
Copper	100		24.4	109	4	mg/Kg	☼	19	75 - 125
Lead	88	F2	9.76	301	4	mg/Kg	☼	2180	75 - 125
Manganese	2800	^2	48.8	2150	4	mg/Kg	☼	-1404	75 - 125
Nickel	200	F1	48.8	86.5	4	mg/Kg	☼	-231	75 - 125
Selenium	<5.3	F1	9.76	8.07	F1	mg/Kg	☼	46	75 - 125
Silver	<2.7		4.88	4.55		mg/Kg	☼	93	75 - 125
Sodium	580		976	1600		mg/Kg	☼	105	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256339-1 MS
Matrix: Solid
Analysis Batch: 787456

Client Sample ID: SB56 (0-3)
Prep Type: Total/NA
Prep Batch: 786942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	6.7	F1	9.76	12.5	F1	mg/Kg	☼	59	75 - 125
Vanadium	27		48.8	72.7		mg/Kg	☼	93	75 - 125
Zinc	160	F1 F2	48.8	232	F1	mg/Kg	☼	140	75 - 125

Lab Sample ID: 500-256339-1 MSD
Matrix: Solid
Analysis Batch: 787265

Client Sample ID: SB56 (0-3)
Prep Type: Total/NA
Prep Batch: 786942

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	7000		207	7350	4	mg/Kg	☼	166	75 - 125	12	20
Barium	110	F1	207	265	F1	mg/Kg	☼	74	75 - 125	4	20
Magnesium	12000	F2	1040	12300	4 F2	mg/Kg	☼	12	75 - 125	28	20
Potassium	310		1040	1590		mg/Kg	☼	123	75 - 125	13	20

Lab Sample ID: 500-256339-1 MSD
Matrix: Solid
Analysis Batch: 787456

Client Sample ID: SB56 (0-3)
Prep Type: Total/NA
Prep Batch: 786942

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	15		10.4	26.2		mg/Kg	☼	109	75 - 125	11	20
Beryllium	2.4		5.19	7.38		mg/Kg	☼	97	75 - 125	4	20
Cadmium	<1.1		5.19	5.89		mg/Kg	☼	99	75 - 125	12	20
Calcium	53000		1040	44700	4	mg/Kg	☼	-847	75 - 125	20	20
Chromium	320		20.7	52.5	4	mg/Kg	☼	-1275	75 - 125	2	20
Cobalt	13		51.9	62.0		mg/Kg	☼	95	75 - 125	5	20
Copper	100		25.9	125	4	mg/Kg	☼	78	75 - 125	13	20
Lead	88	F2	10.4	146	4 F2	mg/Kg	☼	557	75 - 125	69	20
Manganese	2800	^2	51.9	2290	4	mg/Kg	☼	-1051	75 - 125	6	20
Nickel	200	F1	51.9	84.1	F1	mg/Kg	☼	-222	75 - 125	3	20
Selenium	<5.3	F1	10.4	8.93	F1	mg/Kg	☼	51	75 - 125	10	20
Silver	<2.7		5.19	4.87		mg/Kg	☼	94	75 - 125	7	20
Sodium	580		1040	1830		mg/Kg	☼	121	75 - 125	14	20
Thallium	6.7	F1	10.4	13.0	F1	mg/Kg	☼	61	75 - 125	5	20
Vanadium	27		51.9	77.8		mg/Kg	☼	97	75 - 125	7	20
Zinc	160	F1 F2	51.9	326	F1 F2	mg/Kg	☼	312	75 - 125	34	20

Lab Sample ID: 500-256339-1 DU
Matrix: Solid
Analysis Batch: 787265

Client Sample ID: SB56 (0-3)
Prep Type: Total/NA
Prep Batch: 786942

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	7000		5770		mg/Kg	☼	19	20
Antimony	<2.1	F1 F2	<2.1		mg/Kg	☼	NC	20
Barium	110	F1	64.3	F3	mg/Kg	☼	54	20
Magnesium	12000	F2	11400		mg/Kg	☼	6	20
Potassium	310		275		mg/Kg	☼	12	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256339-1 DU
Matrix: Solid
Analysis Batch: 787456

Client Sample ID: SB56 (0-3)
Prep Type: Total/NA
Prep Batch: 786942

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	15		20.4	F3	mg/Kg	☼	32	20
Beryllium	2.4		2.19		mg/Kg	☼	7	20
Cadmium	<1.1		<1.0		mg/Kg	☼	NC	20
Calcium	53000		43900		mg/Kg	☼	20	20
Chromium	320		22.7	F3	mg/Kg	☼	173	20
Cobalt	13		10.6		mg/Kg	☼	18	20
Copper	100		65.5	F3	mg/Kg	☼	46	20
Lead	88	F2	81.7		mg/Kg	☼	7	20
Manganese	2800	^2	1880	F3	mg/Kg	☼	40	20
Nickel	200	F1	28.1	F3	mg/Kg	☼	151	20
Selenium	<5.3	F1	<5.2		mg/Kg	☼	NC	20
Silver	<2.7		<2.6		mg/Kg	☼	NC	20
Sodium	580		540		mg/Kg	☼	6	20
Thallium	6.7	F1	5.23	F5	mg/Kg	☼	24	20
Vanadium	27		24.6		mg/Kg	☼	11	20
Zinc	160	F1 F2	160		mg/Kg	☼	3	20

Lab Sample ID: MB 500-786944/1-A
Matrix: Solid
Analysis Batch: 787265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Antimony	<2.0		2.0		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Arsenic	<1.0		1.0		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Barium	<1.0		1.0		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Beryllium	<0.40		0.40		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Cadmium	<0.20		0.20		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Calcium	35.4		20		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Chromium	<1.0		1.0		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Cobalt	<0.50		0.50		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Copper	<1.0		1.0		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Iron	35.2		20		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Lead	<0.50		0.50		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Magnesium	<10		10		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Manganese	1.49		1.0		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Nickel	<1.0		1.0		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Potassium	<50		50		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Selenium	<1.0		1.0		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Silver	<0.50		0.50		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Sodium	<100		100		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Thallium	<1.0		1.0		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Vanadium	<0.50		0.50		mg/Kg		09/19/24 15:57	09/20/24 19:33	1
Zinc	<2.0		2.0		mg/Kg		09/19/24 15:57	09/20/24 19:33	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-786944/2-A
Matrix: Solid
Analysis Batch: 787265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	189		mg/Kg		94	80 - 120
Antimony	50.0	52.2		mg/Kg		104	80 - 120
Arsenic	10.0	10.1		mg/Kg		101	80 - 120
Barium	200	197		mg/Kg		99	80 - 120
Beryllium	5.00	4.87		mg/Kg		97	80 - 120
Cadmium	5.00	4.99		mg/Kg		100	80 - 120
Calcium	1000	880		mg/Kg		88	80 - 120
Chromium	20.0	20.6		mg/Kg		103	80 - 120
Cobalt	50.0	52.1		mg/Kg		104	80 - 120
Copper	25.0	25.8		mg/Kg		103	80 - 120
Iron	100	92.7		mg/Kg		93	80 - 120
Lead	10.0	10.5		mg/Kg		105	80 - 120
Magnesium	1000	976		mg/Kg		98	80 - 120
Manganese	50.0	48.6		mg/Kg		97	80 - 120
Nickel	50.0	55.3		mg/Kg		111	80 - 120
Potassium	1000	1050		mg/Kg		105	80 - 120
Selenium	10.0	9.26		mg/Kg		93	80 - 120
Silver	5.00	4.63		mg/Kg		93	80 - 120
Sodium	1000	1040		mg/Kg		104	80 - 120
Thallium	10.0	10.3		mg/Kg		103	80 - 120
Vanadium	50.0	48.0		mg/Kg		96	80 - 120
Zinc	50.0	55.1		mg/Kg		110	80 - 120

Lab Sample ID: MB 500-787564/1-A
Matrix: Solid
Analysis Batch: 787835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Antimony	<2.0		2.0		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Arsenic	<1.0		1.0		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Barium	<1.0		1.0		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Beryllium	<0.40		0.40		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Cadmium	<0.20		0.20		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Calcium	162		20		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Chromium	<1.0		1.0		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Cobalt	<0.50		0.50		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Copper	<1.0		1.0		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Lead	<0.50		0.50		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Magnesium	11.9		10		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Manganese	1.70		1.0		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Nickel	<1.0		1.0		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Potassium	<50		50		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Selenium	<1.0		1.0		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Silver	<0.50		0.50		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Sodium	231		100		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Thallium	<1.0		1.0		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Vanadium	<0.50		0.50		mg/Kg		09/24/24 18:31	09/26/24 01:55	1
Zinc	<2.0		2.0		mg/Kg		09/24/24 18:31	09/26/24 01:55	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-787564/1-A
Matrix: Solid
Analysis Batch: 788203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<20		20		mg/Kg		09/24/24 18:31	09/28/24 02:01	1

Lab Sample ID: LCS 500-787564/2-A
Matrix: Solid
Analysis Batch: 787835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	184		mg/Kg		92	80 - 120
Antimony	50.0	48.6		mg/Kg		97	80 - 120
Arsenic	10.0	9.75		mg/Kg		97	80 - 120
Barium	200	191		mg/Kg		96	80 - 120
Beryllium	5.00	4.66		mg/Kg		93	80 - 120
Cadmium	5.00	4.75		mg/Kg		95	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Cobalt	50.0	49.2		mg/Kg		98	80 - 120
Copper	25.0	24.5		mg/Kg		98	80 - 120
Lead	10.0	10.2		mg/Kg		102	80 - 120
Magnesium	1000	949		mg/Kg		95	80 - 120
Manganese	50.0	47.0		mg/Kg		94	80 - 120
Nickel	50.0	50.2		mg/Kg		100	80 - 120
Potassium	1000	960		mg/Kg		96	80 - 120
Selenium	10.0	9.09		mg/Kg		91	80 - 120
Silver	5.00	4.61		mg/Kg		92	80 - 120
Thallium	10.0	9.73		mg/Kg		97	80 - 120
Vanadium	50.0	49.3		mg/Kg		99	80 - 120
Zinc	50.0	51.1		mg/Kg		102	80 - 120

Lab Sample ID: LCS 500-787564/2-A
Matrix: Solid
Analysis Batch: 788203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	100	113		mg/Kg		113	80 - 120

Lab Sample ID: 500-256339-1 MS
Matrix: Solid
Analysis Batch: 788203

Client Sample ID: SB56 (0-3)
Prep Type: Total/NA
Prep Batch: 787564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	260000		110	284000	4	mg/Kg	☼	18678	75 - 125

Lab Sample ID: 500-256339-1 MSD
Matrix: Solid
Analysis Batch: 788203

Client Sample ID: SB56 (0-3)
Prep Type: Total/NA
Prep Batch: 787564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	260000		103	349000	4	mg/Kg	☼	83015	75 - 125	20	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256339-1 DU
Matrix: Solid
Analysis Batch: 788203

Client Sample ID: SB56 (0-3)
Prep Type: Total/NA
Prep Batch: 787564

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	260000		274000		mg/Kg	☼	4	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-787719/12-A
Matrix: Solid
Analysis Batch: 787898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/25/24 17:15	09/26/24 08:09	1

Lab Sample ID: LCS 500-787719/13-A
Matrix: Solid
Analysis Batch: 787898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.176		mg/Kg		105	80 - 120

Lab Sample ID: 500-256339-11 MS
Matrix: Solid
Analysis Batch: 787898

Client Sample ID: SB61 (0-3)
Prep Type: Total/NA
Prep Batch: 787719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.051		0.0819	0.137		mg/Kg	☼	105	75 - 125

Lab Sample ID: 500-256339-11 MSD
Matrix: Solid
Analysis Batch: 787898

Client Sample ID: SB61 (0-3)
Prep Type: Total/NA
Prep Batch: 787719

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.051		0.0820	0.141		mg/Kg	☼	110	75 - 125	3	20

Lab Sample ID: 500-256339-11 DU
Matrix: Solid
Analysis Batch: 787898

Client Sample ID: SB61 (0-3)
Prep Type: Total/NA
Prep Batch: 787719

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.051		0.0497		mg/Kg	☼	2	20

Lab Sample ID: MB 500-787738/12-A
Matrix: Solid
Analysis Batch: 787898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/25/24 17:15	09/26/24 09:28	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-787738/13-A
Matrix: Solid
Analysis Batch: 787898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.168		mg/Kg		101	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-785724/1-A
Matrix: Solid
Analysis Batch: 786248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/12/24 10:24	09/16/24 10:13	1

Lab Sample ID: LCS 500-785724/2-A
Matrix: Solid
Analysis Batch: 786248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.64		mg/Kg		110	85 - 115

Lab Sample ID: 500-256339-4 MS
Matrix: Solid
Analysis Batch: 786248

Client Sample ID: SB57 (7.5-10)
Prep Type: Total/NA
Prep Batch: 785724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.52	F1	2.73	3.96	F1	mg/Kg	☼	126	75 - 125

Lab Sample ID: 500-256339-4 MSD
Matrix: Solid
Analysis Batch: 786248

Client Sample ID: SB57 (7.5-10)
Prep Type: Total/NA
Prep Batch: 785724

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.52	F1	2.51	3.37		mg/Kg	☼	114	75 - 125	16	20

Lab Sample ID: MB 500-786090/1-A
Matrix: Solid
Analysis Batch: 786268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/15/24 11:20	09/16/24 12:49	1

Lab Sample ID: LCS 500-786090/2-A
Matrix: Solid
Analysis Batch: 786268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.36		mg/Kg		98	85 - 115

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 500-256339-3 MS
Matrix: Solid
Analysis Batch: 786268

Client Sample ID: SB57 (0-3)
Prep Type: Total/NA
Prep Batch: 786090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.77	F1	2.41	2.52	F1	mg/Kg	☼	73	75 - 125

Lab Sample ID: 500-256339-3 MSD
Matrix: Solid
Analysis Batch: 786268

Client Sample ID: SB57 (0-3)
Prep Type: Total/NA
Prep Batch: 786090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.77	F1	2.31	2.64		mg/Kg	☼	81	75 - 125	5	20

Lab Sample ID: MB 500-786222/1-A
Matrix: Solid
Analysis Batch: 787888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786222

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/16/24 11:23	09/16/24 16:12	1

Lab Sample ID: MB 500-786222/1-A
Matrix: Solid
Analysis Batch: 786447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786222

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/16/24 11:23	09/17/24 10:01	1

Lab Sample ID: LCS 500-786222/2-A
Matrix: Solid
Analysis Batch: 787888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.41		mg/Kg		100	85 - 115

Lab Sample ID: LCS 500-786222/2-A
Matrix: Solid
Analysis Batch: 786447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.41		mg/Kg		100	85 - 115

Lab Sample ID: 500-256339-18 MS
Matrix: Solid
Analysis Batch: 787888

Client Sample ID: SB64 (0-3)
Prep Type: Total/NA
Prep Batch: 786222

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	1.8		2.48	4.13		mg/Kg	☼	93	75 - 125

Lab Sample ID: 500-256339-18 MSD
Matrix: Solid
Analysis Batch: 787888

Client Sample ID: SB64 (0-3)
Prep Type: Total/NA
Prep Batch: 786222

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	1.8		2.56	4.39		mg/Kg	☼	100	75 - 125	6	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-627056/1-A
Matrix: Solid
Analysis Batch: 627111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 627056

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/16/24 07:29	09/16/24 09:22	1

Lab Sample ID: LCS 240-627056/2-A
Matrix: Solid
Analysis Batch: 627111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627056

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			80.3	87.0		mg/Kg		108	56 - 120		

Method: 9045D - pH

Lab Sample ID: 500-256339-17 DU
Matrix: Solid
Analysis Batch: 785786

Client Sample ID: SB63 (5-7.5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	10.60			10.90		SU				3	5

Lab Sample ID: 500-256339-17 DU
Matrix: Solid
Analysis Batch: 785898

Client Sample ID: SB63 (5-7.5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	10.60			10.90		SU				3	5

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Client Sample ID: SB56 (0-3)
Date Collected: 09/06/24 09:42
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:12
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB56 (0-3)
Date Collected: 09/06/24 09:42
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-1
Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	785840	W1T	EET CHI	09/13/24 05:33
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		1	787029	H7CM	EET CHI	09/20/24 12:14
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787729	H7CM	EET CHI	09/25/24 18:54
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 17:01
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 17:28
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 16:42
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		5	788203	SJ	EET CHI	09/28/24 02:10
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:13
Total/NA	Prep	9010C			786090	AC	EET CHI	09/15/24 11:20 - 09/15/24 11:50 [1]
Total/NA	Analysis	9012B		1	786268	AC	EET CHI	09/16/24 13:49

Client Sample ID: SB56 (5-7.5)
Date Collected: 09/06/24 09:50
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:15
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB56 (5-7.5)
Date Collected: 09/06/24 09:50
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-2
Matrix: Solid
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785196		EET CHI	09/06/24 09:50
Total/NA	Analysis	8260D		50	786552	W1T	EET CHI	09/18/24 17:38
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		1	787029	H7CM	EET CHI	09/20/24 12:38

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Client Sample ID: SB56 (5-7.5)

Date Collected: 09/06/24 09:50
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-2

Matrix: Solid
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787729	H7CM	EET CHI	09/25/24 19:05
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 17:16
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 17:50
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787456	DAJ	EET CHI	09/23/24 17:04
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 02:32
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:15
Total/NA	Prep	9010C			786090	AC	EET CHI	09/15/24 11:20 - 09/15/24 11:50 [1]
Total/NA	Analysis	9012B		1	786268	AC	EET CHI	09/16/24 13:51

Client Sample ID: SB57 (0-3)

Date Collected: 09/06/24 10:17
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:17
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB57 (0-3)

Date Collected: 09/06/24 10:17
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-3

Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786144	W1T	EET CHI	09/16/24 14:20
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		1	787029	H7CM	EET CHI	09/20/24 13:03
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 15:18
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 17:32
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 17:54
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 17:17
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		20	787456	DAJ	EET CHI	09/23/24 17:22
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 02:45

Client Sample ID: SB57 (0-3)

Lab Sample ID: 500-256339-3
Date Collected: 09/06/24 10:17
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:21
Total/NA	Prep	9010C			786090	AC	EET CHI	09/15/24 11:20 - 09/15/24 11:50 [1]
Total/NA	Analysis	9012B		1	786268	AC	EET CHI	09/16/24 13:52

Client Sample ID: SB57 (7.5-10)

Lab Sample ID: 500-256339-4
Date Collected: 09/06/24 10:20
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:20
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB57 (7.5-10)

Lab Sample ID: 500-256339-4
Date Collected: 09/06/24 10:20
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	785840	W1T	EET CHI	09/13/24 06:47
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		1	787029	H7CM	EET CHI	09/20/24 13:28
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 15:30
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 17:47
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 17:59
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 17:26
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		20	787456	DAJ	EET CHI	09/23/24 17:31
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		10	788203	SJ	EET CHI	09/28/24 02:50
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:23
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 [1]
Total/NA	Analysis	9012B		1	786248	AC	EET CHI	09/16/24 10:17

Client Sample ID: SB58 (0-3)

Lab Sample ID: 500-256339-5
Date Collected: 09/06/24 11:22
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:25

Client Sample ID: SB58 (0-3)
Lab Sample ID: 500-256339-5
Date Collected: 09/06/24 11:22
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB58 (0-3)
Lab Sample ID: 500-256339-5
Date Collected: 09/06/24 11:22
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	785880	W1T	EET CHI	09/13/24 15:41
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		2	786826	H7CM	EET CHI	09/19/24 19:36
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 15:41
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 18:02
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 18:12
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 17:35
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 02:54
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:25
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 [1]
Total/NA	Analysis	9012B		1	786248	AC	EET CHI	09/16/24 10:22

Client Sample ID: SB58 (10-12.5)
Lab Sample ID: 500-256339-6
Date Collected: 09/06/24 11:36
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:26
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB58 (10-12.5)
Lab Sample ID: 500-256339-6
Date Collected: 09/06/24 11:36
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	785880	W1T	EET CHI	09/13/24 16:05
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		2	787029	H7CM	EET CHI	09/20/24 15:59
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 15:53

Client Sample ID: SB58 (10-12.5)
Lab Sample ID: 500-256339-6

Date Collected: 09/06/24 11:36
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 18:18
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 18:16
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787456	DAJ	EET CHI	09/23/24 17:40
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 02:59
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:26
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 [1]
Total/NA	Analysis	9012B		1	786248	AC	EET CHI	09/16/24 10:23

Client Sample ID: SB59 (0-3)
Lab Sample ID: 500-256339-7

Date Collected: 09/06/24 12:07
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:28
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB59 (0-3)
Lab Sample ID: 500-256339-7

Date Collected: 09/06/24 12:07
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786144	W1T	EET CHI	09/16/24 14:45
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		2	787029	H7CM	EET CHI	09/20/24 16:24
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 16:28
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 19:04
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 18:20
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 17:44
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		5	788203	SJ	EET CHI	09/28/24 03:04
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:28
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 [1]
Total/NA	Analysis	9012B		5	786248	AC	EET CHI	09/16/24 11:44

Client Sample ID: SB59 (5-7.5)

Lab Sample ID: 500-256339-8

Date Collected: 09/06/24 12:17

Matrix: Solid

Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:30
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB59 (5-7.5)

Lab Sample ID: 500-256339-8

Date Collected: 09/06/24 12:17

Matrix: Solid

Date Received: 09/09/24 10:16

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	785880	W1T	EET CHI	09/13/24 16:55
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		2	786826	H7CM	EET CHI	09/19/24 16:39
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 ¹
Total/NA	Analysis	8081B		10	787729	H7CM	EET CHI	09/25/24 20:38
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 ¹
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 19:19
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 ¹
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 18:25
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 ¹
Total/NA	Analysis	6010D		1	787456	DAJ	EET CHI	09/23/24 17:49
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 ¹
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 03:08
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:30
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 ¹
Total/NA	Analysis	9012B		1	786248	AC	EET CHI	09/16/24 10:27

Client Sample ID: SB60 (0-3)

Lab Sample ID: 500-256339-9

Date Collected: 09/06/24 13:36

Matrix: Solid

Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787247	ST	EET CHI	09/20/24 19:49
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB60 (0-3)

Lab Sample ID: 500-256339-9

Date Collected: 09/06/24 13:36

Matrix: Solid

Date Received: 09/09/24 10:16

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	785880	W1T	EET CHI	09/13/24 17:20
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		2	786826	H7CM	EET CHI	09/19/24 17:05

Client Sample ID: SB60 (0-3)

Lab Sample ID: 500-256339-9

Date Collected: 09/06/24 13:36

Matrix: Solid

Date Received: 09/09/24 10:16

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 16:40
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787804	SB	EET CHI	09/26/24 20:36
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 18:29
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 17:53
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 03:13
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:32
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 [1]
Total/NA	Analysis	9012B		5	786248	AC	EET CHI	09/16/24 11:48

Client Sample ID: SB60 (7.5-10)

Lab Sample ID: 500-256339-10

Date Collected: 09/06/24 13:42

Matrix: Solid

Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:33
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB60 (7.5-10)

Lab Sample ID: 500-256339-10

Date Collected: 09/06/24 13:42

Matrix: Solid

Date Received: 09/09/24 10:16

Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	785880	W1T	EET CHI	09/13/24 17:45
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		2	787029	H7CM	EET CHI	09/20/24 16:49
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 16:51
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787804	SB	EET CHI	09/26/24 20:51
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 18:33
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 17:58
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		5	788203	SJ	EET CHI	09/28/24 03:18
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:34

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Client Sample ID: SB60 (7.5-10)

Lab Sample ID: 500-256339-10
Date Collected: 09/06/24 13:42
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 [1]
Total/NA	Analysis	9012B		10	786248	AC	EET CHI	09/16/24 11:53

Client Sample ID: SB61 (0-3)

Lab Sample ID: 500-256339-11
Date Collected: 09/06/24 08:37
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:35
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB61 (0-3)

Lab Sample ID: 500-256339-11
Date Collected: 09/06/24 08:37
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785196		EET CHI	09/06/24 08:37
Total/NA	Analysis	8260D		50	786552	W1T	EET CHI	09/18/24 18:24
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		2	786826	H7CM	EET CHI	09/19/24 17:55
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787729	H7CM	EET CHI	09/25/24 21:13
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787804	SB	EET CHI	09/26/24 21:06
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 18:38
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 18:11
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		10	788203	SJ	EET CHI	09/28/24 03:22
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:36
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 [1]
Total/NA	Analysis	9012B		15	786248	AC	EET CHI	09/16/24 11:58

Client Sample ID: SB61 (12.5-15)

Lab Sample ID: 500-256339-12
Date Collected: 09/06/24 08:55
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB61 (12.5-15)
Lab Sample ID: 500-256339-12

Date Collected: 09/06/24 08:55
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 69.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785196		EET CHI	09/06/24 08:55
Total/NA	Analysis	8015D		50	785604	WRE	EET CHI	09/12/24 18:44
Total/NA	Prep	3541			785243	FRG	EET CHI	09/10/24 07:28 - 09/10/24 12:00 [1]
Total/NA	Analysis	8015D		100	785461	SB	EET CHI	09/12/24 00:48
Total/NA	Prep	9030B			627056	BLW	EET CLE	09/16/24 07:29
Total/NA	Analysis	9034		1	627111	BLW	EET CLE	09/16/24 09:22

Client Sample ID: SB61 (17.5-19)
Lab Sample ID: 500-256339-13

Date Collected: 09/06/24 09:15
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:38
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB61 (17.5-19)
Lab Sample ID: 500-256339-13

Date Collected: 09/06/24 09:15
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 62.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785196		EET CHI	09/06/24 09:15
Total/NA	Analysis	8260D		50	786552	W1T	EET CHI	09/18/24 18:48
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		10	786826	H7CM	EET CHI	09/19/24 18:21
Total/NA	Prep	5035			785196		EET CHI	09/06/24 09:15
Total/NA	Analysis	8015D		50	785604	WRE	EET CHI	09/12/24 19:58
Total/NA	Prep	3541			785243	FRG	EET CHI	09/10/24 07:28 - 09/10/24 12:00 [1]
Total/NA	Analysis	8015D		50	785722	H7CM	EET CHI	09/12/24 15:31
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787729	H7CM	EET CHI	09/25/24 21:25
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787804	SB	EET CHI	09/26/24 21:22
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 18:42
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 18:16
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 03:27
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:47
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 [1]
Total/NA	Analysis	9012B		10	786248	AC	EET CHI	09/16/24 12:02
Total/NA	Prep	9030B			627056	BLW	EET CLE	09/16/24 07:29
Total/NA	Analysis	9034		1	627111	BLW	EET CLE	09/16/24 09:22

Client Sample ID: SB62 (0-3)

Lab Sample ID: 500-256339-14

Date Collected: 09/06/24 09:41

Matrix: Solid

Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:40
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB62 (0-3)

Lab Sample ID: 500-256339-14

Date Collected: 09/06/24 09:41

Matrix: Solid

Date Received: 09/09/24 10:16

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786144	W1T	EET CHI	09/16/24 15:35
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		1	787029	H7CM	EET CHI	09/20/24 13:53
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787729	H7CM	EET CHI	09/25/24 21:36
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787804	SB	EET CHI	09/26/24 21:37
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 18:47
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787456	DAJ	EET CHI	09/23/24 18:21
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 03:41
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:50
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 [1]
Total/NA	Analysis	9012B		1	786248	AC	EET CHI	09/16/24 10:40

Client Sample ID: SB62 (7.5-10)

Lab Sample ID: 500-256339-15

Date Collected: 09/06/24 09:52

Matrix: Solid

Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:42
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB62 (7.5-10)

Lab Sample ID: 500-256339-15

Date Collected: 09/06/24 09:52

Matrix: Solid

Date Received: 09/09/24 10:16

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786144	W1T	EET CHI	09/16/24 16:00
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		1	787029	H7CM	EET CHI	09/20/24 14:18

Client Sample ID: SB62 (7.5-10)
Lab Sample ID: 500-256339-15

Date Collected: 09/06/24 09:52
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 17:03
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787804	SB	EET CHI	09/26/24 21:52
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 18:51
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 18:25
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 03:45
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:51
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 [1]
Total/NA	Analysis	9012B		1	786248	AC	EET CHI	09/16/24 10:41

Client Sample ID: SB63 (0-3)
Lab Sample ID: 500-256339-16

Date Collected: 09/06/24 10:32
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:45
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB63 (0-3)
Lab Sample ID: 500-256339-16

Date Collected: 09/06/24 10:32
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786144	W1T	EET CHI	09/16/24 16:24
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		1	787029	H7CM	EET CHI	09/20/24 14:44
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		20	787891	SB	EET CHI	09/26/24 17:14
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787804	SB	EET CHI	09/26/24 22:08
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 19:04
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 18:30
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 03:50
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:53

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Client Sample ID: SB63 (0-3)
Date Collected: 09/06/24 10:32
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-16
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 [1]
Total/NA	Analysis	9012B		1	786248	AC	EET CHI	09/16/24 10:43

Client Sample ID: SB63 (5-7.5)
Date Collected: 09/06/24 10:45
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:49
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB63 (5-7.5)
Date Collected: 09/06/24 10:45
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-17
Matrix: Solid
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786144	W1T	EET CHI	09/16/24 16:49
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		1	787029	H7CM	EET CHI	09/20/24 15:09
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 17:26
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787804	SB	EET CHI	09/26/24 22:23
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 19:09
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 18:34
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 03:55
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:55
Total/NA	Prep	9010C			785724	AC	EET CHI	09/12/24 10:24 - 09/12/24 10:54 [1]
Total/NA	Analysis	9012B		1	786248	AC	EET CHI	09/16/24 10:45

Client Sample ID: SB64 (0-3)
Date Collected: 09/06/24 11:57
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:54
Total/NA	Analysis	Moisture		1	786298	ER	EET CHI	09/16/24 15:25

Client Sample ID: SB64 (0-3)

Lab Sample ID: 500-256339-18

Date Collected: 09/06/24 11:57

Matrix: Solid

Date Received: 09/09/24 10:16

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786144	W1T	EET CHI	09/16/24 17:14
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		2	786826	H7CM	EET CHI	09/19/24 18:46
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8081B		10	787729	H7CM	EET CHI	09/25/24 22:23
Total/NA	Prep	3541			786541	FRG	EET CHI	09/18/24 07:16 - 09/18/24 16:11 [1]
Total/NA	Analysis	8082A		10	787804	SB	EET CHI	09/26/24 22:38
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 19:13
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 18:39
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		5	788203	SJ	EET CHI	09/28/24 03:59
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:56
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	787888	AC	EET CHI	09/16/24 16:15
Total/NA	Prep	9030B			627056	BLW	EET CLE	09/16/24 07:29
Total/NA	Analysis	9034		1	627111	BLW	EET CLE	09/16/24 09:22

Client Sample ID: SB64 (7.5-10)

Lab Sample ID: 500-256339-19

Date Collected: 09/06/24 12:18

Matrix: Solid

Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:56
Total/NA	Analysis	Moisture		1	786309	ER	EET CHI	09/16/24 16:13

Client Sample ID: SB64 (7.5-10)

Lab Sample ID: 500-256339-19

Date Collected: 09/06/24 12:18

Matrix: Solid

Date Received: 09/09/24 10:16

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786358	W1T	EET CHI	09/17/24 11:55
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		2	786826	H7CM	EET CHI	09/19/24 19:11
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787590	SB	EET CHI	09/25/24 13:41
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 14:43
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 19:17

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Client Sample ID: SB64 (7.5-10)

Date Collected: 09/06/24 12:18
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-19

Matrix: Solid
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 18:43
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 04:04
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 08:58
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		5	786447	AC	EET CHI	09/17/24 11:06

Client Sample ID: SB65 (0-3)

Date Collected: 09/06/24 13:14
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 12:59
Total/NA	Analysis	Moisture		1	786309	ER	EET CHI	09/16/24 16:13

Client Sample ID: SB65 (0-3)

Date Collected: 09/06/24 13:14
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-20

Matrix: Solid
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786144	W1T	EET CHI	09/16/24 18:04
Total/NA	Prep	3546			786798	OP	EET CHI	09/19/24 07:59
Total/NA	Analysis	8270E		1	787029	H7CM	EET CHI	09/20/24 15:34
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787590	SB	EET CHI	09/25/24 14:16
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 15:29
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 19:22
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 18:48
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	788203	SJ	EET CHI	09/28/24 04:08
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 09:00
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	787888	AC	EET CHI	09/16/24 16:22

Client Sample ID: SB65 (7.5-10)
Lab Sample ID: 500-256339-21
Date Collected: 09/06/24 13:25
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 13:01
Total/NA	Analysis	Moisture		1	786309	ER	EET CHI	09/16/24 16:13

Client Sample ID: SB65 (7.5-10)
Lab Sample ID: 500-256339-21
Date Collected: 09/06/24 13:25
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786144	W1T	EET CHI	09/16/24 18:29
Total/NA	Prep	3546			786476	LH	EET CHI	09/17/24 13:27
Total/NA	Analysis	8270E		2	786603	H7CM	EET CHI	09/18/24 14:36
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787590	SB	EET CHI	09/25/24 14:28
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 15:44
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 19:26
Total/NA	Prep	3050B			787564	S1Z	EET CHI	09/24/24 18:31 - 09/24/24 23:31 [1]
Total/NA	Analysis	6010D		1	787835	SJ	EET CHI	09/26/24 04:05
Total/NA	Prep	3050B			786942	S1Z	EET CHI	09/19/24 15:54 - 09/19/24 20:54 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 18:53
Total/NA	Prep	7471B			787719	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 09:05
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	787888	AC	EET CHI	09/16/24 16:24

Client Sample ID: SB66 (0-3)
Lab Sample ID: 500-256339-22
Date Collected: 09/06/24 14:08
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 13:03
Total/NA	Analysis	Moisture		1	786309	ER	EET CHI	09/16/24 16:13

Client Sample ID: SB66 (0-3)
Lab Sample ID: 500-256339-22
Date Collected: 09/06/24 14:08
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786144	W1T	EET CHI	09/16/24 18:54
Total/NA	Prep	3546			786476	LH	EET CHI	09/17/24 13:27
Total/NA	Analysis	8270E		2	786603	H7CM	EET CHI	09/18/24 15:00

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Client Sample ID: SB66 (0-3)

Date Collected: 09/06/24 14:08
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-22

Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787590	SB	EET CHI	09/25/24 14:39
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 16:00
Total/NA	Prep	3050B			786944	S1Z	EET CHI	09/19/24 15:57 - 09/19/24 20:57 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 20:12
Total/NA	Prep	3050B			786944	S1Z	EET CHI	09/19/24 15:57 - 09/19/24 20:57 [1]
Total/NA	Analysis	6010D		5	787627	SJ	EET CHI	09/24/24 23:21
Total/NA	Prep	3050B			786944	S1Z	EET CHI	09/19/24 15:57 - 09/19/24 20:57 [1]
Total/NA	Analysis	6010D		5	787457	SJ	EET CHI	09/23/24 23:06
Total/NA	Prep	7471B			787738	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 09:11
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	787888	AC	EET CHI	09/16/24 16:40

Client Sample ID: SB66 (5-7.5)

Date Collected: 09/06/24 14:18
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 13:06
Total/NA	Analysis	Moisture		1	786309	ER	EET CHI	09/16/24 16:13

Client Sample ID: SB66 (5-7.5)

Date Collected: 09/06/24 14:18
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-23

Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786144	W1T	EET CHI	09/16/24 19:19
Total/NA	Prep	3546			786476	LH	EET CHI	09/17/24 13:27
Total/NA	Analysis	8270E		2	786603	H7CM	EET CHI	09/18/24 15:25
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787590	SB	EET CHI	09/25/24 14:51
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 16:15
Total/NA	Prep	3050B			786944	S1Z	EET CHI	09/19/24 15:57 - 09/19/24 20:57 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 20:16
Total/NA	Prep	3050B			786944	S1Z	EET CHI	09/19/24 15:57 - 09/19/24 20:57 [1]
Total/NA	Analysis	6010D		5	787627	SJ	EET CHI	09/24/24 23:25
Total/NA	Prep	3050B			786944	S1Z	EET CHI	09/19/24 15:57 - 09/19/24 20:57 [1]
Total/NA	Analysis	6010D		5	787457	SJ	EET CHI	09/23/24 23:11
Total/NA	Prep	7471B			787738	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 09:12

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-1

Client Sample ID: SB66 (5-7.5)

Lab Sample ID: 500-256339-23
Date Collected: 09/06/24 14:18
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	787888	AC	EET CHI	09/16/24 16:41

Client Sample ID: SB67 (0-3)

Lab Sample ID: 500-256339-24
Date Collected: 09/06/24 14:55
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 13:08
Total/NA	Analysis	Moisture		1	786309	ER	EET CHI	09/16/24 16:13

Client Sample ID: SB67 (0-3)

Lab Sample ID: 500-256339-24
Date Collected: 09/06/24 14:55
Matrix: Solid
Date Received: 09/09/24 10:16
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785204		EET CHI	09/06/24 16:49
Total/NA	Analysis	8260D		1	786144	W1T	EET CHI	09/16/24 19:44
Total/NA	Prep	3546			786476	LH	EET CHI	09/17/24 13:27
Total/NA	Analysis	8270E		2	786603	H7CM	EET CHI	09/18/24 15:49
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787590	SB	EET CHI	09/25/24 15:03
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 16:30
Total/NA	Prep	3050B			786944	S1Z	EET CHI	09/19/24 15:57 - 09/19/24 20:57 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 20:21
Total/NA	Prep	3050B			786944	S1Z	EET CHI	09/19/24 15:57 - 09/19/24 20:57 [1]
Total/NA	Analysis	6010D		5	787627	SJ	EET CHI	09/24/24 23:30
Total/NA	Prep	3050B			786944	S1Z	EET CHI	09/19/24 15:57 - 09/19/24 20:57 [1]
Total/NA	Analysis	6010D		5	787457	SJ	EET CHI	09/23/24 23:15
Total/NA	Prep	7471B			787738	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 09:14
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	786447	AC	EET CHI	09/17/24 10:05

Client Sample ID: SB67 (3-5)

Lab Sample ID: 500-256339-25
Date Collected: 09/06/24 15:00
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	785786	ST	EET CHI	09/12/24 13:11
Total/NA	Analysis	Moisture		1	786309	ER	EET CHI	09/16/24 16:13

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB67 (3-5)
Date Collected: 09/06/24 15:00
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-25
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785196		EET CHI	09/06/24 15:00
Total/NA	Analysis	8260D		50	786552	W1T	EET CHI	09/18/24 19:11
Total/NA	Prep	3546			786476	LH	EET CHI	09/17/24 13:27
Total/NA	Analysis	8270E		1	786603	H7CM	EET CHI	09/18/24 13:47
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787590	SB	EET CHI	09/25/24 15:14
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	787802	SB	EET CHI	09/26/24 16:46
Total/NA	Prep	3050B			786944	S1Z	EET CHI	09/19/24 15:57 - 09/19/24 20:57 [1]
Total/NA	Analysis	6010D		1	787265	SJ	EET CHI	09/20/24 20:25
Total/NA	Prep	3050B			786944	S1Z	EET CHI	09/19/24 15:57 - 09/19/24 20:57 [1]
Total/NA	Analysis	6010D		5	787627	SJ	EET CHI	09/24/24 23:34
Total/NA	Prep	3050B			786944	S1Z	EET CHI	09/19/24 15:57 - 09/19/24 20:57 [1]
Total/NA	Analysis	6010D		5	787457	SJ	EET CHI	09/23/24 23:20
Total/NA	Prep	7471B			787738	MJG	EET CHI	09/25/24 17:15
Total/NA	Analysis	7471B		1	787898	MJG	EET CHI	09/26/24 09:16
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	786447	AC	EET CHI	09/17/24 10:07

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	10-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record 719737

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact	Date:	COC No 3
Company Name Pioneer	Tel/Email: jhartsock@pioneerees.com	Lab Contact:	Carrier:	1 of ___ COCs
Address 2753 W 31st St	Analysis Turnaround Time			Sampler
City/State/Zip Chicago, IL, 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name 8080 S Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO# 24-0124-103	☐ 1 day			500-256339

500-256339 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCLP/H	TPH	Sample Specific Notes
1	SB56(0-3)	9/6/24	9:42am	G	S	4			X		
2	SB56(5-7.5)		9:50am						X		
3	SB57(0-3)		10:17am						X		
4	SB57(7.5-10)		10:20am						X		
5	SB58(0-3)		11:22am						X		
6	SB58(10-12.5)		11:36am						X		
7	SB59(0-3)		12:07pm						X		
8	SB59(5-7.5)		12:17pm						X		
9	SB60(0-3)		1:36pm						X		
10	SB60(7.5-10)		1:42pm						X		
11	SB61(0-3)		837						X		
12	SB61(12.5-15)		855					NO		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: STIRs in Freezer 9/6 @ 449

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 3.8 Corr'd 3.5 Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pioneer	9/9/24	[signature]	EETA	9/9/24 0925
[signature]	EETA 9/9/24	1016			
			Received in Laboratory by: [signature]	EETA	9/9/24 1016

3/11/2025 (Rev. 3)

Chain of Custody Record

670134 eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No 2 of 3 COCs
Company Name PIONEER	Tel/Email:	Lab Contact:	Carrier:	Sampler
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone SA RG 1	TAT if different from Below			Lab Sampling
Fax	☐ 2 weeks			
Project Name	☐ 1 week			Job / SDG No 500-256339
Site 8080 S LAKE SHORE DR	☐ 2 days			
PO #	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL VOA	TCL SVOA	Sample Specific Notes
13	SB61 (17.5-19)	9/6/24	915	G	SO	4			X	X	
14	SB62 (0-3)		941								
15	SB62 (7.5-10)		952								
16	SB63 (0-3)		1032								
17	SB63 (5-7.5)		1045								
18	SB64 (0-3)		1157								
19	SB64 (7.5-10)		1218								
20	SB65 (0-3)		114								
21	SB65 (7.5-10)		125								
22	SB66 (0-3)		208								
23	SB66 (5-7.5)		218								
24	SB67 (0-3)		255								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: STIRS IC FREEZER 9/6 @ 449

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company: PIONEER	Date/Time: 9/9/24	Received by: D.J. Elkins	Company: EETA	Date/Time: 9/9/24 0925
Relinquished by: D.J. Elkins	Company: EETA 9/9/24	Date/Time: 1016	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: EETA	Date/Time: 9/9/24 1016

Chain of Custody Record 720432

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager:	Site Contact	Date:	COC No
Company Name PIONEER	Tel/Email:	Lab Contact:	Carrier	3 of 3 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
Phone 50 PSI	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name	☐ 1 week			
Site 8080 S Lake Stem Dr	☐ 2 days			Job / SDG No
P O #	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL	PH	Sample Specific Notes
25	SB67 (3-5)	9/6/24	300	G	SO	4			X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pioneer	9/9/24	[signature]	EETA	9/9/24 0925
[signature]	EETA 9/9/24	1016			
			Received in Laboratory by [signature]	EETA	9/9/24 1016

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192365.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256339-1
Address: 180 S. Van Buren Avenue	Due Date Requested: 9/23/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:						E186
SB61 (12.5-15) (500-256339-12)	9/6/24	08:55 Central	G	Solid			X	1	
SB61 (17 5-19) (500-256339-13)	9/6/24	09:15 Central	G	Solid			X	1	
SB64 (0-3) (500-256339-18)	9/6/24	11:57 Central	G	Solid			X	1	

Analysis Requested

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	9/9/24 14:30	EET	KATHARINE MARTIN	9/10/24 930	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client Eurofins Site Name _____ Cooler unpacked by: KM

Cooler Received on 9/10/24 Opened on 9/10/24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 22 (CF -0.1 °C) *Observed Cooler Temp.* 5.2 °C *Corrected Cooler Temp.* 5.1 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/(N)), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12 Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC442471
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
17 Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by

_____
_____
_____
_____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container
Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory
Time preserved. _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE
ACTWGT: 58
CAD: 06758

BILL SEN

TO **SAMPLE RECEIVING**
EUROFINS – CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396
REF: 256275 292 327 339 346 88

FedEx Express

1 of 2

TRK# 0201 **7051 7620 8440**

MASTER

NX CAKA

TUE – 10 SEP 10:30A
PRIORITY OVERNIGHT

44203
OH-US **CLE**

eurofins | Environment Testing

Temperature Controlled

!F THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)

TAL-0090(1016)

onment Testing
merica

59

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193732.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256339-2
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/17/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

EO54

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M (MOD) a) 1 element, including prep	6020B/1311T_M TCLP RCRA Metals	7470A/1311T_Hg TCLP Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SB56 (0-3) (500-256339-1)	9/6/24	09:42 Central	G	Solid			X			1	
SB57 (0-3) (500-256339-3)	9/6/24	10:17 Central	G	Solid				X	X	1	
SB65 (7.5-10) (500-256339-21)	9/6/24	13:25 Central	G	Solid			X			1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hemandez	10/11/24 1600		KATHARINE MARTIN	10/12/24 920	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler unpacked by: ICM

Cooler Received on 10/12/24 Opened on 10/12/24

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt (X) See Multiple Cooler Form

IR GUN # 17 (CF +0.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen.

Login # : ______

Eurofins - Cleveland Sample Receipt Multiple Cooler Form				
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: ______	2.7	3.0	Wet Ice (circled) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE 11OCT24
ACTWGT: 68.00 LB MAN
CAD: 0675858/CAFE3854

BILL SENDER

Part # 159469-434 MTW EXP 02/25

TO **SAMPLE RECEIVING**
EUROFINS – CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396
REF: 257701 255852 917 256054 095 166 275

FedEx Express

E

2 of 4
MPS# 0263 7051 7621 1593
Mstr# 7051 7621 1582 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CAKA

44203
OH-US CLE

RT 448 1 12:00
FZ 447 1593 10.12

492

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256339-1

Login Number: 256339
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 9:43:22 AM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256423-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 9:43:22 AM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job Narrative
500-256423-1

Revision
The report being provided is a revision of the original report sent on 9/30/2024. The report (revision 2) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 12/11/2024 - Reason - The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/10/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0º C.

GC/MS VOA
Method 8260D: Surrogate recovery for the following samples were outside control limits: SB68 (0-3) (500-256423-1) and SB68 (7.5-10) (500-256423-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The laboratory control sample (LCS) for preparation batch 500-785402 and analytical batch 500-786552 recovered outside control limits for the following analytes: Vinyl Chloride and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 500-786041 recovered outside control limits for the following analytes: Styrene and 1,1,2,2-Tetrachloroethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following sample was diluted due to the abundance of non-target analytes: SB70 (12.5-15) (500-256423-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-787029 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-787029 was outside the method criteria for the following analyte(s): 2-Nitroaniline, bis(chloroisopropyl) ether and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB69 (0-3) (500-256423-3) and SB69 (3-5) (500-256423-4). These results have been reported and qualified.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB68 (0-3) (500-256423-1), SB68 (7.5-10) (500-256423-2), SB69 (0-3) (500-256423-3), SB69 (3-5) (500-256423-4), SB70 (12.5-15) (500-256423-6) and SB71 (0-3) (500-256423-8). Elevated reporting limits (RLs) are provided.

Method 8270E: Surrogate 2-Fluorophenol (Surr) and 2,4,6-Tribromophenol (Surr) recovery for the following samples were outside control limits: SB68 (0-3) (500-256423-1) and SB68 (7.5-10) (500-256423-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Job ID: 500-256423-1 (Continued) Eurofins Chicago

Method 8015D: The following samples required a dilution due to the nature of the sample matrix: SB70 (12.5-15) (500-256423-6), (500-256423-D-6-B MS) and (500-256423-D-6-C MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: Surrogate recovery for the following sample was outside the upper control limit: SB71 (0-3) (500-256423-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: SB68 (7.5-10) (500-256423-2), SB69 (0-3) (500-256423-3), SB69 (3-5) (500-256423-4) and SB71 (0-3) (500-256423-8). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Tetrachloro-m-xylene surrogate recovery for the following samples was outside control limits: SB70 (12.5-15) (500-256423-6) and SB70 (17.5-20) (500-256423-7). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB68 (0-3) (500-256423-1), SB68 (7.5-10) (500-256423-2), SB69 (0-3) (500-256423-3), SB69 (3-5) (500-256423-4), SB70 (0-3) (500-256423-5), SB70 (12.5-15) (500-256423-6), SB70 (17.5-20) (500-256423-7) and SB71 (0-3) (500-256423-8).

Method 8082A: Spike compounds were inadvertently omitted during the extraction process for the associated laboratory control sample (LCS). The associated matrix spike/matrix spike duplicate recoveries met acceptance criteria and the associated samples were non-detect.

Method 8082A: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-788018/3). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1254 for the following sample: SB68 (0-3) (500-256423-1). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: SB69 (0-3) (500-256423-3). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate Tetrachloro-m-xylene is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-788020/3). Surrogate DCB Decachlorobiphenyl is within acceptable limits; therefore, re-analysis was not performed.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB70 (17.5-20) (500-256423-7). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB70 (0-3) (500-256423-5), SB70 (12.5-15) (500-256423-6) and SB70 (17.5-20) (500-256423-7). Elevated reporting limits (RLs) are provided.

Method 8082A: The following sample required a dilution due to the nature of the sample matrix: SB71 (0-3) (500-256423-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB69 (3-5) (500-256423-4) and SB71 (0-3) (500-256423-8). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-788278/3). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010D: The continuing calibration blanks for analytical batch 787456 contained Ca, Mg, Mn,and V- greater than the reporting limit (RL). The associated samples had results greater than 10X the CCB results. The data have been qualified and reported.

Job ID: 500-256423-1 (Continued) Eurofins Chicago

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 500-786222 and analytical batch 500-786447 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB68 (0-3)
Lab Sample ID: 500-256423-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0078		0.0046	0.0020	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.035		0.018	0.0077	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.010		0.0046	0.00084	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00042	J	0.0018	0.00037	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.23		0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.075		0.068	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.53		0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	2.3		0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	4.1		0.068	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	5.2		0.068	0.065	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	3.7		0.068	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.6		0.068	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	2.8		0.068	0.018	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.85		0.068	0.068	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	3.8		0.068	0.016	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.16		0.068	0.020	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	3.5		0.068	0.066	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.055	J	0.068	0.012	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	2.0		0.068	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	3.2		0.068	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.047	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.24	J	0.34	0.027	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.11	J	0.34	0.024	mg/Kg	2	☼	8270E	Total/NA
PCB-1254	0.25		0.17		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.25		0.17		mg/Kg	10	☼	8082A	Total/NA
Aluminum	13000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.2		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	140		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.3		2.0		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.3		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	160000	^2	100		mg/Kg	5	☼	6010D	Total/NA
Chromium	520		5.1		mg/Kg	5	☼	6010D	Total/NA
Cobalt	5.7		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	79		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	120000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	150		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	41000	^2	51		mg/Kg	5	☼	6010D	Total/NA
Manganese	20000	B	20		mg/Kg	20	☼	6010D	Total/NA
Nickel	36		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	900		51		mg/Kg	1	☼	6010D	Total/NA
Sodium	410		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	24		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	380	^2	2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	200		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.14		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	4.4		0.23		mg/Kg	1	☼	9012B	Total/NA
pH	11.36		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB68 (7.5-10)
Lab Sample ID: 500-256423-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.021	0.0089	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.010		0.0053	0.00098	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.11		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.093		0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.24		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.8		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	2.6		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	3.9		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	2.9		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.6		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	2.4		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.58		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	2.9		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.061	J	0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.7		0.071	0.070	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.043	J	0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.99		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	2.7		0.071	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.040	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.12	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.049	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
PCB-1254	0.26		0.18		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.26		0.18		mg/Kg	10	☼	8082A	Total/NA
Aluminum	9700		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.6		0.97		mg/Kg	1	☼	6010D	Total/NA
Barium	100		0.97		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.9		1.9		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.9		0.97		mg/Kg	5	☼	6010D	Total/NA
Calcium	180000	^2	97		mg/Kg	5	☼	6010D	Total/NA
Chromium	740		4.8		mg/Kg	5	☼	6010D	Total/NA
Cobalt	5.7		2.4		mg/Kg	5	☼	6010D	Total/NA
Copper	90		4.8		mg/Kg	5	☼	6010D	Total/NA
Iron	120000		97		mg/Kg	5	☼	6010D	Total/NA
Lead	210		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	42000	^2	48		mg/Kg	5	☼	6010D	Total/NA
Manganese	22000	B	19		mg/Kg	20	☼	6010D	Total/NA
Nickel	37		4.8		mg/Kg	5	☼	6010D	Total/NA
Potassium	600		48		mg/Kg	1	☼	6010D	Total/NA
Selenium	9.0		4.8		mg/Kg	5	☼	6010D	Total/NA
Sodium	260		97		mg/Kg	1	☼	6010D	Total/NA
Thallium	91		19		mg/Kg	20	☼	6010D	Total/NA
Vanadium	470	^2	2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	410		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.26		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	9.4		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	12.42		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB69 (0-3)
Lab Sample ID: 500-256423-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0057	J	0.0059	0.0011	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB69 (0-3) (Continued)
Lab Sample ID: 500-256423-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.033	J	0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.033	J	0.072	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.15		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.57		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.52		0.072	0.070	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.95		0.072	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.46		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.27		0.072	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.73		0.072	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.12		0.072	0.072	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.93		0.072	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.026	J	0.072	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.46		0.072	0.070	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.019	J	0.072	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.36		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.99		0.072	0.020	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.032	J	0.36	0.029	mg/Kg	2	☼	8270E	Total/NA
Aluminum	12000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.7		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	160		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.5		2.0		mg/Kg	5	☼	6010D	Total/NA
Cadmium	0.35		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	170000	^2	100		mg/Kg	5	☼	6010D	Total/NA
Chromium	140		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.9		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	24		5.0		mg/Kg	5	☼	6010D	Total/NA
Iron	21000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	61		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	57000	^2	50		mg/Kg	5	☼	6010D	Total/NA
Manganese	2700	^2	5.0		mg/Kg	5	☼	6010D	Total/NA
Nickel	23		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	600		50		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.4		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	340		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	5.8		5.0		mg/Kg	5	☼	6010D	Total/NA
Vanadium	29		0.50		mg/Kg	1	☼	6010D	Total/NA
Zinc	78		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.12		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	3.3	F1 F2	0.25		mg/Kg	1	☼	9012B	Total/NA
pH	11.58		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB69 (3-5)
Lab Sample ID: 500-256423-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0036	J	0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.038	J	0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.10		0.072	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.10		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.72		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.83		0.072	0.070	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.5		0.072	0.069	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB69 (3-5) (Continued)
Lab Sample ID: 500-256423-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.81		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.39		0.072	0.028	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.89		0.072	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.17		0.072	0.072	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	1.2		0.072	0.017	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.73		0.072	0.071	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.029	J	0.072	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.34		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	1.2		0.072	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.023	J	0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.044	J	0.37	0.029	mg/Kg	2	☼	8270E	Total/NA
Aluminum	11000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.6		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	140		1.0		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.58		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	230000	^2	100		mg/Kg	5	☼	6010D	Total/NA
Chromium	33		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	20		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	230		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	1900		100		mg/Kg	5	☼	6010D	Total/NA
Magnesium	37000	^2	52		mg/Kg	5	☼	6010D	Total/NA
Manganese	1000	^2	5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	15		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	700		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.7		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	370		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	21		0.52		mg/Kg	1	☼	6010D	Total/NA
Zinc	130		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.35		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.3		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	11.06		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB70 (0-3)
Lab Sample ID: 500-256423-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.020	J	0.034	0.0080	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.012	J	0.034	0.010	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.11		0.034	0.0074	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.011	J	0.034	0.0093	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.0071	J	0.069	0.0069	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.014	J	0.17	0.012	mg/Kg	1	☼	8270E	Total/NA
Aluminum	1800		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.1		0.98		mg/Kg	1	☼	6010D	Total/NA
Barium	11		0.98		mg/Kg	1	☼	6010D	Total/NA
Calcium	24000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	12		0.98		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.1		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	4.7		0.98		mg/Kg	1	☼	6010D	Total/NA
Iron	24000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	3.1		0.49		mg/Kg	1	☼	6010D	Total/NA
Magnesium	14000	^2	9.8		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB70 (0-3) (Continued)
Lab Sample ID: 500-256423-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	280	^2	0.98		mg/Kg	1	☼	6010D	Total/NA
Nickel	4.6		0.98		mg/Kg	1	☼	6010D	Total/NA
Potassium	270		49		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.0		0.98		mg/Kg	1	☼	6010D	Total/NA
Vanadium	45		0.49		mg/Kg	1	☼	6010D	Total/NA
Zinc	13		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.019		0.016		mg/Kg	1	☼	7471B	Total/NA
pH	8.96		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB70 (12.5-15)
Lab Sample ID: 500-256423-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1.7		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.86		0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	1.3		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.16		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.43		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.28		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	3.0		0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.60		0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	3.8		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.86		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	4.3		0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	2.9		0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Gasoline Range Organics (C6-C9)	300		39		mg/Kg	2000	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	7200	F2	420		mg/Kg	50	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	2500		850		mg/Kg	50	☼	8015D	Total/NA
Aluminum	2100		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.7		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	7.8		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.45		0.40		mg/Kg	1	☼	6010D	Total/NA
Calcium	45000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.1		0.50		mg/Kg	1	☼	6010D	Total/NA
Copper	7.8		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	29000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	3.6		0.50		mg/Kg	1	☼	6010D	Total/NA
Magnesium	27000	^2	10		mg/Kg	1	☼	6010D	Total/NA
Manganese	400	^2	1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	6.9		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	330		50		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	140		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	56		0.50		mg/Kg	1	☼	6010D	Total/NA
Zinc	15		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.027		0.017		mg/Kg	1	☼	7471B	Total/NA
Sulfide	86		33		mg/Kg	1	☼	9034	Total/NA
pH	8.06		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB70 (17.5-20) — Lab Sample ID: 500-256423-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0033	J	0.0045	0.00083	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00058	J	0.0018	0.00036	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.015	J	0.038	0.0078	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.016	J	0.038	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.073		0.038	0.0081	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.086		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.072		0.038	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.12		0.038	0.0083	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.12		0.038	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.11		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.15		0.038	0.038	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.013	J	0.038	0.0089	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.017	J	0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Aluminum	1100		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.4		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	3.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Calcium	34000		22		mg/Kg	1	☼	6010D	Total/NA
Chromium	4.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.5		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	1.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	5200		22		mg/Kg	1	☼	6010D	Total/NA
Lead	2.1		0.54		mg/Kg	1	☼	6010D	Total/NA
Magnesium	20000	^2	11		mg/Kg	1	☼	6010D	Total/NA
Manganese	160	^2	1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	3.6		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	210		54		mg/Kg	1	☼	6010D	Total/NA
Vanadium	13		0.54		mg/Kg	1	☼	6010D	Total/NA
Zinc	15		2.2		mg/Kg	1	☼	6010D	Total/NA
pH	8.67		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB71 (0-3) — Lab Sample ID: 500-256423-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0030	J	0.0043	0.0019	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.010	J	0.017	0.0073	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.00074	J	0.0017	0.00054	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0054		0.0043	0.00080	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00035	J	0.0017	0.00035	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.10		0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.26		0.070	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.49		0.070	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.8		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	2.2		0.070	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	3.1		0.070	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.4		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.2		0.070	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.8		0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.46		0.070	0.070	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	3.2		0.070	0.016	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.089		0.070	0.021	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB71 (0-3) (Continued)
Lab Sample ID: 500-256423-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	1.5		0.070	0.069	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.12		0.070	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	1.3		0.070	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	2.7		0.070	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.11	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.13	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.10	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
PCB-1254	5.0		0.89		mg/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	5.0		0.89		mg/Kg	50	☼	8082A	Total/NA
Aluminum	11000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.4		0.99		mg/Kg	1	☼	6010D	Total/NA
Barium	170		0.99		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.6		2.0		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.0		0.99		mg/Kg	5	☼	6010D	Total/NA
Calcium	96000	^2	99		mg/Kg	5	☼	6010D	Total/NA
Chromium	270		5.0		mg/Kg	5	☼	6010D	Total/NA
Cobalt	7.1		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	81		5.0		mg/Kg	5	☼	6010D	Total/NA
Iron	78000		99		mg/Kg	5	☼	6010D	Total/NA
Lead	150		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	30000	^2	50		mg/Kg	5	☼	6010D	Total/NA
Manganese	5700	^2	5.0		mg/Kg	5	☼	6010D	Total/NA
Nickel	93		5.0		mg/Kg	5	☼	6010D	Total/NA
Potassium	1100		50		mg/Kg	1	☼	6010D	Total/NA
Sodium	420		99		mg/Kg	1	☼	6010D	Total/NA
Thallium	9.6		5.0		mg/Kg	5	☼	6010D	Total/NA
Vanadium	60	^2	2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	220		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.13		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	4.5		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	9.48		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256423-1	SB68 (0-3)	Solid	09/09/24 08:42	09/10/24 11:05
500-256423-2	SB68 (7.5-10)	Solid	09/09/24 08:57	09/10/24 11:05
500-256423-3	SB69 (0-3)	Solid	09/09/24 10:04	09/10/24 11:05
500-256423-4	SB69 (3-5)	Solid	09/09/24 10:10	09/10/24 11:05
500-256423-5	SB70 (0-3)	Solid	09/09/24 11:58	09/10/24 11:05
500-256423-6	SB70 (12.5-15)	Solid	09/09/24 12:30	09/10/24 11:05
500-256423-7	SB70 (17.5-20)	Solid	09/09/24 13:09	09/10/24 11:05
500-256423-8	SB71 (0-3)	Solid	09/09/24 14:30	09/10/24 11:05

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB68 (0-3)
Lab Sample ID: 500-256423-1
Date Collected: 09/09/24 08:42
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 93.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00074		0.0018	0.00074	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
1,1,2,2-Tetrachloroethane	<0.00091	*+	0.0018	0.00091	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
1,1,2-Trichloroethane	<0.00068		0.0018	0.00068	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
1,1-Dichloroethane	<0.00069		0.0018	0.00069	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
1,1-Dichloroethene	<0.00075		0.0018	0.00075	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
1,2-Dichloroethane	<0.0012		0.0046	0.0012	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
2-Butanone (MEK)	**0.0078**		0.0046	0.0020	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
2-Hexanone	<0.0028		0.0046	0.0028	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
4-Methyl-2-pentanone (MIBK)	<0.0032		0.0046	0.0032	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Acetone	**0.035**		0.018	0.0077	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Benzene	<0.00057		0.0018	0.00057	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Bromodichloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Bromoform	<0.0011		0.0018	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Bromomethane	<0.0023		0.0046	0.0023	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Carbon disulfide	**0.010**		0.0046	0.00084	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Carbon tetrachloride	<0.00062		0.0018	0.00062	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Chlorobenzene	<0.00077		0.0018	0.00077	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Chloroethane	<0.0015		0.0046	0.0015	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Chloroform	<0.0013		0.0018	0.0013	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Chloromethane	<0.00089		0.0046	0.00089	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
cis-1,2-Dichloroethene	<0.00074		0.0018	0.00074	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
1,3-Dichloropropene, Total	<0.00088		0.0018	0.00088	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Dibromochloromethane	<0.00085		0.0018	0.00085	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Ethylbenzene	<0.00096		0.0018	0.00096	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Methyl tert-butyl ether	<0.00059		0.0018	0.00059	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Methylene Chloride	<0.0020		0.0046	0.0020	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Styrene	<0.00082	*+	0.0018	0.00082	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Tetrachloroethene	<0.0010		0.0018	0.0010	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Toluene	**0.00042**	**J**	0.0018	0.00037	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Xylenes, Total	<0.00063		0.0037	0.00063	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
trans-1,2-Dichloroethene	<0.00069		0.0018	0.00069	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Trichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1
Vinyl chloride	<0.00075		0.0018	0.00075	mg/Kg	☼	09/10/24 17:47	09/14/24 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*09/10/24 17:47*	*09/14/24 00:55*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*09/10/24 17:47*	*09/14/24 00:55*	*1*
Dibromofluoromethane	*49*	*S1-*	*75 - 126*	*09/10/24 17:47*	*09/14/24 00:55*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*09/10/24 17:47*	*09/14/24 00:55*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.23**		0.068	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Acenaphthylene	**0.075**		0.068	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Anthracene	**0.53**		0.068	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Benzo[a]anthracene	**2.3**		0.068	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Benzo[a]pyrene	**4.1**		0.068	0.066	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Benzo[b]fluoranthene	**5.2**		0.068	0.065	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Benzo[g,h,i]perylene	**3.7**		0.068	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2

Client Sample ID: SB68 (0-3)
Date Collected: 09/09/24 08:42
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-1
Matrix: Solid
Percent Solids: 93.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.6**		0.068	0.026	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Chrysene	**2.8**		0.068	0.018	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Dibenz(a,h)anthracene	**0.85**		0.068	0.068	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Fluoranthene	**3.8**		0.068	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Fluorene	**0.16**		0.068	0.020	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Indeno[1,2,3-cd]pyrene	**3.5**		0.068	0.066	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Naphthalene	**0.055**	**J**	0.068	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Phenanthrene	**2.0**		0.068	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Pyrene	**3.2**		0.068	0.019	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
1,2,4-Trichlorobenzene	<0.049		0.34	0.049	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
1,2-Dichlorobenzene	<0.028		0.34	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
1,3-Dichlorobenzene	<0.031		0.34	0.031	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
1,4-Dichlorobenzene	<0.032		0.34	0.032	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2,4,5-Trichlorophenol	<0.026		0.68	0.026	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2,4,6-Trichlorophenol	<0.023		0.68	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2,4-Dichlorophenol	<0.024		0.68	0.024	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2,4-Dimethylphenol	<0.15		0.68	0.15	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2,4-Dinitrophenol	<0.39		1.4	0.39	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2,4-Dinitrotoluene	<0.039		0.34	0.039	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2,6-Dinitrotoluene	<0.023		0.34	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2-Chloronaphthalene	<0.025		0.34	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2-Chlorophenol	<0.022		0.34	0.022	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2-Methylnaphthalene	**0.047**	**J**	0.14	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2-Methylphenol	<0.036		0.34	0.036	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2-Nitroaniline	<0.037		0.34	0.037	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
2-Nitrophenol	<0.046		0.68	0.046	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
3,3'-Dichlorobenzidine	<0.056		0.34	0.056	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
3 & 4 Methylphenol	<0.050		0.34	0.050	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
3-Nitroaniline	<0.031		0.68	0.031	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
4,6-Dinitro-2-methylphenol	<0.38		1.4	0.38	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
4-Bromophenyl phenyl ether	<0.047		0.34	0.047	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
4-Chloro-3-methylphenol	<0.026		0.68	0.026	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
4-Chloroaniline	<0.71		1.4	0.71	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
4-Chlorophenyl phenyl ether	<0.089		0.34	0.089	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
4-Nitroaniline	<0.050		0.68	0.050	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
4-Nitrophenol	<0.25		1.4	0.25	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Bis(2-chloroethoxy)methane	<0.025		0.34	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Bis(2-chloroethyl)ether	<0.031		0.34	0.031	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
bis(chloroisopropyl) ether	<0.049		0.34	0.049	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Bis(2-ethylhexyl) phthalate	<0.27		0.34	0.27	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Butyl benzyl phthalate	<0.034		0.34	0.034	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Carbazole	**0.24**	**J**	0.34	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Dibenzofuran	**0.11**	**J**	0.34	0.024	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Diethyl phthalate	<0.031		0.34	0.031	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Dimethyl phthalate	<0.015		0.34	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Di-n-butyl phthalate	<0.022		0.34	0.022	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Di-n-octyl phthalate	<0.48		0.68	0.48	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Hexachlorobutadiene	<0.038		0.34	0.038	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB68 (0-3)
Lab Sample ID: 500-256423-1
Date Collected: 09/09/24 08:42
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 93.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.72		1.4	0.72	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Hexachloroethane	<0.034		0.34	0.034	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Isophorone	<0.035		0.34	0.035	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Nitrobenzene	<0.022		0.068	0.022	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
N-Nitrosodi-n-propylamine	<0.013		0.14	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
N-Nitrosodiphenylamine	<0.040		0.34	0.040	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2
Phenol	<0.030		0.34	0.030	mg/Kg	☼	09/20/24 07:19	09/20/24 17:14	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*15*	*S1-*	*31 - 166*	*09/20/24 07:19*	*09/20/24 17:14*	*2*
Phenol-d5 (Surr)	*39*		*30 - 153*	*09/20/24 07:19*	*09/20/24 17:14*	*2*
Nitrobenzene-d5 (Surr)	*54*		*37 - 147*	*09/20/24 07:19*	*09/20/24 17:14*	*2*
2-Fluorobiphenyl (Surr)	*54*		*43 - 145*	*09/20/24 07:19*	*09/20/24 17:14*	*2*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/20/24 07:19*	*09/20/24 17:14*	*2*
Terphenyl-d14 (Surr)	*68*		*42 - 157*	*09/20/24 07:19*	*09/20/24 17:14*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
4,4'-DDE	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
4,4'-DDT	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Aldrin	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
alpha-BHC	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
alpha-Chlordane	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
beta-BHC	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Chlordane (technical)	<0.068		0.068		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
delta-BHC	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Dieldrin	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Endosulfan I	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Endosulfan II	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Endosulfan sulfate	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Endrin	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Endrin aldehyde	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Endrin ketone	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
gamma-BHC (Lindane)	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
gamma-Chlordane	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Heptachlor	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Heptachlor epoxide	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Methoxychlor	<0.085		0.085		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10
Toxaphene	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 17:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*128*		*33 - 148*	*09/19/24 07:20*	*09/26/24 17:49*	*10*
Tetrachloro-m-xylene	*38*		*30 - 121*	*09/19/24 07:20*	*09/26/24 17:49*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 10:55	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 10:55	10

Client Sample ID: SB68 (0-3)
Date Collected: 09/09/24 08:42
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-1
Matrix: Solid
Percent Solids: 93.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 10:55	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 10:55	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 10:55	10
PCB-1254	**0.25**		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 10:55	10
PCB-1260	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 10:55	10
Polychlorinated biphenyls, Total	**0.25**		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 10:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*49 - 129*	*09/19/24 07:20*	*09/27/24 10:55*	*10*
DCB Decachlorobiphenyl	*107*		*37 - 121*	*09/19/24 07:20*	*09/27/24 10:55*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		20		mg/Kg	☼	09/19/24 16:02	09/21/24 00:51	1
Antimony	<10		10		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Arsenic	**4.2**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 00:51	1
Barium	**140**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 00:51	1
Beryllium	**2.3**		2.0		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Cadmium	**1.3**		1.0		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Calcium	**160000**	**^2**	100		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Chromium	**520**		5.1		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Cobalt	**5.7**		2.5		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Copper	**79**		5.1		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Iron	**120000**		100		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Lead	**150**		2.5		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Magnesium	**41000**	**^2**	51		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Manganese	**20000**	**B**	20		mg/Kg	☼	09/19/24 16:02	09/24/24 18:00	20
Nickel	**36**		5.1		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Potassium	**900**		51		mg/Kg	☼	09/19/24 16:02	09/21/24 00:51	1
Selenium	<5.1		5.1		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Silver	<2.5		2.5		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Sodium	**410**		100		mg/Kg	☼	09/19/24 16:02	09/21/24 00:51	1
Thallium	**24**		5.1		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Vanadium	**380**	**^2**	2.5		mg/Kg	☼	09/19/24 16:02	09/23/24 19:44	5
Zinc	**200**		2.0		mg/Kg	☼	09/19/24 16:02	09/21/24 00:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.016		mg/Kg	☼	09/24/24 18:10	09/25/24 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**4.4**		0.23		mg/Kg	☼	09/16/24 11:23	09/17/24 10:08	1
pH (SW846 9045D)	**11.36**		0.20		SU			09/13/24 15:53	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB68 (7.5-10)
Lab Sample ID: 500-256423-2
Date Collected: 09/09/24 08:57
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 90.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00086		0.0021	0.00086	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
1,1,2,2-Tetrachloroethane	<0.0011	*+	0.0021	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
1,1,2-Trichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
1,1-Dichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
1,1-Dichloroethene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
1,2-Dichloroethane	<0.0014		0.0053	0.0014	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
2-Butanone (MEK)	<0.0023		0.0053	0.0023	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
2-Hexanone	<0.0032		0.0053	0.0032	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0053	0.0038	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Acetone	**0.011**	**J**	0.021	0.0089	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Benzene	<0.00067		0.0021	0.00067	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Bromodichloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Bromomethane	<0.0026		0.0053	0.0026	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Carbon disulfide	**0.010**		0.0053	0.00098	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Carbon tetrachloride	<0.00073		0.0021	0.00073	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Chlorobenzene	<0.00090		0.0021	0.00090	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Chloroethane	<0.0018		0.0053	0.0018	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Chloromethane	<0.0010		0.0053	0.0010	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
cis-1,2-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Dibromochloromethane	<0.00099		0.0021	0.00099	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Methyl tert-butyl ether	<0.00069		0.0021	0.00069	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Methylene Chloride	<0.0023		0.0053	0.0023	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Styrene	<0.00096	*+	0.0021	0.00096	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Toluene	<0.00043		0.0021	0.00043	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Xylenes, Total	<0.00073		0.0043	0.00073	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
trans-1,2-Dichloroethene	<0.00081		0.0021	0.00081	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Trichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1
Vinyl chloride	<0.00087		0.0021	0.00087	mg/Kg	☼	09/10/24 17:47	09/14/24 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*09/10/24 17:47*	*09/14/24 01:20*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*09/10/24 17:47*	*09/14/24 01:20*	*1*
Dibromofluoromethane	*35*	*S1-*	*75 - 126*	*09/10/24 17:47*	*09/14/24 01:20*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*09/10/24 17:47*	*09/14/24 01:20*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.11**		0.071	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Acenaphthylene	**0.093**		0.071	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Anthracene	**0.24**		0.071	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Benzo[a]anthracene	**1.8**		0.071	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Benzo[a]pyrene	**2.6**		0.071	0.069	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Benzo[b]fluoranthene	**3.9**		0.071	0.068	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Benzo[g,h,i]perylene	**2.9**		0.071	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2

Client Sample ID: SB68 (7.5-10)
Date Collected: 09/09/24 08:57
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-2
Matrix: Solid
Percent Solids: 90.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.6**		0.071	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Chrysene	**2.4**		0.071	0.019	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Dibenz(a,h)anthracene	**0.58**		0.071	0.071	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Fluoranthene	**2.9**		0.071	0.017	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Fluorene	**0.061**	**J**	0.071	0.021	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Indeno[1,2,3-cd]pyrene	**2.7**		0.071	0.070	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Naphthalene	**0.043**	**J**	0.071	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Phenanthrene	**0.99**		0.071	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Pyrene	**2.7**		0.071	0.020	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2-Methylnaphthalene	**0.040**	**J**	0.14	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
2-Nitrophenol	<0.049		0.71	0.049	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
3,3'-Dichlorobenzidine	<0.059		0.36	0.059	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
3-Nitroaniline	<0.033		0.71	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
4-Nitrophenol	<0.27		1.4	0.27	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Carbazole	**0.12**	**J**	0.36	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Dibenzofuran	**0.049**	**J**	0.36	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB68 (7.5-10)
Lab Sample ID: 500-256423-2
Date Collected: 09/09/24 08:57
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 90.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76		1.4	0.76	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
N-Nitrosodiphenylamine	<0.043		0.36	0.043	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/20/24 07:19	09/20/24 17:39	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*9*	*S1-*	*31 - 166*	*09/20/24 07:19*	*09/20/24 17:39*	*2*
Phenol-d5 (Surr)	*34*		*30 - 153*	*09/20/24 07:19*	*09/20/24 17:39*	*2*
Nitrobenzene-d5 (Surr)	*50*		*37 - 147*	*09/20/24 07:19*	*09/20/24 17:39*	*2*
2-Fluorobiphenyl (Surr)	*55*		*43 - 145*	*09/20/24 07:19*	*09/20/24 17:39*	*2*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/20/24 07:19*	*09/20/24 17:39*	*2*
Terphenyl-d14 (Surr)	*72*		*42 - 157*	*09/20/24 07:19*	*09/20/24 17:39*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
4,4'-DDE	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
4,4'-DDT	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Aldrin	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
alpha-BHC	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
alpha-Chlordane	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
beta-BHC	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Chlordane (technical)	<0.073		0.073		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
delta-BHC	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Dieldrin	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Endosulfan I	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Endosulfan II	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Endosulfan sulfate	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Endrin	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Endrin aldehyde	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Endrin ketone	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
gamma-BHC (Lindane)	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
gamma-Chlordane	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Heptachlor	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Heptachlor epoxide	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Methoxychlor	<0.090		0.090		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10
Toxaphene	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 18:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*212*	*S1+*	*33 - 148*	*09/19/24 07:20*	*09/26/24 18:01*	*10*
Tetrachloro-m-xylene	*67*		*30 - 121*	*09/19/24 07:20*	*09/26/24 18:01*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	*-	0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:10	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:10	10

Client Sample ID: SB68 (7.5-10)
Date Collected: 09/09/24 08:57
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-2
Matrix: Solid
Percent Solids: 90.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:10	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:10	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:10	10
PCB-1254	**0.26**		0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:10	10
PCB-1260	<0.18	*-	0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:10	10
Polychlorinated biphenyls, Total	**0.26**		0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*49 - 129*	*09/19/24 07:20*	*09/27/24 11:10*	*10*
DCB Decachlorobiphenyl	*120*		*37 - 121*	*09/19/24 07:20*	*09/27/24 11:10*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9700**		19		mg/Kg	☼	09/19/24 16:02	09/21/24 00:55	1
Antimony	<9.7		9.7		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Arsenic	**2.6**		0.97		mg/Kg	☼	09/19/24 16:02	09/21/24 00:55	1
Barium	**100**		0.97		mg/Kg	☼	09/19/24 16:02	09/21/24 00:55	1
Beryllium	**1.9**		1.9		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Cadmium	**1.9**		0.97		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Calcium	**180000**	**^2**	97		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Chromium	**740**		4.8		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Cobalt	**5.7**		2.4		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Copper	**90**		4.8		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Iron	**120000**		97		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Lead	**210**		2.4		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Magnesium	**42000**	**^2**	48		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Manganese	**22000**	**B**	19		mg/Kg	☼	09/19/24 16:02	09/24/24 18:04	20
Nickel	**37**		4.8		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Potassium	**600**		48		mg/Kg	☼	09/19/24 16:02	09/21/24 00:55	1
Selenium	**9.0**		4.8		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Silver	<2.4		2.4		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Sodium	**260**		97		mg/Kg	☼	09/19/24 16:02	09/21/24 00:55	1
Thallium	**91**		19		mg/Kg	☼	09/19/24 16:02	09/24/24 18:04	20
Vanadium	**470**	**^2**	2.4		mg/Kg	☼	09/19/24 16:02	09/23/24 19:48	5
Zinc	**410**		1.9		mg/Kg	☼	09/19/24 16:02	09/21/24 00:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.26**		0.017		mg/Kg	☼	09/24/24 18:10	09/25/24 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**9.4**		1.3		mg/Kg	☼	09/16/24 11:23	09/17/24 11:14	5
pH (SW846 9045D)	**12.42**		0.20		SU			09/13/24 15:56	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB69 (0-3)
Lab Sample ID: 500-256423-3
Date Collected: 09/09/24 10:04
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 89.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00095		0.0023	0.00095	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
1,1,2,2-Tetrachloroethane	<0.0012	*+	0.0023	0.0012	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
1,1,2-Trichloroethane	<0.00088		0.0023	0.00088	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
1,1-Dichloroethane	<0.00088		0.0023	0.00088	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
1,1-Dichloroethene	<0.00096		0.0023	0.00096	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
1,2-Dichloroethane	<0.0015		0.0059	0.0015	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
1,2-Dichloropropane	<0.00061		0.0023	0.00061	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
2-Butanone (MEK)	<0.0026		0.0059	0.0026	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
2-Hexanone	<0.0036		0.0059	0.0036	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0059	0.0042	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Acetone	<0.0099		0.023	0.0099	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Benzene	<0.00074		0.0023	0.00074	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Bromodichloromethane	<0.00075		0.0023	0.00075	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Bromoform	<0.0014		0.0023	0.0014	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Bromomethane	<0.0029		0.0059	0.0029	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Carbon disulfide	**0.0057**	**J**	0.0059	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Carbon tetrachloride	<0.00080		0.0023	0.00080	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Chlorobenzene	<0.00099		0.0023	0.00099	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Chloroethane	<0.0019		0.0059	0.0019	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Chloroform	<0.0017		0.0023	0.0017	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Chloromethane	<0.0011		0.0059	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
cis-1,2-Dichloroethene	<0.00095		0.0023	0.00095	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Methyl tert-butyl ether	<0.00076		0.0023	0.00076	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Methylene Chloride	<0.0025		0.0059	0.0025	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Styrene	<0.0011	*+	0.0023	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Toluene	<0.00047		0.0023	0.00047	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Xylenes, Total	<0.00080		0.0047	0.00080	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
trans-1,2-Dichloroethene	<0.00089		0.0023	0.00089	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Trichloroethene	<0.00064		0.0023	0.00064	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1
Vinyl chloride	<0.00096		0.0023	0.00096	mg/Kg	☼	09/10/24 17:47	09/14/24 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*09/10/24 17:47*	*09/14/24 01:45*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*09/10/24 17:47*	*09/14/24 01:45*	*1*
Dibromofluoromethane	*81*		*75 - 126*	*09/10/24 17:47*	*09/14/24 01:45*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*09/10/24 17:47*	*09/14/24 01:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.033**	**J**	0.072	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Acenaphthylene	**0.033**	**J**	0.072	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Anthracene	**0.15**		0.072	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Benzo[a]anthracene	**0.57**		0.072	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Benzo[a]pyrene	**0.52**		0.072	0.070	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Benzo[b]fluoranthene	**0.95**		0.072	0.069	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Benzo[g,h,i]perylene	**0.46**		0.072	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB69 (0-3)
Lab Sample ID: 500-256423-3
Date Collected: 09/09/24 10:04
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 89.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.27**		0.072	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Chrysene	**0.73**		0.072	0.019	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Dibenz(a,h)anthracene	**0.12**		0.072	0.072	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Fluoranthene	**0.93**		0.072	0.017	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Fluorene	**0.026**	**J**	0.072	0.021	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Indeno[1,2,3-cd]pyrene	**0.46**		0.072	0.070	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Naphthalene	**0.019**	**J**	0.072	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Phenanthrene	**0.36**		0.072	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Pyrene	**0.99**		0.072	0.020	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
1,2,4-Trichlorobenzene	<0.052		0.36	0.052	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
1,3-Dichlorobenzene	<0.033		0.36	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2,4,5-Trichlorophenol	<0.027		0.72	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2,4,6-Trichlorophenol	<0.025		0.72	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2,4-Dichlorophenol	<0.026		0.72	0.026	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2,4-Dimethylphenol	<0.16		0.72	0.16	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2,6-Dinitrotoluene	<0.025		0.36	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2-Methylnaphthalene	<0.015		0.15	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2-Nitroaniline	<0.039		0.36	0.039	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
2-Nitrophenol	<0.049		0.72	0.049	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
3,3'-Dichlorobenzidine	<0.059		0.36	0.059	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
3 & 4 Methylphenol	<0.053		0.36	0.053	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
3-Nitroaniline	<0.033		0.72	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
4-Chloro-3-methylphenol	<0.028		0.72	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
4-Chloroaniline	<0.76		1.5	0.76	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
4-Chlorophenyl phenyl ether	<0.095		0.36	0.095	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
4-Nitroaniline	<0.053		0.72	0.053	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
bis(chloroisopropyl) ether	<0.052		0.36	0.052	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Carbazole	**0.032**	**J**	0.36	0.029	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Dibenzofuran	<0.026		0.36	0.026	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Di-n-octyl phthalate	<0.51		0.72	0.51	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Hexachlorobutadiene	<0.041		0.36	0.041	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2

Client Sample ID: SB69 (0-3)
Date Collected: 09/09/24 10:04
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-3
Matrix: Solid
Percent Solids: 89.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.77		1.5	0.77	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Nitrobenzene	<0.023		0.072	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
N-Nitrosodiphenylamine	<0.043		0.36	0.043	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/20/24 07:19	09/20/24 18:04	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*41*		*31 - 166*	*09/20/24 07:19*	*09/20/24 18:04*	*2*
Phenol-d5 (Surr)	*51*		*30 - 153*	*09/20/24 07:19*	*09/20/24 18:04*	*2*
Nitrobenzene-d5 (Surr)	*50*		*37 - 147*	*09/20/24 07:19*	*09/20/24 18:04*	*2*
2-Fluorobiphenyl (Surr)	*51*		*43 - 145*	*09/20/24 07:19*	*09/20/24 18:04*	*2*
2,4,6-Tribromophenol (Surr)	*8*	*S1-*	*31 - 143*	*09/20/24 07:19*	*09/20/24 18:04*	*2*
Terphenyl-d14 (Surr)	*73*		*42 - 157*	*09/20/24 07:19*	*09/20/24 18:04*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
4,4'-DDE	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
4,4'-DDT	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Aldrin	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
alpha-BHC	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
alpha-Chlordane	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
beta-BHC	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Chlordane (technical)	<0.072		0.072		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
delta-BHC	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Dieldrin	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Endosulfan I	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Endosulfan II	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Endosulfan sulfate	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Endrin	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Endrin aldehyde	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Endrin ketone	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
gamma-BHC (Lindane)	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
gamma-Chlordane	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Heptachlor	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Heptachlor epoxide	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Methoxychlor	<0.090		0.090		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10
Toxaphene	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 18:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*253*	*S1+*	*33 - 148*	*09/19/24 07:20*	*09/26/24 18:13*	*10*
Tetrachloro-m-xylene	*71*		*30 - 121*	*09/19/24 07:20*	*09/26/24 18:13*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	*-	0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:25	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:25	10

Client Sample ID: SB69 (0-3)
Date Collected: 09/09/24 10:04
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-3
Matrix: Solid
Percent Solids: 89.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:25	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:25	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:25	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:25	10
PCB-1260	<0.18	*-	0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:25	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/27/24 11:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*49 - 129*	*09/19/24 07:20*	*09/27/24 11:25*	*10*
DCB Decachlorobiphenyl	*50*		*37 - 121*	*09/19/24 07:20*	*09/27/24 11:25*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		20		mg/Kg	☼	09/19/24 16:02	09/21/24 00:59	1
Antimony	<10		10		mg/Kg	☼	09/19/24 16:02	09/23/24 20:02	5
Arsenic	**2.7**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 00:59	1
Barium	**160**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 00:59	1
Beryllium	**2.5**		2.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:02	5
Cadmium	**0.35**		0.20		mg/Kg	☼	09/19/24 16:02	09/21/24 00:59	1
Calcium	**170000**	**^2**	100		mg/Kg	☼	09/19/24 16:02	09/23/24 20:02	5
Chromium	**140**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 00:59	1
Cobalt	**2.9**		2.5		mg/Kg	☼	09/19/24 16:02	09/23/24 20:02	5
Copper	**24**		5.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:02	5
Iron	**21000**		100		mg/Kg	☼	09/19/24 16:02	09/23/24 20:02	5
Lead	**61**		2.5		mg/Kg	☼	09/19/24 16:02	09/23/24 20:02	5
Magnesium	**57000**	**^2**	50		mg/Kg	☼	09/19/24 16:02	09/23/24 20:02	5
Manganese	**2700**	**^2**	5.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:02	5
Nickel	**23**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 00:59	1
Potassium	**600**		50		mg/Kg	☼	09/19/24 16:02	09/21/24 00:59	1
Selenium	**3.4**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 00:59	1
Silver	<2.5		2.5		mg/Kg	☼	09/19/24 16:02	09/23/24 20:02	5
Sodium	**340**		100		mg/Kg	☼	09/19/24 16:02	09/21/24 00:59	1
Thallium	**5.8**		5.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:02	5
Vanadium	**29**		0.50		mg/Kg	☼	09/19/24 16:02	09/21/24 00:59	1
Zinc	**78**		2.0		mg/Kg	☼	09/19/24 16:02	09/21/24 00:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.016		mg/Kg	☼	09/24/24 18:10	09/25/24 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**3.3**	**F1 F2**	0.25		mg/Kg	☼	09/16/24 11:23	09/17/24 10:12	1
pH (SW846 9045D)	**11.58**		0.20		SU			09/13/24 16:01	1

Client Sample ID: SB69 (3-5)
Date Collected: 09/09/24 10:10
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-4
Matrix: Solid
Percent Solids: 89.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00090		0.0022	0.00090	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
1,1,2,2-Tetrachloroethane	<0.0011	*+	0.0022	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
1,1,2-Trichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
1,1-Dichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
1,1-Dichloroethene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
1,2-Dichloroethane	<0.0014		0.0056	0.0014	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
2-Butanone (MEK)	<0.0024		0.0056	0.0024	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Acetone	<0.0094		0.022	0.0094	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Benzene	<0.00070		0.0022	0.00070	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Bromodichloromethane	<0.00072		0.0022	0.00072	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Bromomethane	<0.0027		0.0056	0.0027	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Carbon disulfide	**0.0036**	**J**	0.0056	0.0010	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Carbon tetrachloride	<0.00076		0.0022	0.00076	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Chlorobenzene	<0.00094		0.0022	0.00094	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
cis-1,2-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Methyl tert-butyl ether	<0.00072		0.0022	0.00072	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Styrene	<0.0010	*+	0.0022	0.0010	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Tetrachloroethene	<0.0013		0.0022	0.0013	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Toluene	<0.00045		0.0022	0.00045	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Xylenes, Total	<0.00076		0.0045	0.00076	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
trans-1,2-Dichloroethene	<0.00084		0.0022	0.00084	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Trichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1
Vinyl chloride	<0.00091		0.0022	0.00091	mg/Kg	☼	09/10/24 17:47	09/14/24 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*09/10/24 17:47*	*09/14/24 02:10*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*09/10/24 17:47*	*09/14/24 02:10*	*1*
Dibromofluoromethane	*80*		*75 - 126*	*09/10/24 17:47*	*09/14/24 02:10*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/10/24 17:47*	*09/14/24 02:10*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.038**	**J**	0.072	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Acenaphthylene	**0.10**		0.072	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Anthracene	**0.10**		0.072	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Benzo[a]anthracene	**0.72**		0.072	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Benzo[a]pyrene	**0.83**		0.072	0.070	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Benzo[b]fluoranthene	**1.5**		0.072	0.069	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Benzo[g,h,i]perylene	**0.81**		0.072	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2

Client Sample ID: SB69 (3-5)
Lab Sample ID: 500-256423-4
Date Collected: 09/09/24 10:10
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.39**		0.072	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Chrysene	**0.89**		0.072	0.019	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Dibenz(a,h)anthracene	**0.17**		0.072	0.072	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Fluoranthene	**1.2**		0.072	0.017	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Fluorene	<0.022		0.072	0.022	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Indeno[1,2,3-cd]pyrene	**0.73**		0.072	0.071	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Naphthalene	**0.029**	J	0.072	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Phenanthrene	**0.34**		0.072	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Pyrene	**1.2**		0.072	0.020	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
1,2,4-Trichlorobenzene	<0.052		0.37	0.052	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
1,3-Dichlorobenzene	<0.033		0.37	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
1,4-Dichlorobenzene	<0.034		0.37	0.034	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2,4,5-Trichlorophenol	<0.027		0.72	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2,4,6-Trichlorophenol	<0.025		0.72	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2,4-Dichlorophenol	<0.026		0.72	0.026	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2,4-Dimethylphenol	<0.16		0.72	0.16	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2,4-Dinitrotoluene	<0.041		0.37	0.041	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2-Chloronaphthalene	<0.027		0.37	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2-Chlorophenol	<0.023		0.37	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2-Methylnaphthalene	**0.023**	J	0.15	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2-Methylphenol	<0.038		0.37	0.038	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2-Nitroaniline	<0.039		0.37	0.039	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
2-Nitrophenol	<0.049		0.72	0.049	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
3,3'-Dichlorobenzidine	<0.059		0.37	0.059	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
3 & 4 Methylphenol	<0.053		0.37	0.053	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
3-Nitroaniline	<0.033		0.72	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
4-Bromophenyl phenyl ether	<0.050		0.37	0.050	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
4-Chloro-3-methylphenol	<0.028		0.72	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
4-Chloroaniline	<0.76		1.5	0.76	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
4-Chlorophenyl phenyl ether	<0.095		0.37	0.095	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
4-Nitroaniline	<0.054		0.72	0.054	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Bis(2-chloroethoxy)methane	<0.027		0.37	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Bis(2-chloroethyl)ether	<0.034		0.37	0.034	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
bis(chloroisopropyl) ether	<0.052		0.37	0.052	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Bis(2-ethylhexyl) phthalate	<0.29		0.37	0.29	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Butyl benzyl phthalate	<0.036		0.37	0.036	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Carbazole	**0.044**	J	0.37	0.029	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Dibenzofuran	<0.026		0.37	0.026	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Diethyl phthalate	<0.033		0.37	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Di-n-butyl phthalate	<0.023		0.37	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Di-n-octyl phthalate	<0.51		0.72	0.51	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Hexachlorobutadiene	<0.041		0.37	0.041	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB69 (3-5)
Lab Sample ID: 500-256423-4
Date Collected: 09/09/24 10:10
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.77		1.5	0.77	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Hexachloroethane	<0.036		0.37	0.036	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Isophorone	<0.037		0.37	0.037	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Nitrobenzene	<0.023		0.072	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
N-Nitrosodiphenylamine	<0.043		0.37	0.043	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2
Phenol	<0.032		0.37	0.032	mg/Kg	☼	09/20/24 07:19	09/20/24 18:29	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*31 - 166*	*09/20/24 07:19*	*09/20/24 18:29*	*2*
Phenol-d5 (Surr)	*53*		*30 - 153*	*09/20/24 07:19*	*09/20/24 18:29*	*2*
Nitrobenzene-d5 (Surr)	*53*		*37 - 147*	*09/20/24 07:19*	*09/20/24 18:29*	*2*
2-Fluorobiphenyl (Surr)	*54*		*43 - 145*	*09/20/24 07:19*	*09/20/24 18:29*	*2*
2,4,6-Tribromophenol (Surr)	*7*	*S1-*	*31 - 143*	*09/20/24 07:19*	*09/20/24 18:29*	*2*
Terphenyl-d14 (Surr)	*63*		*42 - 157*	*09/20/24 07:19*	*09/20/24 18:29*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
4,4'-DDE	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
4,4'-DDT	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Aldrin	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
alpha-BHC	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
alpha-Chlordane	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
beta-BHC	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Chlordane (technical)	<0.074		0.074		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
delta-BHC	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Dieldrin	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Endosulfan I	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Endosulfan II	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Endosulfan sulfate	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Endrin	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Endrin aldehyde	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Endrin ketone	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
gamma-BHC (Lindane)	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
gamma-Chlordane	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Heptachlor	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Heptachlor epoxide	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Methoxychlor	<0.092		0.092		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10
Toxaphene	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 18:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*264*	*S1+*	*33 - 148*	*09/19/24 07:20*	*09/26/24 18:24*	*10*
Tetrachloro-m-xylene	*103*		*30 - 121*	*09/19/24 07:20*	*09/26/24 18:24*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	*-	0.18		mg/Kg	☼	09/19/24 07:20	09/30/24 11:51	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/30/24 11:51	10

Client Sample ID: SB69 (3-5)
Lab Sample ID: 500-256423-4

Date Collected: 09/09/24 10:10
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 89.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/30/24 11:51	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/30/24 11:51	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/30/24 11:51	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/30/24 11:51	10
PCB-1260	<0.18	*-	0.18		mg/Kg	☼	09/19/24 07:20	09/30/24 11:51	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/30/24 11:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*49 - 129*	*09/19/24 07:20*	*09/30/24 11:51*	*10*
DCB Decachlorobiphenyl	*90*		*37 - 121*	*09/19/24 07:20*	*09/30/24 11:51*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		21		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1
Antimony	<2.1		2.1		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1
Arsenic	**5.6**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1
Barium	**140**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1
Beryllium	<2.1		2.1		mg/Kg	☼	09/19/24 16:02	09/23/24 20:06	5
Cadmium	**0.58**		0.21		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1
Calcium	**230000**	**^2**	100		mg/Kg	☼	09/19/24 16:02	09/23/24 20:06	5
Chromium	**33**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1
Cobalt	**20**		2.6		mg/Kg	☼	09/19/24 16:02	09/23/24 20:06	5
Copper	**230**		5.2		mg/Kg	☼	09/19/24 16:02	09/23/24 20:06	5
Iron	**1900**		100		mg/Kg	☼	09/19/24 16:02	09/23/24 20:06	5
Lead	<2.6		2.6		mg/Kg	☼	09/19/24 16:02	09/23/24 20:06	5
Magnesium	**37000**	**^2**	52		mg/Kg	☼	09/19/24 16:02	09/23/24 20:06	5
Manganese	**1000**	**^2**	5.2		mg/Kg	☼	09/19/24 16:02	09/23/24 20:06	5
Nickel	**15**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1
Potassium	**700**		52		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1
Selenium	**2.7**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1
Silver	<0.52		0.52		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1
Sodium	**370**		100		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1
Thallium	<5.2		5.2		mg/Kg	☼	09/19/24 16:02	09/23/24 20:06	5
Vanadium	**21**		0.52		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1
Zinc	**130**		2.1		mg/Kg	☼	09/19/24 16:02	09/21/24 01:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.35**		0.018		mg/Kg	☼	09/24/24 18:10	09/25/24 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.3**		0.25		mg/Kg	☼	09/16/24 11:23	09/17/24 10:18	1
pH (SW846 9045D)	**11.06**		0.20		SU			09/13/24 16:03	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70 (0-3)
Lab Sample ID: 500-256423-5
Date Collected: 09/09/24 11:58
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 96.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00083		0.0021	0.00083	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
1,1,2,2-Tetrachloroethane	<0.0010	*+	0.0021	0.0010	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
1,1,2-Trichloroethane	<0.00077		0.0021	0.00077	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
1,1-Dichloroethane	<0.00077		0.0021	0.00077	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
1,1-Dichloroethene	<0.00084		0.0021	0.00084	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
1,2-Dichloroethane	<0.0013		0.0051	0.0013	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
1,2-Dichloropropane	<0.00053		0.0021	0.00053	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
2-Butanone (MEK)	<0.0023		0.0051	0.0023	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
2-Hexanone	<0.0031		0.0051	0.0031	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0051	0.0037	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Acetone	<0.0086		0.021	0.0086	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Benzene	<0.00065		0.0021	0.00065	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Bromodichloromethane	<0.00066		0.0021	0.00066	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Bromomethane	<0.0025		0.0051	0.0025	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Carbon disulfide	<0.00095		0.0051	0.00095	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Carbon tetrachloride	<0.00070		0.0021	0.00070	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Chlorobenzene	<0.00087		0.0021	0.00087	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Chloroethane	<0.0017		0.0051	0.0017	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Chloromethane	<0.0010		0.0051	0.0010	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
cis-1,2-Dichloroethene	<0.00083		0.0021	0.00083	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
1,3-Dichloropropene, Total	<0.00098		0.0021	0.00098	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Dibromochloromethane	<0.00095		0.0021	0.00095	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Methyl tert-butyl ether	<0.00066		0.0021	0.00066	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Methylene Chloride	<0.0022		0.0051	0.0022	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Styrene	<0.00092	*+	0.0021	0.00092	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Toluene	<0.00041		0.0021	0.00041	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Xylenes, Total	<0.00070		0.0041	0.00070	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
trans-1,2-Dichloroethene	<0.00078		0.0021	0.00078	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Trichloroethene	<0.00056		0.0021	0.00056	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1
Vinyl chloride	<0.00084		0.0021	0.00084	mg/Kg	☼	09/10/24 17:47	09/14/24 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*09/10/24 17:47*	*09/14/24 02:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*09/10/24 17:47*	*09/14/24 02:35*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*09/10/24 17:47*	*09/14/24 02:35*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*09/10/24 17:47*	*09/14/24 02:35*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.034	0.0070	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Acenaphthylene	<0.0058		0.034	0.0058	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Anthracene	<0.0070		0.034	0.0070	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Benzo[a]anthracene	<0.0073		0.034	0.0073	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Benzo[a]pyrene	<0.033		0.034	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Benzo[b]fluoranthene	<0.033		0.034	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Benzo[g,h,i]perylene	<0.0074		0.034	0.0074	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70 (0-3)
Lab Sample ID: 500-256423-5
Date Collected: 09/09/24 11:58
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 96.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.034	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Chrysene	<0.0090		0.034	0.0090	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Dibenz(a,h)anthracene	<0.034		0.034	0.034	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Fluoranthene	**0.020**	**J**	0.034	0.0080	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Fluorene	**0.012**	**J**	0.034	0.010	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Indeno[1,2,3-cd]pyrene	<0.033		0.034	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Naphthalene	<0.0062		0.034	0.0062	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Phenanthrene	**0.11**		0.034	0.0074	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Pyrene	**0.011**	**J**	0.034	0.0093	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2,4-Dimethylphenol	<0.077		0.34	0.077	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2,4-Dinitrophenol	<0.20		0.69	0.20	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2-Methylnaphthalene	**0.0071**	**J**	0.069	0.0069	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
2-Nitrophenol	<0.023		0.34	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
3-Nitroaniline	<0.016		0.34	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
4,6-Dinitro-2-methylphenol	<0.19		0.69	0.19	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
4-Chloroaniline	<0.36		0.69	0.36	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
4-Nitroaniline	<0.025		0.34	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
4-Nitrophenol	<0.13		0.69	0.13	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
bis(chloroisopropyl) ether	<0.025		0.17	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Carbazole	<0.014		0.17	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Dibenzofuran	**0.014**	**J**	0.17	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Dimethyl phthalate	<0.0074		0.17	0.0074	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Hexachlorobenzene	<0.0066		0.069	0.0066	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70 (0-3)
Lab Sample ID: 500-256423-5
Date Collected: 09/09/24 11:58
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 96.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.36		0.69	0.36	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
N-Nitrosodi-n-propylamine	<0.0068		0.069	0.0068	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Pentachlorophenol	<0.086		0.69	0.086	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*62*		*31 - 166*	*09/20/24 07:19*	*09/20/24 18:54*	*1*
Phenol-d5 (Surr)	*65*		*30 - 153*	*09/20/24 07:19*	*09/20/24 18:54*	*1*
Nitrobenzene-d5 (Surr)	*64*		*37 - 147*	*09/20/24 07:19*	*09/20/24 18:54*	*1*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*09/20/24 07:19*	*09/20/24 18:54*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*31 - 143*	*09/20/24 07:19*	*09/20/24 18:54*	*1*
Terphenyl-d14 (Surr)	*82*		*42 - 157*	*09/20/24 07:19*	*09/20/24 18:54*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
4,4'-DDE	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
4,4'-DDT	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Aldrin	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
alpha-BHC	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
alpha-Chlordane	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
beta-BHC	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Chlordane (technical)	<0.067		0.067		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
delta-BHC	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Dieldrin	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Endosulfan I	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Endosulfan II	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Endosulfan sulfate	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Endrin	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Endrin aldehyde	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Endrin ketone	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
gamma-BHC (Lindane)	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
gamma-Chlordane	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Heptachlor	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Heptachlor epoxide	<0.017		0.017		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Methoxychlor	<0.083		0.083		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10
Toxaphene	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 18:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*33 - 148*	*09/19/24 07:20*	*09/26/24 18:36*	*10*
Tetrachloro-m-xylene	*59*		*30 - 121*	*09/19/24 07:20*	*09/26/24 18:36*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 12:55	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 12:55	10

Client Sample ID: SB70 (0-3)
Date Collected: 09/09/24 11:58
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-5
Matrix: Solid
Percent Solids: 96.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 12:55	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 12:55	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 12:55	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 12:55	10
PCB-1260	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 12:55	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 12:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*49 - 129*	*09/19/24 07:20*	*09/27/24 12:55*	*10*
DCB Decachlorobiphenyl	*77*		*37 - 121*	*09/19/24 07:20*	*09/27/24 12:55*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1800**		20		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Arsenic	**4.1**		0.98		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Barium	**11**		0.98		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Beryllium	<0.39		0.39		mg/Kg	☼	09/19/24 16:02	09/23/24 20:11	1
Cadmium	<0.20		0.20		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Calcium	**24000**		20		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Chromium	**12**		0.98		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Cobalt	**3.1**		0.49		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Copper	**4.7**		0.98		mg/Kg	☼	09/19/24 16:02	09/23/24 20:11	1
Iron	**24000**		20		mg/Kg	☼	09/19/24 16:02	09/23/24 20:11	1
Lead	**3.1**		0.49		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Magnesium	**14000**	**^2**	9.8		mg/Kg	☼	09/19/24 16:02	09/23/24 20:11	1
Manganese	**280**	**^2**	0.98		mg/Kg	☼	09/19/24 16:02	09/23/24 20:11	1
Nickel	**4.6**		0.98		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Potassium	**270**		49		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Selenium	**2.0**		0.98		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Silver	<0.49		0.49		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Sodium	<98		98		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Thallium	<0.98		0.98		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Vanadium	**45**		0.49		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1
Zinc	**13**		2.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.016		mg/Kg	☼	09/24/24 18:10	09/25/24 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24		mg/Kg	☼	09/16/24 11:23	09/17/24 10:44	1
Sulfide (SW846 9034)	<31		31		mg/Kg	☼	09/16/24 07:29	09/16/24 09:22	1
pH (SW846 9045D)	**8.96**		0.20		SU			09/13/24 16:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70 (12.5-15)
Lab Sample ID: 500-256423-6
Date Collected: 09/09/24 12:30
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 92.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.022		0.048	0.022	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
1,1,2,2-Tetrachloroethane	<0.031		0.048	0.031	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
1,1,2-Trichloroethane	<0.035		0.048	0.035	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
1,1-Dichloroethane	<0.018		0.048	0.018	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
1,1-Dichloroethene	<0.023		0.048	0.023	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
1,2-Dichloroethane	<0.028		0.048	0.028	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
1,2-Dichloropropane	<0.018		0.048	0.018	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
2-Butanone (MEK)	<0.15		0.24	0.15	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
2-Hexanone	<0.14		0.24	0.14	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
4-Methyl-2-pentanone (MIBK)	<0.13		0.24	0.13	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Acetone	<0.35		0.48	0.35	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Benzene	<0.0060		0.012	0.0060	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Bromodichloromethane	<0.028		0.048	0.028	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Bromoform	<0.047		0.048	0.047	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Bromomethane	<0.087		0.15	0.087	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Carbon disulfide	<0.052		0.097	0.052	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Carbon tetrachloride	<0.020		0.048	0.020	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Chlorobenzene	<0.020		0.048	0.020	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Chloroethane	<0.023		0.24	0.023	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Chloroform	<0.045		0.097	0.045	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Chloromethane	<0.038		0.24	0.038	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
cis-1,2-Dichloroethene	<0.020		0.048	0.020	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
1,3-Dichloropropene, Total	<0.031		0.048	0.031	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Dibromochloromethane	<0.040		0.048	0.040	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Ethylbenzene	<0.0083		0.012	0.0083	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Methyl tert-butyl ether	<0.021		0.048	0.021	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Methylene Chloride	<0.10		0.24	0.10	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Styrene	<0.015		0.048	0.015	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Tetrachloroethene	<0.019		0.048	0.019	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Toluene	<0.010		0.012	0.010	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Xylenes, Total	<0.011		0.024	0.011	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
trans-1,2-Dichloroethene	<0.021		0.048	0.021	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Trichloroethene	<0.0072		0.024	0.0072	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50
Vinyl chloride	<0.023	*+	0.048	0.023	mg/Kg	☼	09/09/24 12:30	09/18/24 19:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*	*09/09/24 12:30*	*09/18/24 19:34*	*50*
4-Bromofluorobenzene (Surr)	*115*		*72 - 124*	*09/09/24 12:30*	*09/18/24 19:34*	*50*
Dibromofluoromethane	*96*		*75 - 120*	*09/09/24 12:30*	*09/18/24 19:34*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*09/09/24 12:30*	*09/18/24 19:34*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1.7**		0.071	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Acenaphthylene	**0.86**		0.071	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Anthracene	**1.3**		0.071	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Benzo[a]anthracene	**0.16**		0.071	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Benzo[a]pyrene	<0.069		0.071	0.069	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Benzo[b]fluoranthene	<0.068		0.071	0.068	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Benzo[g,h,i]perylene	<0.015		0.071	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70 (12.5-15)
Lab Sample ID: 500-256423-6
Date Collected: 09/09/24 12:30
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 92.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.027		0.071	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Chrysene	**0.43**		0.071	0.019	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Dibenz(a,h)anthracene	<0.071		0.071	0.071	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Fluoranthene	**0.28**		0.071	0.017	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Fluorene	**3.0**		0.071	0.021	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Indeno[1,2,3-cd]pyrene	<0.070		0.071	0.070	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Naphthalene	**0.60**		0.071	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Phenanthrene	**3.8**		0.071	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Pyrene	**0.86**		0.071	0.019	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2-Methylnaphthalene	**4.3**		0.14	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
2-Nitrophenol	<0.048		0.71	0.048	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
3-Nitroaniline	<0.032		0.71	0.032	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Carbazole	<0.028		0.36	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Dibenzofuran	**2.9**		0.36	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2

Client Sample ID: SB70 (12.5-15)
Lab Sample ID: 500-256423-6
Date Collected: 09/09/24 12:30
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 92.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76		1.4	0.76	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/20/24 07:19	09/20/24 19:19	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*31 - 166*	*09/20/24 07:19*	*09/20/24 19:19*	*2*
Phenol-d5 (Surr)	*66*		*30 - 153*	*09/20/24 07:19*	*09/20/24 19:19*	*2*
Nitrobenzene-d5 (Surr)	*80*		*37 - 147*	*09/20/24 07:19*	*09/20/24 19:19*	*2*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/20/24 07:19*	*09/20/24 19:19*	*2*
2,4,6-Tribromophenol (Surr)	*91*		*31 - 143*	*09/20/24 07:19*	*09/20/24 19:19*	*2*
Terphenyl-d14 (Surr)	*77*		*42 - 157*	*09/20/24 07:19*	*09/20/24 19:19*	*2*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	**300**		39		mg/Kg	☼	09/09/24 12:30	09/12/24 16:54	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*70 - 130*	*09/09/24 12:30*	*09/12/24 16:54*	*2000*
4-Bromofluorobenzene	*107*		*60 - 130*	*09/09/24 12:30*	*09/12/24 16:54*	*2000*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7200**	**F2**	420		mg/Kg	☼	09/13/24 14:08	09/17/24 18:00	50
Oil Range Organics (C28-C36)	**2500**		850		mg/Kg	☼	09/13/24 14:08	09/17/24 18:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*09/13/24 14:08*	*09/17/24 18:00*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*09/13/24 14:08*	*09/17/24 18:00*	*50*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
4,4'-DDE	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
4,4'-DDT	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
Aldrin	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
alpha-BHC	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
alpha-Chlordane	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
beta-BHC	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
Chlordane (technical)	<0.069		0.069		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
delta-BHC	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
Dieldrin	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
Endosulfan I	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
Endosulfan II	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
Endosulfan sulfate	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
Endrin	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
Endrin aldehyde	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10

Client Sample ID: SB70 (12.5-15)
Date Collected: 09/09/24 12:30
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-6
Matrix: Solid
Percent Solids: 92.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
gamma-BHC (Lindane)	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
gamma-Chlordane	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
Heptachlor	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
Heptachlor epoxide	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
Methoxychlor	<0.086		0.086		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10
Toxaphene	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/26/24 18:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*33 - 148*	*09/19/24 07:20*	*09/26/24 18:48*	*10*
Tetrachloro-m-xylene	*171*	*S1+*	*30 - 121*	*09/19/24 07:20*	*09/26/24 18:48*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 13:11	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 13:11	10
PCB-1232	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 13:11	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 13:11	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 13:11	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 13:11	10
PCB-1260	<0.17	*-	0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 13:11	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/19/24 07:20	09/27/24 13:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*49*		*49 - 129*	*09/19/24 07:20*	*09/27/24 13:11*	*10*
DCB Decachlorobiphenyl	*69*		*37 - 121*	*09/19/24 07:20*	*09/27/24 13:11*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2100**		20		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Antimony	<2.0		2.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Arsenic	**5.7**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Barium	**7.8**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Beryllium	**0.45**		0.40		mg/Kg	☼	09/19/24 16:02	09/23/24 20:16	1
Cadmium	<0.20		0.20		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Calcium	**45000**		20		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Chromium	**17**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Cobalt	**4.1**		0.50		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Copper	**7.8**		1.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:16	1
Iron	**29000**		20		mg/Kg	☼	09/19/24 16:02	09/23/24 20:16	1
Lead	**3.6**		0.50		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Magnesium	**27000**	**^2**	10		mg/Kg	☼	09/19/24 16:02	09/23/24 20:16	1
Manganese	**400**	**^2**	1.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:16	1
Nickel	**6.9**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Potassium	**330**		50		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Selenium	**2.3**		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Silver	<0.50		0.50		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Sodium	**140**		100		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Thallium	<1.0		1.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1
Vanadium	**56**		0.50		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70 (12.5-15)
Lab Sample ID: 500-256423-6
Date Collected: 09/09/24 12:30
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 92.1

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	15		2.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017		mg/Kg	☼	09/24/24 18:10	09/25/24 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25		mg/Kg	☼	09/16/24 11:23	09/17/24 10:45	1
Sulfide (SW846 9034)	86		33		mg/Kg	☼	09/16/24 07:29	09/16/24 09:22	1
pH (SW846 9045D)	8.06		0.20		SU			09/13/24 16:08	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70 (17.5-20)
Lab Sample ID: 500-256423-7
Date Collected: 09/09/24 13:09
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 85.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00073		0.0018	0.00073	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
1,1,2,2-Tetrachloroethane	<0.00090	*+	0.0018	0.00090	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
1,1,2-Trichloroethane	<0.00068		0.0018	0.00068	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
1,1-Dichloroethane	<0.00068		0.0018	0.00068	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
1,1-Dichloroethene	<0.00075		0.0018	0.00075	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
1,2-Dichloroethane	<0.0012		0.0045	0.0012	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
2-Hexanone	<0.0028		0.0045	0.0028	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
4-Methyl-2-pentanone (MIBK)	<0.0032		0.0045	0.0032	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Acetone	<0.0076		0.018	0.0076	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Benzene	<0.00057		0.0018	0.00057	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Bromodichloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Bromoform	<0.0011		0.0018	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Bromomethane	<0.0022		0.0045	0.0022	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Carbon disulfide	**0.0033**	**J**	0.0045	0.00083	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Carbon tetrachloride	<0.00062		0.0018	0.00062	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Chlorobenzene	<0.00077		0.0018	0.00077	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Chloroethane	<0.0015		0.0045	0.0015	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Chloroform	<0.0013		0.0018	0.0013	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Chloromethane	<0.00088		0.0045	0.00088	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
cis-1,2-Dichloroethene	<0.00073		0.0018	0.00073	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
1,3-Dichloropropene, Total	<0.00087		0.0018	0.00087	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Dibromochloromethane	<0.00084		0.0018	0.00084	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Ethylbenzene	<0.00095		0.0018	0.00095	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Methyl tert-butyl ether	<0.00059		0.0018	0.00059	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Methylene Chloride	<0.0019		0.0045	0.0019	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Styrene	<0.00082	*+	0.0018	0.00082	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Tetrachloroethene	<0.0010		0.0018	0.0010	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Toluene	**0.00058**	**J**	0.0018	0.00036	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Xylenes, Total	<0.00062		0.0036	0.00062	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
trans-1,2-Dichloroethene	<0.00069		0.0018	0.00069	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Trichloroethene	<0.00049		0.0018	0.00049	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1
Vinyl chloride	<0.00074		0.0018	0.00074	mg/Kg	☼	09/10/24 17:47	09/14/24 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/10/24 17:47*	*09/14/24 02:59*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*09/10/24 17:47*	*09/14/24 02:59*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*09/10/24 17:47*	*09/14/24 02:59*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*09/10/24 17:47*	*09/14/24 02:59*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.015**	**J**	0.038	0.0078	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Acenaphthylene	<0.0065		0.038	0.0065	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Anthracene	**0.016**	**J**	0.038	0.0078	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Benzo[a]anthracene	**0.073**		0.038	0.0081	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Benzo[a]pyrene	**0.086**		0.038	0.037	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Benzo[b]fluoranthene	**0.072**		0.038	0.036	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Benzo[g,h,i]perylene	**0.12**		0.038	0.0083	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70 (17.5-20)
Lab Sample ID: 500-256423-7
Date Collected: 09/09/24 13:09
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 85.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.12**		0.038	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Chrysene	**0.11**		0.038	0.010	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Dibenz(a,h)anthracene	**0.15**		0.038	0.038	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Fluoranthene	**0.013**	**J**	0.038	0.0089	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Fluorene	<0.011		0.038	0.011	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Indeno[1,2,3-cd]pyrene	**0.14**		0.038	0.037	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Naphthalene	<0.0069		0.038	0.0069	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Phenanthrene	<0.0083		0.038	0.0083	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Pyrene	**0.017**	**J**	0.038	0.010	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
1,2-Dichlorobenzene	<0.016		0.19	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2,4,5-Trichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2,4,6-Trichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2,4-Dichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2,4-Dimethylphenol	<0.086		0.38	0.086	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2,4-Dinitrophenol	<0.22		0.77	0.22	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2,4-Dinitrotoluene	<0.022		0.19	0.022	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2-Methylnaphthalene	<0.0077		0.077	0.0077	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2-Nitroaniline	<0.021		0.19	0.021	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
2-Nitrophenol	<0.026		0.38	0.026	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
3 & 4 Methylphenol	<0.028		0.19	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
3-Nitroaniline	<0.017		0.38	0.017	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
4,6-Dinitro-2-methylphenol	<0.22		0.77	0.22	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
4-Chloro-3-methylphenol	<0.015		0.38	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
4-Chloroaniline	<0.40		0.77	0.40	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
4-Chlorophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
4-Nitroaniline	<0.028		0.38	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
4-Nitrophenol	<0.14		0.77	0.14	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Bis(2-chloroethyl)ether	<0.018		0.19	0.018	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Dibenzofuran	<0.014		0.19	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Diethyl phthalate	<0.018		0.19	0.018	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Dimethyl phthalate	<0.0083		0.19	0.0083	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Di-n-octyl phthalate	<0.27		0.38	0.27	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Hexachlorobenzene	<0.0073		0.077	0.0073	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Hexachlorobutadiene	<0.022		0.19	0.022	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70 (17.5-20)
Lab Sample ID: 500-256423-7
Date Collected: 09/09/24 13:09
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 85.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.41		0.77	0.41	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Isophorone	<0.020		0.19	0.020	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Nitrobenzene	<0.012		0.038	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
N-Nitrosodi-n-propylamine	<0.0076		0.077	0.0076	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
N-Nitrosodiphenylamine	<0.023		0.19	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Pentachlorophenol	<0.096		0.77	0.096	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1
Phenol	<0.017		0.19	0.017	mg/Kg	☼	09/20/24 07:19	09/20/24 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*68*		*31 - 166*	*09/20/24 07:19*	*09/20/24 19:44*	*1*
Phenol-d5 (Surr)	*68*		*30 - 153*	*09/20/24 07:19*	*09/20/24 19:44*	*1*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*09/20/24 07:19*	*09/20/24 19:44*	*1*
2-Fluorobiphenyl (Surr)	*65*		*43 - 145*	*09/20/24 07:19*	*09/20/24 19:44*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*31 - 143*	*09/20/24 07:19*	*09/20/24 19:44*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*09/20/24 07:19*	*09/20/24 19:44*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
4,4'-DDE	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
4,4'-DDT	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Aldrin	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
alpha-BHC	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
alpha-Chlordane	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
beta-BHC	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Chlordane (technical)	<0.076		0.076		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
delta-BHC	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Dieldrin	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Endosulfan I	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Endosulfan II	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Endosulfan sulfate	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Endrin	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Endrin aldehyde	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Endrin ketone	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
gamma-BHC (Lindane)	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
gamma-Chlordane	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Heptachlor	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Heptachlor epoxide	<0.019		0.019		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Methoxychlor	<0.094		0.094		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10
Toxaphene	<0.19		0.19		mg/Kg	☼	09/19/24 07:20	09/26/24 18:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*33 - 148*	*09/19/24 07:20*	*09/26/24 18:59*	*10*
Tetrachloro-m-xylene	*28*	*S1-*	*30 - 121*	*09/19/24 07:20*	*09/26/24 18:59*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19	*-	0.19		mg/Kg	☼	09/19/24 07:20	09/27/24 13:26	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/19/24 07:20	09/27/24 13:26	10

Client Sample ID: SB70 (17.5-20)
Date Collected: 09/09/24 13:09
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-7
Matrix: Solid
Percent Solids: 85.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/19/24 07:20	09/27/24 13:26	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/19/24 07:20	09/27/24 13:26	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/19/24 07:20	09/27/24 13:26	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/19/24 07:20	09/27/24 13:26	10
PCB-1260	<0.19	*-	0.19		mg/Kg	☼	09/19/24 07:20	09/27/24 13:26	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/19/24 07:20	09/27/24 13:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*46*	*S1-*	*49 - 129*	*09/19/24 07:20*	*09/27/24 13:26*	*10*
DCB Decachlorobiphenyl	*73*		*37 - 121*	*09/19/24 07:20*	*09/27/24 13:26*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1100**		22		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Antimony	<2.2		2.2		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Arsenic	**3.4**		1.1		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Barium	**3.8**		1.1		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Beryllium	<0.43		0.43		mg/Kg	☼	09/19/24 16:02	09/23/24 20:20	1
Cadmium	<0.22		0.22		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Calcium	**34000**		22		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Chromium	**4.3**		1.1		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Cobalt	**2.5**		0.54		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Copper	**1.9**		1.1		mg/Kg	☼	09/19/24 16:02	09/23/24 20:20	1
Iron	**5200**		22		mg/Kg	☼	09/19/24 16:02	09/23/24 20:20	1
Lead	**2.1**		0.54		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Magnesium	**20000**	**^2**	11		mg/Kg	☼	09/19/24 16:02	09/23/24 20:20	1
Manganese	**160**	**^2**	1.1		mg/Kg	☼	09/19/24 16:02	09/23/24 20:20	1
Nickel	**3.6**		1.1		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Potassium	**210**		54		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Selenium	<1.1		1.1		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Silver	<0.54		0.54		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Sodium	<110		110		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Thallium	<1.1		1.1		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Vanadium	**13**		0.54		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1
Zinc	**15**		2.2		mg/Kg	☼	09/19/24 16:02	09/21/24 01:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019		mg/Kg	☼	09/24/24 18:10	09/25/24 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27		mg/Kg	☼	09/16/24 11:23	09/17/24 10:47	1
pH (SW846 9045D)	**8.67**		0.20		SU			09/13/24 16:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB71 (0-3)
Lab Sample ID: 500-256423-8
Date Collected: 09/09/24 14:30
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 91.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00070		0.0017	0.00070	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
1,1,2,2-Tetrachloroethane	<0.00086	*+	0.0017	0.00086	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
1,1,2-Trichloroethane	<0.00065		0.0017	0.00065	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
1,1-Dichloroethane	<0.00065		0.0017	0.00065	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
1,1-Dichloroethene	<0.00071		0.0017	0.00071	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
1,2-Dichloroethane	<0.0011		0.0043	0.0011	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
2-Butanone (MEK)	**0.0030**	**J**	0.0043	0.0019	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
2-Hexanone	<0.0026		0.0043	0.0026	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
4-Methyl-2-pentanone (MIBK)	<0.0031		0.0043	0.0031	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Acetone	**0.010**	**J**	0.017	0.0073	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Benzene	**0.00074**	**J**	0.0017	0.00054	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Bromodichloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Bromoform	<0.0010		0.0017	0.0010	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Bromomethane	<0.0021		0.0043	0.0021	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Carbon disulfide	**0.0054**		0.0043	0.00080	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Carbon tetrachloride	<0.00059		0.0017	0.00059	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Chlorobenzene	<0.00073		0.0017	0.00073	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Chloroethane	<0.0014		0.0043	0.0014	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Chloroform	<0.0012		0.0017	0.0012	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Chloromethane	<0.00084		0.0043	0.00084	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
cis-1,2-Dichloroethene	<0.00070		0.0017	0.00070	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
1,3-Dichloropropene, Total	<0.00083		0.0017	0.00083	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Dibromochloromethane	<0.00080		0.0017	0.00080	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Ethylbenzene	<0.00091		0.0017	0.00091	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Methyl tert-butyl ether	<0.00056		0.0017	0.00056	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Methylene Chloride	<0.0018		0.0043	0.0018	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Styrene	<0.00078	*+	0.0017	0.00078	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Tetrachloroethene	<0.00097		0.0017	0.00097	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Toluene	**0.00035**	**J**	0.0017	0.00035	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Xylenes, Total	<0.00059		0.0035	0.00059	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
trans-1,2-Dichloroethene	<0.00065		0.0017	0.00065	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Trichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1
Vinyl chloride	<0.00071		0.0017	0.00071	mg/Kg	☼	09/10/24 17:47	09/14/24 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*09/10/24 17:47*	*09/14/24 03:24*	*1*
4-Bromofluorobenzene (Surr)	*123*		*75 - 131*	*09/10/24 17:47*	*09/14/24 03:24*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*09/10/24 17:47*	*09/14/24 03:24*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*	*09/10/24 17:47*	*09/14/24 03:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.10**		0.070	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Acenaphthylene	**0.26**		0.070	0.012	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Anthracene	**0.49**		0.070	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Benzo[a]anthracene	**1.8**		0.070	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Benzo[a]pyrene	**2.2**		0.070	0.068	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Benzo[b]fluoranthene	**3.1**		0.070	0.067	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Benzo[g,h,i]perylene	**1.4**		0.070	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2

Client Sample ID: SB71 (0-3)
Date Collected: 09/09/24 14:30
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-8
Matrix: Solid
Percent Solids: 91.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.2**		0.070	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Chrysene	**1.8**		0.070	0.019	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Dibenz(a,h)anthracene	**0.46**		0.070	0.070	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Fluoranthene	**3.2**		0.070	0.016	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Fluorene	**0.089**		0.070	0.021	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Indeno[1,2,3-cd]pyrene	**1.5**		0.070	0.069	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Naphthalene	**0.12**		0.070	0.013	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Phenanthrene	**1.3**		0.070	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Pyrene	**2.7**		0.070	0.019	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
1,4-Dichlorobenzene	<0.033		0.36	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2,4,5-Trichlorophenol	<0.027		0.70	0.027	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2,4,6-Trichlorophenol	<0.024		0.70	0.024	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2,4-Dichlorophenol	<0.025		0.70	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2,4-Dimethylphenol	<0.16		0.70	0.16	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2,4-Dinitrotoluene	<0.040		0.36	0.040	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2-Chloronaphthalene	<0.026		0.36	0.026	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2-Methylnaphthalene	**0.11**	**J**	0.14	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2-Methylphenol	<0.037		0.36	0.037	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
2-Nitrophenol	<0.048		0.70	0.048	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
3-Nitroaniline	<0.032		0.70	0.032	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
4-Bromophenyl phenyl ether	<0.048		0.36	0.048	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
4-Chloro-3-methylphenol	<0.028		0.70	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
4-Chloroaniline	<0.74		1.4	0.74	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
4-Chlorophenyl phenyl ether	<0.093		0.36	0.093	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
4-Nitroaniline	<0.052		0.70	0.052	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Bis(2-chloroethoxy)methane	<0.026		0.36	0.026	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Butyl benzyl phthalate	<0.035		0.36	0.035	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Carbazole	**0.13**	**J**	0.36	0.028	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Dibenzofuran	**0.10**	**J**	0.36	0.025	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Diethyl phthalate	<0.032		0.36	0.032	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Dimethyl phthalate	<0.015		0.36	0.015	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Di-n-butyl phthalate	<0.022		0.36	0.022	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Di-n-octyl phthalate	<0.49		0.70	0.49	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB71 (0-3)
Lab Sample ID: 500-256423-8
Date Collected: 09/09/24 14:30
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 91.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.75		1.4	0.75	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Hexachloroethane	<0.035		0.36	0.035	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Isophorone	<0.036		0.36	0.036	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Nitrobenzene	<0.022		0.070	0.022	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/20/24 07:19	09/20/24 20:09	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*39*		*31 - 166*	*09/20/24 07:19*	*09/20/24 20:09*	*2*
Phenol-d5 (Surr)	*45*		*30 - 153*	*09/20/24 07:19*	*09/20/24 20:09*	*2*
Nitrobenzene-d5 (Surr)	*41*		*37 - 147*	*09/20/24 07:19*	*09/20/24 20:09*	*2*
2-Fluorobiphenyl (Surr)	*46*		*43 - 145*	*09/20/24 07:19*	*09/20/24 20:09*	*2*
2,4,6-Tribromophenol (Surr)	*34*		*31 - 143*	*09/20/24 07:19*	*09/20/24 20:09*	*2*
Terphenyl-d14 (Surr)	*58*		*42 - 157*	*09/20/24 07:19*	*09/20/24 20:09*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
4,4'-DDE	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
4,4'-DDT	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Aldrin	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
alpha-BHC	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
alpha-Chlordane	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
beta-BHC	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Chlordane (technical)	<0.071		0.071		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
delta-BHC	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Dieldrin	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Endosulfan I	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Endosulfan II	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Endosulfan sulfate	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Endrin	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Endrin aldehyde	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Endrin ketone	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
gamma-BHC (Lindane)	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
gamma-Chlordane	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Heptachlor	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Heptachlor epoxide	<0.018		0.018		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Methoxychlor	<0.088		0.088		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10
Toxaphene	<0.18		0.18		mg/Kg	☼	09/19/24 07:20	09/26/24 19:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*610*	*S1+*	*33 - 148*	*09/19/24 07:20*	*09/26/24 19:11*	*10*
Tetrachloro-m-xylene	*129*	*S1+*	*30 - 121*	*09/19/24 07:20*	*09/26/24 19:11*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.89	*-	0.89		mg/Kg	☼	09/19/24 07:20	09/30/24 12:06	50
PCB-1221	<0.89		0.89		mg/Kg	☼	09/19/24 07:20	09/30/24 12:06	50

Client Sample ID: SB71 (0-3)
Date Collected: 09/09/24 14:30
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-8
Matrix: Solid
Percent Solids: 91.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.89		0.89		mg/Kg	☼	09/19/24 07:20	09/30/24 12:06	50
PCB-1242	<0.89		0.89		mg/Kg	☼	09/19/24 07:20	09/30/24 12:06	50
PCB-1248	<0.89		0.89		mg/Kg	☼	09/19/24 07:20	09/30/24 12:06	50
PCB-1254	**5.0**		0.89		mg/Kg	☼	09/19/24 07:20	09/30/24 12:06	50
PCB-1260	<0.89	*-	0.89		mg/Kg	☼	09/19/24 07:20	09/30/24 12:06	50
Polychlorinated biphenyls, Total	**5.0**		0.89		mg/Kg	☼	09/19/24 07:20	09/30/24 12:06	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/19/24 07:20*	*09/30/24 12:06*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/19/24 07:20*	*09/30/24 12:06*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		20		mg/Kg	☼	09/19/24 16:02	09/21/24 01:31	1
Antimony	<9.9		9.9		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Arsenic	**8.4**		0.99		mg/Kg	☼	09/19/24 16:02	09/21/24 01:31	1
Barium	**170**		0.99		mg/Kg	☼	09/19/24 16:02	09/21/24 01:31	1
Beryllium	**2.6**		2.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Cadmium	**1.0**		0.99		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Calcium	**96000**	**^2**	99		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Chromium	**270**		5.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Cobalt	**7.1**		2.5		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Copper	**81**		5.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Iron	**78000**		99		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Lead	**150**		2.5		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Magnesium	**30000**	**^2**	50		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Manganese	**5700**	**^2**	5.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Nickel	**93**		5.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Potassium	**1100**		50		mg/Kg	☼	09/19/24 16:02	09/21/24 01:31	1
Selenium	<5.0		5.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Silver	<0.50		0.50		mg/Kg	☼	09/19/24 16:02	09/21/24 01:31	1
Sodium	**420**		99		mg/Kg	☼	09/19/24 16:02	09/21/24 01:31	1
Thallium	**9.6**		5.0		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Vanadium	**60**	**^2**	2.5		mg/Kg	☼	09/19/24 16:02	09/23/24 20:25	5
Zinc	**220**		2.0		mg/Kg	☼	09/19/24 16:02	09/21/24 01:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.017		mg/Kg	☼	09/24/24 18:10	09/25/24 09:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**4.5**		0.26		mg/Kg	☼	09/16/24 11:23	09/17/24 10:49	1
pH (SW846 9045D)	**9.48**		0.20		SU			09/13/24 16:13	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 785402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	5035	

Prep Batch: 785417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	5035	
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	5035	
500-256423-3	SB69 (0-3)	Total/NA	Solid	5035	
500-256423-4	SB69 (3-5)	Total/NA	Solid	5035	
500-256423-5	SB70 (0-3)	Total/NA	Solid	5035	
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	5035	
500-256423-8	SB71 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 786041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	8260D	785417
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	8260D	785417
500-256423-3	SB69 (0-3)	Total/NA	Solid	8260D	785417
500-256423-4	SB69 (3-5)	Total/NA	Solid	8260D	785417
500-256423-5	SB70 (0-3)	Total/NA	Solid	8260D	785417
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	8260D	785417
500-256423-8	SB71 (0-3)	Total/NA	Solid	8260D	785417
MB 500-786041/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-786041/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-786041/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 786552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	8260D	785402
MB 500-786552/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-786552/4	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 786986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	3546	
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	3546	
500-256423-3	SB69 (0-3)	Total/NA	Solid	3546	
500-256423-4	SB69 (3-5)	Total/NA	Solid	3546	
500-256423-5	SB70 (0-3)	Total/NA	Solid	3546	
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	3546	
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	3546	
500-256423-8	SB71 (0-3)	Total/NA	Solid	3546	
MB 500-786986/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-786986/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 787029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	8270E	786986
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	8270E	786986
500-256423-3	SB69 (0-3)	Total/NA	Solid	8270E	786986

GC/MS Semi VOA (Continued)

Analysis Batch: 787029 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-4	SB69 (3-5)	Total/NA	Solid	8270E	786986
500-256423-5	SB70 (0-3)	Total/NA	Solid	8270E	786986
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	8270E	786986
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	8270E	786986
500-256423-8	SB71 (0-3)	Total/NA	Solid	8270E	786986

Analysis Batch: 787207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-786986/1-A	Method Blank	Total/NA	Solid	8270E	786986
LCS 500-786986/2-A	Lab Control Sample	Total/NA	Solid	8270E	786986

GC VOA

Prep Batch: 785402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	5035	
500-256423-6 MS	SB70 (12.5-15)	Total/NA	Solid	5035	
500-256423-6 MSD	SB70 (12.5-15)	Total/NA	Solid	5035	

Analysis Batch: 785604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	8015D	785402
MB 500-785604/3	Method Blank	Total/NA	Solid	8015D	
LCS 500-785604/4	Lab Control Sample	Total/NA	Solid	8015D	
500-256423-6 MS	SB70 (12.5-15)	Total/NA	Solid	8015D	785402
500-256423-6 MSD	SB70 (12.5-15)	Total/NA	Solid	8015D	785402

GC Semi VOA

Prep Batch: 785999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	3541	
MB 500-785999/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-785999/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-256423-6 MS	SB70 (12.5-15)	Total/NA	Solid	3541	
500-256423-6 MSD	SB70 (12.5-15)	Total/NA	Solid	3541	

Analysis Batch: 786265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-785999/1-A	Method Blank	Total/NA	Solid	8015D	785999
LCS 500-785999/2-A	Lab Control Sample	Total/NA	Solid	8015D	785999

Analysis Batch: 786429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	8015D	785999
500-256423-6 MS	SB70 (12.5-15)	Total/NA	Solid	8015D	785999
500-256423-6 MSD	SB70 (12.5-15)	Total/NA	Solid	8015D	785999

Prep Batch: 786773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	3541	
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 786773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-3	SB69 (0-3)	Total/NA	Solid	3541	
500-256423-4	SB69 (3-5)	Total/NA	Solid	3541	
500-256423-5	SB70 (0-3)	Total/NA	Solid	3541	
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	3541	
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	3541	
500-256423-8	SB71 (0-3)	Total/NA	Solid	3541	
MB 500-786773/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-786773/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-786773/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 787590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-786773/1-A	Method Blank	Total/NA	Solid	8081B	786773
LCS 500-786773/2-A	Lab Control Sample	Total/NA	Solid	8081B	786773

Analysis Batch: 787803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-786773/1-A	Method Blank	Total/NA	Solid	8082A	786773
LCS 500-786773/3-A	Lab Control Sample	Total/NA	Solid	8082A	786773

Analysis Batch: 787891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	8081B	786773
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	8081B	786773
500-256423-3	SB69 (0-3)	Total/NA	Solid	8081B	786773
500-256423-4	SB69 (3-5)	Total/NA	Solid	8081B	786773
500-256423-5	SB70 (0-3)	Total/NA	Solid	8081B	786773
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	8081B	786773
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	8081B	786773
500-256423-8	SB71 (0-3)	Total/NA	Solid	8081B	786773

Analysis Batch: 788018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	8082A	786773
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	8082A	786773
500-256423-3	SB69 (0-3)	Total/NA	Solid	8082A	786773

Analysis Batch: 788020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-5	SB70 (0-3)	Total/NA	Solid	8082A	786773
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	8082A	786773
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	8082A	786773

Analysis Batch: 788278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-4	SB69 (3-5)	Total/NA	Solid	8082A	786773
500-256423-8	SB71 (0-3)	Total/NA	Solid	8082A	786773

Metals

Prep Batch: 786947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	3050B	
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	3050B	
500-256423-3	SB69 (0-3)	Total/NA	Solid	3050B	
500-256423-4	SB69 (3-5)	Total/NA	Solid	3050B	
500-256423-5	SB70 (0-3)	Total/NA	Solid	3050B	
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	3050B	
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	3050B	
500-256423-8	SB71 (0-3)	Total/NA	Solid	3050B	
MB 500-786947/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-786947/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 500-786947/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 787266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	6010D	786947
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	6010D	786947
500-256423-3	SB69 (0-3)	Total/NA	Solid	6010D	786947
500-256423-4	SB69 (3-5)	Total/NA	Solid	6010D	786947
500-256423-5	SB70 (0-3)	Total/NA	Solid	6010D	786947
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	6010D	786947
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	6010D	786947
500-256423-8	SB71 (0-3)	Total/NA	Solid	6010D	786947
MB 500-786947/1-A	Method Blank	Total/NA	Solid	6010D	786947
LCS 500-786947/2-A	Lab Control Sample	Total/NA	Solid	6010D	786947

Analysis Batch: 787456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	6010D	786947
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	6010D	786947
500-256423-3	SB69 (0-3)	Total/NA	Solid	6010D	786947
500-256423-4	SB69 (3-5)	Total/NA	Solid	6010D	786947
500-256423-5	SB70 (0-3)	Total/NA	Solid	6010D	786947
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	6010D	786947
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	6010D	786947
500-256423-8	SB71 (0-3)	Total/NA	Solid	6010D	786947
MB 500-786947/1-A	Method Blank	Total/NA	Solid	6010D	786947
LCS 500-786947/2-A ^2	Lab Control Sample	Total/NA	Solid	6010D	786947

Prep Batch: 787536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	7471B	
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	7471B	
500-256423-3	SB69 (0-3)	Total/NA	Solid	7471B	
500-256423-4	SB69 (3-5)	Total/NA	Solid	7471B	
500-256423-5	SB70 (0-3)	Total/NA	Solid	7471B	
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	7471B	
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	7471B	
500-256423-8	SB71 (0-3)	Total/NA	Solid	7471B	
MB 500-787536/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-787536/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Metals

Analysis Batch: 787627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	6010D	786947
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	6010D	786947

Analysis Batch: 787702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	7471B	787536
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	7471B	787536
500-256423-3	SB69 (0-3)	Total/NA	Solid	7471B	787536
500-256423-4	SB69 (3-5)	Total/NA	Solid	7471B	787536
500-256423-5	SB70 (0-3)	Total/NA	Solid	7471B	787536
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	7471B	787536
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	7471B	787536
500-256423-8	SB71 (0-3)	Total/NA	Solid	7471B	787536
MB 500-787536/12-A	Method Blank	Total/NA	Solid	7471B	787536
LCS 500-787536/13-A	Lab Control Sample	Total/NA	Solid	7471B	787536

General Chemistry

Prep Batch: 627056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-5	SB70 (0-3)	Total/NA	Solid	9030B	
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	9030B	
MB 240-627056/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-627056/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 627111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-5	SB70 (0-3)	Total/NA	Solid	9034	627056
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	9034	627056
MB 240-627056/1-A	Method Blank	Total/NA	Solid	9034	627056
LCS 240-627056/2-A	Lab Control Sample	Total/NA	Solid	9034	627056

Analysis Batch: 786175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	9045D	
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	9045D	
500-256423-3	SB69 (0-3)	Total/NA	Solid	9045D	
500-256423-4	SB69 (3-5)	Total/NA	Solid	9045D	
500-256423-5	SB70 (0-3)	Total/NA	Solid	9045D	
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	9045D	
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	9045D	
500-256423-8	SB71 (0-3)	Total/NA	Solid	9045D	
LCS 500-786175/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-786175/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-256423-8 DU	SB71 (0-3)	Total/NA	Solid	9045D	

Prep Batch: 786222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	9010C	
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	9010C	
500-256423-3	SB69 (0-3)	Total/NA	Solid	9010C	

General Chemistry (Continued)

Prep Batch: 786222 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-4	SB69 (3-5)	Total/NA	Solid	9010C	
500-256423-5	SB70 (0-3)	Total/NA	Solid	9010C	
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	9010C	
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	9010C	
500-256423-8	SB71 (0-3)	Total/NA	Solid	9010C	
MB 500-786222/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-786222/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256423-3 MS	SB69 (0-3)	Total/NA	Solid	9010C	
500-256423-3 MSD	SB69 (0-3)	Total/NA	Solid	9010C	

Analysis Batch: 786447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	9012B	786222
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	9012B	786222
500-256423-3	SB69 (0-3)	Total/NA	Solid	9012B	786222
500-256423-4	SB69 (3-5)	Total/NA	Solid	9012B	786222
500-256423-5	SB70 (0-3)	Total/NA	Solid	9012B	786222
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	9012B	786222
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	9012B	786222
500-256423-8	SB71 (0-3)	Total/NA	Solid	9012B	786222
MB 500-786222/1-A	Method Blank	Total/NA	Solid	9012B	786222
LCS 500-786222/2-A	Lab Control Sample	Total/NA	Solid	9012B	786222
500-256423-3 MS	SB69 (0-3)	Total/NA	Solid	9012B	786222
500-256423-3 MSD	SB69 (0-3)	Total/NA	Solid	9012B	786222

Analysis Batch: 786661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	Total/NA	Solid	Moisture	
500-256423-2	SB68 (7.5-10)	Total/NA	Solid	Moisture	
500-256423-3	SB69 (0-3)	Total/NA	Solid	Moisture	
500-256423-4	SB69 (3-5)	Total/NA	Solid	Moisture	
500-256423-5	SB70 (0-3)	Total/NA	Solid	Moisture	
500-256423-6	SB70 (12.5-15)	Total/NA	Solid	Moisture	
500-256423-7	SB70 (17.5-20)	Total/NA	Solid	Moisture	
500-256423-8	SB71 (0-3)	Total/NA	Solid	Moisture	
500-256423-7 DU	SB70 (17.5-20)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-256423-1	SB68 (0-3)	97	107	49 S1-	99
500-256423-2	SB68 (7.5-10)	97	108	35 S1-	99
500-256423-3	SB69 (0-3)	96	103	81	100
500-256423-4	SB69 (3-5)	97	108	80	101
500-256423-5	SB70 (0-3)	100	100	98	99
500-256423-7	SB70 (17.5-20)	98	104	100	100
500-256423-8	SB71 (0-3)	104	123	102	109
LCS 500-786041/4	Lab Control Sample	95	93	98	102
LCSD 500-786041/5	Lab Control Sample Dup	97	92	100	99
MB 500-786041/7	Method Blank	102	98	103	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-256423-6	SB70 (12.5-15)	98	115	96	107
LCS 500-786552/4	Lab Control Sample	95	100	99	100
MB 500-786552/7	Method Blank	98	100	102	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256423-1	SB68 (0-3)	15 S1-	39	54	54	0 S1-	68
500-256423-2	SB68 (7.5-10)	9 S1-	34	50	55	0 S1-	72
500-256423-3	SB69 (0-3)	41	51	50	51	8 S1-	73
500-256423-4	SB69 (3-5)	46	53	53	54	7 S1-	63
500-256423-5	SB70 (0-3)	62	65	64	62	77	82
500-256423-6	SB70 (12.5-15)	58	66	80	69	91	77
500-256423-7	SB70 (17.5-20)	68	68	70	65	76	81
500-256423-8	SB71 (0-3)	39	45	41	46	34	58
LCS 500-786986/2-A	Lab Control Sample	79	74	74	78	89	88
MB 500-786986/1-A	Method Blank	71	68	68	71	76	83

Surrogate Legend

2FP = 2-Fluorophenol (Surr)

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-256423-6	SB70 (12.5-15)	100	107
500-256423-6 MS	SB70 (12.5-15)	103	107
500-256423-6 MSD	SB70 (12.5-15)	102	106
LCS 500-785604/4	Lab Control Sample	104	106
MB 500-785604/3	Method Blank	99	106

Surrogate Legend

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-256423-6	SB70 (12.5-15)	0 S1-	0 S1-
500-256423-6 MS	SB70 (12.5-15)	0 S1-	0 S1-
500-256423-6 MSD	SB70 (12.5-15)	0 S1-	0 S1-
LCS 500-785999/2-A	Lab Control Sample	67	66
MB 500-785999/1-A	Method Blank	89	70

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(33-148)	(30-121)
500-256423-1	SB68 (0-3)	128	38
500-256423-2	SB68 (7.5-10)	212 S1+	67
500-256423-5	SB70 (0-3)	92	59
500-256423-7	SB70 (17.5-20)	56	28 S1-
LCS 500-786773/2-A	Lab Control Sample	74	57
MB 500-786773/1-A	Method Blank	97	76

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(33-148)	(30-121)
500-256423-3	SB69 (0-3)	253 S1+	71
500-256423-4	SB69 (3-5)	264 S1+	103
500-256423-6	SB70 (12.5-15)	96	171 S1+
500-256423-8	SB71 (0-3)	610 S1+	129 S1+

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-256423-1	SB68 (0-3)	85	107
500-256423-2	SB68 (7.5-10)	72	120
500-256423-3	SB69 (0-3)	57	50
500-256423-4	SB69 (3-5)	63	90
500-256423-6	SB70 (12.5-15)	49	69
500-256423-8	SB71 (0-3)	0 S1-	0 S1-
LCS 500-786773/3-A	Lab Control Sample	69	130 S1+
MB 500-786773/1-A	Method Blank	59	113

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-256423-5	SB70 (0-3)	58	77
500-256423-7	SB70 (17.5-20)	46 S1-	73

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256423-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-786041/7
Matrix: Solid
Analysis Batch: 786041

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/13/24 23:16	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/13/24 23:16	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/13/24 23:16	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/13/24 23:16	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/13/24 23:16	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/13/24 23:16	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/13/24 23:16	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/13/24 23:16	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/13/24 23:16	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/13/24 23:16	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/13/24 23:16	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/13/24 23:16	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/13/24 23:16	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/13/24 23:16	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/13/24 23:16	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/13/24 23:16	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/13/24 23:16	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/13/24 23:16	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/13/24 23:16	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/13/24 23:16	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/13/24 23:16	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/13/24 23:16	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/13/24 23:16	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/13/24 23:16	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/13/24 23:16	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/13/24 23:16	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/13/24 23:16	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/13/24 23:16	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/13/24 23:16	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/13/24 23:16	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/13/24 23:16	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/13/24 23:16	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/13/24 23:16	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/13/24 23:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*09/13/24 23:16*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*		*09/13/24 23:16*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*09/13/24 23:16*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*		*09/13/24 23:16*	*1*

Lab Sample ID: LCS 500-786041/4
Matrix: Solid
Analysis Batch: 786041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0502		mg/Kg		100	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0571		mg/Kg		114	70 - 122

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256423-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786041/4
Matrix: Solid
Analysis Batch: 786041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0578		mg/Kg		116	70 - 125
1,1-Dichloroethane	0.0500	0.0521		mg/Kg		104	70 - 125
1,1-Dichloroethene	0.0500	0.0516		mg/Kg		103	70 - 120
1,2-Dichloroethane	0.0500	0.0508		mg/Kg		102	70 - 130
1,2-Dichloropropane	0.0500	0.0551		mg/Kg		110	70 - 125
2-Butanone (MEK)	0.0500	0.0601		mg/Kg		120	47 - 138
2-Hexanone	0.0500	0.0645		mg/Kg		129	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0632		mg/Kg		126	50 - 148
Acetone	0.0500	0.0583		mg/Kg		117	40 - 150
Benzene	0.0500	0.0549		mg/Kg		110	70 - 125
Bromodichloromethane	0.0500	0.0555		mg/Kg		111	67 - 129
Bromoform	0.0500	0.0618		mg/Kg		124	68 - 136
Bromomethane	0.0500	0.0507		mg/Kg		101	70 - 130
Carbon disulfide	0.0500	0.0527		mg/Kg		105	70 - 129
Carbon tetrachloride	0.0500	0.0505		mg/Kg		101	75 - 125
Chlorobenzene	0.0500	0.0542		mg/Kg		108	50 - 150
Chloroethane	0.0500	0.0466		mg/Kg		93	75 - 125
Chloroform	0.0500	0.0523		mg/Kg		105	57 - 135
Chloromethane	0.0500	0.0522		mg/Kg		104	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0558		mg/Kg		112	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0568		mg/Kg		114	70 - 125
Dibromochloromethane	0.0500	0.0593		mg/Kg		119	69 - 125
Ethylbenzene	0.0500	0.0554		mg/Kg		111	61 - 136
Methyl tert-butyl ether	0.0500	0.0564		mg/Kg		113	50 - 140
Methylene Chloride	0.0500	0.0488		mg/Kg		98	70 - 126
Styrene	0.0500	0.0603		mg/Kg		121	70 - 125
Tetrachloroethene	0.0500	0.0519		mg/Kg		104	70 - 124
Toluene	0.0500	0.0547		mg/Kg		109	70 - 125
Xylenes, Total	0.100	0.110		mg/Kg		110	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0538		mg/Kg		108	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0556		mg/Kg		111	70 - 125
Trichloroethene	0.0500	0.0521		mg/Kg		104	70 - 125
Vinyl chloride	0.0500	0.0488		mg/Kg		98	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*
Dibromofluoromethane	*98*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 124*

Lab Sample ID: LCSD 500-786041/5
Matrix: Solid
Analysis Batch: 786041

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0546		mg/Kg		109	70 - 128	8	30
1,1,2,2-Tetrachloroethane	0.0500	0.0623	*+	mg/Kg		125	70 - 122	9	30
1,1,2-Trichloroethane	0.0500	0.0602		mg/Kg		120	70 - 125	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-786041/5
Matrix: Solid
Analysis Batch: 786041

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0574		mg/Kg		115	70 - 125	10	30
1,1-Dichloroethene			0.0500	0.0579		mg/Kg		116	70 - 120	11	30
1,2-Dichloroethane			0.0500	0.0546		mg/Kg		109	70 - 130	7	30
1,2-Dichloropropane			0.0500	0.0609		mg/Kg		122	70 - 125	10	30
2-Butanone (MEK)			0.0500	0.0646		mg/Kg		129	47 - 138	7	30
2-Hexanone			0.0500	0.0633		mg/Kg		127	48 - 146	2	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0643		mg/Kg		129	50 - 148	2	30
Acetone			0.0500	0.0592		mg/Kg		118	40 - 150	2	30
Benzene			0.0500	0.0598		mg/Kg		120	70 - 125	8	30
Bromodichloromethane			0.0500	0.0606		mg/Kg		121	67 - 129	9	30
Bromoform			0.0500	0.0660		mg/Kg		132	68 - 136	7	30
Bromomethane			0.0500	0.0548		mg/Kg		110	70 - 130	8	30
Carbon disulfide			0.0500	0.0586		mg/Kg		117	70 - 129	11	30
Carbon tetrachloride			0.0500	0.0551		mg/Kg		110	75 - 125	9	30
Chlorobenzene			0.0500	0.0582		mg/Kg		116	50 - 150	7	30
Chloroethane			0.0500	0.0606		mg/Kg		121	75 - 125	26	30
Chloroform			0.0500	0.0572		mg/Kg		114	57 - 135	9	30
Chloromethane			0.0500	0.0577		mg/Kg		115	70 - 125	10	30
cis-1,2-Dichloroethene			0.0500	0.0607		mg/Kg		121	70 - 125	8	30
cis-1,3-Dichloropropene			0.0500	0.0586		mg/Kg		117	70 - 125	3	30
Dibromochloromethane			0.0500	0.0610		mg/Kg		122	69 - 125	3	30
Ethylbenzene			0.0500	0.0584		mg/Kg		117	61 - 136	5	30
Methyl tert-butyl ether			0.0500	0.0622		mg/Kg		124	50 - 140	10	30
Methylene Chloride			0.0500	0.0526		mg/Kg		105	70 - 126	7	30
Styrene			0.0500	0.0638	*+	mg/Kg		128	70 - 125	6	30
Tetrachloroethene			0.0500	0.0560		mg/Kg		112	70 - 124	8	30
Toluene			0.0500	0.0583		mg/Kg		117	70 - 125	6	30
Xylenes, Total			0.100	0.117		mg/Kg		117	53 - 147	6	30
trans-1,2-Dichloroethene			0.0500	0.0607		mg/Kg		121	70 - 125	12	30
trans-1,3-Dichloropropene			0.0500	0.0595		mg/Kg		119	70 - 125	7	30
Trichloroethene			0.0500	0.0571		mg/Kg		114	70 - 125	9	30
Vinyl chloride			0.0500	0.0518		mg/Kg		104	70 - 125	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*
Dibromofluoromethane	*100*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 124*

Lab Sample ID: MB 500-786552/7
Matrix: Solid
Analysis Batch: 786552

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			09/18/24 11:28	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			09/18/24 11:28	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			09/18/24 11:28	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			09/18/24 11:28	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-786552/7
Matrix: Solid
Analysis Batch: 786552

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			09/18/24 11:28	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			09/18/24 11:28	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			09/18/24 11:28	1
2-Butanone (MEK)	<0.0031		0.0050	0.0031	mg/Kg			09/18/24 11:28	1
2-Hexanone	<0.0029		0.0050	0.0029	mg/Kg			09/18/24 11:28	1
4-Methyl-2-pentanone (MIBK)	<0.0027		0.0050	0.0027	mg/Kg			09/18/24 11:28	1
Acetone	<0.0072		0.010	0.0072	mg/Kg			09/18/24 11:28	1
Benzene	<0.00012		0.00025	0.00012	mg/Kg			09/18/24 11:28	1
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			09/18/24 11:28	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			09/18/24 11:28	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			09/18/24 11:28	1
Carbon disulfide	<0.0011		0.0020	0.0011	mg/Kg			09/18/24 11:28	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			09/18/24 11:28	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			09/18/24 11:28	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			09/18/24 11:28	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			09/18/24 11:28	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			09/18/24 11:28	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			09/18/24 11:28	1
1,3-Dichloropropene, Total	<0.00063		0.0010	0.00063	mg/Kg			09/18/24 11:28	1
Dibromochloromethane	<0.00083		0.0010	0.00083	mg/Kg			09/18/24 11:28	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			09/18/24 11:28	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			09/18/24 11:28	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/18/24 11:28	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			09/18/24 11:28	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			09/18/24 11:28	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			09/18/24 11:28	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			09/18/24 11:28	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			09/18/24 11:28	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			09/18/24 11:28	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			09/18/24 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*09/18/24 11:28*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*09/18/24 11:28*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*09/18/24 11:28*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*09/18/24 11:28*	*1*

Lab Sample ID: LCS 500-786552/4
Matrix: Solid
Analysis Batch: 786552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0516		mg/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0504		mg/Kg		101	62 - 140
1,1,2-Trichloroethane	0.0500	0.0506		mg/Kg		101	71 - 130
1,1-Dichloroethane	0.0500	0.0496		mg/Kg		99	70 - 125
1,1-Dichloroethene	0.0500	0.0525		mg/Kg		105	67 - 122
1,2-Dichloroethane	0.0500	0.0468		mg/Kg		94	68 - 127

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786552/4
Matrix: Solid
Analysis Batch: 786552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0491		mg/Kg		98	67 - 130
2-Butanone (MEK)	0.0500	0.0447		mg/Kg		89	46 - 144
2-Hexanone	0.0500	0.0461		mg/Kg		92	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0489		mg/Kg		98	55 - 139
Acetone	0.0500	0.0407		mg/Kg		81	40 - 143
Benzene	0.0500	0.0480		mg/Kg		96	70 - 120
Bromodichloromethane	0.0500	0.0474		mg/Kg		95	69 - 120
Bromoform	0.0500	0.0493		mg/Kg		99	56 - 132
Bromomethane	0.0500	0.0591		mg/Kg		118	40 - 152
Carbon disulfide	0.0500	0.0521		mg/Kg		104	66 - 120
Carbon tetrachloride	0.0500	0.0526		mg/Kg		105	59 - 133
Chlorobenzene	0.0500	0.0500		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0490		mg/Kg		98	48 - 136
Chloroform	0.0500	0.0468		mg/Kg		94	70 - 120
Chloromethane	0.0500	0.0690		mg/Kg		138	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0472		mg/Kg		94	64 - 127
Dibromochloromethane	0.0500	0.0498		mg/Kg		100	68 - 125
Ethylbenzene	0.0500	0.0475		mg/Kg		95	70 - 123
Methyl tert-butyl ether	0.0500	0.0493		mg/Kg		99	55 - 123
Methylene Chloride	0.0500	0.0503		mg/Kg		101	69 - 125
Styrene	0.0500	0.0501		mg/Kg		100	70 - 120
Tetrachloroethene	0.0500	0.0535		mg/Kg		107	70 - 128
Toluene	0.0500	0.0455		mg/Kg		91	70 - 125
Xylenes, Total	0.100	0.0949		mg/Kg		95	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0527		mg/Kg		105	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0478		mg/Kg		96	62 - 128
Trichloroethene	0.0500	0.0486		mg/Kg		97	70 - 125
Vinyl chloride	0.0500	0.0669	*+	mg/Kg		134	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*
Dibromofluoromethane	*99*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-786986/1-A
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/20/24 07:19	09/23/24 10:29	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786986/1-A
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/20/24 07:19	09/23/24 10:29	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-786986/1-A
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/20/24 07:19	09/23/24 10:29	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/20/24 07:19	09/23/24 10:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*71*		*31 - 166*	*09/20/24 07:19*	*09/23/24 10:29*	*1*
Phenol-d5 (Surr)	*68*		*30 - 153*	*09/20/24 07:19*	*09/23/24 10:29*	*1*
Nitrobenzene-d5 (Surr)	*68*		*37 - 147*	*09/20/24 07:19*	*09/23/24 10:29*	*1*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*	*09/20/24 07:19*	*09/23/24 10:29*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*31 - 143*	*09/20/24 07:19*	*09/23/24 10:29*	*1*
Terphenyl-d14 (Surr)	*83*		*42 - 157*	*09/20/24 07:19*	*09/23/24 10:29*	*1*

Lab Sample ID: LCS 500-786986/2-A
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.63		mg/Kg		79	63 - 109
Acenaphthylene	3.33	2.72		mg/Kg		82	61 - 115
Anthracene	3.33	2.77		mg/Kg		83	68 - 120
Benzo[a]anthracene	3.33	2.75		mg/Kg		83	70 - 121
Benzo[a]pyrene	3.33	3.02		mg/Kg		91	73 - 132
Benzo[b]fluoranthene	3.33	3.12		mg/Kg		94	68 - 123
Benzo[g,h,i]perylene	3.33	3.07		mg/Kg		92	65 - 126
Benzo[k]fluoranthene	3.33	2.91		mg/Kg		87	64 - 128
Chrysene	3.33	2.80		mg/Kg		84	70 - 123
Dibenz(a,h)anthracene	3.33	2.97		mg/Kg		89	66 - 125
Fluoranthene	3.33	2.82		mg/Kg		85	66 - 123
Fluorene	3.33	2.63		mg/Kg		79	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.01		mg/Kg		90	66 - 131
Naphthalene	3.33	2.56		mg/Kg		77	54 - 98
Phenanthrene	3.33	2.76		mg/Kg		83	65 - 115
Pyrene	3.33	2.89		mg/Kg		87	71 - 128
1,2,4-Trichlorobenzene	3.33	2.55		mg/Kg		77	49 - 100
1,2-Dichlorobenzene	3.33	2.39		mg/Kg		72	47 - 94
1,3-Dichlorobenzene	3.33	2.39		mg/Kg		72	47 - 92
1,4-Dichlorobenzene	3.33	2.33		mg/Kg		70	46 - 92
2,4,5-Trichlorophenol	3.33	2.83		mg/Kg		85	48 - 121
2,4,6-Trichlorophenol	3.33	2.79		mg/Kg		84	50 - 121
2,4-Dichlorophenol	3.33	2.65		mg/Kg		79	51 - 109
2,4-Dimethylphenol	3.33	2.84		mg/Kg		85	48 - 93
2,4-Dinitrophenol	6.67	3.49		mg/Kg		52	10 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-786986/2-A
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	3.33	2.91		mg/Kg		87	65 - 120
2,6-Dinitrotoluene	3.33	2.90		mg/Kg		87	66 - 117
2-Chloronaphthalene	3.33	2.60		mg/Kg		78	60 - 107
2-Chlorophenol	3.33	2.55		mg/Kg		76	50 - 102
2-Methylnaphthalene	3.33	2.31		mg/Kg		69	58 - 103
2-Methylphenol	3.33	2.48		mg/Kg		74	50 - 104
2-Nitroaniline	3.33	2.50		mg/Kg		75	61 - 126
2-Nitrophenol	3.33	2.80		mg/Kg		84	41 - 114
3,3'-Dichlorobenzidine	3.33	2.52		mg/Kg		76	36 - 131
3 & 4 Methylphenol	3.33	2.36		mg/Kg		71	49 - 109
3-Nitroaniline	3.33	2.39		mg/Kg		72	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.53		mg/Kg		68	36 - 138
4-Bromophenyl phenyl ether	3.33	2.86		mg/Kg		86	57 - 124
4-Chloro-3-methylphenol	3.33	2.53		mg/Kg		76	57 - 113
4-Chloroaniline	3.33	2.25		mg/Kg		68	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.71		mg/Kg		81	60 - 112
4-Nitroaniline	3.33	2.64		mg/Kg		79	60 - 115
4-Nitrophenol	6.67	4.49		mg/Kg		67	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.43		mg/Kg		73	54 - 102
Bis(2-chloroethyl)ether	3.33	2.40		mg/Kg		72	49 - 99
bis(chloroisopropyl) ether	3.33	2.18		mg/Kg		65	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	2.85		mg/Kg		85	70 - 139
Butyl benzyl phthalate	3.33	2.86		mg/Kg		86	65 - 140
Carbazole	3.33	2.64		mg/Kg		79	68 - 120
Dibenzofuran	3.33	2.56		mg/Kg		77	64 - 112
Diethyl phthalate	3.33	2.61		mg/Kg		78	66 - 115
Dimethyl phthalate	3.33	2.63		mg/Kg		79	65 - 114
Di-n-butyl phthalate	3.33	2.77		mg/Kg		83	69 - 125
Di-n-octyl phthalate	3.33	2.60		mg/Kg		78	61 - 131
Hexachlorobenzene	3.33	2.92		mg/Kg		88	52 - 126
Hexachlorobutadiene	3.33	2.62		mg/Kg		79	42 - 103
Hexachlorocyclopentadiene	3.33	2.93		mg/Kg		88	10 - 100
Hexachloroethane	3.33	2.32		mg/Kg		70	45 - 95
Isophorone	3.33	2.38		mg/Kg		71	47 - 108
Nitrobenzene	3.33	2.57		mg/Kg		77	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.27		mg/Kg		68	48 - 110
N-Nitrosodiphenylamine	3.33	2.64		mg/Kg		79	67 - 112
Pentachlorophenol	6.67	4.80		mg/Kg		72	32 - 128
Phenol	3.33	2.47		mg/Kg		74	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*79*		*31 - 166*
Phenol-d5 (Surr)	*74*		*30 - 153*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*89*		*31 - 143*
Terphenyl-d14 (Surr)	*88*		*42 - 157*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 500-256423-6 MS
Matrix: Solid
Analysis Batch: 785604

Client Sample ID: SB70 (12.5-15)
Prep Type: Total/NA
Prep Batch: 785402

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	300		771	1020		mg/Kg	☼	94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*103*		*70 - 130*
4-Bromofluorobenzene	*107*		*60 - 130*

Lab Sample ID: 500-256423-6 MSD
Matrix: Solid
Analysis Batch: 785604

Client Sample ID: SB70 (12.5-15)
Prep Type: Total/NA
Prep Batch: 785402

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C6-C9)	300		771	1020		mg/Kg	☼	94	70 - 130	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*102*		*70 - 130*
4-Bromofluorobenzene	*106*		*60 - 130*

Lab Sample ID: MB 500-785604/3
Matrix: Solid
Analysis Batch: 785604

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			09/12/24 08:58	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*70 - 130*		*09/12/24 08:58*	*50*
4-Bromofluorobenzene	*106*		*60 - 130*		*09/12/24 08:58*	*50*

Lab Sample ID: LCS 500-785604/4
Matrix: Solid
Analysis Batch: 785604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	19.9	16.8		mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*70 - 130*
4-Bromofluorobenzene	*106*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-785999/1-A
Matrix: Solid
Analysis Batch: 786265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		09/13/24 14:08	09/16/24 17:48	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		09/13/24 14:08	09/16/24 17:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*89*		*50 - 126*	*09/13/24 14:08*	*09/16/24 17:48*	*1*
2-Fluorobiphenyl (Surr)	*70*		*40 - 133*	*09/13/24 14:08*	*09/16/24 17:48*	*1*

Lab Sample ID: LCS 500-785999/2-A
Matrix: Solid
Analysis Batch: 786265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	44.5		mg/Kg		67	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*67*		*50 - 126*
2-Fluorobiphenyl (Surr)	*66*		*40 - 133*

Lab Sample ID: 500-256423-6 MS
Matrix: Solid
Analysis Batch: 786429

Client Sample ID: SB70 (12.5-15)
Prep Type: Total/NA
Prep Batch: 785999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	7200	F2	68.0	6650	4	mg/Kg	☼	-827	60 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*

Lab Sample ID: 500-256423-6 MSD
Matrix: Solid
Analysis Batch: 786429

Client Sample ID: SB70 (12.5-15)
Prep Type: Total/NA
Prep Batch: 785999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	7200	F2	70.0	9280	4 F2	mg/Kg	☼	2953	60 - 125	33	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-786773/1-A
Matrix: Solid
Analysis Batch: 787590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
4,4'-DDE	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
4,4'-DDT	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Aldrin	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
alpha-BHC	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
alpha-Chlordane	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
beta-BHC	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Chlordane (technical)	<0.0067		0.0067		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
delta-BHC	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Dieldrin	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Endosulfan I	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Endosulfan II	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Endosulfan sulfate	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Endrin	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Endrin aldehyde	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Endrin ketone	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
gamma-BHC (Lindane)	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
gamma-Chlordane	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Heptachlor	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Heptachlor epoxide	<0.0017		0.0017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Methoxychlor	<0.0083		0.0083		mg/Kg		09/19/24 07:20	09/25/24 08:39	1
Toxaphene	<0.017		0.017		mg/Kg		09/19/24 07:20	09/25/24 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*33 - 148*	*09/19/24 07:20*	*09/25/24 08:39*	*1*
Tetrachloro-m-xylene	*76*		*30 - 121*	*09/19/24 07:20*	*09/25/24 08:39*	*1*

Lab Sample ID: LCS 500-786773/2-A
Matrix: Solid
Analysis Batch: 787590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0104		mg/Kg		78	47 - 137
4,4'-DDE	0.0133	0.00978		mg/Kg		73	50 - 130
4,4'-DDT	0.0133	0.0112		mg/Kg		84	46 - 143
Aldrin	0.0133	0.00845		mg/Kg		63	52 - 122
alpha-BHC	0.0133	0.00889		mg/Kg		67	50 - 123
beta-BHC	0.0133	0.00977		mg/Kg		73	44 - 140
delta-BHC	0.0133	0.00974		mg/Kg		73	57 - 125
Dieldrin	0.0133	0.00914		mg/Kg		69	51 - 133
Endosulfan I	0.0133	0.00733		mg/Kg		55	30 - 120
Endosulfan II	0.0133	0.00845		mg/Kg		63	30 - 120
Endosulfan sulfate	0.0133	0.0101		mg/Kg		75	42 - 150
Endrin	0.0133	0.0101		mg/Kg		76	43 - 144
Endrin aldehyde	0.0133	0.00936		mg/Kg		70	39 - 131
Endrin ketone	0.0133	0.0105		mg/Kg		78	51 - 135
gamma-BHC (Lindane)	0.0133	0.00858		mg/Kg		64	50 - 122
Heptachlor	0.0133	0.00922		mg/Kg		69	53 - 129

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-786773/2-A
Matrix: Solid
Analysis Batch: 787590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide	0.0133	0.00876		mg/Kg		66	50 - 139
Methoxychlor	0.0133	0.0104		mg/Kg		78	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*74*		*33 - 148*
Tetrachloro-m-xylene	*57*		*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-786773/1-A
Matrix: Solid
Analysis Batch: 787803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
PCB-1221	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
PCB-1232	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
PCB-1242	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
PCB-1248	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
PCB-1254	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
PCB-1260	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/19/24 07:20	09/26/24 12:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/19/24 07:20*	*09/26/24 12:09*	*1*
DCB Decachlorobiphenyl	*113*		*37 - 121*	*09/19/24 07:20*	*09/26/24 12:09*	*1*

Lab Sample ID: LCS 500-786773/3-A
Matrix: Solid
Analysis Batch: 787803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	<0.0066	*-	mg/Kg		0.4	57 - 120
PCB-1260	0.167	<0.0063	*-	mg/Kg		2	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*49 - 129*
DCB Decachlorobiphenyl	*130*	*S1+*	*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-786947/1-A
Matrix: Solid
Analysis Batch: 787266

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Antimony	<2.0		2.0		mg/Kg		09/19/24 16:02	09/20/24 23:44	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-786947/1-A
Matrix: Solid
Analysis Batch: 787266

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.0		1.0		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Barium	<1.0		1.0		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Cadmium	<0.20		0.20		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Calcium	<20		20		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Chromium	<1.0		1.0		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Cobalt	<0.50		0.50		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Iron	<20		20		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Lead	<0.50		0.50		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Manganese	<1.0		1.0		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Nickel	<1.0		1.0		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Potassium	<50		50		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Selenium	<1.0		1.0		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Silver	<0.50		0.50		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Sodium	<100		100		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Thallium	<1.0		1.0		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Vanadium	<0.50		0.50		mg/Kg		09/19/24 16:02	09/20/24 23:44	1
Zinc	<2.0		2.0		mg/Kg		09/19/24 16:02	09/20/24 23:44	1

Lab Sample ID: MB 500-786947/1-A
Matrix: Solid
Analysis Batch: 787456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.40		0.40		mg/Kg		09/19/24 16:02	09/23/24 19:35	1
Copper	<1.0		1.0		mg/Kg		09/19/24 16:02	09/23/24 19:35	1
Magnesium	<10		10		mg/Kg		09/19/24 16:02	09/23/24 19:35	1

Lab Sample ID: LCS 500-786947/2-A
Matrix: Solid
Analysis Batch: 787266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	179		mg/Kg		90	80 - 120
Antimony	50.0	51.1		mg/Kg		102	80 - 120
Arsenic	10.0	10.1		mg/Kg		101	80 - 120
Barium	200	207		mg/Kg		103	80 - 120
Cadmium	5.00	4.96		mg/Kg		99	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Chromium	20.0	20.3		mg/Kg		102	80 - 120
Cobalt	50.0	50.3		mg/Kg		101	80 - 120
Iron	100	80.5		mg/Kg		80	80 - 120
Lead	10.0	10.3		mg/Kg		103	80 - 120
Manganese	50.0	52.5		mg/Kg		105	80 - 120
Nickel	50.0	51.0		mg/Kg		102	80 - 120
Potassium	1000	860		mg/Kg		86	80 - 120
Selenium	10.0	10.1		mg/Kg		101	80 - 120
Silver	5.00	4.54		mg/Kg		91	80 - 120
Sodium	1000	891		mg/Kg		89	80 - 120
Thallium	10.0	10.4		mg/Kg		104	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-786947/2-A
Matrix: Solid
Analysis Batch: 787266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	50.0	50.3		mg/Kg		101	80 - 120
Zinc	50.0	50.8		mg/Kg		102	80 - 120

Lab Sample ID: LCS 500-786947/2-A ^2
Matrix: Solid
Analysis Batch: 787456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	5.00	5.06		mg/Kg		101	80 - 120
Copper	25.0	28.2		mg/Kg		113	80 - 120
Magnesium	1000	1080		mg/Kg		108	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-787536/12-A
Matrix: Solid
Analysis Batch: 787702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/24/24 18:10	09/25/24 08:56	1

Lab Sample ID: LCS 500-787536/13-A
Matrix: Solid
Analysis Batch: 787702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.156		mg/Kg		93	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-786222/1-A
Matrix: Solid
Analysis Batch: 786447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786222

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/16/24 11:23	09/17/24 10:01	1

Lab Sample ID: LCS 500-786222/2-A
Matrix: Solid
Analysis Batch: 786447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.41		mg/Kg		100	85 - 115

Lab Sample ID: 500-256423-3 MS
Matrix: Solid
Analysis Batch: 786447

Client Sample ID: SB69 (0-3)
Prep Type: Total/NA
Prep Batch: 786222

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	3.3	F1 F2	2.56	6.45		mg/Kg	☼	125	75 - 125

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 500-256423-3 MSD
Matrix: Solid
Analysis Batch: 786447

Client Sample ID: SB69 (0-3)
Prep Type: Total/NA
Prep Batch: 786222

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	3.3	F1 F2	2.65	9.95	F1 F2	mg/Kg	☼	253	75 - 125	43	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-627056/1-A
Matrix: Solid
Analysis Batch: 627111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 627056

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/16/24 07:29	09/16/24 09:22	1

Lab Sample ID: LCS 240-627056/2-A
Matrix: Solid
Analysis Batch: 627111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627056

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	80.3	87.0		mg/Kg		108	56 - 120

Method: 9045D - pH

Lab Sample ID: 500-256423-8 DU
Matrix: Solid
Analysis Batch: 786175

Client Sample ID: SB71 (0-3)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.48		9.26		SU		2	5

Client Sample ID: SB68 (0-3)
Lab Sample ID: 500-256423-1

Date Collected: 09/09/24 08:42
Matrix: Solid
Date Received: 09/10/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786175	ST	EET CHI	09/13/24 15:53
Total/NA	Analysis	Moisture		1	786661	DG	EET CHI	09/18/24 13:18

Client Sample ID: SB68 (0-3)
Lab Sample ID: 500-256423-1

Date Collected: 09/09/24 08:42
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785417		EET CHI	09/10/24 17:47
Total/NA	Analysis	8260D		1	786041	W1T	EET CHI	09/14/24 00:55
Total/NA	Prep	3546			786986	OP	EET CHI	09/20/24 07:19
Total/NA	Analysis	8270E		2	787029	H7CM	EET CHI	09/20/24 17:14
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 17:49
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	788018	SB	EET CHI	09/27/24 10:55
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		20	787627	SJ	EET CHI	09/24/24 18:00
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 19:44
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		1	787266	SJ	EET CHI	09/21/24 00:51
Total/NA	Prep	7471B			787536	MJG	EET CHI	09/24/24 18:10
Total/NA	Analysis	7471B		1	787702	MJG	EET CHI	09/25/24 09:00
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	786447	AC	EET CHI	09/17/24 10:08

Client Sample ID: SB68 (7.5-10)
Lab Sample ID: 500-256423-2

Date Collected: 09/09/24 08:57
Matrix: Solid
Date Received: 09/10/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786175	ST	EET CHI	09/13/24 15:56
Total/NA	Analysis	Moisture		1	786661	DG	EET CHI	09/18/24 13:18

Client Sample ID: SB68 (7.5-10)
Lab Sample ID: 500-256423-2

Date Collected: 09/09/24 08:57
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785417		EET CHI	09/10/24 17:47
Total/NA	Analysis	8260D		1	786041	W1T	EET CHI	09/14/24 01:20
Total/NA	Prep	3546			786986	OP	EET CHI	09/20/24 07:19
Total/NA	Analysis	8270E		2	787029	H7CM	EET CHI	09/20/24 17:39

Client Sample ID: SB68 (7.5-10)
Date Collected: 09/09/24 08:57
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-2
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 18:01
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	788018	SB	EET CHI	09/27/24 11:10
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		20	787627	SJ	EET CHI	09/24/24 18:04
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 19:48
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		1	787266	SJ	EET CHI	09/21/24 00:55
Total/NA	Prep	7471B			787536	MJG	EET CHI	09/24/24 18:10
Total/NA	Analysis	7471B		1	787702	MJG	EET CHI	09/25/24 09:02
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		5	786447	AC	EET CHI	09/17/24 11:14

Client Sample ID: SB69 (0-3)
Date Collected: 09/09/24 10:04
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786175	ST	EET CHI	09/13/24 16:01
Total/NA	Analysis	Moisture		1	786661	DG	EET CHI	09/18/24 13:18

Client Sample ID: SB69 (0-3)
Date Collected: 09/09/24 10:04
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-3
Matrix: Solid
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785417		EET CHI	09/10/24 17:47
Total/NA	Analysis	8260D		1	786041	W1T	EET CHI	09/14/24 01:45
Total/NA	Prep	3546			786986	OP	EET CHI	09/20/24 07:19
Total/NA	Analysis	8270E		2	787029	H7CM	EET CHI	09/20/24 18:04
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 18:13
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	788018	SB	EET CHI	09/27/24 11:25
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 20:02
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		1	787266	SJ	EET CHI	09/21/24 00:59
Total/NA	Prep	7471B			787536	MJG	EET CHI	09/24/24 18:10
Total/NA	Analysis	7471B		1	787702	MJG	EET CHI	09/25/24 09:04
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	786447	AC	EET CHI	09/17/24 10:12

Client Sample ID: SB69 (3-5)
Lab Sample ID: 500-256423-4
Date Collected: 09/09/24 10:10
Matrix: Solid
Date Received: 09/10/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786175	ST	EET CHI	09/13/24 16:03
Total/NA	Analysis	Moisture		1	786661	DG	EET CHI	09/18/24 13:18

Client Sample ID: SB69 (3-5)
Lab Sample ID: 500-256423-4
Date Collected: 09/09/24 10:10
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785417		EET CHI	09/10/24 17:47
Total/NA	Analysis	8260D		1	786041	W1T	EET CHI	09/14/24 02:10
Total/NA	Prep	3546			786986	OP	EET CHI	09/20/24 07:19
Total/NA	Analysis	8270E		2	787029	H7CM	EET CHI	09/20/24 18:29
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 18:24
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	788278	SB	EET CHI	09/30/24 11:51
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 20:06
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		1	787266	SJ	EET CHI	09/21/24 01:04
Total/NA	Prep	7471B			787536	MJG	EET CHI	09/24/24 18:10
Total/NA	Analysis	7471B		1	787702	MJG	EET CHI	09/25/24 09:06
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	786447	AC	EET CHI	09/17/24 10:18

Client Sample ID: SB70 (0-3)
Lab Sample ID: 500-256423-5
Date Collected: 09/09/24 11:58
Matrix: Solid
Date Received: 09/10/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786175	ST	EET CHI	09/13/24 16:06
Total/NA	Analysis	Moisture		1	786661	DG	EET CHI	09/18/24 13:18

Client Sample ID: SB70 (0-3)
Lab Sample ID: 500-256423-5
Date Collected: 09/09/24 11:58
Matrix: Solid
Date Received: 09/10/24 11:05
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785417		EET CHI	09/10/24 17:47
Total/NA	Analysis	8260D		1	786041	W1T	EET CHI	09/14/24 02:35
Total/NA	Prep	3546			786986	OP	EET CHI	09/20/24 07:19
Total/NA	Analysis	8270E		1	787029	H7CM	EET CHI	09/20/24 18:54
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 18:36

Client Sample ID: SB70 (0-3)

Lab Sample ID: 500-256423-5

Date Collected: 09/09/24 11:58

Matrix: Solid

Date Received: 09/10/24 11:05

Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 12:55
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		1	787456	DAJ	EET CHI	09/23/24 20:11
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		1	787266	SJ	EET CHI	09/21/24 01:09
Total/NA	Prep	7471B			787536	MJG	EET CHI	09/24/24 18:10
Total/NA	Analysis	7471B		1	787702	MJG	EET CHI	09/25/24 09:08
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	786447	AC	EET CHI	09/17/24 10:44
Total/NA	Prep	9030B			627056	BLW	EET CLE	09/16/24 07:29
Total/NA	Analysis	9034		1	627111	BLW	EET CLE	09/16/24 09:22

Client Sample ID: SB70 (12.5-15)

Lab Sample ID: 500-256423-6

Date Collected: 09/09/24 12:30

Matrix: Solid

Date Received: 09/10/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786175	ST	EET CHI	09/13/24 16:08
Total/NA	Analysis	Moisture		1	786661	DG	EET CHI	09/18/24 13:18

Client Sample ID: SB70 (12.5-15)

Lab Sample ID: 500-256423-6

Date Collected: 09/09/24 12:30

Matrix: Solid

Date Received: 09/10/24 11:05

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785402		EET CHI	09/09/24 12:30
Total/NA	Analysis	8260D		50	786552	W1T	EET CHI	09/18/24 19:34
Total/NA	Prep	3546			786986	OP	EET CHI	09/20/24 07:19
Total/NA	Analysis	8270E		2	787029	H7CM	EET CHI	09/20/24 19:19
Total/NA	Prep	5035			785402		EET CHI	09/09/24 12:30
Total/NA	Analysis	8015D		2000	785604	WRE	EET CHI	09/12/24 16:54
Total/NA	Prep	3541			785999	SV	EET CHI	09/13/24 14:08 - 09/13/24 20:23 [1]
Total/NA	Analysis	8015D		50	786429	H7CM	EET CHI	09/17/24 18:00
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 18:48
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 13:11
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		1	787456	DAJ	EET CHI	09/23/24 20:16
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		1	787266	SJ	EET CHI	09/21/24 01:13
Total/NA	Prep	7471B			787536	MJG	EET CHI	09/24/24 18:10
Total/NA	Analysis	7471B		1	787702	MJG	EET CHI	09/25/24 09:11

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256423-1

Client Sample ID: SB70 (12.5-15)
Date Collected: 09/09/24 12:30
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-6
Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	786447	AC	EET CHI	09/17/24 10:45
Total/NA	Prep	9030B			627056	BLW	EET CLE	09/16/24 07:29
Total/NA	Analysis	9034		1	627111	BLW	EET CLE	09/16/24 09:22

Client Sample ID: SB70 (17.5-20)
Date Collected: 09/09/24 13:09
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786175	ST	EET CHI	09/13/24 16:10
Total/NA	Analysis	Moisture		1	786661	DG	EET CHI	09/18/24 13:18

Client Sample ID: SB70 (17.5-20)
Date Collected: 09/09/24 13:09
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-7
Matrix: Solid
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785417		EET CHI	09/10/24 17:47
Total/NA	Analysis	8260D		1	786041	W1T	EET CHI	09/14/24 02:59
Total/NA	Prep	3546			786986	OP	EET CHI	09/20/24 07:19
Total/NA	Analysis	8270E		1	787029	H7CM	EET CHI	09/20/24 19:44
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 18:59
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 13:26
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		1	787456	DAJ	EET CHI	09/23/24 20:20
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		1	787266	SJ	EET CHI	09/21/24 01:17
Total/NA	Prep	7471B			787536	MJG	EET CHI	09/24/24 18:10
Total/NA	Analysis	7471B		1	787702	MJG	EET CHI	09/25/24 09:12
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	786447	AC	EET CHI	09/17/24 10:47

Client Sample ID: SB71 (0-3)
Date Collected: 09/09/24 14:30
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786175	ST	EET CHI	09/13/24 16:13
Total/NA	Analysis	Moisture		1	786661	DG	EET CHI	09/18/24 13:18

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB71 (0-3)
Date Collected: 09/09/24 14:30
Date Received: 09/10/24 11:05

Lab Sample ID: 500-256423-8
Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785417		EET CHI	09/10/24 17:47
Total/NA	Analysis	8260D		1	786041	W1T	EET CHI	09/14/24 03:24
Total/NA	Prep	3546			786986	OP	EET CHI	09/20/24 07:19
Total/NA	Analysis	8270E		2	787029	H7CM	EET CHI	09/20/24 20:09
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8081B		10	787891	SB	EET CHI	09/26/24 19:11
Total/NA	Prep	3541			786773	FRG	EET CHI	09/19/24 07:20 - 09/19/24 12:00 [1]
Total/NA	Analysis	8082A		50	788278	SB	EET CHI	09/30/24 12:06
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		5	787456	DAJ	EET CHI	09/23/24 20:25
Total/NA	Prep	3050B			786947	S1Z	EET CHI	09/19/24 16:02 - 09/19/24 21:02 [1]
Total/NA	Analysis	6010D		1	787266	SJ	EET CHI	09/21/24 01:31
Total/NA	Prep	7471B			787536	MJG	EET CHI	09/24/24 18:10
Total/NA	Analysis	7471B		1	787702	MJG	EET CHI	09/25/24 09:19
Total/NA	Prep	9010C			786222	AC	EET CHI	09/16/24 11:23 - 09/16/24 11:53 [1]
Total/NA	Analysis	9012B		1	786447	AC	EET CHI	09/17/24 10:49

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	10-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record

670136

eurofins | Environment Testing America

Address _____

Regulatory Program: ☑ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact:	Date:	COC No
Company Name: PIONEER	Tel/Email: JHARTSOCK@PIONEERPROS	Lab Contact:	Carrier:	1 of ____ COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below ____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name: 8080 S Lakeshore Dr	☐ 1 week			
Site	☐ 2 days			Job / SDG No
P O # 24-0124-103	☐ 1 day			500-256423

500-256423 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL	PH	TPH	Sample Specific Notes
1	SB68 (0-3)	9/9/24	842	G	SO	4			X	X		
2	SB68 (7.5-10)		857									
3	SB69 (0-3)		1004									
4	SB69 (3-5)		1010									
5	SB70 (0-3)		1158									
6	SB70 (12.5-15)		1230								X	
7	SB70 (17.5-20)		109									
8	SB71 (0-3)		230									
9	~~SB71 ( )~~											

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 1.1 Corr'd 1.0 Therm ID No _____

Relinquished by:	Company	Date/Time	Received by:	Company	Date/Time
[signature]	PIONEER	9/10/24	[signature]	EETA	8TH 9/10/24 0950
[signature]	EETA 9/10/24	1105			
			Received in Laboratory by: [signature]	EETA	9/10/24 1105

3/11/2025 (Rev. 2)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

0.4 | 1.4

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192486.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256423-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 9/23/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Emai	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note: E005
			Preservation Code:						
SB70 (0-3) (500-256423-5)	9/9/24	11.58 Central	G	Solid			X	1	
SB70 (12.5-15) (500-256423-6)	9/9/24	12.30 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin isted above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Daniel Kruskovsky	9/11/24 15:45	EET	JESSICA RIGDON	9.12 24 0915	EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

3/11/2025 (Rev. 2)

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # : 21142** JMD 6-12-24
Barberton Facility

Client Eurofins – CHI Site Name

Cooler unpacked by: JESSICA RIGDON

Cooler Received on 6-12-24 Opened on 6-12-24

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used. (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 19 (CF +1.0 °C) Observed Cooler Temp. 0.4 °C Corrected Cooler Temp. 1.4 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes) No	**Tests that are not checked for pH by Receiving:**
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No NA	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	**VOAs**
-Were tamper/custody seals intact and uncompromised?	(Yes) No NA	**Oil and Grease**
3 Shippers' packing slip attached to the cooler(s)?	(Yes) No	**TOC**
4. Did custody papers accompany the sample(s)?	(Yes) No	
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No	
9 For each sample, does the COC specify preservatives (Y(N)) # of containers (Y(N)), and sample type of grab/comp(Y(N))?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12. Are these work share samples and all listed on the COC?	(Yes) No	
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA	pH Strip Lot# HC442471
14. Were VOAs on the COC?	Yes No	
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes No NA	
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No	
17 Was a LL Hg or Me Hg trip blank present?	Yes No	

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen.

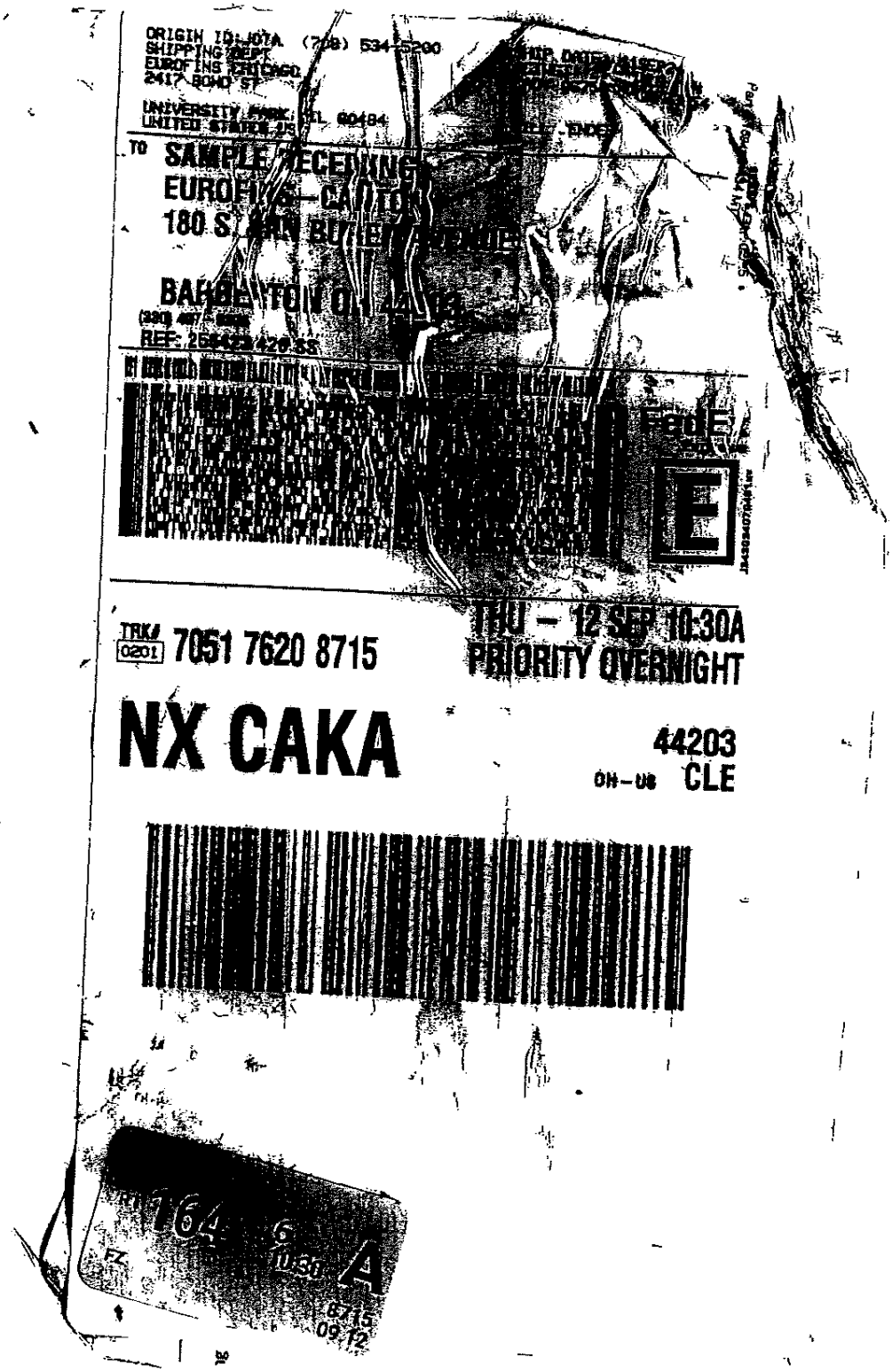
ORIGIN ID: JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS - CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203
(330) 497-9396
REF: 256423420 SS

FedEx

E

TRK# 0201 7051 7620 8715



THU - 12 SEP 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US CLE

164 6
FZ 10:30 A
8715
09 12

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

3.2
3.3

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193733.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256423-2
Address: 180 S. Van Buren Avenue	Due Date Requested: 10/17/2024			Preservation Codes.
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

EOS4

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M (MOD) a) 1 element, including prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB69 (3-5) (500-256423-4)	9/9/24	10:10 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hemandez	10/11/24 1100		KATHARINE MARTIN	10/12/24 920	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler Received on 10/12/24 Opened on 10/12/24

Cooler unpacked by: ICM

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt [X] See Multiple Cooler Form

IR GUN # 17 (CF +0.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12 Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved. Preservative(s) added/Lot number(s)

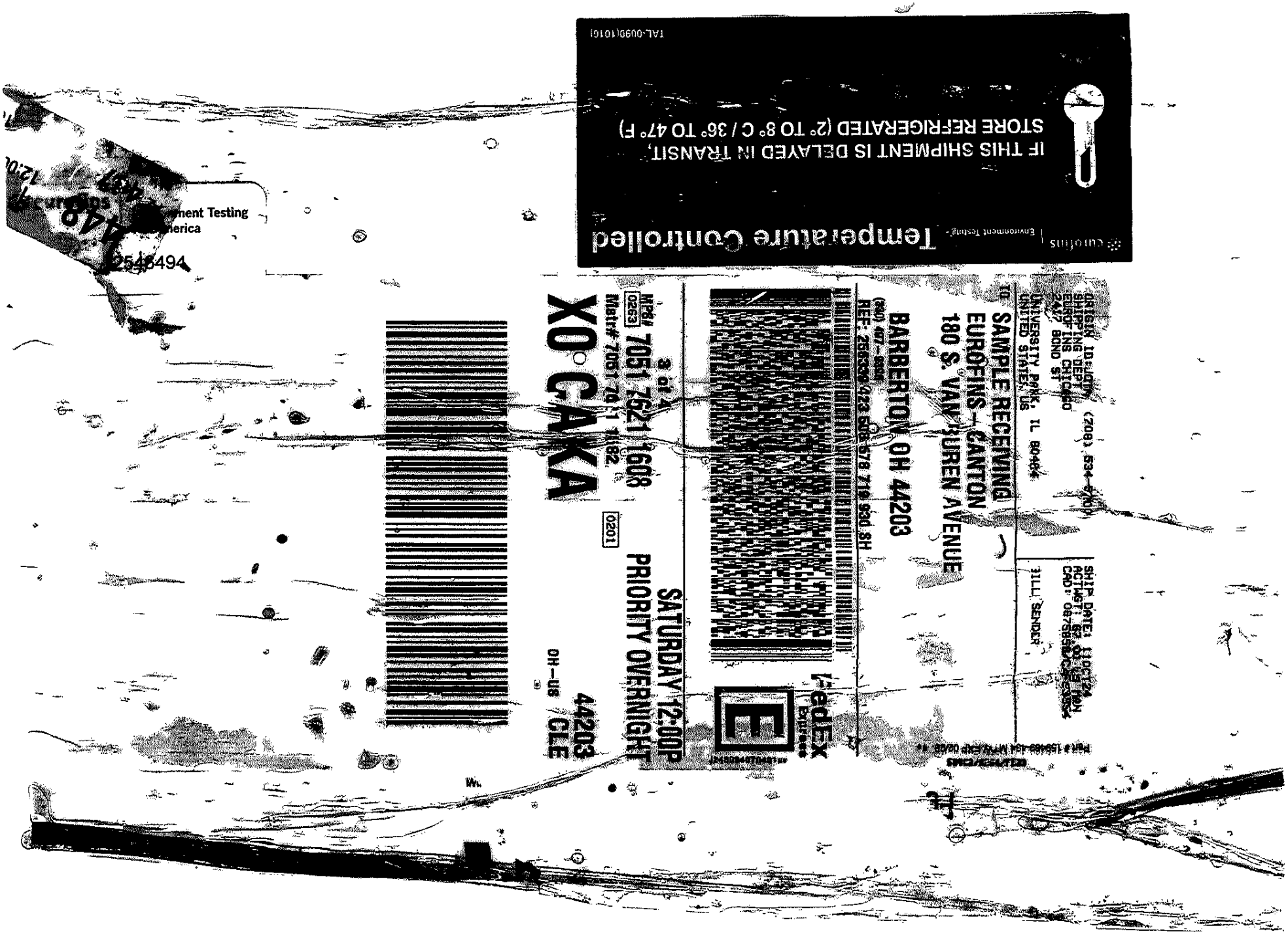
VOA Sample Preservation - Date/Time VOAs Frozen.

Login # : _____

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: _____	2.9	3.0	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form


Temperature Controlled
IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)
TAL-0090(1010)
ORIGIN ID:JOTA (708) 534-5700
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES, US
SHIP DATE: 11OCT24
ACTWGT: 67.00 LB MAN
CAD: 0675858/CAFE3854
BILL SENDER
TO SAMPLE RECEIVING
EUROFINS - CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203
(330) 497-9595
REF: 256339 423 508 578 719 930 SH
FedEx Express
3 of 4
MPS# 7051 7621 1608
0263
Mstr# 7051 7621 1182
0201
XO CAKA
SATURDAY 12:00P
PRIORITY OVERNIGHT
44203
OH-US
CLE
Environment Testing
America
2546494

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256423-1

Login Number: 256423
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 9:55:03 AM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256508-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 9:55:03 AM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256508-1 — Eurofins Chicago

Job Narrative
500-256508-1

Revision
The report being provided is a revision of the original report sent on 10/8/2024. The report (revision 2) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 12/11/2024 - Reason - The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/11/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

Receipt Exceptions

Sample #5 and #6-Client labels containers with paper label and writes on lids. For samples SB74 paper label and lid have different depths (paper label list (0-3) and lids list (3-5) and vice versa for other set). Matched and logged per client paper label not per sample IDs on lids.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit for SPLP Berylium: SB76 (7.5-10) (500-256508-10). The continuing calibration blanks and method blanks may not support the lower PQL.

GC/MS VOA
Method 8260D: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: SB72 (0-3) (500-256508-1), SB73 (0-3) (500-256508-3), SB73 (5-7.5) (500-256508-4), SB74 (0-3) (500-256508-5) and SB74 (3-5) (500-256508-6). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantitated with this internal standard.

Method 8260D: The laboratory control sample (LCS) for preparation batch 500-785629 and 500-785630 and analytical batch 500-786103 recovered outside control limits for the following analytes: Styrene and 1,1,2,2-Tetrachloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.SB72 (7.5-10) (500-256508-2), SB73 (0-3) (500-256508-3), SB75 (0-3) (500-256508-7), SB75 (5-7.5) (500-256508-8), SB76 (0-3) (500-256508-9), SB76 (7.5-10) (500-256508-10), SB77 (0-3) (500-256508-11), SB77 (5-7.5) (500-256508-12), SB78 (0-3) (500-256508-13), SB78 (10-12.5) (500-256508-14), SB79 (0-3) (500-256508-15), SB79 (5-7.5) (500-256508-16), SB80 (0-3) (500-256508-17) and SB80 (3-5) (500-256508-18)

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-785629 and 500-785630 and analytical batch 500-786103 recovered outside control limits for the following analytes: Acetone. SB72 (7.5-10) (500-256508-2), SB73 (0-3) (500-256508-3), SB75 (0-3) (500-256508-7), SB75 (5-7.5) (500-256508-8), SB76 (0-3) (500-256508-9), SB76 (7.5-10) (500-256508-10), SB77 (0-3) (500-256508-11), SB77 (5-7.5) (500-256508-12), SB78 (0-3) (500-256508-13), SB78 (10-12.5) (500-256508-14), SB79 (0-3) (500-256508-15), SB79 (5-7.5) (500-256508-16), SB80 (0-3) (500-256508-17) and SB80 (3-5) (500-256508-18)

Method 8260D: Surrogate recovery for the following samples were outside the upper control limit: SB72 (0-3) (500-256508-1), SB73 (0-3) (500-256508-3) and SB75 (5-7.5) (500-256508-8). This sample did not contain any target analytes above the reporting limit; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Surrogate recovery for the following samples were outside control limits: SB75 (0-3) (500-256508-7) and SB75 (5-7.5) (500-256508-8). Evidence of matrix interference is present (high sample pH); therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The following sample was diluted due to the nature of the sample matrix: SB80 (0-3) (500-256508-17). Elevated reporting limits (RLs) are provided.

Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-787085 and analytical batch 500-787207 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected

because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB75 (0-3) (500-256508-7), SB76 (0-3) (500-256508-9), SB76 (7.5-10) (500-256508-10), SB77 (5-7.5) (500-256508-12), SB78 (10-12.5) (500-256508-14) and SB79 (5-7.5) (500-256508-16). These results have been reported and qualified.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-787446 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: SB75 (5-7.5) (500-256508-8). Elevated reporting limits (RLs) are provided.

Method 8270E: Surrogate 2,4,6-Tribromophenol (Surr) recovery for the following sample was outside control limits: SB75 (5-7.5) (500-256508-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8082A: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-788018/3). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB79 (0-3) (500-256508-15) and SB79 (5-7.5) (500-256508-16). Elevated reporting limits (RLs) are provided.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB79 (5-7.5) (500-256508-16). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-788189/3). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: SB78 (10-12.5) (500-256508-14). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate Tetrachloro-m-xylene is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-788020/3). Surrogate DCB Decachlorobiphenyl is within acceptable limits; therefore, re-analysis was not performed.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB72 (0-3) (500-256508-1), SB72 (7.5-10) (500-256508-2), SB73 (0-3) (500-256508-3), SB73 (5-7.5) (500-256508-4), SB74 (0-3) (500-256508-5), SB74 (3-5) (500-256508-6), SB75 (0-3) (500-256508-7), SB76 (7.5-10) (500-256508-10), SB77 (0-3) (500-256508-11), SB77 (5-7.5) (500-256508-12), SB78 (0-3) (500-256508-13), (500-256508-D-1-K MS) and (500-256508-D-1-L MSD). Elevated reporting limits (RLs) are provided.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples were outside control limits: SB72 (0-3) (500-256508-1), SB72 (7.5-10) (500-256508-2), SB73 (0-3) (500-256508-3), SB73 (5-7.5) (500-256508-4), SB74 (0-3) (500-256508-5), SB74 (3-5) (500-256508-6), SB75 (0-3) (500-256508-7), SB76 (7.5-10) (500-256508-10), SB77 (0-3) (500-256508-11), SB77 (5-7.5) (500-256508-12), SB78 (0-3) (500-256508-13), (500-256508-D-1-K MS) and (500-256508-D-1-L MSD). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside control limits: (LCS 500-787109/3-A). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: SB75 (5-7.5) (500-256508-8). Elevated reporting limits (RLs) are provided.

Job ID: 500-256508-1 (Continued) Eurofins Chicago

Method 8082A: The following sample required a dilution due to the nature of the sample matrix: SB80 (0-3) (500-256508-17). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082A: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-788278/3). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: SB72 (0-3) (500-256508-1) and (500-256508-D-1-I MS). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB77 (0-3) (500-256508-11). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Surrogate recovery for the following sample was outside the upper control limit: SB74 (3-5) (500-256508-6). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB72 (0-3) (500-256508-1), SB72 (7.5-10) (500-256508-2), SB73 (0-3) (500-256508-3), SB73 (5-7.5) (500-256508-4), SB74 (0-3) (500-256508-5), SB74 (3-5) (500-256508-6), SB75 (0-3) (500-256508-7), SB75 (5-7.5) (500-256508-8), SB76 (0-3) (500-256508-9), SB76 (7.5-10) (500-256508-10), SB77 (0-3) (500-256508-11), SB77 (5-7.5) (500-256508-12), SB78 (0-3) (500-256508-13), SB78 (10-12.5) (500-256508-14), SB79 (0-3) (500-256508-15), SB79 (5-7.5) (500-256508-16), SB80 (0-3) (500-256508-17), (500-256508-D-1-I MS) and (500-256508-D-1-J MSD).

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB80 (3-5) (500-256508-18), (500-256508-D-18-F MS) and (500-256508-D-18-G MSD). Elevated reporting limits (RLs) are provided.

Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB80 (3-5) (500-256508-18) and (500-256508-D-18-F MS). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-787109 and analytical batch 500-788691 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010D: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB74 (3-5) (500-256508-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 9045D: Associated Continuing Calibration Verification was slightly above the 0.1 pH unit acceptance limit.

SB74 (3-5) (500-256508-6), SB75 (0-3) (500-256508-7), SB75 (5-7.5) (500-256508-8), SB76 (0-3) (500-256508-9), SB76 (7.5-10) (500-256508-10), SB77 (0-3) (500-256508-11), SB77 (5-7.5) (500-256508-12), SB78 (0-3) (500-256508-13), SB78 (10-12.5) (500-256508-14), SB79 (0-3) (500-256508-15) and (500-256508-D-6 DU)

Method 9045D: The following pH samples were analyzed outside of analytical holding time due to the samples were overlooked on the backlog: SB79 (5-7.5) (500-256508-16), SB80 (0-3) (500-256508-17) and SB80 (3-5) (500-256508-18).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SB72 (0-3) — Lab Sample ID: 500-256508-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.065		0.041	0.0069	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.098		0.041	0.0083	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.18		0.041	0.0087	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.11		0.041	0.039	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.17		0.041	0.039	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.090		0.041	0.0088	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.11		0.041	0.016	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.27		0.041	0.011	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.33		0.041	0.0095	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.070		0.041	0.040	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.17		0.041	0.0074	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	1.8		0.041	0.0089	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.33		0.041	0.011	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.42		0.082	0.0082	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.036	J	0.21	0.016	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.12	J	0.21	0.015	mg/Kg	1	☼	8270E	Total/NA
Aluminum	4800	F2	24		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.9	F1	1.2		mg/Kg	1	☼	6010D	Total/NA
Barium	100		1.2		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.3		0.47		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.34		0.24		mg/Kg	1	☼	6010D	Total/NA
Calcium	7300	F2	24		mg/Kg	1	☼	6010D	Total/NA
Chromium	10	F1	1.2		mg/Kg	1	☼	6010D	Total/NA
Cobalt	8.0		0.59		mg/Kg	1	☼	6010D	Total/NA
Copper	29		1.2		mg/Kg	1	☼	6010D	Total/NA
Iron	47000	F2	24		mg/Kg	1	☼	6010D	Total/NA
Lead	39	F2 F1	0.59		mg/Kg	1	☼	6010D	Total/NA
Magnesium	710		12		mg/Kg	1	☼	6010D	Total/NA
Manganese	580		1.2		mg/Kg	1	☼	6010D	Total/NA
Nickel	25		1.2		mg/Kg	1	☼	6010D	Total/NA
Potassium	660	F1	59		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.6		1.2		mg/Kg	1	☼	6010D	Total/NA
Sodium	310		120		mg/Kg	1	☼	6010D	Total/NA
Thallium	2.1	F1	1.2		mg/Kg	1	☼	6010D	Total/NA
Vanadium	22		0.59		mg/Kg	1	☼	6010D	Total/NA
Zinc	110		2.4		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.053		0.021		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.1		0.27		mg/Kg	1	☼	9012B	Total/NA
pH	7.55		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB72 (7.5-10) — Lab Sample ID: 500-256508-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0043	J	0.0053	0.0023	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.016	J *1	0.021	0.0088	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0010	J	0.0053	0.00097	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00047	J	0.0021	0.00042	mg/Kg	1	☼	8260D	Total/NA
Aluminum	3000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	11		1.1		mg/Kg	1	☼	6010D	Total/NA
Calcium	57000		21		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB72 (7.5-10) (Continued) — Lab Sample ID: 500-256508-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	6.1		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.6		0.53		mg/Kg	1	☼	6010D	Total/NA
Copper	7.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	8700		21		mg/Kg	1	☼	6010D	Total/NA
Lead	4.3		0.53		mg/Kg	1	☼	6010D	Total/NA
Magnesium	30000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	320		1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	8.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	730		53		mg/Kg	1	☼	6010D	Total/NA
Sodium	120		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	12		0.53		mg/Kg	1	☼	6010D	Total/NA
Zinc	26		2.1		mg/Kg	1	☼	6010D	Total/NA
pH	7.73		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB73 (0-3) — Lab Sample ID: 500-256508-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0031	J	0.0077	0.0014	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.017	J	0.035	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.048		0.035	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.034	J	0.035	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.027	J	0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.023	J	0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.081		0.035	0.0092	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.075		0.035	0.0081	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.032	J	0.035	0.0063	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.46		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.075		0.035	0.0095	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.071		0.071	0.0070	mg/Kg	1	☼	8270E	Total/NA
Aluminum	3500		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.4		0.94		mg/Kg	1	☼	6010D	Total/NA
Barium	30		0.94		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.98		0.38		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.36		0.19		mg/Kg	1	☼	6010D	Total/NA
Calcium	4300		19		mg/Kg	1	☼	6010D	Total/NA
Chromium	7.1		0.94		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.5		0.47		mg/Kg	1	☼	6010D	Total/NA
Copper	14		0.94		mg/Kg	1	☼	6010D	Total/NA
Iron	39000		19		mg/Kg	1	☼	6010D	Total/NA
Lead	28		0.47		mg/Kg	1	☼	6010D	Total/NA
Magnesium	440		9.4		mg/Kg	1	☼	6010D	Total/NA
Manganese	440		0.94		mg/Kg	1	☼	6010D	Total/NA
Nickel	17		0.94		mg/Kg	1	☼	6010D	Total/NA
Potassium	290		47		mg/Kg	1	☼	6010D	Total/NA
Sodium	300		94		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.5		0.94		mg/Kg	1	☼	6010D	Total/NA
Vanadium	13		0.47		mg/Kg	1	☼	6010D	Total/NA
Zinc	96		1.9		mg/Kg	1	☼	6010D	Total/NA
pH	7.43		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB73 (5-7.5)
Lab Sample ID: 500-256508-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.023		0.0073	0.0032	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.074		0.029	0.012	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0023	J	0.0073	0.0014	mg/Kg	1	☼	8260D	Total/NA
Aluminum	2400		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	10		1.0		mg/Kg	1	☼	6010D	Total/NA
Calcium	58000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	4.7		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.9		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	3.4		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	6200		21		mg/Kg	1	☼	6010D	Total/NA
Lead	2.9		0.52		mg/Kg	1	☼	6010D	Total/NA
Magnesium	33000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	240		1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	4.9		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	610		52		mg/Kg	1	☼	6010D	Total/NA
Sodium	240		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.4		1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	11		0.52		mg/Kg	1	☼	6010D	Total/NA
Zinc	23		2.1		mg/Kg	1	☼	6010D	Total/NA
pH	7.62		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB74 (0-3)
Lab Sample ID: 500-256508-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0032	J	0.0076	0.0014	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.036	J	0.038	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.068		0.038	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.045		0.038	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.055		0.038	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.038		0.038	0.0082	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.052		0.038	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.085		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.11		0.038	0.0088	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.12		0.038	0.0068	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.50		0.038	0.0082	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.13		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.24		0.076	0.0076	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.023	J	0.19	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.11	J	0.19	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	7100		23		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	89		1.1		mg/Kg	1	☼	6010D	Total/NA
Calcium	18000		23		mg/Kg	1	☼	6010D	Total/NA
Chromium	18		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	8.1		0.57		mg/Kg	1	☼	6010D	Total/NA
Copper	24		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	52000		23		mg/Kg	1	☼	6010D	Total/NA
Lead	22		0.57		mg/Kg	1	☼	6010D	Total/NA
Magnesium	5100		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	350		1.1		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB74 (0-3) (Continued) — Lab Sample ID: 500-256508-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	21		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	880		57		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	310		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	36		0.57		mg/Kg	1	☼	6010D	Total/NA
Zinc	51		2.3		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.018		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.7		0.27		mg/Kg	1	☼	9012B	Total/NA
pH	7.42		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB74 (3-5) — Lab Sample ID: 500-256508-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0038	J	0.0067	0.0012	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.058		0.039	0.0066	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.084		0.039	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.16		0.039	0.0082	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.13		0.039	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.21		0.039	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.12		0.039	0.0084	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.16		0.039	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.24		0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.29		0.039	0.0090	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.039	0.038	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.16		0.039	0.0070	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	1.3		0.039	0.0085	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.31		0.039	0.011	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.49		0.079	0.0078	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.048	J	0.20	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.21		0.20	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	9600		23		mg/Kg	1	☼	6010D	Total/NA
Arsenic	12		5.7		mg/Kg	5	☼	6010D	Total/NA
Barium	100		5.7		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.1		2.3		mg/Kg	5	☼	6010D	Total/NA
Calcium	21000		23		mg/Kg	1	☼	6010D	Total/NA
Chromium	25		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	9.6		0.57		mg/Kg	1	☼	6010D	Total/NA
Copper	36		5.7		mg/Kg	5	☼	6010D	Total/NA
Iron	79000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	41		2.9		mg/Kg	5	☼	6010D	Total/NA
Magnesium	2400		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	520		1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	20		5.7		mg/Kg	5	☼	6010D	Total/NA
Potassium	1500		57		mg/Kg	1	☼	6010D	Total/NA
Sodium	450		110		mg/Kg	1	☼	6010D	Total/NA
Vanadium	59		2.9		mg/Kg	5	☼	6010D	Total/NA
Zinc	72		2.3		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.030		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.96		0.27		mg/Kg	1	☼	9012B	Total/NA
pH	8.08	^+	0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB75 (0-3)
Lab Sample ID: 500-256508-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.028		0.0057	0.0025	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.034	*1	0.023	0.0096	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0045	J	0.0057	0.0010	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00055	J	0.0023	0.00046	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0011	J	0.0046	0.00078	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.020	J	0.034	0.0058	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.019	J	0.034	0.0070	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.069		0.034	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.058		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.062		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.037		0.034	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.045		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.090		0.034	0.0091	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.13		0.034	0.0080	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.036		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.12		0.034	0.0075	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.16		0.034	0.0094	mg/Kg	1	☼	8270E	Total/NA
Aluminum	11000		18		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.1		0.92		mg/Kg	1	☼	6010D	Total/NA
Barium	110		0.92		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.4		1.8		mg/Kg	5	☼	6010D	Total/NA
Cadmium	0.82		0.18		mg/Kg	1	☼	6010D	Total/NA
Calcium	160000	B	92		mg/Kg	5	☼	6010D	Total/NA
Chromium	26		0.92		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.2		0.46		mg/Kg	1	☼	6010D	Total/NA
Copper	40		0.92		mg/Kg	1	☼	6010D	Total/NA
Iron	27000		18		mg/Kg	1	☼	6010D	Total/NA
Lead	83		0.46		mg/Kg	1	☼	6010D	Total/NA
Magnesium	32000		9.2		mg/Kg	1	☼	6010D	Total/NA
Manganese	1600		0.92		mg/Kg	1	☼	6010D	Total/NA
Nickel	16		0.92		mg/Kg	1	☼	6010D	Total/NA
Potassium	580		46		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.4		0.92		mg/Kg	1	☼	6010D	Total/NA
Sodium	270		92		mg/Kg	1	☼	6010D	Total/NA
Thallium	7.4		0.92		mg/Kg	1	☼	6010D	Total/NA
Vanadium	13		0.46		mg/Kg	1	☼	6010D	Total/NA
Zinc	150		1.8		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.019		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	6.1		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	11.87	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB75 (5-7.5)
Lab Sample ID: 500-256508-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012	J *1	0.022	0.0091	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0031	J	0.0054	0.00099	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.070	J	0.073	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.12		0.073	0.070	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.15		0.073	0.019	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.13		0.073	0.017	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.045	J	0.073	0.016	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB75 (5-7.5) (Continued)
Lab Sample ID: 500-256508-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.12		0.073	0.020	mg/Kg	2	☼	8270E	Total/NA
Aluminum	10000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	110		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.1		2.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.7		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	150000	B	110		mg/Kg	5	☼	6010D	Total/NA
Chromium	49		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.4		0.53		mg/Kg	1	☼	6010D	Total/NA
Copper	77		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	45000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	300		0.53		mg/Kg	1	☼	6010D	Total/NA
Magnesium	34000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	1400		1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	28		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	320		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.7		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	220		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	5.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	13		0.53		mg/Kg	1	☼	6010D	Total/NA
Zinc	270		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.021		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	3.4		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	11.39	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB76 (0-3)
Lab Sample ID: 500-256508-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.0017	J	0.0025	0.0010	mg/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	0.0051	J	0.0063	0.0028	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.018	J *1	0.025	0.011	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0034	J	0.0063	0.0012	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.015	J	0.037	0.0076	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.24		0.037	0.0064	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.19		0.037	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.63		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.95		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.2		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.2		0.037	0.0081	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.1		0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.78		0.037	0.0099	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.32		0.037	0.037	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.59		0.037	0.0087	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.020	J	0.037	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.1		0.037	0.037	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.042		0.037	0.0068	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.19		0.037	0.0082	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.84		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.050	J	0.19	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.036	J	0.19	0.013	mg/Kg	1	☼	8270E	Total/NA
Phenol	0.099	J	0.19	0.016	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB76 (0-3) (Continued)
Lab Sample ID: 500-256508-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	0.22		0.19		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.22		0.19		mg/Kg	10	☼	8082A	Total/NA
Aluminum	24000		19		mg/Kg	1	☼	6010D	Total/NA
Barium	390		4.8		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.8		1.9		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.3		0.96		mg/Kg	5	☼	6010D	Total/NA
Calcium	190000	B	96		mg/Kg	5	☼	6010D	Total/NA
Chromium	2200		48		mg/Kg	50	☼	6010D	Total/NA
Cobalt	5.5		0.48		mg/Kg	1	☼	6010D	Total/NA
Copper	150		4.8		mg/Kg	5	☼	6010D	Total/NA
Iron	95000		96		mg/Kg	5	☼	6010D	Total/NA
Lead	540		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	20000		9.6		mg/Kg	1	☼	6010D	Total/NA
Manganese	33000		48		mg/Kg	50	☼	6010D	Total/NA
Nickel	56		4.8		mg/Kg	5	☼	6010D	Total/NA
Potassium	880		48		mg/Kg	1	☼	6010D	Total/NA
Selenium	12		4.8		mg/Kg	5	☼	6010D	Total/NA
Sodium	520		96		mg/Kg	1	☼	6010D	Total/NA
Thallium	88		48		mg/Kg	50	☼	6010D	Total/NA
Vanadium	350		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	220		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.041		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	11		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	11.45	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB76 (7.5-10)
Lab Sample ID: 500-256508-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.019		0.0031	0.0013	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.018	J *1	0.031	0.013	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.012		0.0078	0.0014	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.015	J	0.042	0.0089	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.019	J	0.042	0.0091	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.019	J	0.042	0.011	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.022	J	0.042	0.0097	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.063		0.042	0.0091	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.023	J	0.042	0.011	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.52		0.21	0.16	mg/Kg	1	☼	8270E	Total/NA
Aluminum	38000		26		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.0		1.3		mg/Kg	1	☼	6010D	Total/NA
Barium	390		1.3		mg/Kg	1	☼	6010D	Total/NA
Beryllium	7.6		2.6		mg/Kg	5	☼	6010D	Total/NA
Calcium	220000		130		mg/Kg	5	☼	6010D	Total/NA
Chromium	7.3		1.3		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.8		0.64		mg/Kg	1	☼	6010D	Total/NA
Copper	3.6		1.3		mg/Kg	1	☼	6010D	Total/NA
Iron	7200		26		mg/Kg	1	☼	6010D	Total/NA
Lead	23		0.64		mg/Kg	1	☼	6010D	Total/NA
Magnesium	10000		13		mg/Kg	1	☼	6010D	Total/NA
Manganese	9300		6.4		mg/Kg	5	☼	6010D	Total/NA
Nickel	5.9		1.3		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB76 (7.5-10) (Continued) — Lab Sample ID: 500-256508-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2000		64		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.8		1.3		mg/Kg	1	☼	6010D	Total/NA
Sodium	910		130		mg/Kg	1	☼	6010D	Total/NA
Thallium	32		6.4		mg/Kg	5	☼	6010D	Total/NA
Vanadium	13		0.64		mg/Kg	1	☼	6010D	Total/NA
Zinc	39		2.6		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	67		4.2		mg/Kg	15	☼	9012B	Total/NA
pH	11.05	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB77 (0-3) — Lab Sample ID: 500-256508-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0060		0.0054	0.0024	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.029	*1	0.021	0.0090	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0084		0.0054	0.00099	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00069	J	0.0021	0.00043	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.034		0.034	0.0070	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.072		0.034	0.0058	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.084		0.034	0.0070	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.46		0.034	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.60		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.75		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.46		0.034	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.69		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.59		0.034	0.0091	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.11		0.034	0.034	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.58		0.034	0.0080	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.018	J	0.034	0.010	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.47		0.034	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.018	J	0.034	0.0062	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.19		0.034	0.0075	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.68		0.034	0.0094	mg/Kg	1	☼	8270E	Total/NA
Butyl benzyl phthalate	4.9		0.17	0.017	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.034	J	0.17	0.014	mg/Kg	1	☼	8270E	Total/NA
Di-n-butyl phthalate	0.013	J	0.17	0.011	mg/Kg	1	☼	8270E	Total/NA
Aluminum	16000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	13		5.0		mg/Kg	5	☼	6010D	Total/NA
Barium	190		5.0		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.7		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	110000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	260		5.0		mg/Kg	5	☼	6010D	Total/NA
Cobalt	10		0.50		mg/Kg	1	☼	6010D	Total/NA
Copper	320		5.0		mg/Kg	5	☼	6010D	Total/NA
Iron	150000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	170		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	16000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	4300		5.0		mg/Kg	5	☼	6010D	Total/NA
Nickel	130		5.0		mg/Kg	5	☼	6010D	Total/NA
Potassium	550		50		mg/Kg	1	☼	6010D	Total/NA
Silver	3.8		2.5		mg/Kg	5	☼	6010D	Total/NA
Sodium	450		100		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB77 (0-3) (Continued) — Lab Sample ID: 500-256508-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	12		5.0		mg/Kg	5	☼	6010D	Total/NA
Vanadium	55		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	320		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.16		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	4.0		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	8.50	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB77 (5-7.5) — Lab Sample ID: 500-256508-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J *1	0.024	0.010	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0060		0.0059	0.0011	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.012	J	0.035	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.052		0.035	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.063		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.080		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.068		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.062		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.070		0.035	0.0094	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.069		0.035	0.0083	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.059		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.045		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.073		0.035	0.0097	mg/Kg	1	☼	8270E	Total/NA
Aluminum	13000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.4		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	140		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.0		2.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	0.31		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	100000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	68		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.9		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	25		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	29000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	35		0.52		mg/Kg	1	☼	6010D	Total/NA
Magnesium	16000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	4700		5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	20		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	750		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.0		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	440		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	16		5.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	35		0.52		mg/Kg	1	☼	6010D	Total/NA
Zinc	66		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.067		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	6.9		3.7		mg/Kg	15	☼	9012B	Total/NA
pH	10.57	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB78 (0-3) — Lab Sample ID: 500-256508-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0018	J	0.0037	0.0016	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.049		0.033	0.0057	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB78 (0-3) (Continued)
Lab Sample ID: 500-256508-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.057		0.033	0.0069	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.21		0.033	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.26		0.033	0.032	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.41		0.033	0.032	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.22		0.033	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.30		0.033	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.30		0.033	0.0088	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.069		0.033	0.033	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.31		0.033	0.0078	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.24		0.033	0.033	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.043		0.033	0.0061	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.19		0.033	0.0073	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.33		0.033	0.0092	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.045	J	0.068	0.0067	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.026	J	0.17	0.013	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.023	J	0.17	0.012	mg/Kg	1	☼	8270E	Total/NA
Aluminum	7200		95		mg/Kg	5	☼	6010D	Total/NA
Barium	100		4.8		mg/Kg	5	☼	6010D	Total/NA
Calcium	33000		19		mg/Kg	1	☼	6010D	Total/NA
Chromium	550		4.8		mg/Kg	5	☼	6010D	Total/NA
Cobalt	12		0.48		mg/Kg	1	☼	6010D	Total/NA
Copper	110		48		mg/Kg	50	☼	6010D	Total/NA
Iron	430000		950		mg/Kg	50	☼	6010D	Total/NA
Lead	91		24		mg/Kg	50	☼	6010D	Total/NA
Magnesium	2900		9.5		mg/Kg	1	☼	6010D	Total/NA
Manganese	5300		4.8		mg/Kg	5	☼	6010D	Total/NA
Nickel	260		48		mg/Kg	50	☼	6010D	Total/NA
Silver	7.2		2.4		mg/Kg	5	☼	6010D	Total/NA
Sodium	220		95		mg/Kg	1	☼	6010D	Total/NA
Vanadium	50		24		mg/Kg	50	☼	6010D	Total/NA
Zinc	130		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.026		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	8.9		3.6		mg/Kg	15	☼	9012B	Total/NA
pH	8.85	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB78 (10-12.5)
Lab Sample ID: 500-256508-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9100		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	15		5.4		mg/Kg	5	☼	6010D	Total/NA
Barium	150		5.4		mg/Kg	5	☼	6010D	Total/NA
Calcium	150000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	370		5.4		mg/Kg	5	☼	6010D	Total/NA
Cobalt	7.4		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	24		5.4		mg/Kg	5	☼	6010D	Total/NA
Iron	160000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	12		2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	23000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	31000		22		mg/Kg	20	☼	6010D	Total/NA
Nickel	70		5.4		mg/Kg	5	☼	6010D	Total/NA
Potassium	500		54		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB78 (10-12.5) (Continued) — Lab Sample ID: 500-256508-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	10		5.4		mg/Kg	5	☼	6010D	Total/NA
Sodium	210		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	110		22		mg/Kg	20	☼	6010D	Total/NA
Vanadium	320		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	23		2.2		mg/Kg	1	☼	6010D	Total/NA
pH	11.24	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB79 (0-3) — Lab Sample ID: 500-256508-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.010	J *1	0.020	0.0084	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0064		0.0050	0.00092	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.013	J	0.035	0.0059	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.020	J	0.035	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.071		0.035	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.076		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.093		0.035	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.073		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.069		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.096		0.035	0.0092	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.12		0.035	0.0081	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.067		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.011	J	0.035	0.0063	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.088		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.12		0.035	0.0096	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.25		0.18	0.14	mg/Kg	1	☼	8270E	Total/NA
Aluminum	29000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.1		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	220		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	5.4		2.0		mg/Kg	5	☼	6010D	Total/NA
Cadmium	0.99		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	210000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	85		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.4		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	130		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	43000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	130		0.51		mg/Kg	1	☼	6010D	Total/NA
Magnesium	9900		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	11000		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	38		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1500		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.6		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	930		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	33		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	55		0.51		mg/Kg	1	☼	6010D	Total/NA
Zinc	250		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.040		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	13		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	9.80	^+	0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB79 (5-7.5) — Lab Sample ID: 500-256508-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0072		0.0070	0.0013	mg/Kg	1	☼	8260D	Total/NA
Aluminum	33000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.0		0.99		mg/Kg	1	☼	6010D	Total/NA
Barium	170		0.99		mg/Kg	1	☼	6010D	Total/NA
Beryllium	5.9		2.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	270000		99		mg/Kg	5	☼	6010D	Total/NA
Chromium	47		0.99		mg/Kg	1	☼	6010D	Total/NA
Cobalt	1.5		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	3.7		0.99		mg/Kg	1	☼	6010D	Total/NA
Iron	15000		20		mg/Kg	1	☼	6010D	Total/NA
Magnesium	8700		9.9		mg/Kg	1	☼	6010D	Total/NA
Manganese	14000		4.9		mg/Kg	5	☼	6010D	Total/NA
Potassium	1200		49		mg/Kg	1	☼	6010D	Total/NA
Selenium	4.0		0.99		mg/Kg	1	☼	6010D	Total/NA
Sodium	830		99		mg/Kg	1	☼	6010D	Total/NA
Vanadium	58		0.49		mg/Kg	1	☼	6010D	Total/NA
Zinc	4.6		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	18		3.7		mg/Kg	15	☼	9012B	Total/NA
pH	11.38	H	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB80 (0-3) — Lab Sample ID: 500-256508-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0057		0.0052	0.0023	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.032	*1	0.021	0.0088	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0062		0.0052	0.00096	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.016	J	0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.033	J	0.069	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.073		0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.25		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.23		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.28		0.069	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.15		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.27		0.069	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.33		0.069	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.46		0.069	0.016	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.16		0.069	0.068	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.033	J	0.069	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.49		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.38		0.069	0.019	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.044	J	0.35	0.028	mg/Kg	2	☼	8270E	Total/NA
Di-n-butyl phthalate	0.25	J	0.35	0.022	mg/Kg	2	☼	8270E	Total/NA
PCB-1254	2.4		0.86		mg/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2.4		0.86		mg/Kg	50	☼	8082A	Total/NA
Aluminum	24000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	580		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	5.0		2.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	11		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	160000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	47		1.1		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB80 (0-3) (Continued)
Lab Sample ID: 500-256508-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	4.3		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	1900		5.4		mg/Kg	5	☼	6010D	Total/NA
Iron	39000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	620		0.54		mg/Kg	1	☼	6010D	Total/NA
Magnesium	17000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	8400		5.4		mg/Kg	5	☼	6010D	Total/NA
Nickel	76		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1400		54		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	830		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	26		5.4		mg/Kg	5	☼	6010D	Total/NA
Vanadium	32		0.54		mg/Kg	1	☼	6010D	Total/NA
Zinc	1500		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.75		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	17	F2	2.3		mg/Kg	10	☼	9012B	Total/NA
pH	9.61	H	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB80 (3-5)
Lab Sample ID: 500-256508-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00093	J	0.0021	0.00065	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0051	J	0.0052	0.00096	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00080	J	0.0021	0.00042	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.0073	J	0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.015	J	0.035	0.0060	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.034	J	0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.13		0.035	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.13		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.16		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.10		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.14		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.15		0.035	0.0093	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.21		0.035	0.0082	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.016	J	0.035	0.0064	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.14		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.21		0.035	0.0096	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.015	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
PCB-1254	0.22		0.017		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.22		0.017		mg/Kg	1	☼	8082A	Total/NA
Aluminum	33000		18		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.5		0.92		mg/Kg	1	☼	6010D	Total/NA
Barium	280		0.92		mg/Kg	1	☼	6010D	Total/NA
Beryllium	6.7		1.8		mg/Kg	5	☼	6010D	Total/NA
Cadmium	0.97		0.18		mg/Kg	1	☼	6010D	Total/NA
Calcium	230000		92		mg/Kg	5	☼	6010D	Total/NA
Chromium	38		0.92		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.4		0.46		mg/Kg	1	☼	6010D	Total/NA
Copper	120		0.92		mg/Kg	1	☼	6010D	Total/NA
Iron	21000		18		mg/Kg	1	☼	6010D	Total/NA
Lead	79		0.46		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB80 (3-5) (Continued)
Lab Sample ID: 500-256508-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	11000		9.2		mg/Kg	1	☼	6010D	Total/NA
Manganese	8400		4.6		mg/Kg	5	☼	6010D	Total/NA
Nickel	16		0.92		mg/Kg	1	☼	6010D	Total/NA
Potassium	1900		46		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.5		0.92		mg/Kg	1	☼	6010D	Total/NA
Sodium	960		92		mg/Kg	1	☼	6010D	Total/NA
Thallium	29		4.6		mg/Kg	5	☼	6010D	Total/NA
Vanadium	34		0.46		mg/Kg	1	☼	6010D	Total/NA
Zinc	140		1.8		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	13		1.2		mg/Kg	5	☼	9012B	Total/NA
pH	9.86	H	0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256508-1	SB72 (0-3)	Solid	09/10/24 09:09	09/11/24 11:05
500-256508-2	SB72 (7.5-10)	Solid	09/10/24 09:22	09/11/24 11:05
500-256508-3	SB73 (0-3)	Solid	09/10/24 10:10	09/11/24 11:05
500-256508-4	SB73 (5-7.5)	Solid	09/10/24 10:23	09/11/24 11:05
500-256508-5	SB74 (0-3)	Solid	09/10/24 11:17	09/11/24 11:05
500-256508-6	SB74 (3-5)	Solid	09/10/24 11:24	09/11/24 11:05
500-256508-7	SB75 (0-3)	Solid	09/10/24 08:59	09/11/24 11:05
500-256508-8	SB75 (5-7.5)	Solid	09/10/24 09:14	09/11/24 11:05
500-256508-9	SB76 (0-3)	Solid	09/10/24 10:00	09/11/24 11:05
500-256508-10	SB76 (7.5-10)	Solid	09/10/24 10:13	09/11/24 11:05
500-256508-11	SB77 (0-3)	Solid	09/10/24 11:01	09/11/24 11:05
500-256508-12	SB77 (5-7.5)	Solid	09/10/24 11:19	09/11/24 11:05
500-256508-13	SB78 (0-3)	Solid	09/10/24 12:33	09/11/24 11:05
500-256508-14	SB78 (10-12.5)	Solid	09/10/24 13:09	09/11/24 11:05
500-256508-15	SB79 (0-3)	Solid	09/10/24 13:50	09/11/24 11:05
500-256508-16	SB79 (5-7.5)	Solid	09/10/24 14:06	09/11/24 11:05
500-256508-17	SB80 (0-3)	Solid	09/10/24 15:00	09/11/24 11:05
500-256508-18	SB80 (3-5)	Solid	09/10/24 15:08	09/11/24 11:05

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB72 (0-3)
Date Collected: 09/10/24 09:09
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-1
Matrix: Solid
Percent Solids: 81.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0012		0.0029	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
1,1,2,2-Tetrachloroethane	<0.0014	*3	0.0029	0.0014	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
1,1,2-Trichloroethane	<0.0011		0.0029	0.0011	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
1,1-Dichloroethane	<0.0011		0.0029	0.0011	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
1,1-Dichloroethene	<0.0012		0.0029	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
1,2-Dichloroethane	<0.0019		0.0073	0.0019	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
1,2-Dichloropropane	<0.00075		0.0029	0.00075	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
2-Butanone (MEK)	<0.0032		0.0073	0.0032	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
2-Hexanone	<0.0044		0.0073	0.0044	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0073	0.0052	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Acetone	<0.012		0.029	0.012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Benzene	<0.00092		0.0029	0.00092	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Bromodichloromethane	<0.00094		0.0029	0.00094	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Bromoform	<0.0017		0.0029	0.0017	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Bromomethane	<0.0036		0.0073	0.0036	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Carbon disulfide	<0.0013		0.0073	0.0013	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Carbon tetrachloride	<0.00099		0.0029	0.00099	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Chlorobenzene	<0.0012		0.0029	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Chloroethane	<0.0024		0.0073	0.0024	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Chloroform	<0.0021		0.0029	0.0021	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Chloromethane	<0.0014		0.0073	0.0014	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
cis-1,2-Dichloroethene	<0.0012		0.0029	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
1,3-Dichloropropene, Total	<0.0014		0.0029	0.0014	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Dibromochloromethane	<0.0014		0.0029	0.0014	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Ethylbenzene	<0.0015		0.0029	0.0015	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Methyl tert-butyl ether	<0.00094		0.0029	0.00094	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Methylene Chloride	<0.0031		0.0073	0.0031	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Styrene	<0.0013		0.0029	0.0013	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Tetrachloroethene	<0.0016		0.0029	0.0016	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Toluene	<0.00059		0.0029	0.00059	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Xylenes, Total	<0.0010		0.0058	0.0010	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
trans-1,2-Dichloroethene	<0.0011		0.0029	0.0011	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Trichloroethene	<0.00079		0.0029	0.00079	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1
Vinyl chloride	<0.0012		0.0029	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 134*	*09/11/24 18:53*	*09/17/24 00:07*	*1*
4-Bromofluorobenzene (Surr)	*137*	*3 S1+	*75 - 131*	*09/11/24 18:53*	*09/17/24 00:07*	*1*
Dibromofluoromethane	*113*		*75 - 126*	*09/11/24 18:53*	*09/17/24 00:07*	*1*
Toluene-d8 (Surr)	*115*		*75 - 124*	*09/11/24 18:53*	*09/17/24 00:07*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0083		0.041	0.0083	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Acenaphthylene	**0.065**		0.041	0.0069	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Anthracene	**0.098**		0.041	0.0083	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Benzo[a]anthracene	**0.18**		0.041	0.0087	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Benzo[a]pyrene	**0.11**		0.041	0.039	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Benzo[b]fluoranthene	**0.17**		0.041	0.039	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Benzo[g,h,i]perylene	**0.090**		0.041	0.0088	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB72 (0-3)
Lab Sample ID: 500-256508-1
Date Collected: 09/10/24 09:09
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 81.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.11**		0.041	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Chrysene	**0.27**		0.041	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Dibenz(a,h)anthracene	<0.041		0.041	0.041	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Fluoranthene	**0.33**		0.041	0.0095	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Fluorene	<0.012		0.041	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Indeno[1,2,3-cd]pyrene	**0.070**		0.041	0.040	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Naphthalene	**0.17**		0.041	0.0074	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Phenanthrene	**1.8**		0.041	0.0089	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Pyrene	**0.33**		0.041	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
1,2,4-Trichlorobenzene	<0.029		0.21	0.029	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
1,2-Dichlorobenzene	<0.017		0.21	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
1,3-Dichlorobenzene	<0.018		0.21	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
1,4-Dichlorobenzene	<0.019		0.21	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2,4,5-Trichlorophenol	<0.015		0.41	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2,4,6-Trichlorophenol	<0.014		0.41	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2,4-Dichlorophenol	<0.014		0.41	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2,4-Dimethylphenol	<0.091		0.41	0.091	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2,4-Dinitrophenol	<0.24		0.82	0.24	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2,4-Dinitrotoluene	<0.023		0.21	0.023	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2,6-Dinitrotoluene	<0.014		0.21	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2-Chloronaphthalene	<0.015		0.21	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2-Chlorophenol	<0.013		0.21	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2-Methylnaphthalene	**0.42**		0.082	0.0082	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2-Methylphenol	<0.022		0.21	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2-Nitroaniline	<0.022		0.21	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
2-Nitrophenol	<0.028		0.41	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
3,3'-Dichlorobenzidine	<0.033		0.21	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
3 & 4 Methylphenol	<0.030		0.21	0.030	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
3-Nitroaniline	<0.019		0.41	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
4,6-Dinitro-2-methylphenol	<0.23		0.82	0.23	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
4-Bromophenyl phenyl ether	<0.028		0.21	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
4-Chloro-3-methylphenol	<0.016		0.41	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
4-Chloroaniline	<0.43		0.82	0.43	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
4-Chlorophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
4-Nitroaniline	<0.030		0.41	0.030	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
4-Nitrophenol	<0.15		0.82	0.15	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Bis(2-chloroethoxy)methane	<0.015		0.21	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Bis(2-chloroethyl)ether	<0.019		0.21	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
bis(chloroisopropyl) ether	<0.029		0.21	0.029	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Bis(2-ethylhexyl) phthalate	<0.16		0.21	0.16	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Butyl benzyl phthalate	<0.020		0.21	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Carbazole	**0.036**	**J**	0.21	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Dibenzofuran	**0.12**	**J**	0.21	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Diethyl phthalate	<0.019		0.21	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Dimethyl phthalate	<0.0089		0.21	0.0089	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Di-n-butyl phthalate	<0.013		0.21	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Di-n-octyl phthalate	<0.29		0.41	0.29	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Hexachlorobenzene	<0.0078		0.082	0.0078	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Hexachlorobutadiene	<0.023		0.21	0.023	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1

Client Sample ID: SB72 (0-3)
Date Collected: 09/10/24 09:09
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-1
Matrix: Solid
Percent Solids: 81.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.43		0.82	0.43	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Hexachloroethane	<0.020		0.21	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Isophorone	<0.021		0.21	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Nitrobenzene	<0.013		0.041	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
N-Nitrosodi-n-propylamine	<0.0081		0.082	0.0081	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
N-Nitrosodiphenylamine	<0.024		0.21	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Pentachlorophenol	<0.10		0.82	0.10	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1
Phenol	<0.018		0.21	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*43*		*31 - 166*	*09/20/24 12:16*	*09/23/24 13:23*	*1*
Phenol-d5 (Surr)	*52*		*30 - 153*	*09/20/24 12:16*	*09/23/24 13:23*	*1*
Nitrobenzene-d5 (Surr)	*62*		*37 - 147*	*09/20/24 12:16*	*09/23/24 13:23*	*1*
2-Fluorobiphenyl (Surr)	*74*		*43 - 145*	*09/20/24 12:16*	*09/23/24 13:23*	*1*
2,4,6-Tribromophenol (Surr)	*37*		*31 - 143*	*09/20/24 12:16*	*09/23/24 13:23*	*1*
Terphenyl-d14 (Surr)	*79*		*42 - 157*	*09/20/24 12:16*	*09/23/24 13:23*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011	F1	0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
4,4'-DDE	<0.010	F1	0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
4,4'-DDT	<0.0096	F2	0.020	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Aldrin	<0.014	F1	0.020	0.014	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
alpha-BHC	<0.011	F1	0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
alpha-Chlordane	<0.011	F1	0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Chlordane (technical)	<0.038		0.081	0.038	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
delta-BHC	<0.0097	F2 F1	0.020	0.0097	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Dieldrin	<0.011	F1	0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Endosulfan I	<0.011	F1	0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Endosulfan II	<0.011	F1	0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Endosulfan sulfate	<0.011	F1	0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Endrin	<0.010	F1	0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Endrin aldehyde	<0.012	F1	0.020	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Endrin ketone	<0.0099	F1	0.020	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
gamma-BHC (Lindane)	<0.010	F1	0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
gamma-Chlordane	<0.012	F1	0.020	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Heptachlor	<0.011	F1 F2	0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Heptachlor epoxide	<0.011	F1	0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Methoxychlor	<0.013	F1	0.10	0.013	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10
Toxaphene	<0.081		0.20	0.081	mg/Kg	☼	09/23/24 07:18	10/01/24 08:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*444*	*S1+*	*33 - 148*	*09/23/24 07:18*	*10/01/24 08:44*	*10*
Tetrachloro-m-xylene	*55*		*30 - 121*	*09/23/24 07:18*	*10/01/24 08:44*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 13:57	10
PCB-1221	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 13:57	10

Client Sample ID: SB72 (0-3)
Lab Sample ID: 500-256508-1
Date Collected: 09/10/24 09:09
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 81.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 13:57	10
PCB-1242	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 13:57	10
PCB-1248	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 13:57	10
PCB-1254	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 13:57	10
PCB-1260	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 13:57	10
Polychlorinated biphenyls, Total	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 13:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*49 - 129*	*09/23/24 07:18*	*09/27/24 13:57*	*10*
DCB Decachlorobiphenyl	*86*		*37 - 121*	*09/23/24 07:18*	*09/27/24 13:57*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4800**	**F2**	24		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Antimony	<2.4	F1	2.4		mg/Kg	☼	09/20/24 16:37	09/28/24 02:51	1
Arsenic	**7.9**	**F1**	1.2		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Barium	**100**		1.2		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Beryllium	**1.3**		0.47		mg/Kg	☼	09/20/24 16:37	09/26/24 23:52	1
Cadmium	**0.34**		0.24		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Calcium	**7300**	**F2**	24		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Chromium	**10**	**F1**	1.2		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Cobalt	**8.0**		0.59		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Copper	**29**		1.2		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Iron	**47000**	**F2**	24		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Lead	**39**	**F2 F1**	0.59		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Magnesium	**710**		12		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Manganese	**580**		1.2		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Nickel	**25**		1.2		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Potassium	**660**	**F1**	59		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Selenium	**1.6**		1.2		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Silver	<0.59		0.59		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Sodium	**310**		120		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Thallium	**2.1**	**F1**	1.2		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Vanadium	**22**		0.59		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1
Zinc	**110**		2.4		mg/Kg	☼	09/20/24 16:37	09/25/24 17:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.053**		0.021		mg/Kg	☼	09/26/24 17:42	09/27/24 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.1**		0.27		mg/Kg	☼	09/17/24 10:28	09/17/24 15:05	1
pH (SW846 9045D)	**7.55**		0.20		SU			09/17/24 14:00	1

Client Sample ID: SB72 (7.5-10)
Date Collected: 09/10/24 09:22
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-2
Matrix: Solid
Percent Solids: 82.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00085		0.0021	0.00085	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
1,1,2,2-Tetrachloroethane	<0.0010	*+	0.0021	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
1,1,2-Trichloroethane	<0.00079		0.0021	0.00079	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
1,1-Dichloroethane	<0.00079		0.0021	0.00079	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
1,1-Dichloroethene	<0.00087		0.0021	0.00087	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
1,2-Dichloroethane	<0.0014		0.0053	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
2-Butanone (MEK)	**0.0043**	**J**	0.0053	0.0023	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
2-Hexanone	<0.0032		0.0053	0.0032	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0053	0.0037	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Acetone	**0.016**	**J *1**	0.021	0.0088	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Benzene	<0.00066		0.0021	0.00066	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Bromodichloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Bromomethane	<0.0026		0.0053	0.0026	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Carbon disulfide	**0.0010**	**J**	0.0053	0.00097	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Carbon tetrachloride	<0.00072		0.0021	0.00072	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Chlorobenzene	<0.00089		0.0021	0.00089	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Chloroethane	<0.0017		0.0053	0.0017	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Chloromethane	<0.0010		0.0053	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
cis-1,2-Dichloroethene	<0.00085		0.0021	0.00085	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Dibromochloromethane	<0.00098		0.0021	0.00098	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Methyl tert-butyl ether	<0.00068		0.0021	0.00068	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Methylene Chloride	<0.0023		0.0053	0.0023	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Styrene	<0.00095	*+	0.0021	0.00095	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Toluene	**0.00047**	**J**	0.0021	0.00042	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Xylenes, Total	<0.00072		0.0042	0.00072	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
trans-1,2-Dichloroethene	<0.00080		0.0021	0.00080	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Trichloroethene	<0.00057		0.0021	0.00057	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1
Vinyl chloride	<0.00086		0.0021	0.00086	mg/Kg	☼	09/11/24 18:53	09/15/24 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*09/11/24 18:53*	*09/15/24 17:09*	*1*
4-Bromofluorobenzene (Surr)	*128*		*75 - 131*	*09/11/24 18:53*	*09/15/24 17:09*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*09/11/24 18:53*	*09/15/24 17:09*	*1*
Toluene-d8 (Surr)	*114*		*75 - 124*	*09/11/24 18:53*	*09/15/24 17:09*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0077		0.038	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Acenaphthylene	<0.0064		0.038	0.0064	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Anthracene	<0.0077		0.038	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Benzo[a]anthracene	<0.0080		0.038	0.0080	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Benzo[a]pyrene	<0.037		0.038	0.037	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Benzo[b]fluoranthene	<0.036		0.038	0.036	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Benzo[g,h,i]perylene	<0.0082	F1	0.038	0.0082	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB72 (7.5-10)
Lab Sample ID: 500-256508-2
Date Collected: 09/10/24 09:22
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 82.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.014		0.038	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Chrysene	<0.010		0.038	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Fluoranthene	<0.0088		0.038	0.0088	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Fluorene	<0.011		0.038	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Indeno[1,2,3-cd]pyrene	<0.037		0.038	0.037	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Naphthalene	<0.0068	F1	0.038	0.0068	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Phenanthrene	<0.0082		0.038	0.0082	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Pyrene	<0.010		0.038	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
1,2,4-Trichlorobenzene	<0.027	F1	0.19	0.027	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
1,2-Dichlorobenzene	<0.015	F1	0.19	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
1,3-Dichlorobenzene	<0.017	F1	0.19	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
1,4-Dichlorobenzene	<0.018	F1	0.19	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2,4,5-Trichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2,4,6-Trichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2,4-Dichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2,4-Dimethylphenol	<0.085		0.38	0.085	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2,4-Dinitrophenol	<0.22		0.76	0.22	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2,4-Dinitrotoluene	<0.022		0.19	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2-Chlorophenol	<0.012	F1	0.19	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2-Methylnaphthalene	<0.0076	F1	0.076	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
2-Nitrophenol	<0.026		0.38	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
3 & 4 Methylphenol	<0.028		0.19	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
3-Nitroaniline	<0.017		0.38	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
4,6-Dinitro-2-methylphenol	<0.21	F2	0.76	0.21	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
4-Chloro-3-methylphenol	<0.015		0.38	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
4-Chloroaniline	<0.40		0.76	0.40	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
4-Chlorophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
4-Nitroaniline	<0.028		0.38	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
4-Nitrophenol	<0.14		0.76	0.14	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Dibenzofuran	<0.013		0.19	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Dimethyl phthalate	<0.0082		0.19	0.0082	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Di-n-octyl phthalate	<0.26		0.38	0.26	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Hexachlorobenzene	<0.0073		0.076	0.0073	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB72 (7.5-10)
Lab Sample ID: 500-256508-2
Date Collected: 09/10/24 09:22
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 82.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.40		0.76	0.40	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Hexachloroethane	<0.019	F1	0.19	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Isophorone	<0.020		0.19	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Nitrobenzene	<0.012	F1	0.038	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
N-Nitrosodi-n-propylamine	<0.0075		0.076	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Pentachlorophenol	<0.095		0.76	0.095	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1
Phenol	<0.016		0.19	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*73*		*31 - 166*	*09/20/24 12:16*	*09/23/24 20:34*	*1*
Phenol-d5 (Surr)	*69*		*30 - 153*	*09/20/24 12:16*	*09/23/24 20:34*	*1*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/20/24 12:16*	*09/23/24 20:34*	*1*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/20/24 12:16*	*09/23/24 20:34*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*31 - 143*	*09/20/24 12:16*	*09/23/24 20:34*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*09/20/24 12:16*	*09/23/24 20:34*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
4,4'-DDT	<0.0093		0.020	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
alpha-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Chlordane (technical)	<0.037		0.078	0.037	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
delta-BHC	<0.0094		0.020	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Endrin	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Endrin aldehyde	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Endrin ketone	<0.0096		0.020	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
gamma-BHC (Lindane)	<0.0098		0.020	0.0098	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
gamma-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Heptachlor epoxide	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Methoxychlor	<0.013		0.097	0.013	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10
Toxaphene	<0.079		0.19	0.079	mg/Kg	☼	09/23/24 07:18	10/01/24 09:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*33 - 148*	*09/23/24 07:18*	*10/01/24 09:24*	*10*
Tetrachloro-m-xylene	*60*		*30 - 121*	*09/23/24 07:18*	*10/01/24 09:24*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 14:43	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 14:43	10

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256508-1

Client Sample ID: SB72 (7.5-10)

Date Collected: 09/10/24 09:22
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-2

Matrix: Solid
Percent Solids: 82.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 14:43	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 14:43	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 14:43	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 14:43	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 14:43	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 14:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*49 - 129*	*09/23/24 07:18*	*09/27/24 14:43*	*10*
DCB Decachlorobiphenyl	*109*		*37 - 121*	*09/23/24 07:18*	*09/27/24 14:43*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3000**		21		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Antimony	<2.1		2.1		mg/Kg	☼	09/20/24 16:37	09/28/24 03:13	1
Arsenic	**4.3**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Barium	**11**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Beryllium	<0.42		0.42		mg/Kg	☼	09/20/24 16:37	09/27/24 00:23	1
Cadmium	<0.21		0.21		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Calcium	**57000**		21		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Chromium	**6.1**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Cobalt	**4.6**		0.53		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Copper	**7.3**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Iron	**8700**		21		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Lead	**4.3**		0.53		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Magnesium	**30000**		11		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Manganese	**320**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Nickel	**8.8**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Potassium	**730**		53		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Selenium	<1.1		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Silver	<0.53		0.53		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Sodium	**120**		110		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Thallium	**1.8**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Vanadium	**12**		0.53		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1
Zinc	**26**		2.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	09/26/24 17:42	09/27/24 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25		mg/Kg	☼	09/17/24 10:28	09/17/24 15:07	1
pH (SW846 9045D)	**7.73**		0.20		SU			09/17/24 14:03	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB73 (0-3)
Lab Sample ID: 500-256508-3
Date Collected: 09/10/24 10:10
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 93.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
1,1,2,2-Tetrachloroethane	<0.0015	*3 *+	0.0031	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
1,1,2-Trichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
1,1-Dichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
1,1-Dichloroethene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
1,2-Dichloroethane	<0.0020		0.0077	0.0020	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
1,2-Dichloropropane	<0.00079		0.0031	0.00079	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
2-Butanone (MEK)	<0.0034		0.0077	0.0034	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
2-Hexanone	<0.0047		0.0077	0.0047	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0077	0.0055	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Acetone	<0.013	*1	0.031	0.013	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Benzene	<0.00097		0.0031	0.00097	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Bromodichloromethane	<0.00099		0.0031	0.00099	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Bromoform	<0.0018		0.0031	0.0018	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Bromomethane	<0.0038		0.0077	0.0038	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Carbon disulfide	**0.0031**	**J**	0.0077	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Carbon tetrachloride	<0.0010		0.0031	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Chlorobenzene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Chloroethane	<0.0025		0.0077	0.0025	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Chloroform	<0.0022		0.0031	0.0022	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Chloromethane	<0.0015		0.0077	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
cis-1,2-Dichloroethene	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
1,3-Dichloropropene, Total	<0.0015		0.0031	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Dibromochloromethane	<0.0014		0.0031	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Ethylbenzene	<0.0016		0.0031	0.0016	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Methyl tert-butyl ether	<0.00099		0.0031	0.00099	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Methylene Chloride	<0.0033		0.0077	0.0033	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Styrene	<0.0014	*+	0.0031	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Tetrachloroethene	<0.0017		0.0031	0.0017	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Toluene	<0.00062		0.0031	0.00062	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Xylenes, Total	<0.0011		0.0061	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
trans-1,2-Dichloroethene	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Trichloroethene	<0.00084		0.0031	0.00084	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1
Vinyl chloride	<0.0013		0.0031	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 134*	*09/11/24 18:53*	*09/15/24 17:34*	*1*
4-Bromofluorobenzene (Surr)	*127*	*3*	*75 - 131*	*09/11/24 18:53*	*09/15/24 17:34*	*1*
Dibromofluoromethane	*118*		*75 - 126*	*09/11/24 18:53*	*09/15/24 17:34*	*1*
Toluene-d8 (Surr)	*140*	*S1+*	*75 - 124*	*09/11/24 18:53*	*09/15/24 17:34*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.035	0.0071	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Acenaphthylene	<0.0059		0.035	0.0059	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Anthracene	**0.017**	**J**	0.035	0.0071	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Benzo[a]anthracene	**0.048**		0.035	0.0074	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Benzo[a]pyrene	<0.034		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Benzo[b]fluoranthene	**0.034**	**J**	0.035	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Benzo[g,h,i]perylene	**0.027**	**J**	0.035	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB73 (0-3)
Lab Sample ID: 500-256508-3
Date Collected: 09/10/24 10:10
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 93.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.023**	**J**	0.035	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Chrysene	**0.081**		0.035	0.0092	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Fluoranthene	**0.075**		0.035	0.0081	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Indeno[1,2,3-cd]pyrene	<0.034		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Naphthalene	**0.032**	**J**	0.035	0.0063	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Phenanthrene	**0.46**		0.035	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Pyrene	**0.075**		0.035	0.0095	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2,4-Dimethylphenol	<0.078		0.35	0.078	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2,4-Dinitrophenol	<0.20		0.71	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2-Methylnaphthalene	**0.071**		0.071	0.0070	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2-Methylphenol	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
4,6-Dinitro-2-methylphenol	<0.20		0.71	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
4-Chloroaniline	<0.37		0.71	0.37	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
4-Nitrophenol	<0.13		0.71	0.13	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Butyl benzyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Dibenzofuran	<0.012		0.18	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Dimethyl phthalate	<0.0076		0.18	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Di-n-octyl phthalate	<0.24		0.35	0.24	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Hexachlorobenzene	<0.0067		0.071	0.0067	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB73 (0-3)
Lab Sample ID: 500-256508-3
Date Collected: 09/10/24 10:10
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 93.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.71	0.37	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Hexachloroethane	<0.017		0.18	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
N-Nitrosodi-n-propylamine	<0.0069		0.071	0.0069	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Pentachlorophenol	<0.087		0.71	0.087	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*31 - 166*	*09/20/24 12:16*	*09/23/24 12:58*	*1*
Phenol-d5 (Surr)	*63*		*30 - 153*	*09/20/24 12:16*	*09/23/24 12:58*	*1*
Nitrobenzene-d5 (Surr)	*64*		*37 - 147*	*09/20/24 12:16*	*09/23/24 12:58*	*1*
2-Fluorobiphenyl (Surr)	*75*		*43 - 145*	*09/20/24 12:16*	*09/23/24 12:58*	*1*
2,4,6-Tribromophenol (Surr)	*61*		*31 - 143*	*09/20/24 12:16*	*09/23/24 12:58*	*1*
Terphenyl-d14 (Surr)	*91*		*42 - 157*	*09/20/24 12:16*	*09/23/24 12:58*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0092		0.017	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
4,4'-DDE	<0.0088		0.017	0.0088	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
4,4'-DDT	<0.0081		0.017	0.0081	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
alpha-BHC	<0.0096		0.017	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
alpha-Chlordane	<0.0091		0.017	0.0091	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Chlordane (technical)	<0.032		0.068	0.032	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
delta-BHC	<0.0082		0.017	0.0082	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Dieldrin	<0.0089		0.017	0.0089	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Endosulfan I	<0.0092		0.017	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Endosulfan II	<0.0093		0.017	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Endosulfan sulfate	<0.0094		0.017	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Endrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Endrin aldehyde	<0.0097		0.017	0.0097	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Endrin ketone	<0.0083		0.017	0.0083	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
gamma-BHC (Lindane)	<0.0085		0.017	0.0085	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
gamma-Chlordane	<0.0098		0.017	0.0098	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Heptachlor	<0.0092		0.017	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Heptachlor epoxide	<0.0092		0.017	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Methoxychlor	<0.011		0.084	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10
Toxaphene	<0.068		0.17	0.068	mg/Kg	☼	09/23/24 07:18	10/01/24 09:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*114*		*33 - 148*	*09/23/24 07:18*	*10/01/24 09:35*	*10*
Tetrachloro-m-xylene	*54*		*30 - 121*	*09/23/24 07:18*	*10/01/24 09:35*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 14:58	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 14:58	10

Client Sample ID: SB73 (0-3)
Date Collected: 09/10/24 10:10
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-3
Matrix: Solid
Percent Solids: 93.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 14:58	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 14:58	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 14:58	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 14:58	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 14:58	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 14:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*49 - 129*	*09/23/24 07:18*	*09/27/24 14:58*	*10*
DCB Decachlorobiphenyl	*80*		*37 - 121*	*09/23/24 07:18*	*09/27/24 14:58*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3500**		19		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Antimony	<1.9		1.9		mg/Kg	☼	09/20/24 16:37	09/28/24 03:17	1
Arsenic	**5.4**		0.94		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Barium	**30**		0.94		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Beryllium	**0.98**		0.38		mg/Kg	☼	09/20/24 16:37	09/27/24 00:27	1
Cadmium	**0.36**		0.19		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Calcium	**4300**		19		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Chromium	**7.1**		0.94		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Cobalt	**4.5**		0.47		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Copper	**14**		0.94		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Iron	**39000**		19		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Lead	**28**		0.47		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Magnesium	**440**		9.4		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Manganese	**440**		0.94		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Nickel	**17**		0.94		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Potassium	**290**		47		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Selenium	<0.94		0.94		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Silver	<0.47		0.47		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Sodium	**300**		94		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Thallium	**1.5**		0.94		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Vanadium	**13**		0.47		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1
Zinc	**96**		1.9		mg/Kg	☼	09/20/24 16:37	09/25/24 18:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/26/24 17:42	09/27/24 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.23		0.23		mg/Kg	☼	09/17/24 10:28	09/17/24 15:08	1
Sulfide (SW846 9034)	<32		32		mg/Kg	☼	09/16/24 07:29	09/16/24 09:22	1
pH (SW846 9045D)	**7.43**		0.20		SU			09/17/24 14:05	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB73 (5-7.5)
Lab Sample ID: 500-256508-4
Date Collected: 09/10/24 10:23
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 81.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0012		0.0029	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
1,1,2,2-Tetrachloroethane	<0.0015	*3	0.0029	0.0015	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
1,1,2-Trichloroethane	<0.0011		0.0029	0.0011	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
1,1-Dichloroethane	<0.0011		0.0029	0.0011	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
1,1-Dichloroethene	<0.0012		0.0029	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
1,2-Dichloroethane	<0.0019		0.0073	0.0019	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
1,2-Dichloropropane	<0.00076		0.0029	0.00076	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
2-Butanone (MEK)	**0.023**		0.0073	0.0032	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
2-Hexanone	<0.0045		0.0073	0.0045	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0073	0.0052	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Acetone	**0.074**		0.029	0.012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Benzene	<0.00092		0.0029	0.00092	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Bromodichloromethane	<0.00094		0.0029	0.00094	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Bromoform	<0.0017		0.0029	0.0017	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Bromomethane	<0.0036		0.0073	0.0036	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Carbon disulfide	**0.0023**	**J**	0.0073	0.0014	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Carbon tetrachloride	<0.0010		0.0029	0.0010	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Chlorobenzene	<0.0012		0.0029	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Chloroethane	<0.0024		0.0073	0.0024	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Chloroform	<0.0021		0.0029	0.0021	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Chloromethane	<0.0014		0.0073	0.0014	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
cis-1,2-Dichloroethene	<0.0012		0.0029	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
1,3-Dichloropropene, Total	<0.0014		0.0029	0.0014	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Dibromochloromethane	<0.0014		0.0029	0.0014	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Ethylbenzene	<0.0015		0.0029	0.0015	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Methyl tert-butyl ether	<0.00095		0.0029	0.00095	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Methylene Chloride	<0.0031		0.0073	0.0031	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Styrene	<0.0013		0.0029	0.0013	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Tetrachloroethene	<0.0016		0.0029	0.0016	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Toluene	<0.00059		0.0029	0.00059	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Xylenes, Total	<0.0010		0.0059	0.0010	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
trans-1,2-Dichloroethene	<0.0011		0.0029	0.0011	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Trichloroethene	<0.00080		0.0029	0.00080	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1
Vinyl chloride	<0.0012		0.0029	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 134*	*09/11/24 18:53*	*09/17/24 00:31*	*1*
4-Bromofluorobenzene (Surr)	*107*	*3	*75 - 131*	*09/11/24 18:53*	*09/17/24 00:31*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*09/11/24 18:53*	*09/17/24 00:31*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*09/11/24 18:53*	*09/17/24 00:31*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0078		0.038	0.0078	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Acenaphthylene	<0.0065		0.038	0.0065	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Anthracene	<0.0078		0.038	0.0078	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Benzo[a]anthracene	<0.0081		0.038	0.0081	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Benzo[a]pyrene	<0.037		0.038	0.037	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Benzo[b]fluoranthene	<0.037		0.038	0.037	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Benzo[g,h,i]perylene	<0.0083		0.038	0.0083	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB73 (5-7.5)
Lab Sample ID: 500-256508-4
Date Collected: 09/10/24 10:23
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 81.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.015		0.038	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Chrysene	<0.010		0.038	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Fluoranthene	<0.0089		0.038	0.0089	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Fluorene	<0.011		0.038	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Indeno[1,2,3-cd]pyrene	<0.037		0.038	0.037	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Naphthalene	<0.0069		0.038	0.0069	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Phenanthrene	<0.0084		0.038	0.0084	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Pyrene	<0.010		0.038	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
1,2-Dichlorobenzene	<0.016		0.19	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2,4,5-Trichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2,4,6-Trichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2,4-Dichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2,4-Dimethylphenol	<0.086		0.38	0.086	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2,4-Dinitrophenol	<0.22		0.78	0.22	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2,4-Dinitrotoluene	<0.022		0.19	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2-Methylnaphthalene	<0.0077		0.078	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2-Nitroaniline	<0.021		0.19	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
2-Nitrophenol	<0.026		0.38	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
3 & 4 Methylphenol	<0.028		0.19	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
3-Nitroaniline	<0.017		0.38	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
4,6-Dinitro-2-methylphenol	<0.22		0.78	0.22	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
4-Chloro-3-methylphenol	<0.015		0.38	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
4-Chloroaniline	<0.40		0.78	0.40	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
4-Chlorophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
4-Nitroaniline	<0.028		0.38	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
4-Nitrophenol	<0.14		0.78	0.14	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Bis(2-chloroethyl)ether	<0.018		0.19	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
bis(chloroisopropyl) ether	<0.028		0.19	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Dibenzofuran	<0.014		0.19	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Diethyl phthalate	<0.018		0.19	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Dimethyl phthalate	<0.0083		0.19	0.0083	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Di-n-octyl phthalate	<0.27		0.38	0.27	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Hexachlorobenzene	<0.0074		0.078	0.0074	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Hexachlorobutadiene	<0.022		0.19	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB73 (5-7.5)
Lab Sample ID: 500-256508-4
Date Collected: 09/10/24 10:23
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 81.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.41		0.78	0.41	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Isophorone	<0.020		0.19	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Nitrobenzene	<0.012		0.038	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
N-Nitrosodi-n-propylamine	<0.0076		0.078	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
N-Nitrosodiphenylamine	<0.023		0.19	0.023	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Pentachlorophenol	<0.096		0.78	0.096	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1
Phenol	<0.017		0.19	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*72*		*31 - 166*	*09/20/24 12:16*	*09/23/24 13:48*	*1*
Phenol-d5 (Surr)	*70*		*30 - 153*	*09/20/24 12:16*	*09/23/24 13:48*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*09/20/24 12:16*	*09/23/24 13:48*	*1*
2-Fluorobiphenyl (Surr)	*73*		*43 - 145*	*09/20/24 12:16*	*09/23/24 13:48*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*31 - 143*	*09/20/24 12:16*	*09/23/24 13:48*	*1*
Terphenyl-d14 (Surr)	*90*		*42 - 157*	*09/20/24 12:16*	*09/23/24 13:48*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
4,4'-DDT	<0.0096		0.020	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
alpha-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Chlordane (technical)	<0.038		0.080	0.038	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
delta-BHC	<0.0097		0.020	0.0097	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Dieldrin	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Endrin	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Endrin aldehyde	<0.012		0.020	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Endrin ketone	<0.0098		0.020	0.0098	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
gamma-BHC (Lindane)	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
gamma-Chlordane	<0.012		0.020	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Heptachlor epoxide	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Methoxychlor	<0.013		0.099	0.013	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10
Toxaphene	<0.081		0.20	0.081	mg/Kg	☼	09/23/24 07:18	10/01/24 09:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*33 - 148*	*09/23/24 07:18*	*10/01/24 09:47*	*10*
Tetrachloro-m-xylene	*49*		*30 - 121*	*09/23/24 07:18*	*10/01/24 09:47*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 15:13	10
PCB-1221	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 15:13	10

Client Sample ID: SB73 (5-7.5)
Date Collected: 09/10/24 10:23
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-4
Matrix: Solid
Percent Solids: 81.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 15:13	10
PCB-1242	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 15:13	10
PCB-1248	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 15:13	10
PCB-1254	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 15:13	10
PCB-1260	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 15:13	10
Polychlorinated biphenyls, Total	<0.20		0.20		mg/Kg	☼	09/23/24 07:18	09/27/24 15:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*49 - 129*	*09/23/24 07:18*	*09/27/24 15:13*	*10*
DCB Decachlorobiphenyl	*37*		*37 - 121*	*09/23/24 07:18*	*09/27/24 15:13*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2400**		21		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Antimony	<2.1		2.1		mg/Kg	☼	09/20/24 16:37	09/28/24 03:22	1
Arsenic	**1.3**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Barium	**10**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Beryllium	<0.42		0.42		mg/Kg	☼	09/20/24 16:37	09/27/24 00:32	1
Cadmium	<0.21		0.21		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Calcium	**58000**		21		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Chromium	**4.7**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Cobalt	**2.9**		0.52		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Copper	**3.4**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Iron	**6200**		21		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Lead	**2.9**		0.52		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Magnesium	**33000**		10		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Manganese	**240**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Nickel	**4.9**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Potassium	**610**		52		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Selenium	<1.0		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Silver	<0.52		0.52		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Sodium	**240**		100		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Thallium	**1.4**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Vanadium	**11**		0.52		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1
Zinc	**23**		2.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	09/26/24 17:42	09/27/24 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26		mg/Kg	☼	09/17/24 10:28	09/17/24 15:10	1
pH (SW846 9045D)	**7.62**		0.20		SU			09/17/24 14:08	1

Client Sample ID: SB74 (0-3)
Date Collected: 09/10/24 11:17
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-5
Matrix: Solid
Percent Solids: 83.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
1,1,2,2-Tetrachloroethane	<0.0015	*3	0.0031	0.0015	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
1,1,2-Trichloroethane	<0.0011		0.0031	0.0011	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
1,1-Dichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
1,1-Dichloroethene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
1,2-Dichloroethane	<0.0020		0.0076	0.0020	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
1,2-Dichloropropane	<0.00079		0.0031	0.00079	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
2-Butanone (MEK)	<0.0034		0.0076	0.0034	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
2-Hexanone	<0.0046		0.0076	0.0046	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0076	0.0054	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Acetone	<0.013		0.031	0.013	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Benzene	<0.00096		0.0031	0.00096	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Bromodichloromethane	<0.00098		0.0031	0.00098	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Bromoform	<0.0018		0.0031	0.0018	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Bromomethane	<0.0038		0.0076	0.0038	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Carbon disulfide	**0.0032**	**J**	0.0076	0.0014	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Carbon tetrachloride	<0.0010		0.0031	0.0010	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Chlorobenzene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Chloroethane	<0.0025		0.0076	0.0025	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Chloroform	<0.0022		0.0031	0.0022	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Chloromethane	<0.0015		0.0076	0.0015	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
cis-1,2-Dichloroethene	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
1,3-Dichloropropene, Total	<0.0015		0.0031	0.0015	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Dibromochloromethane	<0.0014		0.0031	0.0014	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Ethylbenzene	<0.0016		0.0031	0.0016	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Methyl tert-butyl ether	<0.00099		0.0031	0.00099	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Methylene Chloride	<0.0033		0.0076	0.0033	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Styrene	<0.0014		0.0031	0.0014	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Tetrachloroethene	<0.0017		0.0031	0.0017	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Toluene	<0.00061		0.0031	0.00061	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Xylenes, Total	<0.0010		0.0061	0.0010	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
trans-1,2-Dichloroethene	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Trichloroethene	<0.00083		0.0031	0.00083	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1
Vinyl chloride	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 134*	*09/11/24 18:53*	*09/17/24 00:56*	*1*
4-Bromofluorobenzene (Surr)	*118*	*3*	*75 - 131*	*09/11/24 18:53*	*09/17/24 00:56*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*09/11/24 18:53*	*09/17/24 00:56*	*1*
Toluene-d8 (Surr)	*110*		*75 - 124*	*09/11/24 18:53*	*09/17/24 00:56*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0077		0.038	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Acenaphthylene	<0.0064		0.038	0.0064	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Anthracene	**0.036**	**J**	0.038	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Benzo[a]anthracene	**0.068**		0.038	0.0080	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Benzo[a]pyrene	**0.045**		0.038	0.036	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Benzo[b]fluoranthene	**0.055**		0.038	0.036	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Benzo[g,h,i]perylene	**0.038**		0.038	0.0082	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB74 (0-3)
Lab Sample ID: 500-256508-5
Date Collected: 09/10/24 11:17
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 83.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.052**		0.038	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Chrysene	**0.085**		0.038	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Fluoranthene	**0.11**		0.038	0.0088	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Fluorene	<0.011		0.038	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Indeno[1,2,3-cd]pyrene	<0.037		0.038	0.037	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Naphthalene	**0.12**		0.038	0.0068	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Phenanthrene	**0.50**		0.038	0.0082	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Pyrene	**0.13**		0.038	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2,4,5-Trichlorophenol	<0.014		0.38	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2,4,6-Trichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2,4-Dichlorophenol	<0.013		0.38	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2,4-Dimethylphenol	<0.085		0.38	0.085	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2,4-Dinitrophenol	<0.22		0.76	0.22	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2,4-Dinitrotoluene	<0.022		0.19	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2-Methylnaphthalene	**0.24**		0.076	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
2-Nitrophenol	<0.026		0.38	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
3 & 4 Methylphenol	<0.028		0.19	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
3-Nitroaniline	<0.017		0.38	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
4,6-Dinitro-2-methylphenol	<0.21		0.76	0.21	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
4-Chloro-3-methylphenol	<0.015		0.38	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
4-Chloroaniline	<0.40		0.76	0.40	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
4-Chlorophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
4-Nitroaniline	<0.028		0.38	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
4-Nitrophenol	<0.14		0.76	0.14	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Carbazole	**0.023**	**J**	0.19	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Dibenzofuran	**0.11**	**J**	0.19	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Dimethyl phthalate	<0.0082		0.19	0.0082	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Di-n-octyl phthalate	<0.26		0.38	0.26	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Hexachlorobenzene	<0.0072		0.076	0.0072	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1

Client Sample ID: SB74 (0-3)
Lab Sample ID: 500-256508-5
Date Collected: 09/10/24 11:17
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 83.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.40		0.76	0.40	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Isophorone	<0.019		0.19	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Nitrobenzene	<0.012		0.038	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
N-Nitrosodi-n-propylamine	<0.0075		0.076	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Pentachlorophenol	<0.095		0.76	0.095	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1
Phenol	<0.016		0.19	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*50*		*31 - 166*	*09/20/24 12:16*	*09/23/24 14:13*	*1*
Phenol-d5 (Surr)	*56*		*30 - 153*	*09/20/24 12:16*	*09/23/24 14:13*	*1*
Nitrobenzene-d5 (Surr)	*55*		*37 - 147*	*09/20/24 12:16*	*09/23/24 14:13*	*1*
2-Fluorobiphenyl (Surr)	*66*		*43 - 145*	*09/20/24 12:16*	*09/23/24 14:13*	*1*
2,4,6-Tribromophenol (Surr)	*52*		*31 - 143*	*09/20/24 12:16*	*09/23/24 14:13*	*1*
Terphenyl-d14 (Surr)	*76*		*42 - 157*	*09/20/24 12:16*	*09/23/24 14:13*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
4,4'-DDT	<0.0093		0.020	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
alpha-Chlordane	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Chlordane (technical)	<0.037		0.078	0.037	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
delta-BHC	<0.0094		0.020	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Endrin	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Endrin aldehyde	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Endrin ketone	<0.0095		0.020	0.0095	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
gamma-BHC (Lindane)	<0.0097		0.020	0.0097	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
gamma-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Heptachlor epoxide	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Methoxychlor	<0.013		0.096	0.013	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10
Toxaphene	<0.078		0.19	0.078	mg/Kg	☼	09/23/24 07:18	10/01/24 09:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*129*		*33 - 148*	*09/23/24 07:18*	*10/01/24 09:59*	*10*
Tetrachloro-m-xylene	*54*		*30 - 121*	*09/23/24 07:18*	*10/01/24 09:59*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:29	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:29	10

Client Sample ID: SB74 (0-3)
Lab Sample ID: 500-256508-5
Date Collected: 09/10/24 11:17
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 83.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:29	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:29	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:29	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:29	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:29	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*49 - 129*	*09/23/24 07:18*	*09/27/24 15:29*	*10*
DCB Decachlorobiphenyl	*50*		*37 - 121*	*09/23/24 07:18*	*09/27/24 15:29*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7100**		23		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Antimony	<23		23		mg/Kg	☼	09/20/24 16:37	09/28/24 01:09	10
Arsenic	**8.8**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Barium	**89**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Beryllium	<4.5		4.5		mg/Kg	☼	09/20/24 16:37	09/28/24 01:09	10
Cadmium	<0.23		0.23		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Calcium	**18000**		23		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Chromium	**18**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Cobalt	**8.1**		0.57		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Copper	**24**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Iron	**52000**		23		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Lead	**22**		0.57		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Magnesium	**5100**		11		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Manganese	**350**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Nickel	**21**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Potassium	**880**		57		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Selenium	**1.9**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Silver	<0.57		0.57		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Sodium	**310**		110		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Thallium	**1.8**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Vanadium	**36**		0.57		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1
Zinc	**51**		2.3		mg/Kg	☼	09/20/24 16:37	09/25/24 18:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.018		mg/Kg	☼	09/26/24 17:42	09/27/24 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.7**		0.27		mg/Kg	☼	09/17/24 10:28	09/17/24 15:12	1
pH (SW846 9045D)	**7.42**		0.20		SU			09/17/24 14:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB74 (3-5)
Lab Sample ID: 500-256508-6
Date Collected: 09/10/24 11:24
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 83.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0027	0.0011	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
1,1,2,2-Tetrachloroethane	<0.0013	*3	0.0027	0.0013	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
1,1,2-Trichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
1,1-Dichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
1,1-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
1,2-Dichloroethane	<0.0017		0.0067	0.0017	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
1,2-Dichloropropane	<0.00069		0.0027	0.00069	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
2-Butanone (MEK)	<0.0029		0.0067	0.0029	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
2-Hexanone	<0.0041		0.0067	0.0041	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0067	0.0048	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Acetone	<0.011		0.027	0.011	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Benzene	<0.00084		0.0027	0.00084	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Bromodichloromethane	<0.00086		0.0027	0.00086	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Bromoform	<0.0016		0.0027	0.0016	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Bromomethane	<0.0033		0.0067	0.0033	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Carbon disulfide	**0.0038**	**J**	0.0067	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Carbon tetrachloride	<0.00091		0.0027	0.00091	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Chlorobenzene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Chloroethane	<0.0022		0.0067	0.0022	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Chloroform	<0.0019		0.0027	0.0019	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Chloromethane	<0.0013		0.0067	0.0013	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
cis-1,2-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
1,3-Dichloropropene, Total	<0.0013		0.0027	0.0013	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Dibromochloromethane	<0.0012		0.0027	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Ethylbenzene	<0.0014		0.0027	0.0014	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Methyl tert-butyl ether	<0.00087		0.0027	0.00087	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Methylene Chloride	<0.0029		0.0067	0.0029	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Styrene	<0.0012		0.0027	0.0012	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Tetrachloroethene	<0.0015		0.0027	0.0015	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Toluene	<0.00054		0.0027	0.00054	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Xylenes, Total	<0.00092		0.0054	0.00092	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
trans-1,2-Dichloroethene	<0.0010		0.0027	0.0010	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Trichloroethene	<0.00073		0.0027	0.00073	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1
Vinyl chloride	<0.0011		0.0027	0.0011	mg/Kg	☼	09/11/24 18:53	09/17/24 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*09/11/24 18:53*	*09/17/24 01:20*	*1*
4-Bromofluorobenzene (Surr)	*119*	*3*	*75 - 131*	*09/11/24 18:53*	*09/17/24 01:20*	*1*
Dibromofluoromethane	*97*		*75 - 126*	*09/11/24 18:53*	*09/17/24 01:20*	*1*
Toluene-d8 (Surr)	*115*		*75 - 124*	*09/11/24 18:53*	*09/17/24 01:20*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0079		0.039	0.0079	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Acenaphthylene	**0.058**		0.039	0.0066	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Anthracene	**0.084**		0.039	0.0079	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Benzo[a]anthracene	**0.16**		0.039	0.0082	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Benzo[a]pyrene	**0.13**		0.039	0.037	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Benzo[b]fluoranthene	**0.21**		0.039	0.037	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Benzo[g,h,i]perylene	**0.12**		0.039	0.0084	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB74 (3-5)
Lab Sample ID: 500-256508-6
Date Collected: 09/10/24 11:24
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 83.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.16**		0.039	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Chrysene	**0.24**		0.039	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Fluoranthene	**0.29**		0.039	0.0090	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Fluorene	<0.012		0.039	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Indeno[1,2,3-cd]pyrene	**0.12**		0.039	0.038	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Naphthalene	**0.16**		0.039	0.0070	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Phenanthrene	**1.3**		0.039	0.0085	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Pyrene	**0.31**		0.039	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
1,2,4-Trichlorobenzene	<0.028		0.20	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
1,2-Dichlorobenzene	<0.016		0.20	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
1,3-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
1,4-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2,4,5-Trichlorophenol	<0.015		0.39	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2,4,6-Trichlorophenol	<0.013		0.39	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2,4-Dichlorophenol	<0.014		0.39	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2,4-Dimethylphenol	<0.087		0.39	0.087	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2,4-Dinitrophenol	<0.22		0.79	0.22	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2,4-Dinitrotoluene	<0.022		0.20	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2,6-Dinitrotoluene	<0.013		0.20	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2-Chloronaphthalene	<0.015		0.20	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2-Chlorophenol	<0.013		0.20	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2-Methylnaphthalene	**0.49**		0.079	0.0078	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2-Methylphenol	<0.021		0.20	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2-Nitroaniline	<0.021		0.20	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
2-Nitrophenol	<0.026		0.39	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
3,3'-Dichlorobenzidine	<0.032		0.20	0.032	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
3 & 4 Methylphenol	<0.028		0.20	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
3-Nitroaniline	<0.018		0.39	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
4,6-Dinitro-2-methylphenol	<0.22		0.79	0.22	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
4-Bromophenyl phenyl ether	<0.027		0.20	0.027	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
4-Chloro-3-methylphenol	<0.015		0.39	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
4-Chloroaniline	<0.41		0.79	0.41	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
4-Chlorophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
4-Nitroaniline	<0.029		0.39	0.029	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
4-Nitrophenol	<0.14		0.79	0.14	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Bis(2-chloroethoxy)methane	<0.015		0.20	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Bis(2-chloroethyl)ether	<0.018		0.20	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
bis(chloroisopropyl) ether	<0.028		0.20	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Bis(2-ethylhexyl) phthalate	<0.15		0.20	0.15	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Butyl benzyl phthalate	<0.019		0.20	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Carbazole	**0.048**	**J**	0.20	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Dibenzofuran	**0.21**		0.20	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Diethyl phthalate	<0.018		0.20	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Dimethyl phthalate	<0.0084		0.20	0.0084	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Di-n-butyl phthalate	<0.012		0.20	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Di-n-octyl phthalate	<0.27		0.39	0.27	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Hexachlorobenzene	<0.0075		0.079	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Hexachlorobutadiene	<0.022		0.20	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB74 (3-5)
Lab Sample ID: 500-256508-6
Date Collected: 09/10/24 11:24
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 83.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.41		0.79	0.41	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Hexachloroethane	<0.019		0.20	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Isophorone	<0.020		0.20	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Nitrobenzene	<0.012		0.039	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
N-Nitrosodi-n-propylamine	<0.0077		0.079	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
N-Nitrosodiphenylamine	<0.023		0.20	0.023	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Pentachlorophenol	<0.097		0.79	0.097	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1
Phenol	<0.017		0.20	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*63*		*31 - 166*	*09/20/24 12:16*	*09/23/24 14:38*	*1*
Phenol-d5 (Surr)	*66*		*30 - 153*	*09/20/24 12:16*	*09/23/24 14:38*	*1*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/20/24 12:16*	*09/23/24 14:38*	*1*
2-Fluorobiphenyl (Surr)	*76*		*43 - 145*	*09/20/24 12:16*	*09/23/24 14:38*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*31 - 143*	*09/20/24 12:16*	*09/23/24 14:38*	*1*
Terphenyl-d14 (Surr)	*83*		*42 - 157*	*09/20/24 12:16*	*09/23/24 14:38*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
4,4'-DDT	<0.0093		0.020	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
alpha-Chlordane	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Chlordane (technical)	<0.037		0.078	0.037	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
delta-BHC	<0.0093		0.020	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Endrin	<0.010		0.020	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Endrin aldehyde	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Endrin ketone	<0.0095		0.020	0.0095	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
gamma-BHC (Lindane)	<0.0097		0.020	0.0097	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
gamma-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Heptachlor epoxide	<0.011		0.020	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Methoxychlor	<0.013		0.096	0.013	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10
Toxaphene	<0.078		0.19	0.078	mg/Kg	☼	09/23/24 07:18	10/01/24 10:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*198*	*S1+*	*33 - 148*	*09/23/24 07:18*	*10/01/24 10:10*	*10*
Tetrachloro-m-xylene	*203*	*S1+*	*30 - 121*	*09/23/24 07:18*	*10/01/24 10:10*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:44	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:44	10

Client Sample ID: SB74 (3-5)
Lab Sample ID: 500-256508-6
Date Collected: 09/10/24 11:24
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 83.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:44	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:44	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:44	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:44	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:44	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/27/24 15:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*49 - 129*	*09/23/24 07:18*	*09/27/24 15:44*	*10*
DCB Decachlorobiphenyl	*38*		*37 - 121*	*09/23/24 07:18*	*09/27/24 15:44*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9600**		23		mg/Kg	☼	09/20/24 16:37	09/25/24 18:38	1
Antimony	<11		11		mg/Kg	☼	09/20/24 16:37	09/28/24 01:13	5
Arsenic	**12**		5.7		mg/Kg	☼	09/20/24 16:37	09/27/24 00:41	5
Barium	**100**		5.7		mg/Kg	☼	09/20/24 16:37	09/27/24 00:41	5
Beryllium	**3.1**		2.3		mg/Kg	☼	09/20/24 16:37	09/27/24 00:41	5
Cadmium	<1.1		1.1		mg/Kg	☼	09/20/24 16:37	09/27/24 00:41	5
Calcium	**21000**		23		mg/Kg	☼	09/20/24 16:37	09/25/24 18:38	1
Chromium	**25**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:38	1
Cobalt	**9.6**		0.57		mg/Kg	☼	09/20/24 16:37	09/25/24 18:38	1
Copper	**36**		5.7		mg/Kg	☼	09/20/24 16:37	09/27/24 00:41	5
Iron	**79000**		110		mg/Kg	☼	09/20/24 16:37	09/28/24 01:13	5
Lead	**41**		2.9		mg/Kg	☼	09/20/24 16:37	09/27/24 00:41	5
Magnesium	**2400**		11		mg/Kg	☼	09/20/24 16:37	09/25/24 18:38	1
Manganese	**520**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:38	1
Nickel	**20**		5.7		mg/Kg	☼	09/20/24 16:37	09/27/24 00:41	5
Potassium	**1500**		57		mg/Kg	☼	09/20/24 16:37	09/25/24 18:38	1
Selenium	<5.7		5.7		mg/Kg	☼	09/20/24 16:37	09/27/24 00:41	5
Silver	<2.9		2.9		mg/Kg	☼	09/20/24 16:37	09/28/24 01:13	5
Sodium	**450**		110		mg/Kg	☼	09/20/24 16:37	09/25/24 18:38	1
Thallium	<5.7		5.7		mg/Kg	☼	09/20/24 16:37	09/27/24 00:41	5
Vanadium	**59**		2.9		mg/Kg	☼	09/20/24 16:37	09/27/24 00:41	5
Zinc	**72**		2.3		mg/Kg	☼	09/20/24 16:37	09/25/24 18:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.030**		0.018		mg/Kg	☼	09/26/24 17:42	09/27/24 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.96**		0.27		mg/Kg	☼	09/17/24 10:28	09/17/24 15:18	1
pH (SW846 9045D)	**8.08**	**^+**	0.20		SU			09/17/24 14:15	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB75 (0-3)
Lab Sample ID: 500-256508-7
Date Collected: 09/10/24 08:59
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 90.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00092		0.0023	0.00092	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
1,1,2,2-Tetrachloroethane	<0.0011	*+	0.0023	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
1,1,2-Trichloroethane	<0.00085		0.0023	0.00085	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
1,1-Dichloroethane	<0.00086		0.0023	0.00086	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
1,1-Dichloroethene	<0.00094		0.0023	0.00094	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
1,2-Dichloroethane	<0.0015		0.0057	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
1,2-Dichloropropane	<0.00059		0.0023	0.00059	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
2-Butanone (MEK)	**0.028**		0.0057	0.0025	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
2-Hexanone	<0.0035		0.0057	0.0035	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0057	0.0040	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Acetone	**0.034**	***1**	0.023	0.0096	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Benzene	<0.00072		0.0023	0.00072	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Bromodichloromethane	<0.00073		0.0023	0.00073	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Bromomethane	<0.0028		0.0057	0.0028	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Carbon disulfide	**0.0045**	**J**	0.0057	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Carbon tetrachloride	<0.00078		0.0023	0.00078	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Chlorobenzene	<0.00096		0.0023	0.00096	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Chloroethane	<0.0019		0.0057	0.0019	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Chloroform	<0.0016		0.0023	0.0016	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Chloromethane	<0.0011		0.0057	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
cis-1,2-Dichloroethene	<0.00092		0.0023	0.00092	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Methyl tert-butyl ether	<0.00073		0.0023	0.00073	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Methylene Chloride	<0.0024		0.0057	0.0024	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Styrene	<0.0010	*+	0.0023	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Toluene	**0.00055**	**J**	0.0023	0.00046	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Xylenes, Total	**0.0011**	**J**	0.0046	0.00078	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
trans-1,2-Dichloroethene	<0.00086		0.0023	0.00086	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Trichloroethene	<0.00062		0.0023	0.00062	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1
Vinyl chloride	<0.00093		0.0023	0.00093	mg/Kg	☼	09/11/24 18:53	09/15/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*09/11/24 18:53*	*09/15/24 19:14*	*1*
4-Bromofluorobenzene (Surr)	*122*		*75 - 131*	*09/11/24 18:53*	*09/15/24 19:14*	*1*
Dibromofluoromethane	*68*	*S1-*	*75 - 126*	*09/11/24 18:53*	*09/15/24 19:14*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*09/11/24 18:53*	*09/15/24 19:14*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.034	0.0070	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Acenaphthylene	**0.020**	**J**	0.034	0.0058	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Anthracene	**0.019**	**J**	0.034	0.0070	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Benzo[a]anthracene	**0.069**		0.034	0.0073	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Benzo[a]pyrene	**0.058**		0.034	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Benzo[b]fluoranthene	**0.062**		0.034	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Benzo[g,h,i]perylene	**0.037**		0.034	0.0074	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB75 (0-3)
Lab Sample ID: 500-256508-7
Date Collected: 09/10/24 08:59
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 90.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.045**		0.034	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Chrysene	**0.090**		0.034	0.0091	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Dibenz(a,h)anthracene	<0.034		0.034	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Fluoranthene	**0.13**		0.034	0.0080	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Fluorene	<0.010		0.034	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Indeno[1,2,3-cd]pyrene	**0.036**		0.034	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Naphthalene	<0.0062		0.034	0.0062	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Phenanthrene	**0.12**		0.034	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Pyrene	**0.16**		0.034	0.0094	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
1,2,4-Trichlorobenzene	<0.025		0.17	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
1,3-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2,4-Dimethylphenol	<0.077		0.34	0.077	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2,4-Dinitrophenol	<0.20		0.69	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2,4-Dinitrotoluene	<0.020		0.17	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2-Methylnaphthalene	<0.0069		0.069	0.0069	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
2-Nitrophenol	<0.023		0.34	0.023	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
3-Nitroaniline	<0.016		0.34	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
4,6-Dinitro-2-methylphenol	<0.19		0.69	0.19	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
4-Chloroaniline	<0.36		0.69	0.36	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
4-Nitroaniline	<0.025		0.34	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
4-Nitrophenol	<0.13		0.69	0.13	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
bis(chloroisopropyl) ether	<0.025		0.17	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Carbazole	<0.014		0.17	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Dimethyl phthalate	<0.0075		0.17	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Hexachlorobenzene	<0.0066		0.069	0.0066	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB75 (0-3)
Lab Sample ID: 500-256508-7
Date Collected: 09/10/24 08:59
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 90.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.36		0.69	0.36	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
N-Nitrosodi-n-propylamine	<0.0068		0.069	0.0068	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Pentachlorophenol	<0.086		0.69	0.086	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*35*		*31 - 166*	*09/20/24 12:16*	*09/23/24 15:04*	*1*
Phenol-d5 (Surr)	*58*		*30 - 153*	*09/20/24 12:16*	*09/23/24 15:04*	*1*
Nitrobenzene-d5 (Surr)	*53*		*37 - 147*	*09/20/24 12:16*	*09/23/24 15:04*	*1*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/20/24 12:16*	*09/23/24 15:04*	*1*
2,4,6-Tribromophenol (Surr)	*2*	*S1-*	*31 - 143*	*09/20/24 12:16*	*09/23/24 15:04*	*1*
Terphenyl-d14 (Surr)	*85*		*42 - 157*	*09/20/24 12:16*	*09/23/24 15:04*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0099		0.019	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
4,4'-DDE	<0.0095		0.019	0.0095	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
4,4'-DDT	<0.0087		0.019	0.0087	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
alpha-Chlordane	<0.0098		0.019	0.0098	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
delta-BHC	<0.0088		0.019	0.0088	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Dieldrin	<0.0096		0.019	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Endrin	<0.0094		0.019	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Heptachlor epoxide	<0.0099		0.019	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/23/24 07:18	10/01/24 10:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*33 - 148*	*09/23/24 07:18*	*10/01/24 10:22*	*10*
Tetrachloro-m-xylene	*49*		*30 - 121*	*09/23/24 07:18*	*10/01/24 10:22*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 15:59	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 15:59	10

Client Sample ID: SB75 (0-3)
Date Collected: 09/10/24 08:59
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-7
Matrix: Solid
Percent Solids: 90.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 15:59	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 15:59	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 15:59	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 15:59	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 15:59	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 15:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*49 - 129*	*09/23/24 07:18*	*09/27/24 15:59*	*10*
DCB Decachlorobiphenyl	*51*		*37 - 121*	*09/23/24 07:18*	*09/27/24 15:59*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		18		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Antimony	<9.2		9.2		mg/Kg	☼	09/20/24 16:37	09/28/24 01:18	5
Arsenic	**4.1**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Barium	**110**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Beryllium	**2.4**		1.8		mg/Kg	☼	09/20/24 16:37	09/27/24 00:45	5
Cadmium	**0.82**		0.18		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Calcium	**160000**	**B**	92		mg/Kg	☼	09/20/24 16:37	09/27/24 00:45	5
Chromium	**26**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Cobalt	**3.2**		0.46		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Copper	**40**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Iron	**27000**		18		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Lead	**83**		0.46		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Magnesium	**32000**		9.2		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Manganese	**1600**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Nickel	**16**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Potassium	**580**		46		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Selenium	**1.4**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Silver	<2.3		2.3		mg/Kg	☼	09/20/24 16:37	09/28/24 01:18	5
Sodium	**270**		92		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Thallium	**7.4**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Vanadium	**13**		0.46		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1
Zinc	**150**		1.8		mg/Kg	☼	09/20/24 16:37	09/25/24 18:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**6.1**		0.26		mg/Kg	☼	09/17/24 10:28	09/17/24 15:19	1
pH (SW846 9045D)	**11.87**	**^+**	0.20		SU			09/17/24 14:19	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB75 (5-7.5)
Lab Sample ID: 500-256508-8
Date Collected: 09/10/24 09:14
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 88.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00087		0.0022	0.00087	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
1,1,2,2-Tetrachloroethane	<0.0011	*+	0.0022	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
1,1-Dichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
1,1-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
2-Butanone (MEK)	<0.0024		0.0054	0.0024	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0054	0.0038	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Acetone	**0.012**	**J *1**	0.022	0.0091	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Benzene	<0.00068		0.0022	0.00068	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Bromodichloromethane	<0.00069		0.0022	0.00069	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Bromomethane	<0.0027		0.0054	0.0027	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Carbon disulfide	**0.0031**	**J**	0.0054	0.00099	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Carbon tetrachloride	<0.00074		0.0022	0.00074	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Chlorobenzene	<0.00091		0.0022	0.00091	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Chloromethane	<0.0010		0.0054	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
cis-1,2-Dichloroethene	<0.00087		0.0022	0.00087	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Methyl tert-butyl ether	<0.00070		0.0022	0.00070	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Styrene	<0.00097	*+	0.0022	0.00097	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Toluene	<0.00043		0.0022	0.00043	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Xylenes, Total	<0.00074		0.0043	0.00074	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
trans-1,2-Dichloroethene	<0.00082		0.0022	0.00082	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Trichloroethene	<0.00059		0.0022	0.00059	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1
Vinyl chloride	<0.00088		0.0022	0.00088	mg/Kg	☼	09/11/24 18:53	09/15/24 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/11/24 18:53*	*09/15/24 19:39*	*1*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*75 - 131*	*09/11/24 18:53*	*09/15/24 19:39*	*1*
Dibromofluoromethane	*73*	*S1-*	*75 - 126*	*09/11/24 18:53*	*09/15/24 19:39*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/11/24 18:53*	*09/15/24 19:39*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015		0.073	0.015	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Acenaphthylene	<0.012		0.073	0.012	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Anthracene	<0.015		0.073	0.015	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Benzo[a]anthracene	**0.070**	**J**	0.073	0.016	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Benzo[a]pyrene	<0.071		0.073	0.071	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Benzo[b]fluoranthene	**0.12**		0.073	0.070	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Benzo[g,h,i]perylene	<0.016		0.073	0.016	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB75 (5-7.5)
Lab Sample ID: 500-256508-8
Date Collected: 09/10/24 09:14
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 88.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.028		0.073	0.028	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Chrysene	**0.15**		0.073	0.019	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Dibenz(a,h)anthracene	<0.073		0.073	0.073	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Fluoranthene	**0.13**		0.073	0.017	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Fluorene	<0.022		0.073	0.022	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Indeno[1,2,3-cd]pyrene	<0.071		0.073	0.071	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Naphthalene	<0.013		0.073	0.013	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Phenanthrene	**0.045**	**J**	0.073	0.016	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Pyrene	**0.12**		0.073	0.020	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
1,2,4-Trichlorobenzene	<0.052		0.37	0.052	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
1,3-Dichlorobenzene	<0.033		0.37	0.033	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
1,4-Dichlorobenzene	<0.035		0.37	0.035	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2,4,5-Trichlorophenol	<0.028		0.73	0.028	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2,4,6-Trichlorophenol	<0.025		0.73	0.025	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2,4-Dichlorophenol	<0.026		0.73	0.026	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2,4-Dimethylphenol	<0.16		0.73	0.16	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2,4-Dinitrotoluene	<0.042		0.37	0.042	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2-Chloronaphthalene	<0.027		0.37	0.027	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2-Chlorophenol	<0.024		0.37	0.024	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2-Methylnaphthalene	<0.015		0.15	0.015	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2-Methylphenol	<0.039		0.37	0.039	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2-Nitroaniline	<0.039		0.37	0.039	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
2-Nitrophenol	<0.050		0.73	0.050	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
3,3'-Dichlorobenzidine	<0.060		0.37	0.060	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
3 & 4 Methylphenol	<0.054		0.37	0.054	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
3-Nitroaniline	<0.033		0.73	0.033	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
4-Bromophenyl phenyl ether	<0.050		0.37	0.050	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
4-Chloro-3-methylphenol	<0.029		0.73	0.029	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
4-Chloroaniline	<0.77		1.5	0.77	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
4-Chlorophenyl phenyl ether	<0.096		0.37	0.096	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
4-Nitroaniline	<0.054		0.73	0.054	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Bis(2-chloroethoxy)methane	<0.027		0.37	0.027	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Bis(2-chloroethyl)ether	<0.034		0.37	0.034	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
bis(chloroisopropyl) ether	<0.053		0.37	0.053	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Bis(2-ethylhexyl) phthalate	<0.29		0.37	0.29	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Butyl benzyl phthalate	<0.036		0.37	0.036	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Carbazole	<0.029		0.37	0.029	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Dibenzofuran	<0.026		0.37	0.026	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Diethyl phthalate	<0.034		0.37	0.034	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Di-n-butyl phthalate	<0.023		0.37	0.023	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Di-n-octyl phthalate	<0.51		0.73	0.51	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Hexachlorobutadiene	<0.041		0.37	0.041	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB75 (5-7.5)
Lab Sample ID: 500-256508-8
Date Collected: 09/10/24 09:14
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 88.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.78		1.5	0.78	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Hexachloroethane	<0.037		0.37	0.037	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Isophorone	<0.038		0.37	0.038	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Nitrobenzene	<0.023		0.073	0.023	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
N-Nitrosodiphenylamine	<0.044		0.37	0.044	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2
Phenol	<0.032		0.37	0.032	mg/Kg	☼	09/20/24 12:16	09/24/24 13:53	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*34*		*31 - 166*	*09/20/24 12:16*	*09/24/24 13:53*	*2*
Phenol-d5 (Surr)	*48*		*30 - 153*	*09/20/24 12:16*	*09/24/24 13:53*	*2*
Nitrobenzene-d5 (Surr)	*47*		*37 - 147*	*09/20/24 12:16*	*09/24/24 13:53*	*2*
2-Fluorobiphenyl (Surr)	*51*		*43 - 145*	*09/20/24 12:16*	*09/24/24 13:53*	*2*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/20/24 12:16*	*09/24/24 13:53*	*2*
Terphenyl-d14 (Surr)	*54*		*42 - 157*	*09/20/24 12:16*	*09/24/24 13:53*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0099		0.019	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
4,4'-DDE	<0.0095		0.019	0.0095	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
delta-BHC	<0.0088		0.019	0.0088	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Dieldrin	<0.0096		0.019	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Endrin	<0.0094		0.019	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Heptachlor epoxide	<0.0099		0.019	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/23/24 07:18	10/01/24 10:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*33 - 148*	*09/23/24 07:18*	*10/01/24 10:34*	*10*
Tetrachloro-m-xylene	*53*		*30 - 121*	*09/23/24 07:18*	*10/01/24 10:34*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/30/24 11:06	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/30/24 11:06	10

Client Sample ID: SB75 (5-7.5)
Date Collected: 09/10/24 09:14
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-8
Matrix: Solid
Percent Solids: 88.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/30/24 11:06	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/30/24 11:06	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/30/24 11:06	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/30/24 11:06	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/30/24 11:06	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/30/24 11:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*49 - 129*	*09/23/24 07:18*	*09/30/24 11:06*	*10*
DCB Decachlorobiphenyl	*114*		*37 - 121*	*09/23/24 07:18*	*09/30/24 11:06*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		21		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Antimony	<11		11		mg/Kg	☼	09/20/24 16:37	09/28/24 01:22	5
Arsenic	**5.9**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Barium	**110**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Beryllium	**2.1**		2.1		mg/Kg	☼	09/20/24 16:37	09/27/24 00:49	5
Cadmium	**1.7**		0.21		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Calcium	**150000**	**B**	110		mg/Kg	☼	09/20/24 16:37	09/27/24 00:49	5
Chromium	**49**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Cobalt	**4.4**		0.53		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Copper	**77**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Iron	**45000**		21		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Lead	**300**		0.53		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Magnesium	**34000**		11		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Manganese	**1400**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Nickel	**28**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Potassium	**320**		53		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Selenium	**1.7**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Silver	<2.6		2.6		mg/Kg	☼	09/20/24 16:37	09/28/24 01:22	5
Sodium	**220**		110		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Thallium	**5.8**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Vanadium	**13**		0.53		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1
Zinc	**270**		2.1		mg/Kg	☼	09/20/24 16:37	09/25/24 18:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**3.4**		0.24		mg/Kg	☼	09/17/24 10:28	09/17/24 15:21	1
pH (SW846 9045D)	**11.39**	**^+**	0.20		SU			09/17/24 14:22	1

Client Sample ID: SB76 (0-3)
Lab Sample ID: 500-256508-9
Date Collected: 09/10/24 10:00
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 87.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.0017**	**J**	0.0025	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
1,1,2,2-Tetrachloroethane	<0.0013	*+	0.0025	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
1,1,2-Trichloroethane	<0.00095		0.0025	0.00095	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
1,1-Dichloroethane	<0.00095		0.0025	0.00095	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
1,2-Dichloroethane	<0.0016		0.0063	0.0016	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
1,2-Dichloropropane	<0.00065		0.0025	0.00065	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
2-Butanone (MEK)	**0.0051**	**J**	0.0063	0.0028	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
2-Hexanone	<0.0038		0.0063	0.0038	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0063	0.0045	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Acetone	**0.018**	**J *1**	0.025	0.011	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Benzene	<0.00079		0.0025	0.00079	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Bromodichloromethane	<0.00081		0.0025	0.00081	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Bromoform	<0.0015		0.0025	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Bromomethane	<0.0031		0.0063	0.0031	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Carbon disulfide	**0.0034**	**J**	0.0063	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Carbon tetrachloride	<0.00086		0.0025	0.00086	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Chlorobenzene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Chloroethane	<0.0021		0.0063	0.0021	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Chloromethane	<0.0012		0.0063	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
cis-1,2-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Dibromochloromethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Methyl tert-butyl ether	<0.00081		0.0025	0.00081	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Methylene Chloride	<0.0027		0.0063	0.0027	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Styrene	<0.0011	*+	0.0025	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Toluene	<0.00051		0.0025	0.00051	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Xylenes, Total	<0.00087		0.0050	0.00087	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
trans-1,2-Dichloroethene	<0.00095		0.0025	0.00095	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Trichloroethene	<0.00069		0.0025	0.00069	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/11/24 18:53*	*09/15/24 20:04*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*09/11/24 18:53*	*09/15/24 20:04*	*1*
Dibromofluoromethane	*79*		*75 - 126*	*09/11/24 18:53*	*09/15/24 20:04*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*09/11/24 18:53*	*09/15/24 20:04*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.015**	**J**	0.037	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Acenaphthylene	**0.24**		0.037	0.0064	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Anthracene	**0.19**		0.037	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Benzo[a]anthracene	**0.63**		0.037	0.0080	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Benzo[a]pyrene	**0.95**		0.037	0.036	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Benzo[b]fluoranthene	**1.2**		0.037	0.036	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Benzo[g,h,i]perylene	**1.2**		0.037	0.0081	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB76 (0-3)
Lab Sample ID: 500-256508-9
Date Collected: 09/10/24 10:00
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 87.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.1**		0.037	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Chrysene	**0.78**		0.037	0.0099	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Dibenz(a,h)anthracene	**0.32**		0.037	0.037	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Fluoranthene	**0.59**		0.037	0.0087	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Fluorene	**0.020**	**J**	0.037	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Indeno[1,2,3-cd]pyrene	**1.1**		0.037	0.037	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Naphthalene	**0.042**		0.037	0.0068	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Phenanthrene	**0.19**		0.037	0.0082	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Pyrene	**0.84**		0.037	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
1,2,4-Trichlorobenzene	<0.027		0.19	0.027	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
1,4-Dichlorobenzene	<0.018		0.19	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2,4-Dimethylphenol	<0.084		0.37	0.084	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2,4-Dinitrophenol	<0.22		0.76	0.22	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2,4-Dinitrotoluene	<0.021		0.19	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2-Methylnaphthalene	<0.0075		0.076	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
3,3'-Dichlorobenzidine	<0.031		0.19	0.031	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
3 & 4 Methylphenol	<0.027		0.19	0.027	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
4,6-Dinitro-2-methylphenol	<0.21		0.76	0.21	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
4-Bromophenyl phenyl ether	<0.026		0.19	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
4-Chloro-3-methylphenol	<0.015		0.37	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
4-Chloroaniline	<0.39		0.76	0.39	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
4-Chlorophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
4-Nitroaniline	<0.028		0.37	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
4-Nitrophenol	<0.14		0.76	0.14	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Bis(2-ethylhexyl) phthalate	<0.15		0.19	0.15	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Butyl benzyl phthalate	<0.019		0.19	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Carbazole	**0.050**	**J**	0.19	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Dibenzofuran	**0.036**	**J**	0.19	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Dimethyl phthalate	<0.0082		0.19	0.0082	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Hexachlorobenzene	<0.0072		0.076	0.0072	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1

Client Sample ID: SB76 (0-3)
Lab Sample ID: 500-256508-9
Date Collected: 09/10/24 10:00
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 87.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.40		0.76	0.40	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Hexachloroethane	<0.019		0.19	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Isophorone	<0.019		0.19	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
N-Nitrosodi-n-propylamine	<0.0074		0.076	0.0074	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Pentachlorophenol	<0.094		0.76	0.094	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1
Phenol	**0.099**	**J**	0.19	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*45*		*31 - 166*	*09/20/24 12:16*	*09/23/24 15:54*	*1*
Phenol-d5 (Surr)	*59*		*30 - 153*	*09/20/24 12:16*	*09/23/24 15:54*	*1*
Nitrobenzene-d5 (Surr)	*52*		*37 - 147*	*09/20/24 12:16*	*09/23/24 15:54*	*1*
2-Fluorobiphenyl (Surr)	*66*		*43 - 145*	*09/20/24 12:16*	*09/23/24 15:54*	*1*
2,4,6-Tribromophenol (Surr)	*4*	*S1-*	*31 - 143*	*09/20/24 12:16*	*09/23/24 15:54*	*1*
Terphenyl-d14 (Surr)	*80*		*42 - 157*	*09/20/24 12:16*	*09/23/24 15:54*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
4,4'-DDE	<0.0097		0.019	0.0097	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
4,4'-DDT	<0.0089		0.019	0.0089	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Chlordane (technical)	<0.036		0.075	0.036	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
delta-BHC	<0.0090		0.019	0.0090	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Dieldrin	<0.0098		0.019	0.0098	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Endrin	<0.0096		0.019	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Endrin ketone	<0.0092		0.019	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
gamma-BHC (Lindane)	<0.0094		0.019	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Methoxychlor	<0.012		0.093	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10
Toxaphene	<0.075		0.19	0.075	mg/Kg	☼	09/23/24 07:18	10/01/24 10:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*122*		*33 - 148*	*09/23/24 07:18*	*10/01/24 10:45*	*10*
Tetrachloro-m-xylene	*57*		*30 - 121*	*09/23/24 07:18*	*10/01/24 10:45*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/30/24 11:21	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/30/24 11:21	10

Client Sample ID: SB76 (0-3)
Date Collected: 09/10/24 10:00
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-9
Matrix: Solid
Percent Solids: 87.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/30/24 11:21	10
PCB-1242	**0.22**		0.19		mg/Kg	☼	09/23/24 07:18	09/30/24 11:21	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/30/24 11:21	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/30/24 11:21	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/23/24 07:18	09/30/24 11:21	10
Polychlorinated biphenyls, Total	**0.22**		0.19		mg/Kg	☼	09/23/24 07:18	09/30/24 11:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*49 - 129*	*09/23/24 07:18*	*09/30/24 11:21*	*10*
DCB Decachlorobiphenyl	*100*		*37 - 121*	*09/23/24 07:18*	*09/30/24 11:21*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**24000**		19		mg/Kg	☼	09/20/24 16:37	09/25/24 19:00	1
Antimony	<9.6		9.6		mg/Kg	☼	09/20/24 16:37	09/28/24 01:26	5
Arsenic	<48		48		mg/Kg	☼	09/20/24 16:37	09/27/24 00:58	50
Barium	**390**		4.8		mg/Kg	☼	09/20/24 16:37	09/27/24 00:54	5
Beryllium	**3.8**		1.9		mg/Kg	☼	09/20/24 16:37	09/27/24 00:54	5
Cadmium	**1.3**		0.96		mg/Kg	☼	09/20/24 16:37	09/27/24 00:54	5
Calcium	**190000**	**B**	96		mg/Kg	☼	09/20/24 16:37	09/27/24 00:54	5
Chromium	**2200**		48		mg/Kg	☼	09/20/24 16:37	09/27/24 00:58	50
Cobalt	**5.5**		0.48		mg/Kg	☼	09/20/24 16:37	09/25/24 19:00	1
Copper	**150**		4.8		mg/Kg	☼	09/20/24 16:37	09/27/24 00:54	5
Iron	**95000**		96		mg/Kg	☼	09/20/24 16:37	09/28/24 01:26	5
Lead	**540**		2.4		mg/Kg	☼	09/20/24 16:37	09/27/24 00:54	5
Magnesium	**20000**		9.6		mg/Kg	☼	09/20/24 16:37	09/25/24 19:00	1
Manganese	**33000**		48		mg/Kg	☼	09/20/24 16:37	09/28/24 01:31	50
Nickel	**56**		4.8		mg/Kg	☼	09/20/24 16:37	09/27/24 00:54	5
Potassium	**880**		48		mg/Kg	☼	09/20/24 16:37	09/25/24 19:00	1
Selenium	**12**		4.8		mg/Kg	☼	09/20/24 16:37	09/27/24 00:54	5
Silver	<2.4		2.4		mg/Kg	☼	09/20/24 16:37	09/28/24 01:26	5
Sodium	**520**		96		mg/Kg	☼	09/20/24 16:37	09/25/24 19:00	1
Thallium	**88**		48		mg/Kg	☼	09/20/24 16:37	09/27/24 00:58	50
Vanadium	**350**		2.4		mg/Kg	☼	09/20/24 16:37	09/27/24 00:54	5
Zinc	**220**		1.9		mg/Kg	☼	09/20/24 16:37	09/25/24 19:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.041**		0.018		mg/Kg	☼	09/26/24 17:42	09/27/24 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**11**		1.3		mg/Kg	☼	09/17/24 10:28	09/19/24 10:41	5
pH (SW846 9045D)	**11.45**	**^+**	0.20		SU			09/17/24 14:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB76 (7.5-10)
Lab Sample ID: 500-256508-10
Date Collected: 09/10/24 10:13
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 77.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.019**		0.0031	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
1,1,2,2-Tetrachloroethane	<0.0015	*+	0.0031	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
1,1,2-Trichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
1,1-Dichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
1,1-Dichloroethene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
1,2-Dichloroethane	<0.0020		0.0078	0.0020	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
1,2-Dichloropropane	<0.00081		0.0031	0.00081	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
2-Butanone (MEK)	<0.0034		0.0078	0.0034	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
2-Hexanone	<0.0047		0.0078	0.0047	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0078	0.0055	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Acetone	**0.018**	**J *1**	0.031	0.013	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Benzene	<0.00098		0.0031	0.00098	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Bromodichloromethane	<0.0010		0.0031	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Bromoform	<0.0018		0.0031	0.0018	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Bromomethane	<0.0038		0.0078	0.0038	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Carbon disulfide	**0.012**		0.0078	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Carbon tetrachloride	<0.0011		0.0031	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Chlorobenzene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Chloroethane	<0.0026		0.0078	0.0026	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Chloroform	<0.0022		0.0031	0.0022	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Chloromethane	<0.0015		0.0078	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
cis-1,2-Dichloroethene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
1,3-Dichloropropene, Total	<0.0015		0.0031	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Dibromochloromethane	<0.0014		0.0031	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Ethylbenzene	<0.0016		0.0031	0.0016	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Methyl tert-butyl ether	<0.0010		0.0031	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Methylene Chloride	<0.0033		0.0078	0.0033	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Styrene	<0.0014	*+	0.0031	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Tetrachloroethene	<0.0018		0.0031	0.0018	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Toluene	<0.00063		0.0031	0.00063	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Xylenes, Total	<0.0011		0.0062	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
trans-1,2-Dichloroethene	<0.0012		0.0031	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Trichloroethene	<0.00085		0.0031	0.00085	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1
Vinyl chloride	<0.0013		0.0031	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*09/11/24 18:53*	*09/15/24 20:29*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*	*09/11/24 18:53*	*09/15/24 20:29*	*1*
Dibromofluoromethane	*75*		*75 - 126*	*09/11/24 18:53*	*09/15/24 20:29*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*09/11/24 18:53*	*09/15/24 20:29*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0085		0.042	0.0085	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Acenaphthylene	<0.0071		0.042	0.0071	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Anthracene	<0.0086		0.042	0.0086	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Benzo[a]anthracene	**0.015**	**J**	0.042	0.0089	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Benzo[a]pyrene	<0.040		0.042	0.040	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Benzo[b]fluoranthene	<0.040		0.042	0.040	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Benzo[g,h,i]perylene	**0.019**	**J**	0.042	0.0091	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB76 (7.5-10)
Lab Sample ID: 500-256508-10
Date Collected: 09/10/24 10:13
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 77.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.016		0.042	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Chrysene	**0.019**	**J**	0.042	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Dibenz(a,h)anthracene	<0.042		0.042	0.042	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Fluoranthene	**0.022**	**J**	0.042	0.0097	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Fluorene	<0.012		0.042	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Indeno[1,2,3-cd]pyrene	<0.041		0.042	0.041	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Naphthalene	<0.0076		0.042	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Phenanthrene	**0.063**		0.042	0.0091	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Pyrene	**0.023**	**J**	0.042	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
1,2,4-Trichlorobenzene	<0.030		0.21	0.030	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
1,2-Dichlorobenzene	<0.017		0.21	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
1,3-Dichlorobenzene	<0.019		0.21	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
1,4-Dichlorobenzene	<0.020		0.21	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2,4,5-Trichlorophenol	<0.016		0.42	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2,4,6-Trichlorophenol	<0.014		0.42	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2,4-Dichlorophenol	<0.015		0.42	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2,4-Dimethylphenol	<0.094		0.42	0.094	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2,4-Dinitrophenol	<0.24		0.85	0.24	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2,4-Dinitrotoluene	<0.024		0.21	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2,6-Dinitrotoluene	<0.014		0.21	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2-Chloronaphthalene	<0.016		0.21	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2-Chlorophenol	<0.014		0.21	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2-Methylnaphthalene	<0.0084		0.085	0.0084	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2-Methylphenol	<0.022		0.21	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2-Nitroaniline	<0.022		0.21	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
2-Nitrophenol	<0.028		0.42	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
3,3'-Dichlorobenzidine	<0.034		0.21	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
3 & 4 Methylphenol	<0.031		0.21	0.031	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
3-Nitroaniline	<0.019		0.42	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
4,6-Dinitro-2-methylphenol	<0.24		0.85	0.24	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
4-Bromophenyl phenyl ether	<0.029		0.21	0.029	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
4-Chloro-3-methylphenol	<0.016		0.42	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
4-Chloroaniline	<0.44		0.85	0.44	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
4-Chlorophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
4-Nitroaniline	<0.031		0.42	0.031	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
4-Nitrophenol	<0.16		0.85	0.16	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Bis(2-chloroethoxy)methane	<0.016		0.21	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Bis(2-chloroethyl)ether	<0.019		0.21	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
bis(chloroisopropyl) ether	<0.030		0.21	0.030	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Bis(2-ethylhexyl) phthalate	**0.52**		0.21	0.16	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Butyl benzyl phthalate	<0.021		0.21	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Carbazole	<0.017		0.21	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Dibenzofuran	<0.015		0.21	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Diethyl phthalate	<0.019		0.21	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Dimethyl phthalate	<0.0091		0.21	0.0091	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Di-n-butyl phthalate	<0.013		0.21	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Di-n-octyl phthalate	<0.29		0.42	0.29	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Hexachlorobenzene	<0.0080		0.085	0.0080	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Hexachlorobutadiene	<0.024		0.21	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB76 (7.5-10)
Lab Sample ID: 500-256508-10
Date Collected: 09/10/24 10:13
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 77.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.44		0.85	0.44	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Hexachloroethane	<0.021		0.21	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Isophorone	<0.022		0.21	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Nitrobenzene	<0.013		0.042	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
N-Nitrosodi-n-propylamine	<0.0083		0.085	0.0083	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
N-Nitrosodiphenylamine	<0.025		0.21	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Pentachlorophenol	<0.10		0.85	0.10	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1
Phenol	<0.018		0.21	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*54*		*31 - 166*	*09/20/24 12:16*	*09/23/24 16:19*	*1*
Phenol-d5 (Surr)	*65*		*30 - 153*	*09/20/24 12:16*	*09/23/24 16:19*	*1*
Nitrobenzene-d5 (Surr)	*61*		*37 - 147*	*09/20/24 12:16*	*09/23/24 16:19*	*1*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*	*09/20/24 12:16*	*09/23/24 16:19*	*1*
2,4,6-Tribromophenol (Surr)	*26*	*S1-*	*31 - 143*	*09/20/24 12:16*	*09/23/24 16:19*	*1*
Terphenyl-d14 (Surr)	*90*		*42 - 157*	*09/20/24 12:16*	*09/23/24 16:19*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.012		0.022	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
4,4'-DDE	<0.011		0.022	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
4,4'-DDT	<0.010		0.022	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Aldrin	<0.015		0.022	0.015	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
alpha-BHC	<0.012		0.022	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
alpha-Chlordane	<0.012		0.022	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
beta-BHC	<0.017		0.022	0.017	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Chlordane (technical)	<0.041		0.086	0.041	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
delta-BHC	<0.010		0.022	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Dieldrin	<0.011		0.022	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Endosulfan I	<0.012		0.022	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Endosulfan II	<0.012		0.022	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Endosulfan sulfate	<0.012		0.022	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Endrin	<0.011		0.022	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Endrin aldehyde	<0.012		0.022	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Endrin ketone	<0.011		0.022	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
gamma-BHC (Lindane)	<0.011		0.022	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
gamma-Chlordane	<0.012		0.022	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Heptachlor	<0.012		0.022	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Heptachlor epoxide	<0.012		0.022	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Methoxychlor	<0.014		0.11	0.014	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10
Toxaphene	<0.086		0.21	0.086	mg/Kg	☼	09/23/24 07:18	10/01/24 10:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*33 - 148*	*09/23/24 07:18*	*10/01/24 10:57*	*10*
Tetrachloro-m-xylene	*39*		*30 - 121*	*09/23/24 07:18*	*10/01/24 10:57*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.21		0.21		mg/Kg	☼	09/23/24 07:18	09/27/24 16:45	10
PCB-1221	<0.21		0.21		mg/Kg	☼	09/23/24 07:18	09/27/24 16:45	10

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256508-1

Client Sample ID: SB76 (7.5-10)

Date Collected: 09/10/24 10:13
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-10

Matrix: Solid
Percent Solids: 77.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.21		0.21		mg/Kg	☼	09/23/24 07:18	09/27/24 16:45	10
PCB-1242	<0.21		0.21		mg/Kg	☼	09/23/24 07:18	09/27/24 16:45	10
PCB-1248	<0.21		0.21		mg/Kg	☼	09/23/24 07:18	09/27/24 16:45	10
PCB-1254	<0.21		0.21		mg/Kg	☼	09/23/24 07:18	09/27/24 16:45	10
PCB-1260	<0.21		0.21		mg/Kg	☼	09/23/24 07:18	09/27/24 16:45	10
Polychlorinated biphenyls, Total	<0.21		0.21		mg/Kg	☼	09/23/24 07:18	09/27/24 16:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*49 - 129*	*09/23/24 07:18*	*09/27/24 16:45*	*10*
DCB Decachlorobiphenyl	*58*		*37 - 121*	*09/23/24 07:18*	*09/27/24 16:45*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**38000**		26		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Antimony	<13		13		mg/Kg	☼	09/20/24 16:37	09/28/24 01:35	5
Arsenic	**4.0**		1.3		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Barium	**390**		1.3		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Beryllium	**7.6**		2.6		mg/Kg	☼	09/20/24 16:37	09/27/24 01:12	5
Cadmium	<0.26		0.26		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Calcium	**220000**		130		mg/Kg	☼	09/20/24 16:37	09/28/24 01:35	5
Chromium	**7.3**		1.3		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Cobalt	**2.8**		0.64		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Copper	**3.6**		1.3		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Iron	**7200**		26		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Lead	**23**		0.64		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Magnesium	**10000**		13		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Manganese	**9300**		6.4		mg/Kg	☼	09/20/24 16:37	09/28/24 01:35	5
Nickel	**5.9**		1.3		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Potassium	**2000**		64		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Selenium	**3.8**		1.3		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Silver	<3.2		3.2		mg/Kg	☼	09/20/24 16:37	09/28/24 01:35	5
Sodium	**910**		130		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Thallium	**32**		6.4		mg/Kg	☼	09/20/24 16:37	09/27/24 01:12	5
Vanadium	**13**		0.64		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1
Zinc	**39**		2.6		mg/Kg	☼	09/20/24 16:37	09/25/24 19:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.021		0.021		mg/Kg	☼	09/26/24 17:42	09/27/24 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**67**		4.2		mg/Kg	☼	09/17/24 10:28	09/19/24 10:46	15
pH (SW846 9045D)	**11.05**	**^+**	0.20		SU			09/17/24 14:27	1

Client Sample ID: SB77 (0-3)
Lab Sample ID: 500-256508-11

Date Collected: 09/10/24 11:01
Matrix: Solid

Date Received: 09/11/24 11:05
Percent Solids: 92.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00087		0.0021	0.00087	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
1,1,2,2-Tetrachloroethane	<0.0011	*+	0.0021	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
1,1,2-Trichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
1,1-Dichloroethane	<0.00081		0.0021	0.00081	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
1,1-Dichloroethene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
2-Butanone (MEK)	**0.0060**		0.0054	0.0024	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0054	0.0038	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Acetone	**0.029**	***1**	0.021	0.0090	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Benzene	<0.00067		0.0021	0.00067	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Bromodichloromethane	<0.00069		0.0021	0.00069	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Bromoform	<0.0013		0.0021	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Bromomethane	<0.0026		0.0054	0.0026	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Carbon disulfide	**0.0084**		0.0054	0.00099	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Carbon tetrachloride	<0.00073		0.0021	0.00073	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Chlorobenzene	<0.00090		0.0021	0.00090	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Chloromethane	<0.0010		0.0054	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
cis-1,2-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Dibromochloromethane	<0.00099		0.0021	0.00099	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Methyl tert-butyl ether	<0.00069		0.0021	0.00069	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Styrene	<0.00096	*+	0.0021	0.00096	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Toluene	**0.00069**	**J**	0.0021	0.00043	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Xylenes, Total	<0.00073		0.0043	0.00073	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
trans-1,2-Dichloroethene	<0.00081		0.0021	0.00081	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Trichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1
Vinyl chloride	<0.00088		0.0021	0.00088	mg/Kg	☼	09/11/24 18:53	09/15/24 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/11/24 18:53*	*09/15/24 20:54*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*09/11/24 18:53*	*09/15/24 20:54*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*09/11/24 18:53*	*09/15/24 20:54*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*09/11/24 18:53*	*09/15/24 20:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.034**		0.034	0.0070	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Acenaphthylene	**0.072**		0.034	0.0058	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Anthracene	**0.084**		0.034	0.0070	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Benzo[a]anthracene	**0.46**		0.034	0.0073	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Benzo[a]pyrene	**0.60**		0.034	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Benzo[b]fluoranthene	**0.75**		0.034	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Benzo[g,h,i]perylene	**0.46**		0.034	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB77 (0-3)
Lab Sample ID: 500-256508-11
Date Collected: 09/10/24 11:01
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 92.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.69**		0.034	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Chrysene	**0.59**		0.034	0.0091	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Dibenz(a,h)anthracene	**0.11**		0.034	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Fluoranthene	**0.58**		0.034	0.0080	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Fluorene	**0.018**	**J**	0.034	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Indeno[1,2,3-cd]pyrene	**0.47**		0.034	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Naphthalene	**0.018**	**J**	0.034	0.0062	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Phenanthrene	**0.19**		0.034	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Pyrene	**0.68**		0.034	0.0094	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
1,2,4-Trichlorobenzene	<0.025		0.17	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
1,3-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2,4-Dimethylphenol	<0.077		0.34	0.077	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2,4-Dinitrophenol	<0.20		0.70	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2,4-Dinitrotoluene	<0.020		0.17	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2-Methylnaphthalene	<0.0069		0.070	0.0069	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
2-Nitrophenol	<0.023		0.34	0.023	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
3-Nitroaniline	<0.016		0.34	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
4,6-Dinitro-2-methylphenol	<0.19		0.70	0.19	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
4-Bromophenyl phenyl ether	<0.024		0.17	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
4-Chloroaniline	<0.36		0.70	0.36	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
4-Nitroaniline	<0.025		0.34	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
4-Nitrophenol	<0.13		0.70	0.13	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
bis(chloroisopropyl) ether	<0.025		0.17	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Butyl benzyl phthalate	**4.9**		0.17	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Carbazole	**0.034**	**J**	0.17	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Dimethyl phthalate	<0.0075		0.17	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Di-n-butyl phthalate	**0.013**	**J**	0.17	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Hexachlorobenzene	<0.0066		0.070	0.0066	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1

Client Sample ID: SB77 (0-3)
Lab Sample ID: 500-256508-11
Date Collected: 09/10/24 11:01
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 92.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.70	0.37	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
N-Nitrosodi-n-propylamine	<0.0068		0.070	0.0068	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Pentachlorophenol	<0.086		0.70	0.086	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*57*		*31 - 166*	*09/20/24 12:16*	*09/23/24 16:45*	*1*
Phenol-d5 (Surr)	*58*		*30 - 153*	*09/20/24 12:16*	*09/23/24 16:45*	*1*
Nitrobenzene-d5 (Surr)	*56*		*37 - 147*	*09/20/24 12:16*	*09/23/24 16:45*	*1*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/20/24 12:16*	*09/23/24 16:45*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*31 - 143*	*09/20/24 12:16*	*09/23/24 16:45*	*1*
Terphenyl-d14 (Surr)	*79*		*42 - 157*	*09/20/24 12:16*	*09/23/24 16:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Chlordane (technical)	<0.033		0.068	0.033	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
delta-BHC	<0.0082		0.017	0.0082	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Endosulfan II	<0.0094		0.017	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Endosulfan sulfate	<0.0095		0.017	0.0095	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Endrin aldehyde	<0.0098		0.017	0.0098	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Heptachlor	<0.0093		0.017	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/23/24 07:18	10/01/24 11:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*113*		*33 - 148*	*09/23/24 07:18*	*10/01/24 11:08*	*10*
Tetrachloro-m-xylene	*1024*	*S1+*	*30 - 121*	*09/23/24 07:18*	*10/01/24 11:08*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:00	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:00	10

Client Sample ID: SB77 (0-3)
Lab Sample ID: 500-256508-11

Date Collected: 09/10/24 11:01
Matrix: Solid

Date Received: 09/11/24 11:05
Percent Solids: 92.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:00	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:00	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:00	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:00	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:00	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*49 - 129*	*09/23/24 07:18*	*09/27/24 17:00*	*10*
DCB Decachlorobiphenyl	*26*	*S1-*	*37 - 121*	*09/23/24 07:18*	*09/27/24 17:00*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		20		mg/Kg	☼	09/20/24 16:37	09/25/24 19:49	1
Antimony	<10		10		mg/Kg	☼	09/20/24 16:37	09/28/24 02:33	5
Arsenic	**13**		5.0		mg/Kg	☼	09/20/24 16:37	09/27/24 02:10	5
Barium	**190**		5.0		mg/Kg	☼	09/20/24 16:37	09/27/24 02:10	5
Beryllium	<8.0		8.0		mg/Kg	☼	09/20/24 16:37	09/27/24 02:14	20
Cadmium	**1.7**		1.0		mg/Kg	☼	09/20/24 16:37	09/27/24 02:10	5
Calcium	**110000**		100		mg/Kg	☼	09/20/24 16:37	09/28/24 02:33	5
Chromium	**260**		5.0		mg/Kg	☼	09/20/24 16:37	09/27/24 02:10	5
Cobalt	**10**		0.50		mg/Kg	☼	09/20/24 16:37	09/25/24 19:49	1
Copper	**320**		5.0		mg/Kg	☼	09/20/24 16:37	09/27/24 02:10	5
Iron	**150000**		100		mg/Kg	☼	09/20/24 16:37	09/28/24 02:33	5
Lead	**170**		2.5		mg/Kg	☼	09/20/24 16:37	09/27/24 02:10	5
Magnesium	**16000**		10		mg/Kg	☼	09/20/24 16:37	09/25/24 19:49	1
Manganese	**4300**		5.0		mg/Kg	☼	09/20/24 16:37	09/28/24 02:33	5
Nickel	**130**		5.0		mg/Kg	☼	09/20/24 16:37	09/27/24 02:10	5
Potassium	**550**		50		mg/Kg	☼	09/20/24 16:37	09/25/24 19:49	1
Selenium	<5.0		5.0		mg/Kg	☼	09/20/24 16:37	09/27/24 02:10	5
Silver	**3.8**		2.5		mg/Kg	☼	09/20/24 16:37	09/28/24 02:33	5
Sodium	**450**		100		mg/Kg	☼	09/20/24 16:37	09/25/24 19:49	1
Thallium	**12**		5.0		mg/Kg	☼	09/20/24 16:37	09/27/24 02:10	5
Vanadium	**55**		2.5		mg/Kg	☼	09/20/24 16:37	09/28/24 02:33	5
Zinc	**320**		2.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**4.0**		0.24		mg/Kg	☼	09/17/24 10:28	09/17/24 15:27	1
pH (SW846 9045D)	**8.50**	**^+**	0.20		SU			09/17/24 14:29	1

Client Sample ID: SB77 (5-7.5)
Lab Sample ID: 500-256508-12

Date Collected: 09/10/24 11:19
Matrix: Solid

Date Received: 09/11/24 11:05
Percent Solids: 93.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00096		0.0024	0.00096	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
1,1,2,2-Tetrachloroethane	<0.0012	*+	0.0024	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
1,1,2-Trichloroethane	<0.00089		0.0024	0.00089	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
1,1-Dichloroethane	<0.00089		0.0024	0.00089	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
1,1-Dichloroethene	<0.00098		0.0024	0.00098	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
1,2-Dichloroethane	<0.0015		0.0059	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
1,2-Dichloropropane	<0.00061		0.0024	0.00061	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
2-Butanone (MEK)	<0.0026		0.0059	0.0026	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
2-Hexanone	<0.0036		0.0059	0.0036	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0059	0.0042	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Acetone	**0.011**	**J *1**	0.024	0.010	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Benzene	<0.00075		0.0024	0.00075	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Bromodichloromethane	<0.00076		0.0024	0.00076	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Bromomethane	<0.0029		0.0059	0.0029	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Carbon disulfide	**0.0060**		0.0059	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Carbon tetrachloride	<0.00081		0.0024	0.00081	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Chloroethane	<0.0019		0.0059	0.0019	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Chloroform	<0.0017		0.0024	0.0017	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Chloromethane	<0.0012		0.0059	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
cis-1,2-Dichloroethene	<0.00096		0.0024	0.00096	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
1,3-Dichloropropene, Total	<0.0011		0.0024	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Ethylbenzene	<0.0012		0.0024	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Methyl tert-butyl ether	<0.00077		0.0024	0.00077	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Methylene Chloride	<0.0025		0.0059	0.0025	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Styrene	<0.0011	*+	0.0024	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Tetrachloroethene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Toluene	<0.00048		0.0024	0.00048	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Xylenes, Total	<0.00081		0.0047	0.00081	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
trans-1,2-Dichloroethene	<0.00090		0.0024	0.00090	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Trichloroethene	<0.00065		0.0024	0.00065	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1
Vinyl chloride	<0.00097		0.0024	0.00097	mg/Kg	☼	09/11/24 18:53	09/15/24 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*09/11/24 18:53*	*09/15/24 21:19*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*09/11/24 18:53*	*09/15/24 21:19*	*1*
Dibromofluoromethane	*81*		*75 - 126*	*09/11/24 18:53*	*09/15/24 21:19*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/11/24 18:53*	*09/15/24 21:19*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.035	0.0072	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Acenaphthylene	<0.0060		0.035	0.0060	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Anthracene	**0.012**	**J**	0.035	0.0073	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Benzo[a]anthracene	**0.052**		0.035	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Benzo[a]pyrene	**0.063**		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Benzo[b]fluoranthene	**0.080**		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Benzo[g,h,i]perylene	**0.068**		0.035	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB77 (5-7.5)
Lab Sample ID: 500-256508-12
Date Collected: 09/10/24 11:19
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 93.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.062**		0.035	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Chrysene	**0.070**		0.035	0.0094	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Fluoranthene	**0.069**		0.035	0.0083	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Fluorene	<0.011		0.035	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Indeno[1,2,3-cd]pyrene	**0.059**		0.035	0.035	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Naphthalene	<0.0064		0.035	0.0064	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Phenanthrene	**0.045**		0.035	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Pyrene	**0.073**		0.035	0.0097	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2,4-Dichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2,4-Dimethylphenol	<0.080		0.35	0.080	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2,4-Dinitrophenol	<0.21		0.72	0.21	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2-Methylnaphthalene	<0.0071		0.072	0.0071	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
4,6-Dinitro-2-methylphenol	<0.20		0.72	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
4-Chloroaniline	<0.37		0.72	0.37	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
4-Nitrophenol	<0.13		0.72	0.13	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Hexachlorobenzene	<0.0068		0.072	0.0068	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1

Client Sample ID: SB77 (5-7.5)
Lab Sample ID: 500-256508-12
Date Collected: 09/10/24 11:19
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 93.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.72	0.38	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
N-Nitrosodi-n-propylamine	<0.0070		0.072	0.0070	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Pentachlorophenol	<0.089		0.72	0.089	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*43*		*31 - 166*	*09/20/24 12:16*	*09/23/24 17:10*	*1*
Phenol-d5 (Surr)	*66*		*30 - 153*	*09/20/24 12:16*	*09/23/24 17:10*	*1*
Nitrobenzene-d5 (Surr)	*62*		*37 - 147*	*09/20/24 12:16*	*09/23/24 17:10*	*1*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/20/24 12:16*	*09/23/24 17:10*	*1*
2,4,6-Tribromophenol (Surr)	*8*	*S1-*	*31 - 143*	*09/20/24 12:16*	*09/23/24 17:10*	*1*
Terphenyl-d14 (Surr)	*77*		*42 - 157*	*09/20/24 12:16*	*09/23/24 17:10*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Methoxychlor	<0.012		0.086	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/23/24 07:18	10/01/24 11:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*33 - 148*	*09/23/24 07:18*	*10/01/24 11:20*	*10*
Tetrachloro-m-xylene	*32*		*30 - 121*	*09/23/24 07:18*	*10/01/24 11:20*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:16	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:16	10

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256508-1

Client Sample ID: SB77 (5-7.5)

Date Collected: 09/10/24 11:19
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-12

Matrix: Solid
Percent Solids: 93.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:16	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:16	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:16	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:16	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:16	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*49 - 129*	*09/23/24 07:18*	*09/27/24 17:16*	*10*
DCB Decachlorobiphenyl	*99*		*37 - 121*	*09/23/24 07:18*	*09/27/24 17:16*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		21		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Antimony	<10		10		mg/Kg	☼	09/20/24 16:37	09/28/24 01:40	5
Arsenic	**4.4**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Barium	**140**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Beryllium	**3.0**		2.1		mg/Kg	☼	09/20/24 16:37	09/27/24 01:16	5
Cadmium	**0.31**		0.21		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Calcium	**100000**		100		mg/Kg	☼	09/20/24 16:37	09/28/24 01:40	5
Chromium	**68**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Cobalt	**3.9**		0.52		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Copper	**25**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Iron	**29000**		21		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Lead	**35**		0.52		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Magnesium	**16000**		10		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Manganese	**4700**		5.2		mg/Kg	☼	09/20/24 16:37	09/28/24 01:40	5
Nickel	**20**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Potassium	**750**		52		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Selenium	**2.0**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Silver	<2.6		2.6		mg/Kg	☼	09/20/24 16:37	09/28/24 01:40	5
Sodium	**440**		100		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Thallium	**16**		5.2		mg/Kg	☼	09/20/24 16:37	09/27/24 01:16	5
Vanadium	**35**		0.52		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1
Zinc	**66**		2.1		mg/Kg	☼	09/20/24 16:37	09/25/24 19:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.067**		0.016		mg/Kg	☼	09/26/24 17:42	09/27/24 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**6.9**		3.7		mg/Kg	☼	09/17/24 10:28	09/19/24 11:04	15
Sulfide (SW846 9034)	<32		32		mg/Kg	☼	09/16/24 07:29	09/16/24 09:22	1
pH (SW846 9045D)	**10.57**	**^+**	0.20		SU			09/17/24 14:32	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB78 (0-3)
Lab Sample ID: 500-256508-13
Date Collected: 09/10/24 12:33
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 95.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00060		0.0015	0.00060	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
1,1,2,2-Tetrachloroethane	<0.00074	*+	0.0015	0.00074	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
1,1,2-Trichloroethane	<0.00056		0.0015	0.00056	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
1,1-Dichloroethane	<0.00056		0.0015	0.00056	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
1,1-Dichloroethene	<0.00061		0.0015	0.00061	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
1,2-Dichloroethane	<0.00097		0.0037	0.00097	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
1,2-Dichloropropane	<0.00039		0.0015	0.00039	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
2-Butanone (MEK)	**0.0018**	**J**	0.0037	0.0016	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
2-Hexanone	<0.0023		0.0037	0.0023	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
4-Methyl-2-pentanone (MIBK)	<0.0027		0.0037	0.0027	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Acetone	<0.0063	*1	0.015	0.0063	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Benzene	<0.00047		0.0015	0.00047	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Bromodichloromethane	<0.00048		0.0015	0.00048	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Bromoform	<0.00087		0.0015	0.00087	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Bromomethane	<0.0018		0.0037	0.0018	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Carbon disulfide	<0.00069		0.0037	0.00069	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Carbon tetrachloride	<0.00051		0.0015	0.00051	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Chlorobenzene	<0.00063		0.0015	0.00063	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Chloroethane	<0.0012		0.0037	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Chloroform	<0.0011		0.0015	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Chloromethane	<0.00072		0.0037	0.00072	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
cis-1,2-Dichloroethene	<0.00060		0.0015	0.00060	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
1,3-Dichloropropene, Total	<0.00072		0.0015	0.00072	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Dibromochloromethane	<0.00069		0.0015	0.00069	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Ethylbenzene	<0.00078		0.0015	0.00078	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Methyl tert-butyl ether	<0.00048		0.0015	0.00048	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Methylene Chloride	<0.0016		0.0037	0.0016	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Styrene	<0.00067	*+	0.0015	0.00067	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Tetrachloroethene	<0.00084		0.0015	0.00084	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Toluene	<0.00030		0.0015	0.00030	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Xylenes, Total	<0.00051		0.0030	0.00051	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
trans-1,2-Dichloroethene	<0.00056		0.0015	0.00056	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Trichloroethene	<0.00041		0.0015	0.00041	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1
Vinyl chloride	<0.00061		0.0015	0.00061	mg/Kg	☼	09/11/24 18:53	09/15/24 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*09/11/24 18:53*	*09/15/24 21:43*	*1*
4-Bromofluorobenzene (Surr)	*131*		*75 - 131*	*09/11/24 18:53*	*09/15/24 21:43*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*09/11/24 18:53*	*09/15/24 21:43*	*1*
Toluene-d8 (Surr)	*110*		*75 - 124*	*09/11/24 18:53*	*09/15/24 21:43*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Acenaphthylene	**0.049**		0.033	0.0057	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Anthracene	**0.057**		0.033	0.0069	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Benzo[a]anthracene	**0.21**		0.033	0.0071	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Benzo[a]pyrene	**0.26**		0.033	0.032	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Benzo[b]fluoranthene	**0.41**		0.033	0.032	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Benzo[g,h,i]perylene	**0.22**		0.033	0.0073	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB78 (0-3)
Lab Sample ID: 500-256508-13
Date Collected: 09/10/24 12:33
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 95.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.30**		0.033	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Chrysene	**0.30**		0.033	0.0088	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Dibenz(a,h)anthracene	**0.069**		0.033	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Fluoranthene	**0.31**		0.033	0.0078	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Fluorene	<0.0099		0.033	0.0099	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Indeno[1,2,3-cd]pyrene	**0.24**		0.033	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Naphthalene	**0.043**		0.033	0.0061	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Phenanthrene	**0.19**		0.033	0.0073	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Pyrene	**0.33**		0.033	0.0092	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2,4-Dimethylphenol	<0.075		0.33	0.075	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2,4-Dinitrophenol	<0.19		0.68	0.19	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2-Methylnaphthalene	**0.045**	**J**	0.068	0.0067	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
4,6-Dinitro-2-methylphenol	<0.19		0.68	0.19	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
4-Chloroaniline	<0.35		0.68	0.35	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
4-Nitrophenol	<0.12		0.68	0.12	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Carbazole	**0.026**	**J**	0.17	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Dibenzofuran	**0.023**	**J**	0.17	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Dimethyl phthalate	<0.0073		0.17	0.0073	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Hexachlorobenzene	<0.0064		0.068	0.0064	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1

Client Sample ID: SB78 (0-3)
Lab Sample ID: 500-256508-13
Date Collected: 09/10/24 12:33
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 95.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.36		0.68	0.36	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Isophorone	<0.017		0.17	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
N-Nitrosodi-n-propylamine	<0.0066		0.068	0.0066	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Pentachlorophenol	<0.084		0.68	0.084	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*54*		*31 - 166*	*09/20/24 12:16*	*09/23/24 17:35*	*1*
Phenol-d5 (Surr)	*56*		*30 - 153*	*09/20/24 12:16*	*09/23/24 17:35*	*1*
Nitrobenzene-d5 (Surr)	*50*		*37 - 147*	*09/20/24 12:16*	*09/23/24 17:35*	*1*
2-Fluorobiphenyl (Surr)	*60*		*43 - 145*	*09/20/24 12:16*	*09/23/24 17:35*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*31 - 143*	*09/20/24 12:16*	*09/23/24 17:35*	*1*
Terphenyl-d14 (Surr)	*71*		*42 - 157*	*09/20/24 12:16*	*09/23/24 17:35*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0091		0.017	0.0091	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
4,4'-DDE	<0.0087		0.017	0.0087	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
4,4'-DDT	<0.0081		0.017	0.0081	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
alpha-BHC	<0.0096		0.017	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
alpha-Chlordane	<0.0091		0.017	0.0091	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Chlordane (technical)	<0.032		0.067	0.032	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
delta-BHC	<0.0081		0.017	0.0081	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Dieldrin	<0.0089		0.017	0.0089	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Endosulfan I	<0.0092		0.017	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Endosulfan II	<0.0093		0.017	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Endosulfan sulfate	<0.0094		0.017	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Endrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Endrin aldehyde	<0.0097		0.017	0.0097	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Endrin ketone	<0.0083		0.017	0.0083	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
gamma-BHC (Lindane)	<0.0085		0.017	0.0085	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
gamma-Chlordane	<0.0098		0.017	0.0098	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Heptachlor	<0.0092		0.017	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Heptachlor epoxide	<0.0091		0.017	0.0091	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Methoxychlor	<0.011		0.084	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10
Toxaphene	<0.068		0.17	0.068	mg/Kg	☼	09/23/24 07:18	10/01/24 11:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*33 - 148*	*09/23/24 07:18*	*10/01/24 11:32*	*10*
Tetrachloro-m-xylene	*35*		*30 - 121*	*09/23/24 07:18*	*10/01/24 11:32*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:31	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:31	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB78 (0-3)
Lab Sample ID: 500-256508-13

Date Collected: 09/10/24 12:33
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 95.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:31	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:31	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:31	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:31	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:31	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 17:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*49 - 129*	*09/23/24 07:18*	*09/27/24 17:31*	*10*
DCB Decachlorobiphenyl	*41*		*37 - 121*	*09/23/24 07:18*	*09/27/24 17:31*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7200**		95		mg/Kg	☼	09/20/24 16:37	09/28/24 01:53	5
Antimony	<9.5		9.5		mg/Kg	☼	09/20/24 16:37	09/28/24 01:53	5
Arsenic	<48		48		mg/Kg	☼	09/20/24 16:37	09/27/24 01:25	50
Barium	**100**		4.8		mg/Kg	☼	09/20/24 16:37	09/27/24 01:21	5
Beryllium	<1.9		1.9		mg/Kg	☼	09/20/24 16:37	09/27/24 01:21	5
Cadmium	<9.5		9.5		mg/Kg	☼	09/20/24 16:37	09/27/24 01:25	50
Calcium	**33000**		19		mg/Kg	☼	09/20/24 16:37	09/25/24 19:13	1
Chromium	**550**		4.8		mg/Kg	☼	09/20/24 16:37	09/27/24 01:21	5
Cobalt	**12**		0.48		mg/Kg	☼	09/20/24 16:37	09/25/24 19:13	1
Copper	**110**		48		mg/Kg	☼	09/20/24 16:37	09/27/24 01:25	50
Iron	**430000**		950		mg/Kg	☼	09/20/24 16:37	09/28/24 01:58	50
Lead	**91**		24		mg/Kg	☼	09/20/24 16:37	09/27/24 01:25	50
Magnesium	**2900**		9.5		mg/Kg	☼	09/20/24 16:37	09/25/24 19:13	1
Manganese	**5300**		4.8		mg/Kg	☼	09/20/24 16:37	09/28/24 01:53	5
Nickel	**260**		48		mg/Kg	☼	09/20/24 16:37	09/27/24 01:25	50
Potassium	<48		48		mg/Kg	☼	09/20/24 16:37	09/25/24 19:13	1
Selenium	<4.8		4.8		mg/Kg	☼	09/20/24 16:37	09/27/24 01:21	5
Silver	**7.2**		2.4		mg/Kg	☼	09/20/24 16:37	09/28/24 01:53	5
Sodium	**220**		95		mg/Kg	☼	09/20/24 16:37	09/25/24 19:13	1
Thallium	<48		48		mg/Kg	☼	09/20/24 16:37	09/27/24 01:25	50
Vanadium	**50**		24		mg/Kg	☼	09/20/24 16:37	09/28/24 01:58	50
Zinc	**130**		1.9		mg/Kg	☼	09/20/24 16:37	09/25/24 19:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.016		mg/Kg	☼	09/26/24 17:42	09/27/24 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**8.9**		3.6		mg/Kg	☼	09/17/24 10:28	09/19/24 11:08	15
pH (SW846 9045D)	**8.85**	**^+**	0.20		SU			09/17/24 14:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB78 (10-12.5)
Lab Sample ID: 500-256508-14
Date Collected: 09/10/24 13:09
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 88.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00089		0.0022	0.00089	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
1,1,2,2-Tetrachloroethane	<0.0011	*+	0.0022	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
1,1,2-Trichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
1,1-Dichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
1,1-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
1,2-Dichloroethane	<0.0014		0.0055	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
2-Hexanone	<0.0033		0.0055	0.0033	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0055	0.0039	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Acetone	<0.0092	*1	0.022	0.0092	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Benzene	<0.00069		0.0022	0.00069	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Bromodichloromethane	<0.00070		0.0022	0.00070	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Bromomethane	<0.0027		0.0055	0.0027	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Carbon disulfide	<0.0010		0.0055	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Carbon tetrachloride	<0.00075		0.0022	0.00075	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Chlorobenzene	<0.00093		0.0022	0.00093	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Chloroethane	<0.0018		0.0055	0.0018	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
cis-1,2-Dichloroethene	<0.00088		0.0022	0.00088	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Methyl tert-butyl ether	<0.00071		0.0022	0.00071	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Methylene Chloride	<0.0023		0.0055	0.0023	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Styrene	<0.00099	*+	0.0022	0.00099	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Xylenes, Total	<0.00075		0.0044	0.00075	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
trans-1,2-Dichloroethene	<0.00083		0.0022	0.00083	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Trichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1
Vinyl chloride	<0.00090		0.0022	0.00090	mg/Kg	☼	09/11/24 18:53	09/15/24 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*09/11/24 18:53*	*09/15/24 22:08*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*	*09/11/24 18:53*	*09/15/24 22:08*	*1*
Dibromofluoromethane	*84*		*75 - 126*	*09/11/24 18:53*	*09/15/24 22:08*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*09/11/24 18:53*	*09/15/24 22:08*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.035	0.0072	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Acenaphthylene	<0.0060		0.035	0.0060	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Anthracene	<0.0072		0.035	0.0072	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Benzo[a]anthracene	<0.0075		0.035	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Benzo[a]pyrene	<0.034		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Benzo[b]fluoranthene	<0.034		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Benzo[g,h,i]perylene	<0.0076		0.035	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB78 (10-12.5)
Lab Sample ID: 500-256508-14
Date Collected: 09/10/24 13:09
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 88.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.035	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Chrysene	<0.0093		0.035	0.0093	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Fluoranthene	<0.0082		0.035	0.0082	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Indeno[1,2,3-cd]pyrene	<0.034		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Naphthalene	<0.0064		0.035	0.0064	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Phenanthrene	<0.0077		0.035	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Pyrene	<0.0096		0.035	0.0096	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2,4-Dimethylphenol	<0.079		0.35	0.079	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2,4-Dinitrophenol	<0.20		0.71	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2-Methylnaphthalene	<0.0071		0.071	0.0071	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
4,6-Dinitro-2-methylphenol	<0.20		0.71	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
4-Chloroaniline	<0.37		0.71	0.37	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
4-Nitrophenol	<0.13		0.71	0.13	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Hexachlorobenzene	<0.0068		0.071	0.0068	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB78 (10-12.5)
Lab Sample ID: 500-256508-14
Date Collected: 09/10/24 13:09
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 88.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.71	0.37	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
N-Nitrosodi-n-propylamine	<0.0070		0.071	0.0070	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Pentachlorophenol	<0.088		0.71	0.088	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*56*		*31 - 166*	*09/20/24 12:16*	*09/23/24 18:00*	*1*
Phenol-d5 (Surr)	*64*		*30 - 153*	*09/20/24 12:16*	*09/23/24 18:00*	*1*
Nitrobenzene-d5 (Surr)	*54*		*37 - 147*	*09/20/24 12:16*	*09/23/24 18:00*	*1*
2-Fluorobiphenyl (Surr)	*57*		*43 - 145*	*09/20/24 12:16*	*09/23/24 18:00*	*1*
2,4,6-Tribromophenol (Surr)	*25*	*S1-*	*31 - 143*	*09/20/24 12:16*	*09/23/24 18:00*	*1*
Terphenyl-d14 (Surr)	*76*		*42 - 157*	*09/20/24 12:16*	*09/23/24 18:00*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
4,4'-DDE	<0.0096		0.019	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
4,4'-DDT	<0.0089		0.019	0.0089	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Chlordane (technical)	<0.035		0.074	0.035	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Dieldrin	<0.0098		0.019	0.0098	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Endrin	<0.0095		0.019	0.0095	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Endrin ketone	<0.0091		0.019	0.0091	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
gamma-BHC (Lindane)	<0.0093		0.019	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Methoxychlor	<0.012		0.092	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10
Toxaphene	<0.075		0.18	0.075	mg/Kg	☼	09/23/24 07:18	10/01/24 11:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*33 - 148*	*09/23/24 07:18*	*10/01/24 11:43*	*10*
Tetrachloro-m-xylene	*58*		*30 - 121*	*09/23/24 07:18*	*10/01/24 11:43*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 18:08	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 18:08	10

Client Sample ID: SB78 (10-12.5)
Lab Sample ID: 500-256508-14

Date Collected: 09/10/24 13:09
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 88.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 18:08	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 18:08	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 18:08	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 18:08	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 18:08	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 18:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*53*		*49 - 129*	*09/23/24 07:18*	*09/27/24 18:08*	*10*
DCB Decachlorobiphenyl	*74*		*37 - 121*	*09/23/24 07:18*	*09/27/24 18:08*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**		22		mg/Kg	☼	09/20/24 16:37	09/25/24 19:18	1
Antimony	<11		11		mg/Kg	☼	09/20/24 16:37	09/28/24 02:02	5
Arsenic	**15**		5.4		mg/Kg	☼	09/20/24 16:37	09/27/24 01:29	5
Barium	**150**		5.4		mg/Kg	☼	09/20/24 16:37	09/27/24 01:29	5
Beryllium	<2.2		2.2		mg/Kg	☼	09/20/24 16:37	09/27/24 01:29	5
Cadmium	<1.1		1.1		mg/Kg	☼	09/20/24 16:37	09/27/24 01:29	5
Calcium	**150000**		110		mg/Kg	☼	09/20/24 16:37	09/28/24 02:02	5
Chromium	**370**		5.4		mg/Kg	☼	09/20/24 16:37	09/27/24 01:29	5
Cobalt	**7.4**		0.54		mg/Kg	☼	09/20/24 16:37	09/25/24 19:18	1
Copper	**24**		5.4		mg/Kg	☼	09/20/24 16:37	09/27/24 01:29	5
Iron	**160000**		110		mg/Kg	☼	09/20/24 16:37	09/28/24 02:02	5
Lead	**12**		2.7		mg/Kg	☼	09/20/24 16:37	09/27/24 01:29	5
Magnesium	**23000**		11		mg/Kg	☼	09/20/24 16:37	09/25/24 19:18	1
Manganese	**31000**		22		mg/Kg	☼	09/20/24 16:37	09/28/24 02:07	20
Nickel	**70**		5.4		mg/Kg	☼	09/20/24 16:37	09/27/24 01:29	5
Potassium	**500**		54		mg/Kg	☼	09/20/24 16:37	09/25/24 19:18	1
Selenium	**10**		5.4		mg/Kg	☼	09/20/24 16:37	09/27/24 01:29	5
Silver	<11		11		mg/Kg	☼	09/20/24 16:37	09/28/24 02:07	20
Sodium	**210**		110		mg/Kg	☼	09/20/24 16:37	09/25/24 19:18	1
Thallium	**110**		22		mg/Kg	☼	09/20/24 16:37	09/27/24 01:34	20
Vanadium	**320**		2.7		mg/Kg	☼	09/20/24 16:37	09/28/24 02:02	5
Zinc	**23**		2.2		mg/Kg	☼	09/20/24 16:37	09/25/24 19:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26		mg/Kg	☼	09/17/24 10:28	09/17/24 15:32	1
pH (SW846 9045D)	**11.24**	**^+**	0.20		SU			09/17/24 14:36	1

Client Sample ID: SB79 (0-3)
Date Collected: 09/10/24 13:50
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-15
Matrix: Solid
Percent Solids: 93.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
1,1,2,2-Tetrachloroethane	<0.00099	*+	0.0020	0.00099	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Acetone	**0.010**	**J *1**	0.020	0.0084	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Carbon disulfide	**0.0064**		0.0050	0.00092	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Methyl tert-butyl ether	<0.00064		0.0020	0.00064	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Styrene	<0.00090	*+	0.0020	0.00090	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg	☼	09/11/24 18:53	09/15/24 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*09/11/24 18:53*	*09/15/24 22:33*	*1*
4-Bromofluorobenzene (Surr)	*118*		*75 - 131*	*09/11/24 18:53*	*09/15/24 22:33*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*09/11/24 18:53*	*09/15/24 22:33*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*09/11/24 18:53*	*09/15/24 22:33*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.035	0.0071	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Acenaphthylene	**0.013**	**J**	0.035	0.0059	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Anthracene	**0.020**	**J**	0.035	0.0071	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Benzo[a]anthracene	**0.071**		0.035	0.0074	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Benzo[a]pyrene	**0.076**		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Benzo[b]fluoranthene	**0.093**		0.035	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Benzo[g,h,i]perylene	**0.073**		0.035	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB79 (0-3)
Lab Sample ID: 500-256508-15
Date Collected: 09/10/24 13:50
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 93.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.069**		0.035	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Chrysene	**0.096**		0.035	0.0092	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Fluoranthene	**0.12**		0.035	0.0081	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Indeno[1,2,3-cd]pyrene	**0.067**		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Naphthalene	**0.011**	**J**	0.035	0.0063	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Phenanthrene	**0.088**		0.035	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Pyrene	**0.12**		0.035	0.0096	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2,4-Dimethylphenol	<0.078		0.35	0.078	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2,4-Dinitrophenol	<0.20		0.71	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2-Methylnaphthalene	<0.0070		0.071	0.0070	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2-Methylphenol	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
4,6-Dinitro-2-methylphenol	<0.20		0.71	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
4-Chloroaniline	<0.37		0.71	0.37	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
4-Nitrophenol	<0.13		0.71	0.13	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Bis(2-ethylhexyl) phthalate	**0.25**		0.18	0.14	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Butyl benzyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Dibenzofuran	<0.012		0.18	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Dimethyl phthalate	<0.0076		0.18	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Di-n-octyl phthalate	<0.24		0.35	0.24	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Hexachlorobenzene	<0.0067		0.071	0.0067	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB79 (0-3)
Lab Sample ID: 500-256508-15
Date Collected: 09/10/24 13:50
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 93.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.71	0.37	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
N-Nitrosodi-n-propylamine	<0.0069		0.071	0.0069	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Pentachlorophenol	<0.088		0.71	0.088	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*31 - 166*	*09/20/24 12:16*	*09/23/24 18:25*	*1*
Phenol-d5 (Surr)	*45*		*30 - 153*	*09/20/24 12:16*	*09/23/24 18:25*	*1*
Nitrobenzene-d5 (Surr)	*43*		*37 - 147*	*09/20/24 12:16*	*09/23/24 18:25*	*1*
2-Fluorobiphenyl (Surr)	*50*		*43 - 145*	*09/20/24 12:16*	*09/23/24 18:25*	*1*
2,4,6-Tribromophenol (Surr)	*36*		*31 - 143*	*09/20/24 12:16*	*09/23/24 18:25*	*1*
Terphenyl-d14 (Surr)	*68*		*42 - 157*	*09/20/24 12:16*	*09/23/24 18:25*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0092		0.017	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
4,4'-DDE	<0.0088		0.017	0.0088	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
4,4'-DDT	<0.0081		0.017	0.0081	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
alpha-BHC	<0.0096		0.017	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
alpha-Chlordane	<0.0091		0.017	0.0091	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Chlordane (technical)	<0.032		0.068	0.032	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
delta-BHC	<0.0082		0.017	0.0082	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Dieldrin	<0.0089		0.017	0.0089	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Endosulfan I	<0.0092		0.017	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Endosulfan II	<0.0094		0.017	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Endosulfan sulfate	<0.0094		0.017	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Endrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Endrin aldehyde	<0.0097		0.017	0.0097	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Endrin ketone	<0.0083		0.017	0.0083	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
gamma-BHC (Lindane)	<0.0085		0.017	0.0085	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
gamma-Chlordane	<0.0098		0.017	0.0098	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Heptachlor	<0.0092		0.017	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Heptachlor epoxide	<0.0092		0.017	0.0092	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Methoxychlor	<0.011		0.084	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10
Toxaphene	<0.068		0.17	0.068	mg/Kg	☼	09/23/24 07:18	10/01/24 11:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*33 - 148*	*09/23/24 07:18*	*10/01/24 11:55*	*10*
Tetrachloro-m-xylene	*115*		*30 - 121*	*09/23/24 07:18*	*10/01/24 11:55*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 19:23	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 19:23	10

Client Sample ID: SB79 (0-3)
Lab Sample ID: 500-256508-15

Date Collected: 09/10/24 13:50
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 93.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 19:23	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 19:23	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 19:23	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 19:23	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 19:23	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/23/24 07:18	09/27/24 19:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*49 - 129*	*09/23/24 07:18*	*09/27/24 19:23*	*10*
DCB Decachlorobiphenyl	*67*		*37 - 121*	*09/23/24 07:18*	*09/27/24 19:23*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**29000**		20		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Antimony	<10		10		mg/Kg	☼	09/20/24 16:37	09/28/24 02:11	5
Arsenic	**8.1**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Barium	**220**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Beryllium	**5.4**		2.0		mg/Kg	☼	09/20/24 16:37	09/27/24 01:39	5
Cadmium	**0.99**		0.20		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Calcium	**210000**		100		mg/Kg	☼	09/20/24 16:37	09/28/24 02:11	5
Chromium	**85**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Cobalt	**4.4**		0.51		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Copper	**130**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Iron	**43000**		20		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Lead	**130**		0.51		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Magnesium	**9900**		10		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Manganese	**11000**		5.1		mg/Kg	☼	09/20/24 16:37	09/28/24 02:11	5
Nickel	**38**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Potassium	**1500**		51		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Selenium	**3.6**		1.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Silver	<2.5		2.5		mg/Kg	☼	09/20/24 16:37	09/28/24 02:11	5
Sodium	**930**		100		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Thallium	**33**		5.1		mg/Kg	☼	09/20/24 16:37	09/27/24 01:39	5
Vanadium	**55**		0.51		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1
Zinc	**250**		2.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.040**		0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**13**		1.3		mg/Kg	☼	09/17/24 10:28	09/19/24 11:13	5
pH (SW846 9045D)	**9.80**	**^+**	0.20		SU			09/17/24 14:39	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB79 (5-7.5)
Lab Sample ID: 500-256508-16
Date Collected: 09/10/24 14:06
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 90.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
1,1,2,2-Tetrachloroethane	<0.0014	*+	0.0028	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
1,1,2-Trichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
1,1-Dichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
1,1-Dichloroethene	<0.0012		0.0028	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
1,2-Dichloroethane	<0.0018		0.0070	0.0018	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
1,2-Dichloropropane	<0.00073		0.0028	0.00073	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
2-Butanone (MEK)	<0.0031		0.0070	0.0031	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
2-Hexanone	<0.0043		0.0070	0.0043	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0070	0.0050	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Acetone	<0.012	*1	0.028	0.012	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Benzene	<0.00089		0.0028	0.00089	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Bromodichloromethane	<0.00090		0.0028	0.00090	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Bromoform	<0.0016		0.0028	0.0016	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Bromomethane	<0.0035		0.0070	0.0035	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Carbon disulfide	**0.0072**		0.0070	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Carbon tetrachloride	<0.00096		0.0028	0.00096	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Chlorobenzene	<0.0012		0.0028	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Chloroethane	<0.0023		0.0070	0.0023	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Chloroform	<0.0020		0.0028	0.0020	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Chloromethane	<0.0014		0.0070	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
cis-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
1,3-Dichloropropene, Total	<0.0014		0.0028	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Dibromochloromethane	<0.0013		0.0028	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Ethylbenzene	<0.0015		0.0028	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Methyl tert-butyl ether	<0.00091		0.0028	0.00091	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Methylene Chloride	<0.0030		0.0070	0.0030	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Styrene	<0.0013	*+	0.0028	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Tetrachloroethene	<0.0016		0.0028	0.0016	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Toluene	<0.00057		0.0028	0.00057	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Xylenes, Total	<0.00097		0.0056	0.00097	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
trans-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Trichloroethene	<0.00077		0.0028	0.00077	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1
Vinyl chloride	<0.0012		0.0028	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/11/24 18:53*	*09/15/24 22:58*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*	*09/11/24 18:53*	*09/15/24 22:58*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*09/11/24 18:53*	*09/15/24 22:58*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*09/11/24 18:53*	*09/15/24 22:58*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.035	0.0071	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Acenaphthylene	<0.0059		0.035	0.0059	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Anthracene	<0.0071		0.035	0.0071	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Benzo[a]anthracene	<0.0074		0.035	0.0074	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Benzo[a]pyrene	<0.033		0.035	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Benzo[b]fluoranthene	<0.033		0.035	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Benzo[g,h,i]perylene	<0.0075		0.035	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB79 (5-7.5)
Lab Sample ID: 500-256508-16
Date Collected: 09/10/24 14:06
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 90.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.035	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Chrysene	<0.0092		0.035	0.0092	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Fluoranthene	<0.0081		0.035	0.0081	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Indeno[1,2,3-cd]pyrene	<0.034		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Naphthalene	<0.0063		0.035	0.0063	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Phenanthrene	<0.0076		0.035	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Pyrene	<0.0095		0.035	0.0095	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
1,2,4-Trichlorobenzene	<0.025		0.17	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
1,3-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2,4-Dimethylphenol	<0.078		0.35	0.078	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2,4-Dinitrophenol	<0.20		0.70	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2,4-Dinitrotoluene	<0.020		0.17	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2-Methylnaphthalene	<0.0070		0.070	0.0070	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2-Nitroaniline	<0.019		0.17	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
4,6-Dinitro-2-methylphenol	<0.20		0.70	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
4-Bromophenyl phenyl ether	<0.024		0.17	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
4-Chloro-3-methylphenol	<0.013		0.35	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
4-Chloroaniline	<0.36		0.70	0.36	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
4-Chlorophenyl phenyl ether	<0.046		0.17	0.046	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
4-Nitrophenol	<0.13		0.70	0.13	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
bis(chloroisopropyl) ether	<0.025		0.17	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Bis(2-ethylhexyl) phthalate	<0.14		0.17	0.14	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Carbazole	<0.014		0.17	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Dimethyl phthalate	<0.0075		0.17	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Di-n-octyl phthalate	<0.24		0.35	0.24	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Hexachlorobenzene	<0.0067		0.070	0.0067	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Hexachlorobutadiene	<0.020		0.17	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB79 (5-7.5)
Lab Sample ID: 500-256508-16
Date Collected: 09/10/24 14:06
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 90.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.70	0.37	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
N-Nitrosodi-n-propylamine	<0.0069		0.070	0.0069	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
N-Nitrosodiphenylamine	<0.021		0.17	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Pentachlorophenol	<0.087		0.70	0.087	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*66*		*31 - 166*	*09/20/24 12:16*	*09/23/24 18:54*	*1*
Phenol-d5 (Surr)	*67*		*30 - 153*	*09/20/24 12:16*	*09/23/24 18:54*	*1*
Nitrobenzene-d5 (Surr)	*62*		*37 - 147*	*09/20/24 12:16*	*09/23/24 18:54*	*1*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*09/20/24 12:16*	*09/23/24 18:54*	*1*
2,4,6-Tribromophenol (Surr)	*13*	*S1-*	*31 - 143*	*09/20/24 12:16*	*09/23/24 18:54*	*1*
Terphenyl-d14 (Surr)	*88*		*42 - 157*	*09/20/24 12:16*	*09/23/24 18:54*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0099		0.018	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
4,4'-DDE	<0.0095		0.018	0.0095	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
4,4'-DDT	<0.0087		0.018	0.0087	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
alpha-Chlordane	<0.0098		0.018	0.0098	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
delta-BHC	<0.0088		0.018	0.0088	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Dieldrin	<0.0096		0.018	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Endosulfan I	<0.0099		0.018	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Endosulfan II	<0.010		0.018	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Endrin	<0.0094		0.018	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Endrin ketone	<0.0089		0.018	0.0089	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
gamma-BHC (Lindane)	<0.0091		0.018	0.0091	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
gamma-Chlordane	<0.011		0.018	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Heptachlor	<0.0099		0.018	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Heptachlor epoxide	<0.0099		0.018	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Methoxychlor	<0.012		0.090	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10
Toxaphene	<0.073		0.18	0.073	mg/Kg	☼	09/23/24 07:18	10/01/24 12:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*33 - 148*	*09/23/24 07:18*	*10/01/24 12:07*	*10*
Tetrachloro-m-xylene	*172*	*S1+*	*30 - 121*	*09/23/24 07:18*	*10/01/24 12:07*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 19:37	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 19:37	10

Client Sample ID: SB79 (5-7.5)
Lab Sample ID: 500-256508-16
Date Collected: 09/10/24 14:06
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 90.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 19:37	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 19:37	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 19:37	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 19:37	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 19:37	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/23/24 07:18	09/27/24 19:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*36*	*S1-*	*49 - 129*	*09/23/24 07:18*	*09/27/24 19:37*	*10*
DCB Decachlorobiphenyl	*87*		*37 - 121*	*09/23/24 07:18*	*09/27/24 19:37*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**33000**		20		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Antimony	<9.9		9.9		mg/Kg	☼	09/20/24 16:37	09/28/24 02:15	5
Arsenic	**2.0**		0.99		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Barium	**170**		0.99		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Beryllium	**5.9**		2.0		mg/Kg	☼	09/20/24 16:37	09/27/24 01:43	5
Cadmium	<0.20		0.20		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Calcium	**270000**		99		mg/Kg	☼	09/20/24 16:37	09/28/24 02:15	5
Chromium	**47**		0.99		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Cobalt	**1.5**		0.49		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Copper	**3.7**		0.99		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Iron	**15000**		20		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Lead	<2.5		2.5		mg/Kg	☼	09/20/24 16:37	09/28/24 02:15	5
Magnesium	**8700**		9.9		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Manganese	**14000**		4.9		mg/Kg	☼	09/20/24 16:37	09/28/24 02:15	5
Nickel	<0.99		0.99		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Potassium	**1200**		49		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Selenium	**4.0**		0.99		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Silver	<2.5		2.5		mg/Kg	☼	09/20/24 16:37	09/28/24 02:15	5
Sodium	**830**		99		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Thallium	<4.9		4.9		mg/Kg	☼	09/20/24 16:37	09/28/24 02:15	5
Vanadium	**58**		0.49		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1
Zinc	**4.6**		2.0		mg/Kg	☼	09/20/24 16:37	09/25/24 19:27	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016		mg/Kg	☼	09/26/24 17:42	09/27/24 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**18**		3.7		mg/Kg	☼	09/17/24 10:28	09/19/24 11:17	15
pH (SW846 9045D)	**11.38**	**H**	0.20		SU			09/20/24 18:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB80 (0-3)
Lab Sample ID: 500-256508-17
Date Collected: 09/10/24 15:00
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 92.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00084		0.0021	0.00084	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
1,1,2,2-Tetrachloroethane	<0.0010	*+	0.0021	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
1,1,2-Trichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
1,1-Dichloroethane	<0.00079		0.0021	0.00079	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
1,1-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
1,2-Dichloroethane	<0.0014		0.0052	0.0014	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
2-Butanone (MEK)	**0.0057**		0.0052	0.0023	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
2-Hexanone	<0.0032		0.0052	0.0032	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0052	0.0037	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Acetone	**0.032**	***1**	0.021	0.0088	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Benzene	<0.00066		0.0021	0.00066	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Bromodichloromethane	<0.00067		0.0021	0.00067	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Bromomethane	<0.0026		0.0052	0.0026	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Carbon disulfide	**0.0062**		0.0052	0.00096	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Carbon tetrachloride	<0.00071		0.0021	0.00071	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Chlorobenzene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Chloroethane	<0.0017		0.0052	0.0017	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Chloromethane	<0.0010		0.0052	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
cis-1,2-Dichloroethene	<0.00084		0.0021	0.00084	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Dibromochloromethane	<0.00097		0.0021	0.00097	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Methyl tert-butyl ether	<0.00067		0.0021	0.00067	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Methylene Chloride	<0.0022		0.0052	0.0022	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Styrene	<0.00094	*+	0.0021	0.00094	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Toluene	<0.00042		0.0021	0.00042	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Xylenes, Total	<0.00072		0.0042	0.00072	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
trans-1,2-Dichloroethene	<0.00079		0.0021	0.00079	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Trichloroethene	<0.00057		0.0021	0.00057	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1
Vinyl chloride	<0.00085		0.0021	0.00085	mg/Kg	☼	09/11/24 18:53	09/15/24 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*09/11/24 18:53*	*09/15/24 23:23*	*1*
4-Bromofluorobenzene (Surr)	*126*		*75 - 131*	*09/11/24 18:53*	*09/15/24 23:23*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*09/11/24 18:53*	*09/15/24 23:23*	*1*
Toluene-d8 (Surr)	*121*		*75 - 124*	*09/11/24 18:53*	*09/15/24 23:23*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.016**	**J**	0.069	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Acenaphthylene	**0.033**	**J**	0.069	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Anthracene	**0.073**		0.069	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Benzo[a]anthracene	**0.25**		0.069	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Benzo[a]pyrene	**0.23**		0.069	0.067	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Benzo[b]fluoranthene	**0.28**		0.069	0.066	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Benzo[g,h,i]perylene	**0.15**		0.069	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB80 (0-3)
Lab Sample ID: 500-256508-17
Date Collected: 09/10/24 15:00
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 92.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.27**		0.069	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Chrysene	**0.33**		0.069	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Dibenz(a,h)anthracene	<0.069		0.069	0.069	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Fluoranthene	**0.46**		0.069	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Fluorene	<0.021		0.069	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Indeno[1,2,3-cd]pyrene	**0.16**		0.069	0.068	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Naphthalene	**0.033**	J	0.069	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Phenanthrene	**0.49**		0.069	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Pyrene	**0.38**		0.069	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
1,2,4-Trichlorobenzene	<0.050		0.35	0.050	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
1,3-Dichlorobenzene	<0.032		0.35	0.032	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2,4,5-Trichlorophenol	<0.026		0.69	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2,4,6-Trichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2,4-Dichlorophenol	<0.025		0.69	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2,4-Dimethylphenol	<0.16		0.69	0.16	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2,4-Dinitrotoluene	<0.040		0.35	0.040	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2-Chlorophenol	<0.022		0.35	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2-Methylnaphthalene	<0.014		0.14	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2-Methylphenol	<0.037		0.35	0.037	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
2-Nitrophenol	<0.047		0.69	0.047	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
3,3'-Dichlorobenzidine	<0.057		0.35	0.057	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
3-Nitroaniline	<0.032		0.69	0.032	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
4-Bromophenyl phenyl ether	<0.048		0.35	0.048	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
4-Chloro-3-methylphenol	<0.027		0.69	0.027	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
4-Chloroaniline	<0.73		1.4	0.73	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
4-Chlorophenyl phenyl ether	<0.091		0.35	0.091	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
4-Nitroaniline	<0.051		0.69	0.051	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Butyl benzyl phthalate	<0.035		0.35	0.035	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Carbazole	**0.044**	J	0.35	0.028	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Dibenzofuran	<0.025		0.35	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Di-n-butyl phthalate	**0.25**	J	0.35	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Di-n-octyl phthalate	<0.49		0.69	0.49	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2

Client Sample ID: SB80 (0-3)
Date Collected: 09/10/24 15:00
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-17
Matrix: Solid
Percent Solids: 92.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.74		1.4	0.74	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Nitrobenzene	<0.022		0.069	0.022	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/20/24 12:16	09/23/24 19:46	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*67*		*31 - 166*	*09/20/24 12:16*	*09/23/24 19:46*	*2*
Phenol-d5 (Surr)	*66*		*30 - 153*	*09/20/24 12:16*	*09/23/24 19:46*	*2*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/20/24 12:16*	*09/23/24 19:46*	*2*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/20/24 12:16*	*09/23/24 19:46*	*2*
2,4,6-Tribromophenol (Surr)	*56*		*31 - 143*	*09/20/24 12:16*	*09/23/24 19:46*	*2*
Terphenyl-d14 (Surr)	*68*		*42 - 157*	*09/20/24 12:16*	*09/23/24 19:46*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
alpha-BHC	<0.0098		0.017	0.0098	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
alpha-Chlordane	<0.0093		0.017	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
delta-BHC	<0.0083		0.017	0.0083	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Dieldrin	<0.0091		0.017	0.0091	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Endosulfan I	<0.0094		0.017	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Endosulfan II	<0.0095		0.017	0.0095	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Endosulfan sulfate	<0.0096		0.017	0.0096	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Endrin aldehyde	<0.0099		0.017	0.0099	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
gamma-Chlordane	<0.010		0.017	0.010	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Heptachlor	<0.0094		0.017	0.0094	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/23/24 07:18	10/01/24 12:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*165*	*S1+*	*33 - 148*	*09/23/24 07:18*	*10/01/24 12:18*	*10*
Tetrachloro-m-xylene	*65*		*30 - 121*	*09/23/24 07:18*	*10/01/24 12:18*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.86		0.86		mg/Kg	☼	09/23/24 07:18	09/30/24 11:36	50
PCB-1221	<0.86		0.86		mg/Kg	☼	09/23/24 07:18	09/30/24 11:36	50

Client Sample ID: SB80 (0-3)
Date Collected: 09/10/24 15:00
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-17
Matrix: Solid
Percent Solids: 92.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.86		0.86		mg/Kg	☼	09/23/24 07:18	09/30/24 11:36	50
PCB-1242	<0.86		0.86		mg/Kg	☼	09/23/24 07:18	09/30/24 11:36	50
PCB-1248	<0.86		0.86		mg/Kg	☼	09/23/24 07:18	09/30/24 11:36	50
PCB-1254	**2.4**		0.86		mg/Kg	☼	09/23/24 07:18	09/30/24 11:36	50
PCB-1260	<0.86		0.86		mg/Kg	☼	09/23/24 07:18	09/30/24 11:36	50
Polychlorinated biphenyls, Total	**2.4**		0.86		mg/Kg	☼	09/23/24 07:18	09/30/24 11:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/23/24 07:18*	*09/30/24 11:36*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/23/24 07:18*	*09/30/24 11:36*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**24000**		21		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Antimony	<11		11		mg/Kg	☼	09/20/24 16:37	09/28/24 02:20	5
Arsenic	**7.8**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Barium	**580**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Beryllium	**5.0**		2.1		mg/Kg	☼	09/20/24 16:37	09/27/24 01:48	5
Cadmium	**11**		0.21		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Calcium	**160000**		110		mg/Kg	☼	09/20/24 16:37	09/28/24 02:20	5
Chromium	**47**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Cobalt	**4.3**		0.54		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Copper	**1900**		5.4		mg/Kg	☼	09/20/24 16:37	09/27/24 01:48	5
Iron	**39000**		21		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Lead	**620**		0.54		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Magnesium	**17000**		11		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Manganese	**8400**		5.4		mg/Kg	☼	09/20/24 16:37	09/28/24 02:20	5
Nickel	**76**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Potassium	**1400**		54		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Selenium	**3.3**		1.1		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Silver	<2.7		2.7		mg/Kg	☼	09/20/24 16:37	09/28/24 02:20	5
Sodium	**830**		110		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Thallium	**26**		5.4		mg/Kg	☼	09/20/24 16:37	09/27/24 01:48	5
Vanadium	**32**		0.54		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1
Zinc	**1500**		2.1		mg/Kg	☼	09/20/24 16:37	09/25/24 19:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.75**		0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**17**	**F2**	2.3		mg/Kg	☼	09/17/24 10:28	09/19/24 11:22	10
pH (SW846 9045D)	**9.61**	**H**	0.20		SU			09/20/24 18:27	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB80 (3-5)
Date Collected: 09/10/24 15:08
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-18
Matrix: Solid
Percent Solids: 91.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00084		0.0021	0.00084	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
1,1,2,2-Tetrachloroethane	<0.0010	*+	0.0021	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
1,1,2-Trichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
1,1-Dichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
1,1-Dichloroethene	<0.00085		0.0021	0.00085	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
1,2-Dichloroethane	<0.0013		0.0052	0.0013	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
2-Hexanone	<0.0032		0.0052	0.0032	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0052	0.0037	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Acetone	<0.0087	*1	0.021	0.0087	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Benzene	**0.00093**	**J**	0.0021	0.00065	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Bromodichloromethane	<0.00067		0.0021	0.00067	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Bromomethane	<0.0026		0.0052	0.0026	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Carbon disulfide	**0.0051**	**J**	0.0052	0.00096	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Carbon tetrachloride	<0.00071		0.0021	0.00071	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Chlorobenzene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Chloroethane	<0.0017		0.0052	0.0017	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Chloromethane	<0.0010		0.0052	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
cis-1,2-Dichloroethene	<0.00084		0.0021	0.00084	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Dibromochloromethane	<0.00096		0.0021	0.00096	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Methyl tert-butyl ether	<0.00067		0.0021	0.00067	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Methylene Chloride	<0.0022		0.0052	0.0022	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Styrene	<0.00093	*+	0.0021	0.00093	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Toluene	**0.00080**	**J**	0.0021	0.00042	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Xylenes, Total	<0.00071		0.0042	0.00071	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
trans-1,2-Dichloroethene	<0.00078		0.0021	0.00078	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Trichloroethene	<0.00056		0.0021	0.00056	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1
Vinyl chloride	<0.00085		0.0021	0.00085	mg/Kg	☼	09/11/24 18:53	09/15/24 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*09/11/24 18:53*	*09/15/24 23:48*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*09/11/24 18:53*	*09/15/24 23:48*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*09/11/24 18:53*	*09/15/24 23:48*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/11/24 18:53*	*09/15/24 23:48*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0073**	**J**	0.035	0.0072	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Acenaphthylene	**0.015**	**J**	0.035	0.0060	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Anthracene	**0.034**	**J**	0.035	0.0072	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Benzo[a]anthracene	**0.13**		0.035	0.0075	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Benzo[a]pyrene	**0.13**		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Benzo[b]fluoranthene	**0.16**		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Benzo[g,h,i]perylene	**0.10**		0.035	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB80 (3-5)
Lab Sample ID: 500-256508-18
Date Collected: 09/10/24 15:08
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 91.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.14**		0.035	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Chrysene	**0.15**		0.035	0.0093	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Fluoranthene	**0.21**		0.035	0.0082	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Indeno[1,2,3-cd]pyrene	**0.11**		0.035	0.034	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Naphthalene	**0.016**	J	0.035	0.0064	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Phenanthrene	**0.14**		0.035	0.0077	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Pyrene	**0.21**		0.035	0.0096	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2,4-Dimethylphenol	<0.079		0.35	0.079	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2,4-Dinitrophenol	<0.20		0.71	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2-Methylnaphthalene	<0.0071		0.071	0.0071	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
4,6-Dinitro-2-methylphenol	<0.20		0.71	0.20	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
4-Chloroaniline	<0.37		0.71	0.37	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
4-Nitrophenol	<0.13		0.71	0.13	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Butyl benzyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Carbazole	**0.015**	J	0.18	0.014	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Dimethyl phthalate	<0.0076		0.18	0.0076	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Hexachlorobenzene	<0.0067		0.071	0.0067	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1

Client Sample ID: SB80 (3-5)
Lab Sample ID: 500-256508-18
Date Collected: 09/10/24 15:08
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 91.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.71	0.37	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
N-Nitrosodi-n-propylamine	<0.0069		0.071	0.0069	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Pentachlorophenol	<0.088		0.71	0.088	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/20/24 12:16	09/23/24 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*59*		*31 - 166*	*09/20/24 12:16*	*09/23/24 20:10*	*1*
Phenol-d5 (Surr)	*57*		*30 - 153*	*09/20/24 12:16*	*09/23/24 20:10*	*1*
Nitrobenzene-d5 (Surr)	*54*		*37 - 147*	*09/20/24 12:16*	*09/23/24 20:10*	*1*
2-Fluorobiphenyl (Surr)	*64*		*43 - 145*	*09/20/24 12:16*	*09/23/24 20:10*	*1*
2,4,6-Tribromophenol (Surr)	*52*		*31 - 143*	*09/20/24 12:16*	*09/23/24 20:10*	*1*
Terphenyl-d14 (Surr)	*82*		*42 - 157*	*09/20/24 12:16*	*09/23/24 20:10*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094	F2	0.018	0.0094	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
4,4'-DDT	<0.0083	F1	0.018	0.0083	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Aldrin	<0.012	F1 F2	0.018	0.012	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
alpha-BHC	<0.0099	F2	0.018	0.0099	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
alpha-Chlordane	<0.0094	F1	0.018	0.0094	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
delta-BHC	<0.0084	F1	0.018	0.0084	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Endosulfan I	<0.0095	F1	0.018	0.0095	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Endrin	<0.0089	F2	0.018	0.0089	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Endrin aldehyde	<0.010	F2	0.018	0.010	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Endrin ketone	<0.0085	F2	0.018	0.0085	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
gamma-BHC (Lindane)	<0.0087	F1 F2	0.018	0.0087	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
gamma-Chlordane	<0.010	F1	0.018	0.010	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Heptachlor	<0.0095	F1	0.018	0.0095	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Heptachlor epoxide	<0.0094	F1	0.018	0.0094	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Methoxychlor	<0.012	F1 F2	0.086	0.012	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/20/24 15:00	10/02/24 12:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*156*	*S1+*	*33 - 148*	*09/20/24 15:00*	*10/02/24 12:35*	*10*
Tetrachloro-m-xylene	*70*		*30 - 121*	*09/20/24 15:00*	*10/02/24 12:35*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017	F1	0.017		mg/Kg	☼	09/20/24 15:00	09/29/24 02:31	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/20/24 15:00	09/29/24 02:31	1

Client Sample ID: SB80 (3-5)
Lab Sample ID: 500-256508-18

Date Collected: 09/10/24 15:08
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 91.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/20/24 15:00	09/29/24 02:31	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/20/24 15:00	09/29/24 02:31	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/20/24 15:00	09/29/24 02:31	1
PCB-1254	**0.22**		0.017		mg/Kg	☼	09/20/24 15:00	09/29/24 02:31	1
PCB-1260	<0.017	F1	0.017		mg/Kg	☼	09/20/24 15:00	09/29/24 02:31	1
Polychlorinated biphenyls, Total	**0.22**		0.017		mg/Kg	☼	09/20/24 15:00	09/29/24 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*49 - 129*	*09/20/24 15:00*	*09/29/24 02:31*	*1*
DCB Decachlorobiphenyl	*84*		*37 - 121*	*09/20/24 15:00*	*09/29/24 02:31*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**33000**		18		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Antimony	<9.2		9.2		mg/Kg	☼	09/20/24 16:37	09/28/24 02:24	5
Arsenic	**3.5**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Barium	**280**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Beryllium	**6.7**		1.8		mg/Kg	☼	09/20/24 16:37	09/27/24 01:52	5
Cadmium	**0.97**		0.18		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Calcium	**230000**		92		mg/Kg	☼	09/20/24 16:37	09/28/24 02:24	5
Chromium	**38**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Cobalt	**2.4**		0.46		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Copper	**120**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Iron	**21000**		18		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Lead	**79**		0.46		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Magnesium	**11000**		9.2		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Manganese	**8400**		4.6		mg/Kg	☼	09/20/24 16:37	09/28/24 02:24	5
Nickel	**16**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Potassium	**1900**		46		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Selenium	**3.5**		0.92		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Silver	<2.3		2.3		mg/Kg	☼	09/20/24 16:37	09/28/24 02:24	5
Sodium	**960**		92		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Thallium	**29**		4.6		mg/Kg	☼	09/20/24 16:37	09/27/24 01:52	5
Vanadium	**34**		0.46		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1
Zinc	**140**		1.8		mg/Kg	☼	09/20/24 16:37	09/25/24 19:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**13**		1.2		mg/Kg	☼	09/18/24 09:52	09/19/24 11:41	5
pH (SW846 9045D)	**9.86**	**H**	0.20		SU			09/20/24 18:29	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

General Chemistry

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 785629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	5035	
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	5035	
500-256508-3	SB73 (0-3)	Total/NA	Solid	5035	
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	5035	
500-256508-5	SB74 (0-3)	Total/NA	Solid	5035	
500-256508-6	SB74 (3-5)	Total/NA	Solid	5035	
500-256508-7	SB75 (0-3)	Total/NA	Solid	5035	
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	5035	
500-256508-9	SB76 (0-3)	Total/NA	Solid	5035	
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	5035	
500-256508-11	SB77 (0-3)	Total/NA	Solid	5035	
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	5035	

Prep Batch: 785630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-13	SB78 (0-3)	Total/NA	Solid	5035	
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	5035	
500-256508-15	SB79 (0-3)	Total/NA	Solid	5035	
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	5035	
500-256508-17	SB80 (0-3)	Total/NA	Solid	5035	
500-256508-18	SB80 (3-5)	Total/NA	Solid	5035	

Analysis Batch: 786103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	8260D	785629
500-256508-3	SB73 (0-3)	Total/NA	Solid	8260D	785629
500-256508-7	SB75 (0-3)	Total/NA	Solid	8260D	785629
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	8260D	785629
500-256508-9	SB76 (0-3)	Total/NA	Solid	8260D	785629
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	8260D	785629
500-256508-11	SB77 (0-3)	Total/NA	Solid	8260D	785629
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	8260D	785629
500-256508-13	SB78 (0-3)	Total/NA	Solid	8260D	785630
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	8260D	785630
500-256508-15	SB79 (0-3)	Total/NA	Solid	8260D	785630
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	8260D	785630
500-256508-17	SB80 (0-3)	Total/NA	Solid	8260D	785630
500-256508-18	SB80 (3-5)	Total/NA	Solid	8260D	785630
MB 500-786103/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-786103/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-786103/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 786325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	8260D	785629
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	8260D	785629
500-256508-5	SB74 (0-3)	Total/NA	Solid	8260D	785629
500-256508-6	SB74 (3-5)	Total/NA	Solid	8260D	785629
MB 500-786325/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-786325/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-786325/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 787085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	3546	
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	3546	
500-256508-3	SB73 (0-3)	Total/NA	Solid	3546	
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	3546	
500-256508-5	SB74 (0-3)	Total/NA	Solid	3546	
500-256508-6	SB74 (3-5)	Total/NA	Solid	3546	
500-256508-7	SB75 (0-3)	Total/NA	Solid	3546	
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	3546	
500-256508-9	SB76 (0-3)	Total/NA	Solid	3546	
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	3546	
500-256508-11	SB77 (0-3)	Total/NA	Solid	3546	
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	3546	
500-256508-13	SB78 (0-3)	Total/NA	Solid	3546	
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	3546	
500-256508-15	SB79 (0-3)	Total/NA	Solid	3546	
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	3546	
500-256508-17	SB80 (0-3)	Total/NA	Solid	3546	
500-256508-18	SB80 (3-5)	Total/NA	Solid	3546	
MB 500-787085/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-787085/2-A	Lab Control Sample	Total/NA	Solid	3546	
500-256508-2 MS	SB72 (7.5-10)	Total/NA	Solid	3546	
500-256508-2 MSD	SB72 (7.5-10)	Total/NA	Solid	3546	

Analysis Batch: 787207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	8270E	787085
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	8270E	787085
500-256508-3	SB73 (0-3)	Total/NA	Solid	8270E	787085
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	8270E	787085
500-256508-5	SB74 (0-3)	Total/NA	Solid	8270E	787085
500-256508-6	SB74 (3-5)	Total/NA	Solid	8270E	787085
500-256508-7	SB75 (0-3)	Total/NA	Solid	8270E	787085
500-256508-9	SB76 (0-3)	Total/NA	Solid	8270E	787085
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	8270E	787085
500-256508-11	SB77 (0-3)	Total/NA	Solid	8270E	787085
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	8270E	787085
500-256508-13	SB78 (0-3)	Total/NA	Solid	8270E	787085
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	8270E	787085
500-256508-15	SB79 (0-3)	Total/NA	Solid	8270E	787085
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	8270E	787085
500-256508-17	SB80 (0-3)	Total/NA	Solid	8270E	787085
500-256508-18	SB80 (3-5)	Total/NA	Solid	8270E	787085
MB 500-787085/1-A	Method Blank	Total/NA	Solid	8270E	787085
LCS 500-787085/2-A	Lab Control Sample	Total/NA	Solid	8270E	787085
500-256508-2 MS	SB72 (7.5-10)	Total/NA	Solid	8270E	787085
500-256508-2 MSD	SB72 (7.5-10)	Total/NA	Solid	8270E	787085

Analysis Batch: 787446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	8270E	787085

GC Semi VOA

Prep Batch: 787109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-18	SB80 (3-5)	Total/NA	Solid	3541	
MB 500-787109/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-787109/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-787109/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256508-18 MS	SB80 (3-5)	Total/NA	Solid	3541	
500-256508-18 MSD	SB80 (3-5)	Total/NA	Solid	3541	

Prep Batch: 787217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	3541	
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	3541	
500-256508-3	SB73 (0-3)	Total/NA	Solid	3541	
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	3541	
500-256508-5	SB74 (0-3)	Total/NA	Solid	3541	
500-256508-6	SB74 (3-5)	Total/NA	Solid	3541	
500-256508-7	SB75 (0-3)	Total/NA	Solid	3541	
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	3541	
500-256508-9	SB76 (0-3)	Total/NA	Solid	3541	
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	3541	
500-256508-11	SB77 (0-3)	Total/NA	Solid	3541	
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	3541	
500-256508-13	SB78 (0-3)	Total/NA	Solid	3541	
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	3541	
500-256508-15	SB79 (0-3)	Total/NA	Solid	3541	
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	3541	
500-256508-17	SB80 (0-3)	Total/NA	Solid	3541	
MB 500-787217/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-787217/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-787217/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256508-1 MS	SB72 (0-3)	Total/NA	Solid	3541	
500-256508-1 MS	SB72 (0-3)	Total/NA	Solid	3541	
500-256508-1 MSD	SB72 (0-3)	Total/NA	Solid	3541	
500-256508-1 MSD	SB72 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 787624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-787109/3-A	Lab Control Sample	Total/NA	Solid	8082A	787109

Analysis Batch: 787729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-787109/1-A	Method Blank	Total/NA	Solid	8081B	787109
LCS 500-787109/2-A	Lab Control Sample	Total/NA	Solid	8081B	787109

Analysis Batch: 787803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-787109/1-A	Method Blank	Total/NA	Solid	8082A	787109

Analysis Batch: 788018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	8082A	787217
MB 500-787217/1-A	Method Blank	Total/NA	Solid	8082A	787217

GC Semi VOA (Continued)

Analysis Batch: 788018 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-787217/3-A	Lab Control Sample	Total/NA	Solid	8082A	787217

Analysis Batch: 788019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-15	SB79 (0-3)	Total/NA	Solid	8082A	787217
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	8082A	787217

Analysis Batch: 788020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	8082A	787217
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	8082A	787217
500-256508-3	SB73 (0-3)	Total/NA	Solid	8082A	787217
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	8082A	787217
500-256508-5	SB74 (0-3)	Total/NA	Solid	8082A	787217
500-256508-6	SB74 (3-5)	Total/NA	Solid	8082A	787217
500-256508-7	SB75 (0-3)	Total/NA	Solid	8082A	787217
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	8082A	787217
500-256508-11	SB77 (0-3)	Total/NA	Solid	8082A	787217
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	8082A	787217
500-256508-13	SB78 (0-3)	Total/NA	Solid	8082A	787217
500-256508-1 MS	SB72 (0-3)	Total/NA	Solid	8082A	787217
500-256508-1 MSD	SB72 (0-3)	Total/NA	Solid	8082A	787217

Analysis Batch: 788189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-18	SB80 (3-5)	Total/NA	Solid	8082A	787109

Analysis Batch: 788278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	8082A	787217
500-256508-9	SB76 (0-3)	Total/NA	Solid	8082A	787217
500-256508-17	SB80 (0-3)	Total/NA	Solid	8082A	787217

Analysis Batch: 788442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	8081B	787217
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	8081B	787217
500-256508-3	SB73 (0-3)	Total/NA	Solid	8081B	787217
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	8081B	787217
500-256508-5	SB74 (0-3)	Total/NA	Solid	8081B	787217
500-256508-6	SB74 (3-5)	Total/NA	Solid	8081B	787217
500-256508-7	SB75 (0-3)	Total/NA	Solid	8081B	787217
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	8081B	787217
500-256508-9	SB76 (0-3)	Total/NA	Solid	8081B	787217
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	8081B	787217
500-256508-11	SB77 (0-3)	Total/NA	Solid	8081B	787217
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	8081B	787217
500-256508-13	SB78 (0-3)	Total/NA	Solid	8081B	787217
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	8081B	787217
500-256508-15	SB79 (0-3)	Total/NA	Solid	8081B	787217
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	8081B	787217

GC Semi VOA (Continued)

Analysis Batch: 788442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-17	SB80 (0-3)	Total/NA	Solid	8081B	787217
MB 500-787217/1-A	Method Blank	Total/NA	Solid	8081B	787217
LCS 500-787217/2-A	Lab Control Sample	Total/NA	Solid	8081B	787217
500-256508-1 MS	SB72 (0-3)	Total/NA	Solid	8081B	787217
500-256508-1 MSD	SB72 (0-3)	Total/NA	Solid	8081B	787217

Analysis Batch: 788691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-18	SB80 (3-5)	Total/NA	Solid	8081B	787109
500-256508-18 MS	SB80 (3-5)	Total/NA	Solid	8081B	787109
500-256508-18 MSD	SB80 (3-5)	Total/NA	Solid	8081B	787109

Metals

Prep Batch: 787128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	3050B	
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	3050B	
500-256508-3	SB73 (0-3)	Total/NA	Solid	3050B	
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	3050B	
500-256508-5	SB74 (0-3)	Total/NA	Solid	3050B	
500-256508-6	SB74 (3-5)	Total/NA	Solid	3050B	
500-256508-7	SB75 (0-3)	Total/NA	Solid	3050B	
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	3050B	
500-256508-9	SB76 (0-3)	Total/NA	Solid	3050B	
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	3050B	
500-256508-11	SB77 (0-3)	Total/NA	Solid	3050B	
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	3050B	
500-256508-13	SB78 (0-3)	Total/NA	Solid	3050B	
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	3050B	
500-256508-15	SB79 (0-3)	Total/NA	Solid	3050B	
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	3050B	
500-256508-17	SB80 (0-3)	Total/NA	Solid	3050B	
500-256508-18	SB80 (3-5)	Total/NA	Solid	3050B	
MB 500-787128/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-787128/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 500-787128/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
500-256508-1 MS	SB72 (0-3)	Total/NA	Solid	3050B	
500-256508-1 MSD	SB72 (0-3)	Total/NA	Solid	3050B	
500-256508-1 DU	SB72 (0-3)	Total/NA	Solid	3050B	

Analysis Batch: 787833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	6010D	787128
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	6010D	787128
500-256508-3	SB73 (0-3)	Total/NA	Solid	6010D	787128
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	6010D	787128
500-256508-5	SB74 (0-3)	Total/NA	Solid	6010D	787128
500-256508-6	SB74 (3-5)	Total/NA	Solid	6010D	787128
500-256508-7	SB75 (0-3)	Total/NA	Solid	6010D	787128
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	6010D	787128

Metals (Continued)

Analysis Batch: 787833 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-9	SB76 (0-3)	Total/NA	Solid	6010D	787128
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	6010D	787128
500-256508-11	SB77 (0-3)	Total/NA	Solid	6010D	787128
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	6010D	787128
500-256508-13	SB78 (0-3)	Total/NA	Solid	6010D	787128
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	6010D	787128
500-256508-15	SB79 (0-3)	Total/NA	Solid	6010D	787128
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	6010D	787128
500-256508-17	SB80 (0-3)	Total/NA	Solid	6010D	787128
500-256508-18	SB80 (3-5)	Total/NA	Solid	6010D	787128
MB 500-787128/1-A	Method Blank	Total/NA	Solid	6010D	787128
LCS 500-787128/2-A	Lab Control Sample	Total/NA	Solid	6010D	787128
500-256508-1 MS	SB72 (0-3)	Total/NA	Solid	6010D	787128
500-256508-1 MSD	SB72 (0-3)	Total/NA	Solid	6010D	787128
500-256508-1 DU	SB72 (0-3)	Total/NA	Solid	6010D	787128

Prep Batch: 787947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	7471B	
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	7471B	
500-256508-3	SB73 (0-3)	Total/NA	Solid	7471B	
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	7471B	
500-256508-5	SB74 (0-3)	Total/NA	Solid	7471B	
500-256508-6	SB74 (3-5)	Total/NA	Solid	7471B	
500-256508-7	SB75 (0-3)	Total/NA	Solid	7471B	
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	7471B	
500-256508-9	SB76 (0-3)	Total/NA	Solid	7471B	
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	7471B	
500-256508-11	SB77 (0-3)	Total/NA	Solid	7471B	
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	7471B	
500-256508-13	SB78 (0-3)	Total/NA	Solid	7471B	
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	7471B	
500-256508-15	SB79 (0-3)	Total/NA	Solid	7471B	
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	7471B	
500-256508-17	SB80 (0-3)	Total/NA	Solid	7471B	
500-256508-18	SB80 (3-5)	Total/NA	Solid	7471B	
MB 500-787947/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-787947/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-256508-9 MS	SB76 (0-3)	Total/NA	Solid	7471B	
500-256508-9 MSD	SB76 (0-3)	Total/NA	Solid	7471B	
500-256508-9 DU	SB76 (0-3)	Total/NA	Solid	7471B	

Analysis Batch: 788042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	6010D	787128
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	6010D	787128
500-256508-3	SB73 (0-3)	Total/NA	Solid	6010D	787128
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	6010D	787128
500-256508-6	SB74 (3-5)	Total/NA	Solid	6010D	787128
500-256508-7	SB75 (0-3)	Total/NA	Solid	6010D	787128
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	6010D	787128

Metals (Continued)

Analysis Batch: 788042 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-9	SB76 (0-3)	Total/NA	Solid	6010D	787128
500-256508-9	SB76 (0-3)	Total/NA	Solid	6010D	787128
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	6010D	787128
500-256508-11	SB77 (0-3)	Total/NA	Solid	6010D	787128
500-256508-11	SB77 (0-3)	Total/NA	Solid	6010D	787128
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	6010D	787128
500-256508-13	SB78 (0-3)	Total/NA	Solid	6010D	787128
500-256508-13	SB78 (0-3)	Total/NA	Solid	6010D	787128
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	6010D	787128
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	6010D	787128
500-256508-15	SB79 (0-3)	Total/NA	Solid	6010D	787128
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	6010D	787128
500-256508-17	SB80 (0-3)	Total/NA	Solid	6010D	787128
500-256508-18	SB80 (3-5)	Total/NA	Solid	6010D	787128
MB 500-787128/1-A	Method Blank	Total/NA	Solid	6010D	787128
LCS 500-787128/2-A ^2	Lab Control Sample	Total/NA	Solid	6010D	787128
500-256508-1 MS	SB72 (0-3)	Total/NA	Solid	6010D	787128
500-256508-1 MSD	SB72 (0-3)	Total/NA	Solid	6010D	787128
500-256508-1 DU	SB72 (0-3)	Total/NA	Solid	6010D	787128

Analysis Batch: 788096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	7471B	787947
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	7471B	787947
500-256508-3	SB73 (0-3)	Total/NA	Solid	7471B	787947
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	7471B	787947
500-256508-5	SB74 (0-3)	Total/NA	Solid	7471B	787947
500-256508-6	SB74 (3-5)	Total/NA	Solid	7471B	787947
500-256508-7	SB75 (0-3)	Total/NA	Solid	7471B	787947
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	7471B	787947
500-256508-9	SB76 (0-3)	Total/NA	Solid	7471B	787947
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	7471B	787947
500-256508-11	SB77 (0-3)	Total/NA	Solid	7471B	787947
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	7471B	787947
500-256508-13	SB78 (0-3)	Total/NA	Solid	7471B	787947
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	7471B	787947
500-256508-15	SB79 (0-3)	Total/NA	Solid	7471B	787947
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	7471B	787947
500-256508-17	SB80 (0-3)	Total/NA	Solid	7471B	787947
500-256508-18	SB80 (3-5)	Total/NA	Solid	7471B	787947
MB 500-787947/12-A	Method Blank	Total/NA	Solid	7471B	787947
LCS 500-787947/13-A	Lab Control Sample	Total/NA	Solid	7471B	787947
500-256508-9 MS	SB76 (0-3)	Total/NA	Solid	7471B	787947
500-256508-9 MSD	SB76 (0-3)	Total/NA	Solid	7471B	787947
500-256508-9 DU	SB76 (0-3)	Total/NA	Solid	7471B	787947

Analysis Batch: 788205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	6010D	787128
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	6010D	787128
500-256508-3	SB73 (0-3)	Total/NA	Solid	6010D	787128

Metals (Continued)

Analysis Batch: 788205 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	6010D	787128
500-256508-5	SB74 (0-3)	Total/NA	Solid	6010D	787128
500-256508-6	SB74 (3-5)	Total/NA	Solid	6010D	787128
500-256508-7	SB75 (0-3)	Total/NA	Solid	6010D	787128
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	6010D	787128
500-256508-9	SB76 (0-3)	Total/NA	Solid	6010D	787128
500-256508-9	SB76 (0-3)	Total/NA	Solid	6010D	787128
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	6010D	787128
500-256508-11	SB77 (0-3)	Total/NA	Solid	6010D	787128
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	6010D	787128
500-256508-13	SB78 (0-3)	Total/NA	Solid	6010D	787128
500-256508-13	SB78 (0-3)	Total/NA	Solid	6010D	787128
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	6010D	787128
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	6010D	787128
500-256508-15	SB79 (0-3)	Total/NA	Solid	6010D	787128
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	6010D	787128
500-256508-17	SB80 (0-3)	Total/NA	Solid	6010D	787128
500-256508-18	SB80 (3-5)	Total/NA	Solid	6010D	787128
MB 500-787128/1-A	Method Blank	Total/NA	Solid	6010D	787128
LCS 500-787128/2-A ^2	Lab Control Sample	Total/NA	Solid	6010D	787128
500-256508-1 MS	SB72 (0-3)	Total/NA	Solid	6010D	787128
500-256508-1 MSD	SB72 (0-3)	Total/NA	Solid	6010D	787128
500-256508-1 DU	SB72 (0-3)	Total/NA	Solid	6010D	787128

General Chemistry

Prep Batch: 627056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-3	SB73 (0-3)	Total/NA	Solid	9030B	
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	9030B	
MB 240-627056/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-627056/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 627111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-3	SB73 (0-3)	Total/NA	Solid	9034	627056
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	9034	627056
MB 240-627056/1-A	Method Blank	Total/NA	Solid	9034	627056
LCS 240-627056/2-A	Lab Control Sample	Total/NA	Solid	9034	627056

Prep Batch: 786400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	9010C	
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	9010C	
500-256508-3	SB73 (0-3)	Total/NA	Solid	9010C	
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	9010C	
500-256508-5	SB74 (0-3)	Total/NA	Solid	9010C	
500-256508-6	SB74 (3-5)	Total/NA	Solid	9010C	
500-256508-7	SB75 (0-3)	Total/NA	Solid	9010C	
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	9010C	
500-256508-9	SB76 (0-3)	Total/NA	Solid	9010C	

General Chemistry (Continued)

Prep Batch: 786400 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	9010C	
500-256508-11	SB77 (0-3)	Total/NA	Solid	9010C	
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	9010C	
500-256508-13	SB78 (0-3)	Total/NA	Solid	9010C	
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	9010C	
500-256508-15	SB79 (0-3)	Total/NA	Solid	9010C	
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	9010C	
500-256508-17	SB80 (0-3)	Total/NA	Solid	9010C	
MB 500-786400/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-786400/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256508-17 MS	SB80 (0-3)	Total/NA	Solid	9010C	
500-256508-17 MSD	SB80 (0-3)	Total/NA	Solid	9010C	

Analysis Batch: 786493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	9045D	
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	9045D	
500-256508-3	SB73 (0-3)	Total/NA	Solid	9045D	
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	9045D	
500-256508-5	SB74 (0-3)	Total/NA	Solid	9045D	
500-256508-6	SB74 (3-5)	Total/NA	Solid	9045D	
500-256508-7	SB75 (0-3)	Total/NA	Solid	9045D	
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	9045D	
500-256508-9	SB76 (0-3)	Total/NA	Solid	9045D	
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	9045D	
500-256508-11	SB77 (0-3)	Total/NA	Solid	9045D	
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	9045D	
500-256508-13	SB78 (0-3)	Total/NA	Solid	9045D	
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	9045D	
500-256508-15	SB79 (0-3)	Total/NA	Solid	9045D	
LCS 500-786493/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-786493/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-256508-6 DU	SB74 (3-5)	Total/NA	Solid	9045D	

Prep Batch: 786602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-18	SB80 (3-5)	Total/NA	Solid	9010C	
500-256508-18 MS	SB80 (3-5)	Total/NA	Solid	9010C	
500-256508-18 MSD	SB80 (3-5)	Total/NA	Solid	9010C	

Analysis Batch: 786881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	Moisture	
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	Moisture	

Analysis Batch: 786891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-9	SB76 (0-3)	Total/NA	Solid	9012B	786400
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	9012B	786400
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	9012B	786400
500-256508-13	SB78 (0-3)	Total/NA	Solid	9012B	786400

General Chemistry (Continued)

Analysis Batch: 786891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-15	SB79 (0-3)	Total/NA	Solid	9012B	786400
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	9012B	786400
500-256508-17	SB80 (0-3)	Total/NA	Solid	9012B	786400
500-256508-18	SB80 (3-5)	Total/NA	Solid	9012B	786602
500-256508-17 MS	SB80 (0-3)	Total/NA	Solid	9012B	786400
500-256508-17 MSD	SB80 (0-3)	Total/NA	Solid	9012B	786400
500-256508-18 MS	SB80 (3-5)	Total/NA	Solid	9012B	786602
500-256508-18 MSD	SB80 (3-5)	Total/NA	Solid	9012B	786602

Analysis Batch: 786892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-3	SB73 (0-3)	Total/NA	Solid	Moisture	
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	Moisture	
500-256508-5	SB74 (0-3)	Total/NA	Solid	Moisture	
500-256508-6	SB74 (3-5)	Total/NA	Solid	Moisture	
500-256508-7	SB75 (0-3)	Total/NA	Solid	Moisture	
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	Moisture	
500-256508-7 DU	SB75 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 786902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-9	SB76 (0-3)	Total/NA	Solid	Moisture	
500-256508-10	SB76 (7.5-10)	Total/NA	Solid	Moisture	
500-256508-11	SB77 (0-3)	Total/NA	Solid	Moisture	
500-256508-12	SB77 (5-7.5)	Total/NA	Solid	Moisture	
500-256508-13	SB78 (0-3)	Total/NA	Solid	Moisture	
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	Moisture	
500-256508-15	SB79 (0-3)	Total/NA	Solid	Moisture	
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	Moisture	
500-256508-17	SB80 (0-3)	Total/NA	Solid	Moisture	
500-256508-18	SB80 (3-5)	Total/NA	Solid	Moisture	
500-256508-17 DU	SB80 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 787247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-16	SB79 (5-7.5)	Total/NA	Solid	9045D	
500-256508-17	SB80 (0-3)	Total/NA	Solid	9045D	
500-256508-18	SB80 (3-5)	Total/NA	Solid	9045D	
LCS 500-787247/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-787247/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 787319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	Total/NA	Solid	9012B	786400
500-256508-2	SB72 (7.5-10)	Total/NA	Solid	9012B	786400
500-256508-3	SB73 (0-3)	Total/NA	Solid	9012B	786400
500-256508-4	SB73 (5-7.5)	Total/NA	Solid	9012B	786400
500-256508-5	SB74 (0-3)	Total/NA	Solid	9012B	786400
500-256508-6	SB74 (3-5)	Total/NA	Solid	9012B	786400
500-256508-7	SB75 (0-3)	Total/NA	Solid	9012B	786400
500-256508-8	SB75 (5-7.5)	Total/NA	Solid	9012B	786400

General Chemistry (Continued)

Analysis Batch: 787319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-11	SB77 (0-3)	Total/NA	Solid	9012B	786400
500-256508-14	SB78 (10-12.5)	Total/NA	Solid	9012B	786400
MB 500-786400/1-A	Method Blank	Total/NA	Solid	9012B	786400
LCS 500-786400/2-A	Lab Control Sample	Total/NA	Solid	9012B	786400

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-256508-1	SB72 (0-3)	115	137 *3 S1+	113	115
500-256508-2	SB72 (7.5-10)	103	128	105	114
500-256508-3	SB73 (0-3)	119	127 *3	118	140 S1+
500-256508-4	SB73 (5-7.5)	115	107 *3	106	104
500-256508-5	SB74 (0-3)	112	118 *3	108	110
500-256508-6	SB74 (3-5)	103	119 *3	97	115
500-256508-7	SB75 (0-3)	103	122	68 S1-	104
500-256508-8	SB75 (5-7.5)	102	135 S1+	73 S1-	105
500-256508-9	SB76 (0-3)	98	105	79	100
500-256508-10	SB76 (7.5-10)	103	101	75	98
500-256508-11	SB77 (0-3)	102	110	96	100
500-256508-12	SB77 (5-7.5)	105	105	81	101
500-256508-13	SB78 (0-3)	110	131	108	110
500-256508-14	SB78 (10-12.5)	107	97	84	99
500-256508-15	SB79 (0-3)	105	118	102	108
500-256508-16	SB79 (5-7.5)	102	95	89	100
500-256508-17	SB80 (0-3)	106	126	106	121
500-256508-18	SB80 (3-5)	101	104	100	101
LCS 500-786103/3	Lab Control Sample	98	94	101	99
LCS 500-786325/3	Lab Control Sample	105	91	101	105
LCSD 500-786103/4	Lab Control Sample Dup	96	97	98	99
LCSD 500-786325/4	Lab Control Sample Dup	108	92	104	97
MB 500-786103/6	Method Blank	105	97	102	101
MB 500-786325/6	Method Blank	110	101	107	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256508-1	SB72 (0-3)	43	52	62	74	37	79
500-256508-2	SB72 (7.5-10)	73	69	65	69	80	81
500-256508-2 MS	SB72 (7.5-10)	75	73	65	71	87	84
500-256508-2 MSD	SB72 (7.5-10)	60	61	54	66	78	72
500-256508-3	SB73 (0-3)	58	63	64	75	61	91
500-256508-4	SB73 (5-7.5)	72	70	67	73	87	90
500-256508-5	SB74 (0-3)	50	56	55	66	52	76
500-256508-6	SB74 (3-5)	63	66	65	76	64	83
500-256508-7	SB75 (0-3)	35	58	53	72	2 S1-	85
500-256508-8	SB75 (5-7.5)	34	48	47	51	0 S1-	54
500-256508-9	SB76 (0-3)	45	59	52	66	4 S1-	80
500-256508-10	SB76 (7.5-10)	54	65	61	71	26 S1-	90
500-256508-11	SB77 (0-3)	57	58	56	67	73	79

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-256508-12	SB77 (5-7.5)	43	66	62	69	8 S1-	77
500-256508-13	SB78 (0-3)	54	56	50	60	62	71
500-256508-14	SB78 (10-12.5)	56	64	54	57	25 S1-	76
500-256508-15	SB79 (0-3)	46	45	43	50	36	68
500-256508-16	SB79 (5-7.5)	66	67	62	68	13 S1-	88
500-256508-17	SB80 (0-3)	67	66	65	72	56	68
500-256508-18	SB80 (3-5)	59	57	54	64	52	82
LCS 500-787085/2-A	Lab Control Sample	72	70	70	75	88	79
MB 500-787085/1-A	Method Blank	69	66	65	69	74	77

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (33-148)	TCX1 (30-121)
500-256508-1	SB72 (0-3)	444 S1+	55
500-256508-1 MS	SB72 (0-3)	213 S1+	69
500-256508-1 MSD	SB72 (0-3)	74	45
500-256508-2	SB72 (7.5-10)	98	60
500-256508-3	SB73 (0-3)	114	54
500-256508-4	SB73 (5-7.5)	84	49
500-256508-5	SB74 (0-3)	129	54
500-256508-6	SB74 (3-5)	198 S1+	203 S1+
500-256508-7	SB75 (0-3)	70	49
500-256508-8	SB75 (5-7.5)	74	53
500-256508-9	SB76 (0-3)	122	57
500-256508-10	SB76 (7.5-10)	75	39
500-256508-11	SB77 (0-3)	113	1024 S1+
500-256508-12	SB77 (5-7.5)	59	32
500-256508-13	SB78 (0-3)	48	35
500-256508-14	SB78 (10-12.5)	101	58
500-256508-15	SB79 (0-3)	77	115
500-256508-16	SB79 (5-7.5)	98	172 S1+
500-256508-17	SB80 (0-3)	165 S1+	65
LCS 500-787109/2-A	Lab Control Sample	91	73
LCS 500-787217/2-A	Lab Control Sample	82	53
MB 500-787109/1-A	Method Blank	102	63
MB 500-787217/1-A	Method Blank	106	59

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (33-148)	TCX2 (30-121)
500-256508-18	SB80 (3-5)	156 S1+	70
500-256508-18 MS	SB80 (3-5)	197 S1+	62
500-256508-18 MSD	SB80 (3-5)	147	62

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (49-129)	DCBP2 (37-121)
500-256508-1	SB72 (0-3)	71	86
500-256508-1 MS	SB72 (0-3)	60	76
500-256508-1 MSD	SB72 (0-3)	83	102
500-256508-2	SB72 (7.5-10)	81	109
500-256508-3	SB73 (0-3)	55	80
500-256508-4	SB73 (5-7.5)	58	37
500-256508-5	SB74 (0-3)	61	50
500-256508-6	SB74 (3-5)	72	38
500-256508-7	SB75 (0-3)	61	51
500-256508-10	SB76 (7.5-10)	68	58
500-256508-11	SB77 (0-3)	61	26 S1-
500-256508-12	SB77 (5-7.5)	71	99
500-256508-13	SB78 (0-3)	92	41
500-256508-18	SB80 (3-5)	101	84
LCS 500-787109/3-A	Lab Control Sample	103	28 S1-

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-256508-8	SB75 (5-7.5)	73	114
500-256508-9	SB76 (0-3)	67	100
500-256508-14	SB78 (10-12.5)	53	74
500-256508-15	SB79 (0-3)	52	67
500-256508-16	SB79 (5-7.5)	36 S1-	87
500-256508-17	SB80 (0-3)	0 S1-	0 S1-
LCS 500-787217/3-A	Lab Control Sample	57	56
MB 500-787109/1-A	Method Blank	78	19 S1-
MB 500-787217/1-A	Method Blank	55	55

Surrogate Legend

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-786103/6
Matrix: Solid
Analysis Batch: 786103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/15/24 15:29	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/15/24 15:29	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/15/24 15:29	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/15/24 15:29	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/15/24 15:29	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/15/24 15:29	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/15/24 15:29	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/15/24 15:29	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/15/24 15:29	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/15/24 15:29	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/15/24 15:29	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/15/24 15:29	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/15/24 15:29	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/15/24 15:29	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/15/24 15:29	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/15/24 15:29	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/15/24 15:29	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/15/24 15:29	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/15/24 15:29	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/15/24 15:29	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/15/24 15:29	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/15/24 15:29	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/15/24 15:29	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/15/24 15:29	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/15/24 15:29	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/15/24 15:29	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/15/24 15:29	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/15/24 15:29	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/15/24 15:29	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/15/24 15:29	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/15/24 15:29	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/15/24 15:29	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/15/24 15:29	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/15/24 15:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*09/15/24 15:29*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*		*09/15/24 15:29*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*09/15/24 15:29*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*		*09/15/24 15:29*	*1*

Lab Sample ID: LCS 500-786103/3
Matrix: Solid
Analysis Batch: 786103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0556		mg/Kg		111	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0662	*+	mg/Kg		132	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786103/3
Matrix: Solid
Analysis Batch: 786103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0612		mg/Kg		122	70 - 125
1,1-Dichloroethane	0.0500	0.0568		mg/Kg		114	70 - 125
1,1-Dichloroethene	0.0500	0.0560		mg/Kg		112	70 - 120
1,2-Dichloroethane	0.0500	0.0578		mg/Kg		116	70 - 130
1,2-Dichloropropane	0.0500	0.0616		mg/Kg		123	70 - 125
2-Butanone (MEK)	0.0500	0.0660		mg/Kg		132	47 - 138
2-Hexanone	0.0500	0.0680		mg/Kg		136	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0687		mg/Kg		137	50 - 148
Acetone	0.0500	0.0647		mg/Kg		129	40 - 150
Benzene	0.0500	0.0593		mg/Kg		119	70 - 125
Bromodichloromethane	0.0500	0.0618		mg/Kg		124	67 - 129
Bromoform	0.0500	0.0682		mg/Kg		136	68 - 136
Bromomethane	0.0500	0.0498		mg/Kg		100	70 - 130
Carbon disulfide	0.0500	0.0570		mg/Kg		114	70 - 129
Carbon tetrachloride	0.0500	0.0568		mg/Kg		114	75 - 125
Chlorobenzene	0.0500	0.0589		mg/Kg		118	50 - 150
Chloroethane	0.0500	0.0526		mg/Kg		105	75 - 125
Chloroform	0.0500	0.0577		mg/Kg		115	57 - 135
Chloromethane	0.0500	0.0531		mg/Kg		106	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0593		mg/Kg		119	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0592		mg/Kg		118	70 - 125
Dibromochloromethane	0.0500	0.0611		mg/Kg		122	69 - 125
Ethylbenzene	0.0500	0.0606		mg/Kg		121	61 - 136
Methyl tert-butyl ether	0.0500	0.0630		mg/Kg		126	50 - 140
Methylene Chloride	0.0500	0.0526		mg/Kg		105	70 - 126
Styrene	0.0500	0.0646	*+	mg/Kg		129	70 - 125
Tetrachloroethene	0.0500	0.0572		mg/Kg		114	70 - 124
Toluene	0.0500	0.0595		mg/Kg		119	70 - 125
Xylenes, Total	0.100	0.117		mg/Kg		117	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0573		mg/Kg		115	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0605		mg/Kg		121	70 - 125
Trichloroethene	0.0500	0.0574		mg/Kg		115	70 - 125
Vinyl chloride	0.0500	0.0498		mg/Kg		100	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 124*

Lab Sample ID: LCSD 500-786103/4
Matrix: Solid
Analysis Batch: 786103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0426		mg/Kg		85	70 - 128	27	30
1,1,2,2-Tetrachloroethane	0.0500	0.0535		mg/Kg		107	70 - 122	21	30
1,1,2-Trichloroethane	0.0500	0.0479		mg/Kg		96	70 - 125	24	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-786103/4
Matrix: Solid
Analysis Batch: 786103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0446		mg/Kg		89	70 - 125	24	30
1,1-Dichloroethene			0.0500	0.0451		mg/Kg		90	70 - 120	21	30
1,2-Dichloroethane			0.0500	0.0433		mg/Kg		87	70 - 130	29	30
1,2-Dichloropropane			0.0500	0.0472		mg/Kg		94	70 - 125	26	30
2-Butanone (MEK)			0.0500	0.0536		mg/Kg		107	47 - 138	21	30
2-Hexanone			0.0500	0.0560		mg/Kg		112	48 - 146	19	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0560		mg/Kg		112	50 - 148	20	30
Acetone			0.0500	0.0464	*1	mg/Kg		93	40 - 150	33	30
Benzene			0.0500	0.0477		mg/Kg		95	70 - 125	22	30
Bromodichloromethane			0.0500	0.0480		mg/Kg		96	67 - 129	25	30
Bromoform			0.0500	0.0522		mg/Kg		104	68 - 136	27	30
Bromomethane			0.0500	0.0429		mg/Kg		86	70 - 130	15	30
Carbon disulfide			0.0500	0.0462		mg/Kg		92	70 - 129	21	30
Carbon tetrachloride			0.0500	0.0446		mg/Kg		89	75 - 125	24	30
Chlorobenzene			0.0500	0.0463		mg/Kg		93	50 - 150	24	30
Chloroethane			0.0500	0.0483		mg/Kg		97	75 - 125	8	30
Chloroform			0.0500	0.0456		mg/Kg		91	57 - 135	23	30
Chloromethane			0.0500	0.0435		mg/Kg		87	70 - 125	20	30
cis-1,2-Dichloroethene			0.0500	0.0480		mg/Kg		96	70 - 125	21	30
cis-1,3-Dichloropropene			0.0500	0.0472		mg/Kg		94	70 - 125	22	30
Dibromochloromethane			0.0500	0.0487		mg/Kg		97	69 - 125	23	30
Ethylbenzene			0.0500	0.0478		mg/Kg		96	61 - 136	24	30
Methyl tert-butyl ether			0.0500	0.0495		mg/Kg		99	50 - 140	24	30
Methylene Chloride			0.0500	0.0408		mg/Kg		82	70 - 126	25	30
Styrene			0.0500	0.0510		mg/Kg		102	70 - 125	24	30
Tetrachloroethene			0.0500	0.0450		mg/Kg		90	70 - 124	24	30
Toluene			0.0500	0.0472		mg/Kg		94	70 - 125	23	30
Xylenes, Total			0.100	0.0932		mg/Kg		93	53 - 147	23	30
trans-1,2-Dichloroethene			0.0500	0.0463		mg/Kg		93	70 - 125	21	30
trans-1,3-Dichloropropene			0.0500	0.0473		mg/Kg		95	70 - 125	25	30
Trichloroethene			0.0500	0.0459		mg/Kg		92	70 - 125	22	30
Vinyl chloride			0.0500	0.0406		mg/Kg		81	70 - 125	20	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*
Dibromofluoromethane	*98*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 124*

Lab Sample ID: MB 500-786325/6
Matrix: Solid
Analysis Batch: 786325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/16/24 22:45	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/16/24 22:45	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/16/24 22:45	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/16/24 22:45	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-786325/6
Matrix: Solid
Analysis Batch: 786325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/16/24 22:45	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/16/24 22:45	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/16/24 22:45	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/16/24 22:45	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/16/24 22:45	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/16/24 22:45	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/16/24 22:45	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/16/24 22:45	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/16/24 22:45	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/16/24 22:45	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/16/24 22:45	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/16/24 22:45	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/16/24 22:45	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/16/24 22:45	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/16/24 22:45	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/16/24 22:45	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/16/24 22:45	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/16/24 22:45	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/16/24 22:45	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/16/24 22:45	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/16/24 22:45	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/16/24 22:45	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/16/24 22:45	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/16/24 22:45	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/16/24 22:45	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/16/24 22:45	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/16/24 22:45	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/16/24 22:45	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/16/24 22:45	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/16/24 22:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*		*09/16/24 22:45*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*		*09/16/24 22:45*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*09/16/24 22:45*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*		*09/16/24 22:45*	*1*

Lab Sample ID: LCS 500-786325/3
Matrix: Solid
Analysis Batch: 786325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0535		mg/Kg		107	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0402		mg/Kg		80	70 - 122
1,1,2-Trichloroethane	0.0500	0.0480		mg/Kg		96	70 - 125
1,1-Dichloroethane	0.0500	0.0422		mg/Kg		84	70 - 125
1,1-Dichloroethene	0.0500	0.0465		mg/Kg		93	70 - 120
1,2-Dichloroethane	0.0500	0.0492		mg/Kg		98	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786325/3
Matrix: Solid
Analysis Batch: 786325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0429		mg/Kg		86	70 - 125
2-Butanone (MEK)	0.0500	0.0430		mg/Kg		86	47 - 138
2-Hexanone	0.0500	0.0451		mg/Kg		90	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0455		mg/Kg		91	50 - 148
Acetone	0.0500	0.0421		mg/Kg		84	40 - 150
Benzene	0.0500	0.0456		mg/Kg		91	70 - 125
Bromodichloromethane	0.0500	0.0503		mg/Kg		101	67 - 129
Bromoform	0.0500	0.0512		mg/Kg		102	68 - 136
Bromomethane	0.0500	0.0536		mg/Kg		107	70 - 130
Carbon disulfide	0.0500	0.0449		mg/Kg		90	70 - 129
Carbon tetrachloride	0.0500	0.0549		mg/Kg		110	75 - 125
Chlorobenzene	0.0500	0.0486		mg/Kg		97	50 - 150
Chloroethane	0.0500	0.0457		mg/Kg		91	75 - 125
Chloroform	0.0500	0.0463		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0467		mg/Kg		93	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0498		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0527		mg/Kg		105	69 - 125
Ethylbenzene	0.0500	0.0505		mg/Kg		101	61 - 136
Methyl tert-butyl ether	0.0500	0.0460		mg/Kg		92	50 - 140
Methylene Chloride	0.0500	0.0380		mg/Kg		76	70 - 126
Styrene	0.0500	0.0503		mg/Kg		101	70 - 125
Tetrachloroethene	0.0500	0.0532		mg/Kg		106	70 - 124
Toluene	0.0500	0.0490		mg/Kg		98	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0452		mg/Kg		90	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0493		mg/Kg		99	70 - 125
Trichloroethene	0.0500	0.0498		mg/Kg		100	70 - 125
Vinyl chloride	0.0500	0.0519		mg/Kg		104	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*105*		*75 - 124*

Lab Sample ID: LCSD 500-786325/4
Matrix: Solid
Analysis Batch: 786325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0598		mg/Kg		120	70 - 128	11	30
1,1,2,2-Tetrachloroethane	0.0500	0.0430		mg/Kg		86	70 - 122	7	30
1,1,2-Trichloroethane	0.0500	0.0481		mg/Kg		96	70 - 125	0	30
1,1-Dichloroethane	0.0500	0.0505		mg/Kg		101	70 - 125	18	30
1,1-Dichloroethene	0.0500	0.0510		mg/Kg		102	70 - 120	9	30
1,2-Dichloroethane	0.0500	0.0527		mg/Kg		105	70 - 130	7	30
1,2-Dichloropropane	0.0500	0.0468		mg/Kg		94	70 - 125	9	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-786325/4
Matrix: Solid
Analysis Batch: 786325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			0.0500	0.0502		mg/Kg		100	47 - 138	15	30
2-Hexanone			0.0500	0.0512		mg/Kg		102	48 - 146	13	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0506		mg/Kg		101	50 - 148	10	30
Acetone			0.0500	0.0473		mg/Kg		95	40 - 150	12	30
Benzene			0.0500	0.0498		mg/Kg		100	70 - 125	9	30
Bromodichloromethane			0.0500	0.0549		mg/Kg		110	67 - 129	9	30
Bromoform			0.0500	0.0559		mg/Kg		112	68 - 136	9	30
Bromomethane			0.0500	0.0561		mg/Kg		112	70 - 130	5	30
Carbon disulfide			0.0500	0.0507		mg/Kg		101	70 - 129	12	30
Carbon tetrachloride			0.0500	0.0614		mg/Kg		123	75 - 125	11	30
Chlorobenzene			0.0500	0.0490		mg/Kg		98	50 - 150	1	30
Chloroethane			0.0500	0.0519		mg/Kg		104	75 - 125	13	30
Chloroform			0.0500	0.0529		mg/Kg		106	57 - 135	13	30
Chloromethane			0.0500	0.0522		mg/Kg		104	70 - 125	11	30
cis-1,2-Dichloroethene			0.0500	0.0519		mg/Kg		104	70 - 125	13	30
cis-1,3-Dichloropropene			0.0500	0.0480		mg/Kg		96	70 - 125	4	30
Dibromochloromethane			0.0500	0.0530		mg/Kg		106	69 - 125	1	30
Ethylbenzene			0.0500	0.0501		mg/Kg		100	61 - 136	1	30
Methyl tert-butyl ether			0.0500	0.0563		mg/Kg		113	50 - 140	20	30
Methylene Chloride			0.0500	0.0448		mg/Kg		90	70 - 126	16	30
Styrene			0.0500	0.0518		mg/Kg		104	70 - 125	3	30
Tetrachloroethene			0.0500	0.0539		mg/Kg		108	70 - 124	1	30
Toluene			0.0500	0.0475		mg/Kg		95	70 - 125	3	30
Xylenes, Total			0.100	0.104		mg/Kg		104	53 - 147	3	30
trans-1,2-Dichloroethene			0.0500	0.0516		mg/Kg		103	70 - 125	13	30
trans-1,3-Dichloropropene			0.0500	0.0520		mg/Kg		104	70 - 125	5	30
Trichloroethene			0.0500	0.0522		mg/Kg		104	70 - 125	5	30
Vinyl chloride			0.0500	0.0570		mg/Kg		114	70 - 125	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*
Dibromofluoromethane	*104*		*75 - 126*
Toluene-d8 (Surr)	*97*		*75 - 124*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-787085/1-A
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/20/24 12:16	09/23/24 11:18	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-787085/1-A
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/20/24 12:16	09/23/24 11:18	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256508-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-787085/1-A
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/20/24 12:16	09/23/24 11:18	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/20/24 12:16	09/23/24 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*69*		*31 - 166*	*09/20/24 12:16*	*09/23/24 11:18*	*1*
Phenol-d5 (Surr)	*66*		*30 - 153*	*09/20/24 12:16*	*09/23/24 11:18*	*1*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/20/24 12:16*	*09/23/24 11:18*	*1*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/20/24 12:16*	*09/23/24 11:18*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*31 - 143*	*09/20/24 12:16*	*09/23/24 11:18*	*1*
Terphenyl-d14 (Surr)	*77*		*42 - 157*	*09/20/24 12:16*	*09/23/24 11:18*	*1*

Lab Sample ID: LCS 500-787085/2-A
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.66		mg/Kg		80	63 - 109
Acenaphthylene	3.33	2.73		mg/Kg		82	61 - 115
Anthracene	3.33	2.78		mg/Kg		83	68 - 120
Benzo[a]anthracene	3.33	2.70		mg/Kg		81	70 - 121
Benzo[a]pyrene	3.33	2.97		mg/Kg		89	73 - 132
Benzo[b]fluoranthene	3.33	3.06		mg/Kg		92	68 - 123
Benzo[g,h,i]perylene	3.33	3.03		mg/Kg		91	65 - 126
Benzo[k]fluoranthene	3.33	2.89		mg/Kg		87	64 - 128
Chrysene	3.33	2.77		mg/Kg		83	70 - 123
Dibenz(a,h)anthracene	3.33	2.95		mg/Kg		89	66 - 125
Fluoranthene	3.33	2.88		mg/Kg		86	66 - 123
Fluorene	3.33	2.70		mg/Kg		81	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	2.95		mg/Kg		89	66 - 131
Naphthalene	3.33	2.51		mg/Kg		75	54 - 98
Phenanthrene	3.33	2.73		mg/Kg		82	65 - 115
Pyrene	3.33	2.88		mg/Kg		86	71 - 128
1,2,4-Trichlorobenzene	3.33	2.55		mg/Kg		76	49 - 100
1,2-Dichlorobenzene	3.33	2.30		mg/Kg		69	47 - 94
1,3-Dichlorobenzene	3.33	2.29		mg/Kg		69	47 - 92
1,4-Dichlorobenzene	3.33	2.25		mg/Kg		67	46 - 92
2,4,5-Trichlorophenol	3.33	2.91		mg/Kg		87	48 - 121
2,4,6-Trichlorophenol	3.33	2.87		mg/Kg		86	50 - 121
2,4-Dichlorophenol	3.33	2.68		mg/Kg		80	51 - 109
2,4-Dimethylphenol	3.33	2.87		mg/Kg		86	48 - 93
2,4-Dinitrophenol	6.67	3.97		mg/Kg		60	10 - 130
2,4-Dinitrotoluene	3.33	2.98		mg/Kg		89	65 - 120

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256508-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-787085/2-A
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	3.33	3.01		mg/Kg		90	66 - 117
2-Chloronaphthalene	3.33	2.63		mg/Kg		79	60 - 107
2-Chlorophenol	3.33	2.50		mg/Kg		75	50 - 102
2-Methylnaphthalene	3.33	2.34		mg/Kg		70	58 - 103
2-Methylphenol	3.33	2.44		mg/Kg		73	50 - 104
2-Nitroaniline	3.33	2.58		mg/Kg		78	61 - 126
2-Nitrophenol	3.33	2.75		mg/Kg		82	41 - 114
3,3'-Dichlorobenzidine	3.33	2.62		mg/Kg		79	36 - 131
3 & 4 Methylphenol	3.33	2.37		mg/Kg		71	49 - 109
3-Nitroaniline	3.33	2.55		mg/Kg		76	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.78		mg/Kg		72	36 - 138
4-Bromophenyl phenyl ether	3.33	2.90		mg/Kg		87	57 - 124
4-Chloro-3-methylphenol	3.33	2.58		mg/Kg		77	57 - 113
4-Chloroaniline	3.33	2.49		mg/Kg		75	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.75		mg/Kg		82	60 - 112
4-Nitroaniline	3.33	2.72		mg/Kg		82	60 - 115
4-Nitrophenol	6.67	4.63		mg/Kg		69	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.45		mg/Kg		74	54 - 102
Bis(2-chloroethyl)ether	3.33	2.40		mg/Kg		72	49 - 99
bis(chloroisopropyl) ether	3.33	2.10		mg/Kg		63	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	2.80		mg/Kg		84	70 - 139
Butyl benzyl phthalate	3.33	2.76		mg/Kg		83	65 - 140
Carbazole	3.33	2.65		mg/Kg		79	68 - 120
Dibenzofuran	3.33	2.59		mg/Kg		78	64 - 112
Diethyl phthalate	3.33	2.64		mg/Kg		79	66 - 115
Dimethyl phthalate	3.33	2.68		mg/Kg		80	65 - 114
Di-n-butyl phthalate	3.33	2.71		mg/Kg		81	69 - 125
Di-n-octyl phthalate	3.33	2.66		mg/Kg		80	61 - 131
Hexachlorobenzene	3.33	2.98		mg/Kg		89	52 - 126
Hexachlorobutadiene	3.33	2.61		mg/Kg		78	42 - 103
Hexachlorocyclopentadiene	3.33	2.88		mg/Kg		86	10 - 100
Hexachloroethane	3.33	2.25		mg/Kg		68	45 - 95
Isophorone	3.33	2.39		mg/Kg		72	47 - 108
Nitrobenzene	3.33	2.54		mg/Kg		76	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.24		mg/Kg		67	48 - 110
N-Nitrosodiphenylamine	3.33	2.71		mg/Kg		81	67 - 112
Pentachlorophenol	6.67	5.13		mg/Kg		77	32 - 128
Phenol	3.33	2.47		mg/Kg		74	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*72*		*31 - 166*
Phenol-d5 (Surr)	*70*		*30 - 153*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*
2-Fluorobiphenyl (Surr)	*75*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*88*		*31 - 143*
Terphenyl-d14 (Surr)	*79*		*42 - 157*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256508-2 MS
Client Sample ID: SB72 (7.5-10)
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 787207
Prep Batch: 787085

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	<0.0077		3.90	3.00		mg/Kg	☼	77	65 - 124
Acenaphthylene	<0.0064		3.90	3.08		mg/Kg	☼	79	68 - 120
Anthracene	<0.0077		3.90	3.32		mg/Kg	☼	85	70 - 114
Benzo[a]anthracene	<0.0080		3.90	3.33		mg/Kg	☼	86	67 - 122
Benzo[a]pyrene	<0.037		3.90	3.52		mg/Kg	☼	90	65 - 133
Benzo[b]fluoranthene	<0.036		3.90	3.56		mg/Kg	☼	91	69 - 129
Benzo[g,h,i]perylene	<0.0082	F1	3.90	2.93		mg/Kg	☼	75	72 - 131
Benzo[k]fluoranthene	<0.014		3.90	3.49		mg/Kg	☼	90	68 - 127
Chrysene	<0.010		3.90	3.36		mg/Kg	☼	86	63 - 120
Dibenz(a,h)anthracene	<0.038		3.90	3.13		mg/Kg	☼	80	64 - 131
Fluoranthene	<0.0088		3.90	3.29		mg/Kg	☼	84	62 - 120
Fluorene	<0.011		3.90	3.06		mg/Kg	☼	78	62 - 120
Indeno[1,2,3-cd]pyrene	<0.037		3.90	2.98		mg/Kg	☼	77	68 - 130
Naphthalene	<0.0068	F1	3.90	2.68		mg/Kg	☼	69	63 - 110
Phenanthrene	<0.0082		3.90	3.30		mg/Kg	☼	85	62 - 120
Pyrene	<0.010		3.90	3.44		mg/Kg	☼	88	61 - 128
1,2,4-Trichlorobenzene	<0.027	F1	3.90	2.64		mg/Kg	☼	68	66 - 117
1,2-Dichlorobenzene	<0.015	F1	3.90	2.47		mg/Kg	☼	63	62 - 110
1,3-Dichlorobenzene	<0.017	F1	3.90	2.35		mg/Kg	☼	60	60 - 110
1,4-Dichlorobenzene	<0.018	F1	3.90	2.41		mg/Kg	☼	62	61 - 110
2,4,5-Trichlorophenol	<0.014		3.90	3.39		mg/Kg	☼	87	50 - 120
2,4,6-Trichlorophenol	<0.013		3.90	3.28		mg/Kg	☼	84	57 - 120
2,4-Dichlorophenol	<0.013		3.90	3.02		mg/Kg	☼	77	58 - 120
2,4-Dimethylphenol	<0.085		3.90	3.23		mg/Kg	☼	83	60 - 110
2,4-Dinitrophenol	<0.22		7.79	1.29		mg/Kg	☼	17	10 - 100
2,4-Dinitrotoluene	<0.022		3.90	3.26		mg/Kg	☼	84	69 - 124
2,6-Dinitrotoluene	<0.013		3.90	3.30		mg/Kg	☼	85	70 - 123
2-Chloronaphthalene	<0.014		3.90	2.87		mg/Kg	☼	74	69 - 114
2-Chlorophenol	<0.012	F1	3.90	3.02		mg/Kg	☼	78	64 - 110
2-Methylnaphthalene	<0.0076	F1	3.90	2.58	F1	mg/Kg	☼	66	69 - 112
2-Methylphenol	<0.020		3.90	3.08		mg/Kg	☼	79	60 - 120
2-Nitroaniline	<0.020		3.90	2.93		mg/Kg	☼	75	57 - 124
2-Nitrophenol	<0.026		3.90	2.82		mg/Kg	☼	72	60 - 120
3,3'-Dichlorobenzidine	<0.031		3.90	3.13		mg/Kg	☼	80	35 - 128
3 & 4 Methylphenol	<0.028		3.90	2.94		mg/Kg	☼	75	57 - 120
3-Nitroaniline	<0.017		3.90	3.13		mg/Kg	☼	80	40 - 122
4,6-Dinitro-2-methylphenol	<0.21	F2	7.79	2.18		mg/Kg	☼	28	10 - 110
4-Bromophenyl phenyl ether	<0.026		3.90	3.48		mg/Kg	☼	89	68 - 118
4-Chloro-3-methylphenol	<0.015		3.90	3.12		mg/Kg	☼	80	65 - 122
4-Chloroaniline	<0.40		3.90	2.74		mg/Kg	☼	70	30 - 150
4-Chlorophenyl phenyl ether	<0.050		3.90	3.18		mg/Kg	☼	82	62 - 119
4-Nitroaniline	<0.028		3.90	3.08		mg/Kg	☼	79	60 - 160
4-Nitrophenol	<0.14		7.79	5.60		mg/Kg	☼	72	30 - 122
Bis(2-chloroethoxy)methane	<0.014		3.90	2.70		mg/Kg	☼	69	60 - 112
Bis(2-chloroethyl)ether	<0.017		3.90	2.76		mg/Kg	☼	71	55 - 111
bis(chloroisopropyl) ether	<0.027		3.90	2.35		mg/Kg	☼	60	40 - 124
Bis(2-ethylhexyl) phthalate	<0.15		3.90	3.50		mg/Kg	☼	90	72 - 131
Butyl benzyl phthalate	<0.019		3.90	3.48		mg/Kg	☼	89	71 - 129

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256508-2 MS
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: SB72 (7.5-10)
Prep Type: Total/NA
Prep Batch: 787085

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbazole	<0.015		3.90	3.14		mg/Kg	☼	81	65 - 142
Dibenzofuran	<0.013		3.90	2.94		mg/Kg	☼	75	66 - 115
Diethyl phthalate	<0.017		3.90	3.13		mg/Kg	☼	80	58 - 120
Dimethyl phthalate	<0.0082		3.90	3.13		mg/Kg	☼	80	69 - 116
Di-n-butyl phthalate	<0.012		3.90	3.44		mg/Kg	☼	88	65 - 120
Di-n-octyl phthalate	<0.26		3.90	3.17		mg/Kg	☼	81	68 - 134
Hexachlorobenzene	<0.0073		3.90	3.51		mg/Kg	☼	90	63 - 124
Hexachlorobutadiene	<0.021		3.90	2.61		mg/Kg	☼	67	56 - 120
Hexachlorocyclopentadiene	<0.40		3.90	0.696	J	mg/Kg	☼	18	10 - 133
Hexachloroethane	<0.019	F1	3.90	2.15	F1	mg/Kg	☼	55	60 - 114
Isophorone	<0.020		3.90	2.69		mg/Kg	☼	69	55 - 110
Nitrobenzene	<0.012	F1	3.90	2.73		mg/Kg	☼	70	60 - 116
N-Nitrosodi-n-propylamine	<0.0075		3.90	2.65		mg/Kg	☼	68	56 - 118
N-Nitrosodiphenylamine	<0.022		3.90	3.24		mg/Kg	☼	83	65 - 112
Pentachlorophenol	<0.095		7.79	5.79		mg/Kg	☼	74	13 - 112
Phenol	<0.016		3.90	2.98		mg/Kg	☼	76	56 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*75*		*31 - 166*
Phenol-d5 (Surr)	*73*		*30 - 153*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*87*		*31 - 143*
Terphenyl-d14 (Surr)	*84*		*42 - 157*

Lab Sample ID: 500-256508-2 MSD
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: SB72 (7.5-10)
Prep Type: Total/NA
Prep Batch: 787085

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	<0.0077		3.92	2.79		mg/Kg	☼	71	65 - 124	7	30
Acenaphthylene	<0.0064		3.92	2.85		mg/Kg	☼	73	68 - 120	8	30
Anthracene	<0.0077		3.92	2.97		mg/Kg	☼	76	70 - 114	11	30
Benzo[a]anthracene	<0.0080		3.92	3.02		mg/Kg	☼	77	67 - 122	10	30
Benzo[a]pyrene	<0.037		3.92	3.31		mg/Kg	☼	84	65 - 133	6	30
Benzo[b]fluoranthene	<0.036		3.92	3.32		mg/Kg	☼	85	69 - 129	7	30
Benzo[g,h,i]perylene	<0.0082	F1	3.92	2.74	F1	mg/Kg	☼	70	72 - 131	7	30
Benzo[k]fluoranthene	<0.014		3.92	3.24		mg/Kg	☼	83	68 - 127	7	30
Chrysene	<0.010		3.92	3.08		mg/Kg	☼	78	63 - 120	9	30
Dibenz(a,h)anthracene	<0.038		3.92	2.91		mg/Kg	☼	74	64 - 131	7	30
Fluoranthene	<0.0088		3.92	3.05		mg/Kg	☼	78	62 - 120	8	30
Fluorene	<0.011		3.92	2.85		mg/Kg	☼	73	62 - 120	7	30
Indeno[1,2,3-cd]pyrene	<0.037		3.92	2.81		mg/Kg	☼	72	68 - 130	6	30
Naphthalene	<0.0068	F1	3.92	2.43	F1	mg/Kg	☼	62	63 - 110	10	30
Phenanthrene	<0.0082		3.92	2.96		mg/Kg	☼	75	62 - 120	11	30
Pyrene	<0.010		3.92	3.00		mg/Kg	☼	77	61 - 128	14	30
1,2,4-Trichlorobenzene	<0.027	F1	3.92	2.41	F1	mg/Kg	☼	61	66 - 117	9	30
1,2-Dichlorobenzene	<0.015	F1	3.92	2.12	F1	mg/Kg	☼	54	62 - 110	16	30

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256508-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256508-2 MSD
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: SB72 (7.5-10)
Prep Type: Total/NA
Prep Batch: 787085

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3-Dichlorobenzene	<0.017	F1	3.92	2.06	F1	mg/Kg	☼	53	60 - 110	13	30
1,4-Dichlorobenzene	<0.018	F1	3.92	2.09	F1	mg/Kg	☼	53	61 - 110	15	30
2,4,5-Trichlorophenol	<0.014		3.92	3.18		mg/Kg	☼	81	50 - 120	6	30
2,4,6-Trichlorophenol	<0.013		3.92	3.05		mg/Kg	☼	78	57 - 120	7	30
2,4-Dichlorophenol	<0.013		3.92	2.70		mg/Kg	☼	69	58 - 120	11	30
2,4-Dimethylphenol	<0.085		3.92	2.93		mg/Kg	☼	75	60 - 110	10	30
2,4-Dinitrophenol	<0.22		7.85	0.957		mg/Kg	☼	12	10 - 100	30	30
2,4-Dinitrotoluene	<0.022		3.92	2.97		mg/Kg	☼	76	69 - 124	10	30
2,6-Dinitrotoluene	<0.013		3.92	3.03		mg/Kg	☼	77	70 - 123	9	30
2-Chloronaphthalene	<0.014		3.92	2.73		mg/Kg	☼	69	69 - 114	5	30
2-Chlorophenol	<0.012	F1	3.92	2.48	F1	mg/Kg	☼	63	64 - 110	20	30
2-Methylnaphthalene	<0.0076	F1	3.92	2.33	F1	mg/Kg	☼	59	69 - 112	10	30
2-Methylphenol	<0.020		3.92	2.57		mg/Kg	☼	65	60 - 120	18	30
2-Nitroaniline	<0.020		3.92	2.70		mg/Kg	☼	69	57 - 124	8	30
2-Nitrophenol	<0.026		3.92	2.42		mg/Kg	☼	62	60 - 120	15	30
3,3'-Dichlorobenzidine	<0.031		3.92	2.94		mg/Kg	☼	75	35 - 128	6	30
3 & 4 Methylphenol	<0.028		3.92	2.48		mg/Kg	☼	63	57 - 120	17	30
3-Nitroaniline	<0.017		3.92	2.88		mg/Kg	☼	73	40 - 122	8	30
4,6-Dinitro-2-methylphenol	<0.21	F2	7.85	1.59	F2	mg/Kg	☼	20	10 - 110	31	30
4-Bromophenyl phenyl ether	<0.026		3.92	3.17		mg/Kg	☼	81	68 - 118	9	30
4-Chloro-3-methylphenol	<0.015		3.92	2.79		mg/Kg	☼	71	65 - 122	11	30
4-Chloroaniline	<0.40		3.92	2.41		mg/Kg	☼	61	30 - 150	13	30
4-Chlorophenyl phenyl ether	<0.050		3.92	2.97		mg/Kg	☼	76	62 - 119	7	30
4-Nitroaniline	<0.028		3.92	2.82		mg/Kg	☼	72	60 - 160	9	30
4-Nitrophenol	<0.14		7.85	5.27		mg/Kg	☼	67	30 - 122	6	30
Bis(2-chloroethoxy)methane	<0.014		3.92	2.40		mg/Kg	☼	61	60 - 112	12	30
Bis(2-chloroethyl)ether	<0.017		3.92	2.22		mg/Kg	☼	57	55 - 111	21	30
bis(chloroisopropyl) ether	<0.027		3.92	2.01		mg/Kg	☼	51	40 - 124	15	30
Bis(2-ethylhexyl) phthalate	<0.15		3.92	3.09		mg/Kg	☼	79	72 - 131	12	30
Butyl benzyl phthalate	<0.019		3.92	3.09		mg/Kg	☼	79	71 - 129	12	30
Carbazole	<0.015		3.92	2.85		mg/Kg	☼	73	65 - 142	10	30
Dibenzofuran	<0.013		3.92	2.73		mg/Kg	☼	70	66 - 115	7	30
Diethyl phthalate	<0.017		3.92	2.87		mg/Kg	☼	73	58 - 120	9	30
Dimethyl phthalate	<0.0082		3.92	2.92		mg/Kg	☼	74	69 - 116	7	30
Di-n-butyl phthalate	<0.012		3.92	3.12		mg/Kg	☼	80	65 - 120	10	30
Di-n-octyl phthalate	<0.26		3.92	3.03		mg/Kg	☼	77	68 - 134	5	30
Hexachlorobenzene	<0.0073		3.92	3.23		mg/Kg	☼	82	63 - 124	8	30
Hexachlorobutadiene	<0.021		3.92	2.46		mg/Kg	☼	63	56 - 120	6	30
Hexachlorocyclopentadiene	<0.40		3.92	0.545	J	mg/Kg	☼	14	10 - 133	24	30
Hexachloroethane	<0.019	F1	3.92	1.72	F1	mg/Kg	☼	44	60 - 114	22	30
Isophorone	<0.020		3.92	2.40		mg/Kg	☼	61	55 - 110	11	30
Nitrobenzene	<0.012	F1	3.92	2.31	F1	mg/Kg	☼	59	60 - 116	16	30
N-Nitrosodi-n-propylamine	<0.0075		3.92	2.23		mg/Kg	☼	57	56 - 118	17	30
N-Nitrosodiphenylamine	<0.022		3.92	2.96		mg/Kg	☼	76	65 - 112	9	30
Pentachlorophenol	<0.095		7.85	5.52		mg/Kg	☼	70	13 - 112	5	30
Phenol	<0.016		3.92	2.50		mg/Kg	☼	64	56 - 122	17	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-256508-2 MSD
Matrix: Solid
Analysis Batch: 787207

Client Sample ID: SB72 (7.5-10)
Prep Type: Total/NA
Prep Batch: 787085

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol (Surr)	*60*		*31 - 166*
Phenol-d5 (Surr)	*61*		*30 - 153*
Nitrobenzene-d5 (Surr)	*54*		*37 - 147*
2-Fluorobiphenyl (Surr)	*66*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*78*		*31 - 143*
Terphenyl-d14 (Surr)	*72*		*42 - 157*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-787109/1-A
Matrix: Solid
Analysis Batch: 787729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/20/24 15:00	09/25/24 17:32	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/20/24 15:00	09/25/24 17:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*102*		*33 - 148*	*09/20/24 15:00*	*09/25/24 17:32*	*1*
Tetrachloro-m-xylene	*63*		*30 - 121*	*09/20/24 15:00*	*09/25/24 17:32*	*1*

Lab Sample ID: LCS 500-787109/2-A
Matrix: Solid
Analysis Batch: 787729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0111		mg/Kg		83	47 - 137
4,4'-DDE	0.0133	0.0112		mg/Kg		84	50 - 130

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-787109/2-A
Matrix: Solid
Analysis Batch: 787729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDT	0.0133	0.0102		mg/Kg		76	46 - 143
Aldrin	0.0133	0.00990		mg/Kg		74	52 - 122
alpha-BHC	0.0133	0.0104		mg/Kg		78	50 - 123
beta-BHC	0.0133	0.0113		mg/Kg		85	44 - 140
delta-BHC	0.0133	0.0111		mg/Kg		84	57 - 125
Dieldrin	0.0133	0.0110		mg/Kg		83	51 - 133
Endosulfan I	0.0133	0.00884		mg/Kg		66	30 - 120
Endosulfan II	0.0133	0.00973		mg/Kg		73	30 - 120
Endosulfan sulfate	0.0133	0.0125		mg/Kg		94	42 - 150
Endrin	0.0133	0.0111		mg/Kg		84	43 - 144
Endrin aldehyde	0.0133	0.0101		mg/Kg		76	39 - 131
Endrin ketone	0.0133	0.0109		mg/Kg		81	51 - 135
gamma-BHC (Lindane)	0.0133	0.0102		mg/Kg		76	50 - 122
Heptachlor	0.0133	0.0100		mg/Kg		75	53 - 129
Heptachlor epoxide	0.0133	0.0105		mg/Kg		79	50 - 139
Methoxychlor	0.0133	0.0102		mg/Kg		76	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*91*		*33 - 148*
Tetrachloro-m-xylene	*73*		*30 - 121*

Lab Sample ID: 500-256508-18 MS
Matrix: Solid
Analysis Batch: 788691

Client Sample ID: SB80 (3-5)
Prep Type: Total/NA
Prep Batch: 787109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDE	<0.0090		0.0145	0.0138	J	mg/Kg	☼	95	50 - 130
4,4'-DDT	<0.0083	F1	0.0145	0.0492	F1	mg/Kg	☼	340	46 - 143
Aldrin	<0.012	F1 F2	0.0145	0.0796	F1	mg/Kg	☼	549	52 - 122
beta-BHC	<0.014		0.0145	<0.015		mg/Kg	☼	NC	44 - 140
delta-BHC	<0.0084	F1	0.0145	0.0479	F1	mg/Kg	☼	330	57 - 125
Dieldrin	<0.0092		0.0145	0.0157	J	mg/Kg	☼	109	51 - 133
Endosulfan I	<0.0095	F1	0.0145	0.0375	F1	mg/Kg	☼	259	30 - 120
Endosulfan II	<0.0096		0.0145	0.0149	J	mg/Kg	☼	103	30 - 120
gamma-BHC (Lindane)	<0.0087	F1 F2	0.0145	<0.0091	F1	mg/Kg	☼	0	50 - 122
Heptachlor	<0.0095	F1	0.0145	0.0614	F1	mg/Kg	☼	424	53 - 129
Heptachlor epoxide	<0.0094	F1	0.0145	<0.0099	F1	mg/Kg	☼	0	50 - 139
Methoxychlor	<0.012	F1 F2	0.0145	0.0519	J F1	mg/Kg	☼	358	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*197*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*62*		*30 - 121*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-256508-18 MSD
Matrix: Solid
Analysis Batch: 788691

Client Sample ID: SB80 (3-5)
Prep Type: Total/NA
Prep Batch: 787109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDE	<0.0090		0.0145	0.0181		mg/Kg	☼	125	50 - 130	27	30
4,4'-DDT	<0.0083	F1	0.0145	0.0403	F1	mg/Kg	☼	278	46 - 143	20	30
Aldrin	<0.012	F1 F2	0.0145	0.144	F1 F2	mg/Kg	☼	995	52 - 122	58	30
alpha-BHC	<0.0099	F2	0.0145	0.0117	J	mg/Kg	☼	81	50 - 123	NC	30
beta-BHC	<0.014		0.0145	<0.015		mg/Kg	☼	NC	44 - 140	NC	30
delta-BHC	<0.0084	F1	0.0145	0.0397	F1	mg/Kg	☼	274	57 - 125	19	30
Endosulfan I	<0.0095	F1	0.0145	0.0402	F1	mg/Kg	☼	277	30 - 120	7	30
gamma-BHC (Lindane)	<0.0087	F1 F2	0.0145	0.00988	J	mg/Kg	☼	68	50 - 122	NC	30
Heptachlor	<0.0095	F1	0.0145	0.0594	F1	mg/Kg	☼	410	53 - 129	3	30
Heptachlor epoxide	<0.0094	F1	0.0145	<0.0099	F1	mg/Kg	☼	0	50 - 139	NC	30
Methoxychlor	<0.012	F1 F2	0.0145	0.0328	J F1 F2	mg/Kg	☼	226	45 - 144	45	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*147*		*33 - 148*
Tetrachloro-m-xylene	*62*		*30 - 121*

Lab Sample ID: MB 500-787217/1-A
Matrix: Solid
Analysis Batch: 788442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/23/24 07:18	10/01/24 07:55	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/23/24 07:18	10/01/24 07:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*33 - 148*	*09/23/24 07:18*	*10/01/24 07:55*	*1*
Tetrachloro-m-xylene	*59*		*30 - 121*	*09/23/24 07:18*	*10/01/24 07:55*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-787217/2-A
Matrix: Solid
Analysis Batch: 788442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0104		mg/Kg		78	47 - 137
4,4'-DDE	0.0133	0.0105		mg/Kg		78	50 - 130
4,4'-DDT	0.0133	0.0108		mg/Kg		81	46 - 143
Aldrin	0.0133	0.00950		mg/Kg		71	52 - 122
alpha-BHC	0.0133	0.00979		mg/Kg		73	50 - 123
beta-BHC	0.0133	0.00907		mg/Kg		68	44 - 140
delta-BHC	0.0133	0.00986		mg/Kg		74	57 - 125
Dieldrin	0.0133	0.0109		mg/Kg		82	51 - 133
Endosulfan I	0.0133	0.00892		mg/Kg		67	30 - 120
Endosulfan II	0.0133	0.00898		mg/Kg		67	30 - 120
Endosulfan sulfate	0.0133	0.0101		mg/Kg		76	42 - 150
Endrin	0.0133	0.00995		mg/Kg		75	43 - 144
Endrin aldehyde	0.0133	0.00927		mg/Kg		70	39 - 131
Endrin ketone	0.0133	0.00987		mg/Kg		74	51 - 135
gamma-BHC (Lindane)	0.0133	0.0104		mg/Kg		78	50 - 122
Heptachlor	0.0133	0.00942		mg/Kg		71	53 - 129
Heptachlor epoxide	0.0133	0.0105		mg/Kg		79	50 - 139
Methoxychlor	0.0133	0.00948		mg/Kg		71	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*82*		*33 - 148*
Tetrachloro-m-xylene	*53*		*30 - 121*

Lab Sample ID: 500-256508-1 MS
Matrix: Solid
Analysis Batch: 788442

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.011	F1	0.0155	<0.011	F1	mg/Kg	☼	0	47 - 137
4,4'-DDT	<0.0096	F2	0.0155	0.0183	J	mg/Kg	☼	118	46 - 143
Aldrin	<0.014	F1	0.0155	<0.014	F1	mg/Kg	☼	0	52 - 122
alpha-BHC	<0.011	F1	0.0155	<0.011	F1	mg/Kg	☼	0	50 - 123
beta-BHC	<0.016		0.0155	<0.016		mg/Kg	☼	NC	44 - 140
delta-BHC	<0.0097	F2 F1	0.0155	0.0114	J	mg/Kg	☼	73	57 - 125
Dieldrin	<0.011	F1	0.0155	0.0105	J	mg/Kg	☼	67	51 - 133
Endosulfan I	<0.011	F1	0.0155	0.0121	J	mg/Kg	☼	78	30 - 120
Endosulfan II	<0.011	F1	0.0155	0.0121	J	mg/Kg	☼	78	30 - 120
Endosulfan sulfate	<0.011	F1	0.0155	<0.011	F1	mg/Kg	☼	0	42 - 150
Endrin	<0.010	F1	0.0155	<0.010	F1	mg/Kg	☼	0	43 - 144
gamma-BHC (Lindane)	<0.010	F1	0.0155	<0.0098	F1	mg/Kg	☼	0	50 - 122
Heptachlor	<0.011	F1 F2	0.0155	0.0224	F1	mg/Kg	☼	144	53 - 129
Heptachlor epoxide	<0.011	F1	0.0155	0.0112	J	mg/Kg	☼	72	50 - 139
Methoxychlor	<0.013	F1	0.0155	<0.013	F1	mg/Kg	☼	0	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*213*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*69*		*30 - 121*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-256508-1 MSD
Matrix: Solid
Analysis Batch: 788442

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.011	F1	0.0155	<0.011	F1	mg/Kg	☼	0	47 - 137	NC	30
4,4'-DDE	<0.010	F1	0.0155	<0.010	F1	mg/Kg	☼	0	50 - 130	NC	30
4,4'-DDT	<0.0096	F2	0.0155	0.0131	J F2	mg/Kg	☼	85	46 - 143	33	30
Aldrin	<0.014	F1	0.0155	<0.014	F1	mg/Kg	☼	0	52 - 122	NC	30
alpha-BHC	<0.011	F1	0.0155	0.0116	J	mg/Kg	☼	74	50 - 123	0	30
delta-BHC	<0.0097	F2 F1	0.0155	0.0519	F1 F2	mg/Kg	☼	334	57 - 125	128	30
Dieldrin	<0.011	F1	0.0155	<0.010	F1	mg/Kg	☼	0	51 - 133	NC	30
Endosulfan I	<0.011	F1	0.0155	<0.011	F1	mg/Kg	☼	0	30 - 120	NC	30
Endosulfan II	<0.011	F1	0.0155	<0.011	F1	mg/Kg	☼	0	30 - 120	NC	30
Endosulfan sulfate	<0.011	F1	0.0155	<0.011	F1	mg/Kg	☼	0	42 - 150	NC	30
Endrin	<0.010	F1	0.0155	<0.010	F1	mg/Kg	☼	0	43 - 144	NC	30
Endrin aldehyde	<0.012	F1	0.0155	0.0359	F1	mg/Kg	☼	231	39 - 131	NC	30
Heptachlor	<0.011	F1 F2	0.0155	0.0613	F1 F2	mg/Kg	☼	395	53 - 129	93	30
Heptachlor epoxide	<0.011	F1	0.0155	<0.011	F1	mg/Kg	☼	0	50 - 139	NC	30
Methoxychlor	<0.013	F1	0.0155	<0.013	F1	mg/Kg	☼	0	45 - 144	NC	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*74*		*33 - 148*
Tetrachloro-m-xylene	*45*		*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-787109/1-A
Matrix: Solid
Analysis Batch: 787803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/20/24 15:00	09/26/24 11:54	1
PCB-1221	<0.017		0.017		mg/Kg		09/20/24 15:00	09/26/24 11:54	1
PCB-1232	<0.017		0.017		mg/Kg		09/20/24 15:00	09/26/24 11:54	1
PCB-1242	<0.017		0.017		mg/Kg		09/20/24 15:00	09/26/24 11:54	1
PCB-1248	<0.017		0.017		mg/Kg		09/20/24 15:00	09/26/24 11:54	1
PCB-1254	<0.017		0.017		mg/Kg		09/20/24 15:00	09/26/24 11:54	1
PCB-1260	<0.017		0.017		mg/Kg		09/20/24 15:00	09/26/24 11:54	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/20/24 15:00	09/26/24 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*49 - 129*	*09/20/24 15:00*	*09/26/24 11:54*	*1*
DCB Decachlorobiphenyl	*19*	*S1-*	*37 - 121*	*09/20/24 15:00*	*09/26/24 11:54*	*1*

Lab Sample ID: LCS 500-787109/3-A
Matrix: Solid
Analysis Batch: 787624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.199		mg/Kg		120	57 - 120
PCB-1260	0.167	0.206		mg/Kg		123	61 - 125

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-787109/3-A
Matrix: Solid
Analysis Batch: 787624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787109

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*103*		*49 - 129*
DCB Decachlorobiphenyl	*28*	*S1-*	*37 - 121*

Lab Sample ID: MB 500-787217/1-A
Matrix: Solid
Analysis Batch: 788018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/23/24 07:18	09/27/24 10:10	1
PCB-1221	<0.017		0.017		mg/Kg		09/23/24 07:18	09/27/24 10:10	1
PCB-1232	<0.017		0.017		mg/Kg		09/23/24 07:18	09/27/24 10:10	1
PCB-1242	<0.017		0.017		mg/Kg		09/23/24 07:18	09/27/24 10:10	1
PCB-1248	<0.017		0.017		mg/Kg		09/23/24 07:18	09/27/24 10:10	1
PCB-1254	<0.017		0.017		mg/Kg		09/23/24 07:18	09/27/24 10:10	1
PCB-1260	<0.017		0.017		mg/Kg		09/23/24 07:18	09/27/24 10:10	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/23/24 07:18	09/27/24 10:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*49 - 129*	*09/23/24 07:18*	*09/27/24 10:10*	*1*
DCB Decachlorobiphenyl	*55*		*37 - 121*	*09/23/24 07:18*	*09/27/24 10:10*	*1*

Lab Sample ID: LCS 500-787217/3-A
Matrix: Solid
Analysis Batch: 788018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.113		mg/Kg		68	57 - 120
PCB-1260	0.167	0.121		mg/Kg		73	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*57*		*49 - 129*
DCB Decachlorobiphenyl	*56*		*37 - 121*

Lab Sample ID: 500-256508-1 MS
Matrix: Solid
Analysis Batch: 788020

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.20		0.203	<0.20		mg/Kg	☼	83	57 - 120
PCB-1260	<0.20	F2 F1	0.203	<0.20		mg/Kg	☼	83	61 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*49 - 129*
DCB Decachlorobiphenyl	*76*		*37 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-256508-1 MSD
Matrix: Solid
Analysis Batch: 788020

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.20		0.197	0.202		mg/Kg	☼	102	57 - 120	18	30
PCB-1260	<0.20		0.197	0.208		mg/Kg	☼	105	61 - 125	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*49 - 129*
DCB Decachlorobiphenyl	*102*		*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-787128/1-A
Matrix: Solid
Analysis Batch: 787833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Arsenic	<1.0		1.0		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Barium	<1.0		1.0		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Cadmium	<0.20		0.20		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Calcium	<20		20		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Chromium	<1.0		1.0		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Cobalt	<0.50		0.50		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Copper	<1.0		1.0		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Iron	<20		20		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Lead	<0.50		0.50		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Magnesium	<10		10		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Manganese	<1.0		1.0		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Nickel	<1.0		1.0		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Potassium	<50		50		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Selenium	<1.0		1.0		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Silver	<0.50		0.50		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Sodium	<100		100		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Thallium	<1.0		1.0		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Vanadium	<0.50		0.50		mg/Kg		09/20/24 16:37	09/25/24 17:42	1
Zinc	<2.0		2.0		mg/Kg		09/20/24 16:37	09/25/24 17:42	1

Lab Sample ID: MB 500-787128/1-A
Matrix: Solid
Analysis Batch: 788042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.40		0.40		mg/Kg		09/20/24 16:37	09/26/24 23:43	1

Lab Sample ID: MB 500-787128/1-A
Matrix: Solid
Analysis Batch: 788205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0		mg/Kg		09/20/24 16:37	09/28/24 01:00	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-787128/2-A
Matrix: Solid
Analysis Batch: 787833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	198		mg/Kg		99	80 - 120
Arsenic	10.0	8.70		mg/Kg		87	80 - 120
Barium	200	197		mg/Kg		98	80 - 120
Cadmium	5.00	4.70		mg/Kg		94	80 - 120
Calcium	1000	992		mg/Kg		99	80 - 120
Chromium	20.0	19.6		mg/Kg		98	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	25.0	25.1		mg/Kg		100	80 - 120
Iron	100	106		mg/Kg		106	80 - 120
Lead	10.0	10.2		mg/Kg		102	80 - 120
Magnesium	1000	950		mg/Kg		95	80 - 120
Manganese	50.0	49.0		mg/Kg		98	80 - 120
Nickel	50.0	50.6		mg/Kg		101	80 - 120
Potassium	1000	985		mg/Kg		99	80 - 120
Selenium	10.0	8.70		mg/Kg		87	80 - 120
Silver	5.00	4.35		mg/Kg		87	80 - 120
Sodium	1000	985		mg/Kg		98	80 - 120
Thallium	10.0	9.62		mg/Kg		96	80 - 120
Vanadium	50.0	50.0		mg/Kg		100	80 - 120
Zinc	50.0	48.7		mg/Kg		97	80 - 120

Lab Sample ID: LCS 500-787128/2-A ^2
Matrix: Solid
Analysis Batch: 788042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	5.00	5.04		mg/Kg		101	80 - 120

Lab Sample ID: LCS 500-787128/2-A ^2
Matrix: Solid
Analysis Batch: 788205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	50.7		mg/Kg		101	80 - 120

Lab Sample ID: 500-256508-1 MS
Matrix: Solid
Analysis Batch: 787833

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	4800	F2	235	11100	4	mg/Kg	☼	2674	75 - 125
Arsenic	7.9	F1	11.8	17.4		mg/Kg	☼	81	75 - 125
Barium	100		235	309		mg/Kg	☼	88	75 - 125
Cadmium	0.34		5.89	5.55		mg/Kg	☼	88	75 - 125
Calcium	7300	F2	1180	8840	4	mg/Kg	☼	132	75 - 125
Chromium	10	F1	23.5	34.3		mg/Kg	☼	102	75 - 125
Cobalt	8.0		58.9	67.1		mg/Kg	☼	100	75 - 125
Copper	29		29.4	57.7		mg/Kg	☼	98	75 - 125
Iron	47000	F2	118	46900	4	mg/Kg	☼	293	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256508-1 MS
Matrix: Solid
Analysis Batch: 787833

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	39	F2 F1	11.8	52.4		mg/Kg	☼	116	75 - 125
Magnesium	710		1180	1980		mg/Kg	☼	108	75 - 125
Manganese	580		58.9	640	4	mg/Kg	☼	95	75 - 125
Nickel	25		58.9	88.0		mg/Kg	☼	108	75 - 125
Potassium	660	F1	1180	2300	F1	mg/Kg	☼	139	75 - 125
Selenium	1.6		11.8	10.6		mg/Kg	☼	77	75 - 125
Silver	<0.59		5.89	4.78		mg/Kg	☼	81	75 - 125
Sodium	310		1180	1650		mg/Kg	☼	114	75 - 125
Thallium	2.1	F1	11.8	9.57	F1	mg/Kg	☼	63	75 - 125
Vanadium	22		58.9	75.4		mg/Kg	☼	91	75 - 125
Zinc	110		58.9	183		mg/Kg	☼	115	75 - 125

Lab Sample ID: 500-256508-1 MS
Matrix: Solid
Analysis Batch: 788042

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	1.3		5.89	6.64		mg/Kg	☼	91	75 - 125

Lab Sample ID: 500-256508-1 MS
Matrix: Solid
Analysis Batch: 788205

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<2.4	F1	58.9	34.6	F1	mg/Kg	☼	56	75 - 125

Lab Sample ID: 500-256508-1 MSD
Matrix: Solid
Analysis Batch: 787833

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	4800	F2	224	8520	4 F2	mg/Kg	☼	1638	75 - 125	27	20
Arsenic	7.9	F1	11.2	16.2	F1	mg/Kg	☼	74	75 - 125	7	20
Barium	100		224	371		mg/Kg	☼	121	75 - 125	18	20
Cadmium	0.34		5.60	5.31		mg/Kg	☼	89	75 - 125	4	20
Calcium	7300	F2	1120	11300	4 F2	mg/Kg	☼	363	75 - 125	25	20
Chromium	10	F1	22.4	40.5	F1	mg/Kg	☼	136	75 - 125	17	20
Cobalt	8.0		56.0	65.4		mg/Kg	☼	103	75 - 125	2	20
Copper	29		28.0	58.0		mg/Kg	☼	104	75 - 125	1	20
Iron	47000	F2	112	36600	4 F2	mg/Kg	☼	-8938	75 - 125	25	20
Lead	39	F2 F1	11.2	156	F1 F2	mg/Kg	☼	1044	75 - 125	99	20
Magnesium	710		1120	2030		mg/Kg	☼	118	75 - 125	2	20
Manganese	580		56.0	693	4	mg/Kg	☼	195	75 - 125	8	20
Nickel	25		56.0	94.2		mg/Kg	☼	124	75 - 125	7	20
Potassium	660	F1	1120	2100	F1	mg/Kg	☼	128	75 - 125	9	20
Selenium	1.6		11.2	11.3		mg/Kg	☼	87	75 - 125	7	20
Silver	<0.59		5.60	4.45		mg/Kg	☼	80	75 - 125	7	20
Sodium	310		1120	1550		mg/Kg	☼	111	75 - 125	6	20
Thallium	2.1	F1	11.2	10.9		mg/Kg	☼	79	75 - 125	13	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256508-1 MSD
Matrix: Solid
Analysis Batch: 787833

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vanadium	22		56.0	74.8		mg/Kg	☼	94	75 - 125	1	20
Zinc	110		56.0	181		mg/Kg	☼	118	75 - 125	1	20

Lab Sample ID: 500-256508-1 MSD
Matrix: Solid
Analysis Batch: 788042

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	1.3		5.60	6.87		mg/Kg	☼	99	75 - 125	3	20

Lab Sample ID: 500-256508-1 MSD
Matrix: Solid
Analysis Batch: 788205

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<2.4	F1	56.0	32.1	F1	mg/Kg	☼	55	75 - 125	7	20

Lab Sample ID: 500-256508-1 DU
Matrix: Solid
Analysis Batch: 787833

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	4800	F2	8340	F3	mg/Kg	☼	53	20
Arsenic	7.9	F1	5.11	F3	mg/Kg	☼	43	20
Barium	100		94.2		mg/Kg	☼	7	20
Cadmium	0.34		0.246	F5	mg/Kg	☼	33	20
Calcium	7300	F2	5200	F3	mg/Kg	☼	33	20
Chromium	10	F1	11.3		mg/Kg	☼	10	20
Cobalt	8.0		5.49	F3	mg/Kg	☼	37	20
Copper	29		20.9	F3	mg/Kg	☼	32	20
Iron	47000	F2	26800	F3	mg/Kg	☼	54	20
Lead	39	F2 F1	27.8	F3	mg/Kg	☼	33	20
Magnesium	710		566	F3	mg/Kg	☼	22	20
Manganese	580		434	F3	mg/Kg	☼	29	20
Nickel	25		21.3		mg/Kg	☼	15	20
Potassium	660	F1	905	F3	mg/Kg	☼	31	20
Selenium	1.6		<1.1		mg/Kg	☼	NC	20
Silver	<0.59		<0.57		mg/Kg	☼	NC	20
Sodium	310		333		mg/Kg	☼	9	20
Thallium	2.1	F1	1.69	F5	mg/Kg	☼	24	20
Vanadium	22		15.2	F3	mg/Kg	☼	36	20
Zinc	110		84.8	F3	mg/Kg	☼	30	20

Lab Sample ID: 500-256508-1 DU
Matrix: Solid
Analysis Batch: 788042

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	1.3		0.850	F5	mg/Kg	☼	42	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256508-1 DU
Matrix: Solid
Analysis Batch: 788205

Client Sample ID: SB72 (0-3)
Prep Type: Total/NA
Prep Batch: 787128

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<2.4	F1	<2.3		mg/Kg	☼	NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-787947/12-A
Matrix: Solid
Analysis Batch: 788096

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/26/24 17:42	09/27/24 09:44	1

Lab Sample ID: LCS 500-787947/13-A
Matrix: Solid
Analysis Batch: 788096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.165		mg/Kg		99	80 - 120

Lab Sample ID: 500-256508-9 MS
Matrix: Solid
Analysis Batch: 788096

Client Sample ID: SB76 (0-3)
Prep Type: Total/NA
Prep Batch: 787947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.041		0.0881	0.134		mg/Kg	☼	106	75 - 125

Lab Sample ID: 500-256508-9 MSD
Matrix: Solid
Analysis Batch: 788096

Client Sample ID: SB76 (0-3)
Prep Type: Total/NA
Prep Batch: 787947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.041		0.0837	0.145		mg/Kg	☼	125	75 - 125	8	20

Lab Sample ID: 500-256508-9 DU
Matrix: Solid
Analysis Batch: 788096

Client Sample ID: SB76 (0-3)
Prep Type: Total/NA
Prep Batch: 787947

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.041		0.0611	F3	mg/Kg	☼	40	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-786400/1-A
Matrix: Solid
Analysis Batch: 787319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 786400

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/17/24 10:28	09/17/24 14:42	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 500-786400/2-A
Matrix: Solid
Analysis Batch: 787319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 786400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.37		mg/Kg		99	85 - 115

Lab Sample ID: 500-256508-17 MS
Matrix: Solid
Analysis Batch: 786891

Client Sample ID: SB80 (0-3)
Prep Type: Total/NA
Prep Batch: 786400

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	17	F2	2.48	13.3	4	mg/Kg	☼	-148	75 - 125

Lab Sample ID: 500-256508-17 MSD
Matrix: Solid
Analysis Batch: 786891

Client Sample ID: SB80 (0-3)
Prep Type: Total/NA
Prep Batch: 786400

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	17	F2	2.56	19.9	4 F2	mg/Kg	☼	112	75 - 125	39	20

Lab Sample ID: 500-256508-18 MS
Matrix: Solid
Analysis Batch: 786891

Client Sample ID: SB80 (3-5)
Prep Type: Total/NA
Prep Batch: 786602

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	13		2.27	14.5	4	mg/Kg	☼	69	75 - 125

Lab Sample ID: 500-256508-18 MSD
Matrix: Solid
Analysis Batch: 786891

Client Sample ID: SB80 (3-5)
Prep Type: Total/NA
Prep Batch: 786602

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	13		2.41	14.8	4	mg/Kg	☼	78	75 - 125	2	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-627056/1-A
Matrix: Solid
Analysis Batch: 627111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 627056

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/16/24 07:29	09/16/24 09:22	1

Lab Sample ID: LCS 240-627056/2-A
Matrix: Solid
Analysis Batch: 627111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627056

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	80.3	87.0		mg/Kg		108	56 - 120

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Method: 9045D - pH

Lab Sample ID: 500-256508-6 DU
Client Sample ID: SB74 (3-5)
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 786493

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.08	^+		7.80	^+	SU				4	5

Client Sample ID: SB72 (0-3)
Lab Sample ID: 500-256508-1

Date Collected: 09/10/24 09:09
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:00
Total/NA	Analysis	Moisture		1	786881	DG	EET CHI	09/19/24 11:47

Client Sample ID: SB72 (0-3)
Lab Sample ID: 500-256508-1

Date Collected: 09/10/24 09:09
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785629		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786325	W1T	EET CHI	09/17/24 00:07
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 13:23
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 08:44
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 13:57
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	788042	RB	EET CHI	09/26/24 23:52
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	788205	SJ	EET CHI	09/28/24 02:51
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 17:59
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 09:48
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		1	787319	AC	EET CHI	09/17/24 15:05

Client Sample ID: SB72 (7.5-10)
Lab Sample ID: 500-256508-2

Date Collected: 09/10/24 09:22
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:03
Total/NA	Analysis	Moisture		1	786881	DG	EET CHI	09/19/24 11:47

Client Sample ID: SB72 (7.5-10)
Lab Sample ID: 500-256508-2

Date Collected: 09/10/24 09:22
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785629		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 17:09
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 20:34

Client Sample ID: SB72 (7.5-10)
Date Collected: 09/10/24 09:22
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-2
Matrix: Solid
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 ¹
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 09:24
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 ¹
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 14:43
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 ¹
Total/NA	Analysis	6010D		1	788042	RB	EET CHI	09/27/24 00:23
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 ¹
Total/NA	Analysis	6010D		1	788205	SJ	EET CHI	09/28/24 03:13
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 ¹
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 18:20
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 09:50
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 ¹
Total/NA	Analysis	9012B		1	787319	AC	EET CHI	09/17/24 15:07

Client Sample ID: SB73 (0-3)
Date Collected: 09/10/24 10:10
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:05
Total/NA	Analysis	Moisture		1	786892	DG	EET CHI	09/19/24 12:38

Client Sample ID: SB73 (0-3)
Date Collected: 09/10/24 10:10
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-3
Matrix: Solid
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785629		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 17:34
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 12:58
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 ¹
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 09:35
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 ¹
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 14:58
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 ¹
Total/NA	Analysis	6010D		1	788042	RB	EET CHI	09/27/24 00:27
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 ¹
Total/NA	Analysis	6010D		1	788205	SJ	EET CHI	09/28/24 03:17
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 ¹
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 18:25
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 09:52

Client Sample ID: SB73 (0-3)

Lab Sample ID: 500-256508-3

Date Collected: 09/10/24 10:10

Matrix: Solid

Date Received: 09/11/24 11:05

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		1	787319	AC	EET CHI	09/17/24 15:08
Total/NA	Prep	9030B			627056	BLW	EET CLE	09/16/24 07:29
Total/NA	Analysis	9034		1	627111	BLW	EET CLE	09/16/24 09:22

Client Sample ID: SB73 (5-7.5)

Lab Sample ID: 500-256508-4

Date Collected: 09/10/24 10:23

Matrix: Solid

Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:08
Total/NA	Analysis	Moisture		1	786892	DG	EET CHI	09/19/24 12:38

Client Sample ID: SB73 (5-7.5)

Lab Sample ID: 500-256508-4

Date Collected: 09/10/24 10:23

Matrix: Solid

Date Received: 09/11/24 11:05

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785629		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786325	W1T	EET CHI	09/17/24 00:31
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 13:48
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 09:47
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 15:13
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	788042	RB	EET CHI	09/27/24 00:32
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	788205	SJ	EET CHI	09/28/24 03:22
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 18:29
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 09:53
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		1	787319	AC	EET CHI	09/17/24 15:10

Client Sample ID: SB74 (0-3)

Lab Sample ID: 500-256508-5

Date Collected: 09/10/24 11:17

Matrix: Solid

Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:10
Total/NA	Analysis	Moisture		1	786892	DG	EET CHI	09/19/24 12:38

Client Sample ID: SB74 (0-3)
Lab Sample ID: 500-256508-5
Date Collected: 09/10/24 11:17
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785629		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786325	W1T	EET CHI	09/17/24 00:56
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 14:13
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 09:59
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 15:29
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		10	788205	SJ	EET CHI	09/28/24 01:09
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 18:34
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 09:55
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		1	787319	AC	EET CHI	09/17/24 15:12

Client Sample ID: SB74 (3-5)
Lab Sample ID: 500-256508-6
Date Collected: 09/10/24 11:24
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:15
Total/NA	Analysis	Moisture		1	786892	DG	EET CHI	09/19/24 12:38

Client Sample ID: SB74 (3-5)
Lab Sample ID: 500-256508-6
Date Collected: 09/10/24 11:24
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785629		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786325	W1T	EET CHI	09/17/24 01:20
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 14:38
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 10:10
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 15:44
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 00:41
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 01:13
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 18:38

Client Sample ID: SB74 (3-5)

Lab Sample ID: 500-256508-6

Date Collected: 09/10/24 11:24

Matrix: Solid

Date Received: 09/11/24 11:05

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 09:57
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		1	787319	AC	EET CHI	09/17/24 15:18

Client Sample ID: SB75 (0-3)

Lab Sample ID: 500-256508-7

Date Collected: 09/10/24 08:59

Matrix: Solid

Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:19
Total/NA	Analysis	Moisture		1	786892	DG	EET CHI	09/19/24 12:38

Client Sample ID: SB75 (0-3)

Lab Sample ID: 500-256508-7

Date Collected: 09/10/24 08:59

Matrix: Solid

Date Received: 09/11/24 11:05

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785629		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 19:14
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 15:04
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 10:22
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 15:59
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 00:45
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 01:18
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 18:51
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 09:59
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		1	787319	AC	EET CHI	09/17/24 15:19

Client Sample ID: SB75 (5-7.5)

Lab Sample ID: 500-256508-8

Date Collected: 09/10/24 09:14

Matrix: Solid

Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:22
Total/NA	Analysis	Moisture		1	786892	DG	EET CHI	09/19/24 12:38

Client Sample ID: SB75 (5-7.5)

Lab Sample ID: 500-256508-8
Date Collected: 09/10/24 09:14
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785629		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 19:39
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		2	787446	WS	EET CHI	09/24/24 13:53
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 10:34
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788278	SB	EET CHI	09/30/24 11:06
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 00:49
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 01:22
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 18:55
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:01
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		1	787319	AC	EET CHI	09/17/24 15:21

Client Sample ID: SB76 (0-3)

Lab Sample ID: 500-256508-9
Date Collected: 09/10/24 10:00
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:24
Total/NA	Analysis	Moisture		1	786902	DG	EET CHI	09/19/24 13:16

Client Sample ID: SB76 (0-3)

Lab Sample ID: 500-256508-9
Date Collected: 09/10/24 10:00
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785629		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 20:04
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 15:54
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 10:45
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788278	SB	EET CHI	09/30/24 11:21
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 00:54
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		50	788042	RB	EET CHI	09/27/24 00:58

Client Sample ID: SB76 (0-3)
Lab Sample ID: 500-256508-9

Date Collected: 09/10/24 10:00
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 01:26
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		50	788205	SJ	EET CHI	09/28/24 01:31
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 19:00
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:07
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		5	786891	AC	EET CHI	09/19/24 10:41

Client Sample ID: SB76 (7.5-10)
Lab Sample ID: 500-256508-10

Date Collected: 09/10/24 10:13
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:27
Total/NA	Analysis	Moisture		1	786902	DG	EET CHI	09/19/24 13:16

Client Sample ID: SB76 (7.5-10)
Lab Sample ID: 500-256508-10

Date Collected: 09/10/24 10:13
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785629		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 20:29
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 16:19
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 10:57
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 16:45
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 01:12
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 01:35
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 19:04
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:14
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		15	786891	AC	EET CHI	09/19/24 10:46

Client Sample ID: SB77 (0-3)
Lab Sample ID: 500-256508-11
Date Collected: 09/10/24 11:01
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:29
Total/NA	Analysis	Moisture		1	786902	DG	EET CHI	09/19/24 13:16

Client Sample ID: SB77 (0-3)
Lab Sample ID: 500-256508-11
Date Collected: 09/10/24 11:01
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785629		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 20:54
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 16:45
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 11:08
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 17:00
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 02:10
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		20	788042	RB	EET CHI	09/27/24 02:14
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 02:33
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 19:49
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:16
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		1	787319	AC	EET CHI	09/17/24 15:27

Client Sample ID: SB77 (5-7.5)
Lab Sample ID: 500-256508-12
Date Collected: 09/10/24 11:19
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:32
Total/NA	Analysis	Moisture		1	786902	DG	EET CHI	09/19/24 13:16

Client Sample ID: SB77 (5-7.5)
Lab Sample ID: 500-256508-12
Date Collected: 09/10/24 11:19
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785629		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 21:19

Client Sample ID: SB77 (5-7.5)

Lab Sample ID: 500-256508-12

Date Collected: 09/10/24 11:19

Matrix: Solid

Date Received: 09/11/24 11:05

Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 17:10
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 11:20
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 17:16
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 01:16
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 01:40
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 19:09
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:18
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		15	786891	AC	EET CHI	09/19/24 11:04
Total/NA	Prep	9030B			627056	BLW	EET CLE	09/16/24 07:29
Total/NA	Analysis	9034		1	627111	BLW	EET CLE	09/16/24 09:22

Client Sample ID: SB78 (0-3)

Lab Sample ID: 500-256508-13

Date Collected: 09/10/24 12:33

Matrix: Solid

Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:34
Total/NA	Analysis	Moisture		1	786902	DG	EET CHI	09/19/24 13:16

Client Sample ID: SB78 (0-3)

Lab Sample ID: 500-256508-13

Date Collected: 09/10/24 12:33

Matrix: Solid

Date Received: 09/11/24 11:05

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785630		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 21:43
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 17:35
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 11:32
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788020	H7CM	EET CHI	09/27/24 17:31
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 01:21
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		50	788042	RB	EET CHI	09/27/24 01:25

Client Sample ID: SB78 (0-3)

Lab Sample ID: 500-256508-13

Date Collected: 09/10/24 12:33

Matrix: Solid

Date Received: 09/11/24 11:05

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 01:53
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		50	788205	SJ	EET CHI	09/28/24 01:58
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 19:13
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:20
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		15	786891	AC	EET CHI	09/19/24 11:08

Client Sample ID: SB78 (10-12.5)

Lab Sample ID: 500-256508-14

Date Collected: 09/10/24 13:09

Matrix: Solid

Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:36
Total/NA	Analysis	Moisture		1	786902	DG	EET CHI	09/19/24 13:16

Client Sample ID: SB78 (10-12.5)

Lab Sample ID: 500-256508-14

Date Collected: 09/10/24 13:09

Matrix: Solid

Date Received: 09/11/24 11:05

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785630		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 22:08
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 18:00
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 11:43
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788018	SB	EET CHI	09/27/24 18:08
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 01:29
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		20	788042	RB	EET CHI	09/27/24 01:34
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 02:02
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		20	788205	SJ	EET CHI	09/28/24 02:07
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 19:18
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:22

Client Sample ID: SB78 (10-12.5)
Lab Sample ID: 500-256508-14

Date Collected: 09/10/24 13:09
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		1	787319	AC	EET CHI	09/17/24 15:32

Client Sample ID: SB79 (0-3)
Lab Sample ID: 500-256508-15

Date Collected: 09/10/24 13:50
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786493	ST	EET CHI	09/17/24 14:39
Total/NA	Analysis	Moisture		1	786902	DG	EET CHI	09/19/24 13:16

Client Sample ID: SB79 (0-3)
Lab Sample ID: 500-256508-15

Date Collected: 09/10/24 13:50
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785630		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 22:33
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 18:25
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 11:55
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788019	H7CM	EET CHI	09/27/24 19:23
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 01:39
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 02:11
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 19:22
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:24
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		5	786891	AC	EET CHI	09/19/24 11:13

Client Sample ID: SB79 (5-7.5)
Lab Sample ID: 500-256508-16

Date Collected: 09/10/24 14:06
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787247	ST	EET CHI	09/20/24 18:24
Total/NA	Analysis	Moisture		1	786902	DG	EET CHI	09/19/24 13:16

Client Sample ID: SB79 (5-7.5)

Lab Sample ID: 500-256508-16
Date Collected: 09/10/24 14:06
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785630		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 22:58
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 18:54
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 12:07
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		10	788019	H7CM	EET CHI	09/27/24 19:37
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 01:43
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 02:15
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 19:27
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:33
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		15	786891	AC	EET CHI	09/19/24 11:17

Client Sample ID: SB80 (0-3)

Lab Sample ID: 500-256508-17
Date Collected: 09/10/24 15:00
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787247	ST	EET CHI	09/20/24 18:27
Total/NA	Analysis	Moisture		1	786902	DG	EET CHI	09/19/24 13:16

Client Sample ID: SB80 (0-3)

Lab Sample ID: 500-256508-17
Date Collected: 09/10/24 15:00
Matrix: Solid
Date Received: 09/11/24 11:05
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785630		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 23:23
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		2	787207	H7CM	EET CHI	09/23/24 19:46
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8081B		10	788442	SB	EET CHI	10/01/24 12:18
Total/NA	Prep	3541			787217	FRG	EET CHI	09/23/24 07:18 - 09/23/24 12:00 [1]
Total/NA	Analysis	8082A		50	788278	SB	EET CHI	09/30/24 11:36
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 01:48
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 02:20

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256508-1

Client Sample ID: SB80 (0-3)

Date Collected: 09/10/24 15:00
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-17

Matrix: Solid
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 19:31
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:35
Total/NA	Prep	9010C			786400	AC	EET CHI	09/17/24 10:28 - 09/17/24 10:58 [1]
Total/NA	Analysis	9012B		10	786891	AC	EET CHI	09/19/24 11:22

Client Sample ID: SB80 (3-5)

Date Collected: 09/10/24 15:08
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787247	ST	EET CHI	09/20/24 18:29
Total/NA	Analysis	Moisture		1	786902	DG	EET CHI	09/19/24 13:16

Client Sample ID: SB80 (3-5)

Date Collected: 09/10/24 15:08
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-18

Matrix: Solid
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785630		EET CHI	09/11/24 18:53
Total/NA	Analysis	8260D		1	786103	PMF	EET CHI	09/15/24 23:48
Total/NA	Prep	3546			787085	EK	EET CHI	09/20/24 12:16
Total/NA	Analysis	8270E		1	787207	H7CM	EET CHI	09/23/24 20:10
Total/NA	Prep	3541			787109	SV	EET CHI	09/20/24 15:00 - 09/20/24 21:50 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 12:35
Total/NA	Prep	3541			787109	SV	EET CHI	09/20/24 15:00 - 09/20/24 21:50 [1]
Total/NA	Analysis	8082A		1	788189	H7CM	EET CHI	09/29/24 02:31
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788042	RB	EET CHI	09/27/24 01:52
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		5	788205	SJ	EET CHI	09/28/24 02:24
Total/NA	Prep	3050B			787128	S1Z	EET CHI	09/20/24 16:37 - 09/20/24 20:37 [1]
Total/NA	Analysis	6010D		1	787833	RB	EET CHI	09/25/24 19:45
Total/NA	Prep	7471B			787947	S1Z	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:36
Total/NA	Prep	9010C			786602	AC	EET CHI	09/18/24 09:52 - 09/18/24 10:22 [1]
Total/NA	Analysis	9012B		5	786891	AC	EET CHI	09/19/24 11:41

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200
EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	10-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record 720439

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☒ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jack Hartsock	Site Contact	Date	COC No
Company Name: PIONEER	Tel/Email: HARTSOCK@PIONEERES.CO	Lab Contact	Carrier	1 of 1 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	☒ TAT if different from Below _____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name: 24-0124-103	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO#: 8080 S LAKE SHOR DR	☐ 1 day			500-256508

500-256508 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL	PH	Sample Specific Notes
1	SB72 (0-3)	9/10/24	909	G	SO	4			X	X	
2	SB72 (7.5-10)		922								
3	SB73 (0-3)		1010								
4	SB73 (5-7.5)		1023								
5	SB74 (0-3)		1117								
6	SB74 (3-5)		1124								
7	SB75 (0-3)		859								
8	SB75 (5-7.5)		914								
9	SB76 (0-3)		1000								
10	SB76 (7.5-10)		1013								
11	SB77 (0-3)		1101								
12	SB77 (5-7.5)		1119								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 2.6 Corr'd 2.3 | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	9/11/24	[signature]	EETA	9/11/24 1015
[signature]	EETA 9/11/24	1105			
			Received in Laboratory by: Stephanie Hemand	EETA	9/11/24 1105

3/11/2025 (Rev. 2)

Chain of Custody Record 720433

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager.	Site Contact	Date:	COC No: 2 of 2 COCs
Company Name: PIONEER	Tel/Email:	Lab Contact	Carrier	Sampler
Address: SA #9	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS; TAT if different from Below _____; ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			For Lab Use Only: Walk-in Client; Lab Sampling
City/State/Zip				Job / SDG No: 570-256509
Phone				
Fax				
Project Name: Lot Station #5				
Site				
PO # 8050				

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes
13	SB78 (0-3)	9/10/24	1233	G	SO	4		Y	
14	SB78 (10-12.5)		109						
15	SB79 (0-3)		150						
16	SB79 (5-7.5)		206						
17	SB80 (0-3)		300						
18	SB80 (3-5)		308			2			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ | Therm ID No _____

Relinquished by	Company: PIONEER	Date/Time: 9/11/24	Received by	Company: EEA	Date/Time: 9/11/24 1015
Relinquished by	Company: EEA 9/11/24	Date/Time: 1105	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by: Stephanie Hernandez	Company: EEA	Date/Time: 9/11/24 1105

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

4.0/5.0

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192537 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256508-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 9/24/2024	Analysis Requested		Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:						EDDS
SB73 (0-3) (500-256508-3)	9/10/24	10:10 Central	G	Solid			X	1	
SB77 (5-7.5) (500-256508-12)	9/10/24	11 19 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	9/12/24 15:30	EET	JESSICA RIGDON	9-13-24 0930	EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - CHL Site Name

Cooler unpacked by: JESSICA RIGDON

Cooler Received on 9-13-24 Opened on 9-13-24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours. Drop-off Date/Time Storage Location

Eurofins Cooler # 6C Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 19 (CF +1.0 °C) Observed Cooler Temp. 4.0 °C Corrected Cooler Temp. 5.0 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y(N)) # of containers (Y)N), and sample type of grab/comp(Y(N))?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC442471
14. Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved. Preservative(s) added/Lot number(s).

VOA Sample Preservation - Date/Time VOAs Frozen.

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE: 12SEP24
ACTWGT: 30.00 LB MAN
CAD: 0878856/CAFE6854

BILL SENDER

TO SAMPLE RECEIVING
EUROFINS - CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203

FedEx

E

FRI - 13 SEP 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7051 7620 8829

NX CAKA

44203
OH-US CLE

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193734.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256508-2
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/17/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes.

Other:

G054

Special Instructions/Note:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/1311T_M (MOD) TCLP RCRA Metals	7470A/1311T_Hg TCLP Mercury	6010D/1311T_M (MOD) a) 1 element, including prep	Total Number of containers
			Preservation Code:							
SB76 (0-3) (500-256508-9)	9/10/24	10:00 Central	G	Solid			X	X		1
SB76 (7 5-10) (500-256508-10)	9/10/24	10:13 Central	G	Solid					X	1
SB78 (0-3) (500-256508-13)	9/10/24	12:33 Central	G	Solid					X	1
SB78 (10-12.5) (500-256508-14)	9/10/24	13.09 Central	G	Solid					X	1
SB80 (0-3) (500-256508-17)	9/10/24	15:00 Central	G	Solid					X	1
SB80 (3-5) (500-256508-18)	9/10/24	15:08 Central	G	Solid					X	1

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested. I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Stephanie Hernandez	Date/Time: 10/11/24 1600	Company	Received by: KATHARINE MARTIN	Date/Time: 10/12/24 920	Company EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler unpacked by: ICM

Cooler Received on 10/12/24 Opened on 10/12/24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☒ See Multiple Cooler Form

IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 *Could all bottle labels (ID/Date/Time) be reconciled with the COC?*	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14. Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved: Preservative(s) added/Lot number(s).

VOA Sample Preservation - Date/Time VOAs Frozen.

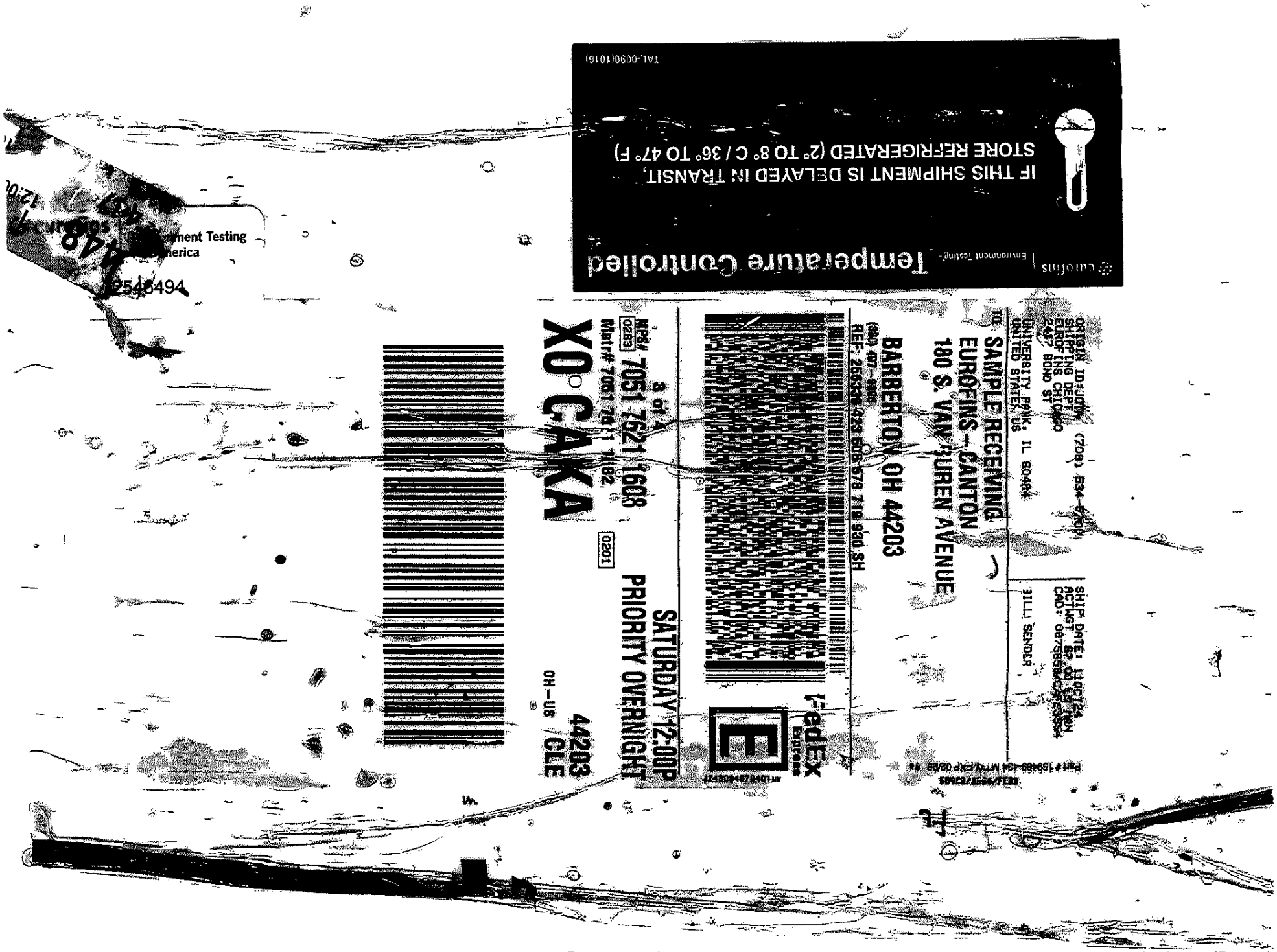
Login # : ___________

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: ______	2.7	3.0	Wet Ice (circled) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers


Temperature Controlled
IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)
TAL-0090(1016)
ORIGIN ID:JOTA (708) 534-5700
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES US
TO SAMPLE RECEIVING
EUROFINS-CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203
REF: 256339 423 506 578 719 930 SH
SHIP DATE: 11OCT24
BILL SENDER
FedEx Express
3 of 4
MPS# 7051 7621 1608
Mstr# 7051 7621 1182
XO CAKA
SATURDAY 12:00P
PRIORITY OVERNIGHT
44203
OH-US
CLE
Environment Testing
America
2546494

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256508-1

Login Number: 256508
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 10:22:42 AM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256578-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 10:22:42 AM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job Narrative
500-256578-1

Revision
The report being provided is a revision of the original report sent on 10/11/2024. The report (revision 2) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 12/11/2024 - Reason - The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/12/2024 12:06 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2º C.

GC/MS VOA
Method 8260D: Internal standard /surrogate responses were outside of acceptance limits for the following sample: SB81 (0-3) (500-256578-1). The sample(s) shows evidence of matrix interference, as sample was analyzed multiple times with concurring failures.

Method 8260D: Surrogate recovery for the following sample was outside control limits: SB85 (10-12.5) (500-256578-10). Evidence of matrix interference is present (high sample pH); therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Surrogate recovery for the following sample was outside control limits: SB85 (10-12.5) (500-256578-10). Evidence of matrix interference is present (high sample pH); therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-787451 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: SB81 (7.5-10) (500-256578-2). Analytes associated to this internal standard were non-detect; therefore, re-analysis was not performed.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-787529 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB83 (0-3) (500-256578-5), SB83 (3-5) (500-256578-6), SB86 (0-3) (500-256578-11) and SB86 (7.5-10) (500-256578-12). Elevated reporting limits (RLs) are provided.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB83 (0-3) (500-256578-5), SB83 (3-5) (500-256578-6), SB84 (0-3) (500-256578-7), SB85 (0-3) (500-256578-9) and SB86 (0-3) (500-256578-11). These results have been reported and qualified.

Method 8270E: Surrogate recovery for the following sample was outside control limits: SB84 (5-7.5) (500-256578-8). Re-extraction and re-analysis was performed outside of holding time with acceptable results. The in-hold data have been reported.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: SB81 (0-3) (500-256578-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB81 (0-3) (500-256578-1), SB81 (7.5-10) (500-256578-2), SB82 (0-3) (500-256578-3), SB82 (5-7.5) (500-256578-4), SB83 (0-3) (500-256578-5), SB83 (3-5) (500-256578-6), SB84 (0-3) (500-256578-7), SB84 (5-7.5) (500-256578-8), SB85 (0-3) (500-256578-9), SB85 (10-12.5)

Job ID: 500-256578-1 (Continued) Eurofins Chicago

(500-256578-10), SB86 (0-3) (500-256578-11), SB86 (7.5-10) (500-256578-12), (500-256578-D-1-C MS) and (500-256578-D-1-D MSD). Elevated reporting limits (RLs) are provided.

Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB81 (0-3) (500-256578-1), SB82 (0-3) (500-256578-3), SB83 (0-3) (500-256578-5), SB86 (0-3) (500-256578-11), SB86 (7.5-10) (500-256578-12), (500-256578-D-1-C MS) and (500-256578-D-1-D MSD). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The laboratory control sample (LCS) for preparation batch 500-787435 and analytical batch 500-788691 recovered outside control limits for the following analytes: Methoxychlor. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-787435 and analytical batch 500-788691 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082A: The laboratory control sample (LCS) for preparation batch 500-787435 and analytical batch 500-789080 recovered outside control limits for the following analytes: PCB-1260 and PCB-1016. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: SB81 (0-3) (500-256578-1), SB83 (0-3) (500-256578-5), SB83 (3-5) (500-256578-6), SB86 (0-3) (500-256578-11), SB86 (7.5-10) (500-256578-12), (LCS 500-787435/3-A), (500-256578-D-1-E MS) and (500-256578-D-1-F MSD). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following samples was outside control limits: SB81 (7.5-10) (500-256578-2). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB81 (0-3) (500-256578-1), SB81 (7.5-10) (500-256578-2), SB82 (5-7.5) (500-256578-4), SB83 (0-3) (500-256578-5), SB83 (3-5) (500-256578-6), SB84 (0-3) (500-256578-7), SB84 (5-7.5) (500-256578-8), SB85 (0-3) (500-256578-9), SB85 (10-12.5) (500-256578-10), SB86 (0-3) (500-256578-11), SB86 (7.5-10) (500-256578-12), (500-256578-D-1-E MS) and (500-256578-D-1-F MSD). Elevated reporting limits (RLs) are provided.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-787435 and analytical batch 500-789080 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082A: The following sample required a dilution due to the nature of the sample matrix: SB82 (0-3) (500-256578-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: SB82 (0-3) (500-256578-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SB81 (0-3) — Lab Sample ID: 500-256578-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.020	J	0.023	0.0096	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00082	J	0.0023	0.00046	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.16	J	0.18	0.037	mg/Kg	5	☼	8270E	Total/NA
Benzo[a]anthracene	0.44		0.18	0.038	mg/Kg	5	☼	8270E	Total/NA
Benzo[a]pyrene	0.45		0.18	0.17	mg/Kg	5	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.47		0.18	0.17	mg/Kg	5	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.30		0.18	0.039	mg/Kg	5	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.42		0.18	0.068	mg/Kg	5	☼	8270E	Total/NA
Chrysene	0.65		0.18	0.047	mg/Kg	5	☼	8270E	Total/NA
Fluoranthene	0.50		0.18	0.042	mg/Kg	5	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.32		0.18	0.18	mg/Kg	5	☼	8270E	Total/NA
Phenanthrene	1.6		0.18	0.039	mg/Kg	5	☼	8270E	Total/NA
Pyrene	0.57		0.18	0.049	mg/Kg	5	☼	8270E	Total/NA
Butyl benzyl phthalate	0.16	J	0.91	0.089	mg/Kg	5	☼	8270E	Total/NA
Carbazole	0.072	J	0.91	0.071	mg/Kg	5	☼	8270E	Total/NA
Aluminum	17000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	19		5.2		mg/Kg	5	☼	6010D	Total/NA
Barium	290		5.2		mg/Kg	5	☼	6010D	Total/NA
Beryllium	4.1		2.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	92000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	200		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	9.8		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	140		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	110000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	110		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	10000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	9500		5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	70		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	1100		52		mg/Kg	1	☼	6010D	Total/NA
Silver	2.9		2.6		mg/Kg	5	☼	6010D	Total/NA
Sodium	830		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	21		5.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	78		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	250		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.17		0.018		mg/Kg	1	☼	7471B	Total/NA
Sulfide	60		33		mg/Kg	1	☼	9034	Total/NA
pH	7.11		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB81 (7.5-10) — Lab Sample ID: 500-256578-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0019	J	0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Phenanthrene	0.010	J	0.036	0.0080	mg/Kg	1	☼	8270E	Total/NA
Aluminum	22000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.4		0.96		mg/Kg	1	☼	6010D	Total/NA
Barium	210		0.96		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.8		0.38		mg/Kg	1	☼	6010D	Total/NA
Calcium	130000		96		mg/Kg	5	☼	6010D	Total/NA
Chromium	5.3		0.96		mg/Kg	1	☼	6010D	Total/NA
Cobalt	0.58		0.48		mg/Kg	1	☼	6010D	Total/NA
Copper	6.0		0.96		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB81 (7.5-10) (Continued)
Lab Sample ID: 500-256578-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	7300		19		mg/Kg	1	☼	6010D	Total/NA
Lead	3.5		0.48		mg/Kg	1	☼	6010D	Total/NA
Magnesium	9900		9.6		mg/Kg	1	☼	6010D	Total/NA
Manganese	3500		4.8		mg/Kg	5	☼	6010D	Total/NA
Nickel	6.5		0.96		mg/Kg	1	☼	6010D	Total/NA
Potassium	1500		48		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.3		0.96		mg/Kg	1	☼	6010D	Total/NA
Sodium	740		96		mg/Kg	1	☼	6010D	Total/NA
Thallium	7.2		4.8		mg/Kg	5	☼	6010D	Total/NA
Vanadium	9.6		0.48		mg/Kg	1	☼	6010D	Total/NA
Zinc	20		1.9		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	36		2.7		mg/Kg	10	☼	9012B	Total/NA
pH	8.71		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB82 (0-3)
Lab Sample ID: 500-256578-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0050	J	0.0054	0.0010	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.019	J	0.036	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.085		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.093		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.13		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.086		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.064		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.092		0.036	0.0097	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.13		0.036	0.0085	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.067		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.065		0.036	0.0080	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.12		0.036	0.010	mg/Kg	1	☼	8270E	Total/NA
Aluminum	28000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.2		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	290		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	6.2		0.42		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.59		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	160000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	29		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.6		0.53		mg/Kg	1	☼	6010D	Total/NA
Copper	36		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	25000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	88		0.53		mg/Kg	1	☼	6010D	Total/NA
Magnesium	7800		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	4900		5.3		mg/Kg	5	☼	6010D	Total/NA
Nickel	43		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	2000		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	1200		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	9.5		5.3		mg/Kg	5	☼	6010D	Total/NA
Vanadium	30		0.53		mg/Kg	1	☼	6010D	Total/NA
Zinc	150		2.1		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	35		2.4		mg/Kg	10	☼	9012B	Total/NA
pH	9.01		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB82 (5-7.5) — Lab Sample ID: 500-256578-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.0013	J	0.0038	0.00076	mg/Kg	1	☼	8260D	Total/NA
Phenanthrene	0.018	J	0.042	0.0092	mg/Kg	1	☼	8270E	Total/NA
Aluminum	35000		25		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.2		1.2		mg/Kg	1	☼	6010D	Total/NA
Barium	300		1.2		mg/Kg	1	☼	6010D	Total/NA
Beryllium	6.9		0.50		mg/Kg	1	☼	6010D	Total/NA
Calcium	210000		120		mg/Kg	5	☼	6010D	Total/NA
Chromium	10		1.2		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.1		0.62		mg/Kg	1	☼	6010D	Total/NA
Copper	7.0		1.2		mg/Kg	1	☼	6010D	Total/NA
Iron	16000		25		mg/Kg	1	☼	6010D	Total/NA
Magnesium	12000		12		mg/Kg	1	☼	6010D	Total/NA
Manganese	5000		6.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	21		1.2		mg/Kg	1	☼	6010D	Total/NA
Potassium	1700		62		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.7		1.2		mg/Kg	1	☼	6010D	Total/NA
Sodium	960		120		mg/Kg	1	☼	6010D	Total/NA
Thallium	13		6.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	24		0.62		mg/Kg	1	☼	6010D	Total/NA
Zinc	13		2.5		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	44		3.1		mg/Kg	10	☼	9012B	Total/NA
pH	9.87		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB83 (0-3) — Lab Sample ID: 500-256578-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0041	J	0.0047	0.0021	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.028		0.019	0.0078	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0067		0.0047	0.00086	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0011	J	0.0019	0.00038	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.00080	J	0.0037	0.00064	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.014	J	0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.049	J	0.069	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.063	J	0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.24		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.24		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.40		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.22		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.18		0.069	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.31		0.069	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.47		0.069	0.016	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.23		0.069	0.068	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.033	J	0.069	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.37		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.39		0.069	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.047	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.033	J	0.35	0.028	mg/Kg	2	☼	8270E	Total/NA
Aluminum	23000		18		mg/Kg	1	☼	6010D	Total/NA
Arsenic	10		4.6		mg/Kg	5	☼	6010D	Total/NA
Barium	410		4.6		mg/Kg	5	☼	6010D	Total/NA
Beryllium	4.6		1.8		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB83 (0-3) (Continued)
Lab Sample ID: 500-256578-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	1.9		0.92		mg/Kg	5	☼	6010D	Total/NA
Calcium	150000		92		mg/Kg	5	☼	6010D	Total/NA
Chromium	150		0.92		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.4		0.46		mg/Kg	1	☼	6010D	Total/NA
Copper	64		4.6		mg/Kg	5	☼	6010D	Total/NA
Iron	70000		92		mg/Kg	5	☼	6010D	Total/NA
Lead	130		2.3		mg/Kg	5	☼	6010D	Total/NA
Magnesium	12000		9.2		mg/Kg	1	☼	6010D	Total/NA
Manganese	21000		4.6		mg/Kg	5	☼	6010D	Total/NA
Nickel	33		4.6		mg/Kg	5	☼	6010D	Total/NA
Potassium	1600		46		mg/Kg	1	☼	6010D	Total/NA
Selenium	7.0		4.6		mg/Kg	5	☼	6010D	Total/NA
Sodium	840		92		mg/Kg	1	☼	6010D	Total/NA
Thallium	40		4.6		mg/Kg	5	☼	6010D	Total/NA
Vanadium	92		2.3		mg/Kg	5	☼	6010D	Total/NA
Zinc	500		1.8		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.21		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	9.9		2.5		mg/Kg	10	☼	9012B	Total/NA
pH	9.81		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB83 (3-5)
Lab Sample ID: 500-256578-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.022	0.0092	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0055		0.0055	0.0010	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.042	J	0.067	0.011	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.043	J	0.067	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.17		0.067	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.21		0.067	0.065	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.35		0.067	0.064	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.20		0.067	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.12		0.067	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.27		0.067	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.31		0.067	0.016	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.19		0.067	0.066	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.27		0.067	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.29		0.067	0.018	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.041	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Aluminum	19000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.0		4.7		mg/Kg	5	☼	6010D	Total/NA
Barium	610		4.7		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.3		1.9		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.3		0.95		mg/Kg	5	☼	6010D	Total/NA
Calcium	180000		95		mg/Kg	5	☼	6010D	Total/NA
Chromium	720		4.7		mg/Kg	5	☼	6010D	Total/NA
Cobalt	2.7		0.47		mg/Kg	1	☼	6010D	Total/NA
Copper	37		4.7		mg/Kg	5	☼	6010D	Total/NA
Iron	84000		95		mg/Kg	5	☼	6010D	Total/NA
Lead	67		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	39000		9.5		mg/Kg	1	☼	6010D	Total/NA
Manganese	27000		4.7		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB83 (3-5) (Continued) — Lab Sample ID: 500-256578-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	16		4.7		mg/Kg	5	☼	6010D	Total/NA
Potassium	1100		47		mg/Kg	1	☼	6010D	Total/NA
Selenium	9.7		4.7		mg/Kg	5	☼	6010D	Total/NA
Sodium	490		95		mg/Kg	1	☼	6010D	Total/NA
Thallium	50		4.7		mg/Kg	5	☼	6010D	Total/NA
Vanadium	200		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	340		1.9		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	8.8		1.1		mg/Kg	5	☼	9012B	Total/NA
pH	9.72		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB84 (0-3) — Lab Sample ID: 500-256578-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0047	J	0.0058	0.0011	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.027	J	0.036	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.056		0.036	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.039		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.052		0.036	0.0095	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.036		0.036	0.0084	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.044		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.032	J	0.036	0.0099	mg/Kg	1	☼	8270E	Total/NA
Aluminum	24000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.6		0.98		mg/Kg	1	☼	6010D	Total/NA
Barium	300		0.98		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.5		0.39		mg/Kg	1	☼	6010D	Total/NA
Cadmium	2.5		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	170000		98		mg/Kg	5	☼	6010D	Total/NA
Chromium	87		0.98		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.0		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	120		4.9		mg/Kg	5	☼	6010D	Total/NA
Iron	33000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	550		0.49		mg/Kg	1	☼	6010D	Total/NA
Magnesium	12000		9.8		mg/Kg	1	☼	6010D	Total/NA
Manganese	10000		4.9		mg/Kg	5	☼	6010D	Total/NA
Nickel	16		0.98		mg/Kg	1	☼	6010D	Total/NA
Potassium	1600		49		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.5		0.98		mg/Kg	1	☼	6010D	Total/NA
Sodium	860		98		mg/Kg	1	☼	6010D	Total/NA
Thallium	24		4.9		mg/Kg	5	☼	6010D	Total/NA
Vanadium	71		0.49		mg/Kg	1	☼	6010D	Total/NA
Zinc	1700		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	5.8		1.2		mg/Kg	5	☼	9012B	Total/NA
pH	10.03		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB84 (5-7.5) — Lab Sample ID: 500-256578-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0053	J	0.0064	0.0012	mg/Kg	1	☼	8260D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.032	J	0.035	0.0093	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.034	J	0.035	0.0082	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.0086	J	0.035	0.0064	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB84 (5-7.5) (Continued)
Lab Sample ID: 500-256578-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.045		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.024	J	0.035	0.0096	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.019	J	0.071	0.0071	mg/Kg	1	☼	8270E	Total/NA
Aluminum	26000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.7		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	280		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.9		0.41		mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.2		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	190000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	91		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	0.71		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	51		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	31000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	92		0.51		mg/Kg	1	☼	6010D	Total/NA
Magnesium	12000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	15000		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	11		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1500		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	5.0		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	920		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	29		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	110		0.51		mg/Kg	1	☼	6010D	Total/NA
Zinc	840		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.037		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	8.1		1.2		mg/Kg	5	☼	9012B	Total/NA
pH	9.92		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB85 (0-3)
Lab Sample ID: 500-256578-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0048	J	0.0059	0.0011	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.011	J	0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.039		0.035	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.039		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.071		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.040		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.058		0.035	0.0094	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.065		0.035	0.0082	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.20		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.067		0.035	0.0097	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.043	J	0.072	0.0071	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.014	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	29000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.8		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	290		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	5.0		0.42		mg/Kg	1	☼	6010D	Total/NA
Calcium	210000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	7.6		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	0.99		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	8.6		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	29000		21		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB85 (0-3) (Continued) — Lab Sample ID: 500-256578-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.2		0.52		mg/Kg	1	☼	6010D	Total/NA
Magnesium	12000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	2900		5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	4.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1200		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.0		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	700		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	12		0.52		mg/Kg	1	☼	6010D	Total/NA
Zinc	34		2.1		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	7.6		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	11.26		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB85 (10-12.5) — Lab Sample ID: 500-256578-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0033	J	0.0049	0.00090	mg/Kg	1	☼	8260D	Total/NA
Phenol	0.037	J	0.18	0.016	mg/Kg	1	☼	8270E	Total/NA
Aluminum	25000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.7		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	240		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.1		0.42		mg/Kg	1	☼	6010D	Total/NA
Calcium	260000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	130		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	51000		21		mg/Kg	1	☼	6010D	Total/NA
Magnesium	19000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	19000		5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	3.1		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1500		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	7.0		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	840		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	36		5.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	140		0.52		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	12		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	12.45		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB86 (0-3) — Lab Sample ID: 500-256578-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012	J	0.024	0.010	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0047	J	0.0060	0.0011	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.024	J	0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.045	J	0.068	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.084		0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.33		0.068	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.33		0.068	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.62		0.068	0.065	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.29		0.068	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.19		0.068	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.40		0.068	0.018	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.081		0.068	0.068	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.77		0.068	0.016	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.29		0.068	0.066	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB86 (0-3) (Continued)
Lab Sample ID: 500-256578-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.37		0.068	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.61		0.068	0.019	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.044	J	0.34	0.027	mg/Kg	2	☼	8270E	Total/NA
Aluminum	13000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	43		4.7		mg/Kg	5	☼	6010D	Total/NA
Barium	270		4.7		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.7		1.9		mg/Kg	5	☼	6010D	Total/NA
Cadmium	7.9		0.94		mg/Kg	5	☼	6010D	Total/NA
Calcium	130000		94		mg/Kg	5	☼	6010D	Total/NA
Chromium	300		4.7		mg/Kg	5	☼	6010D	Total/NA
Cobalt	11		0.47		mg/Kg	1	☼	6010D	Total/NA
Copper	300		4.7		mg/Kg	5	☼	6010D	Total/NA
Iron	110000		94		mg/Kg	5	☼	6010D	Total/NA
Lead	610		2.3		mg/Kg	5	☼	6010D	Total/NA
Magnesium	28000		9.4		mg/Kg	1	☼	6010D	Total/NA
Manganese	6300		4.7		mg/Kg	5	☼	6010D	Total/NA
Nickel	160		4.7		mg/Kg	5	☼	6010D	Total/NA
Potassium	950		47		mg/Kg	1	☼	6010D	Total/NA
Silver	3.5		2.3		mg/Kg	5	☼	6010D	Total/NA
Sodium	600		94		mg/Kg	1	☼	6010D	Total/NA
Thallium	15		4.7		mg/Kg	5	☼	6010D	Total/NA
Vanadium	62		2.3		mg/Kg	5	☼	6010D	Total/NA
Zinc	1600		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.57		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	8.3		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	9.57		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB86 (7.5-10)
Lab Sample ID: 500-256578-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.026	0.011	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0046	J	0.0066	0.0012	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.21		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.051	J	0.072	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.54		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	2.0		0.072	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	2.2		0.072	0.070	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	2.9		0.072	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.7		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.2		0.072	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	2.2		0.072	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.38		0.072	0.072	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	4.0		0.072	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.16		0.072	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.6		0.072	0.070	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.053	J	0.072	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	2.0		0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	3.6		0.072	0.020	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.027	J	0.15	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.29	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.083	J	0.36	0.026	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB86 (7.5-10) (Continued)
Lab Sample ID: 500-256578-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	20000		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	190		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.0		0.44		mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.1		0.22		mg/Kg	1	☼	6010D	Total/NA
Calcium	130000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	88		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.6		0.55		mg/Kg	1	☼	6010D	Total/NA
Copper	94		5.5		mg/Kg	5	☼	6010D	Total/NA
Iron	28000		22		mg/Kg	1	☼	6010D	Total/NA
Lead	140		0.55		mg/Kg	1	☼	6010D	Total/NA
Magnesium	14000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	5000		5.5		mg/Kg	5	☼	6010D	Total/NA
Nickel	27		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1400		55		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.2		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	840		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	10		5.5		mg/Kg	5	☼	6010D	Total/NA
Vanadium	45		0.55		mg/Kg	1	☼	6010D	Total/NA
Zinc	240		2.2		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.057		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	15		1.2		mg/Kg	5	☼	9012B	Total/NA
Sulfide	440		33		mg/Kg	1	☼	9034	Total/NA
pH	9.83		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256578-1	SB81 (0-3)	Solid	09/11/24 08:14	09/12/24 12:06
500-256578-2	SB81 (7.5-10)	Solid	09/11/24 08:30	09/12/24 12:06
500-256578-3	SB82 (0-3)	Solid	09/11/24 09:49	09/12/24 12:06
500-256578-4	SB82 (5-7.5)	Solid	09/11/24 10:03	09/12/24 12:06
500-256578-5	SB83 (0-3)	Solid	09/11/24 11:04	09/12/24 12:06
500-256578-6	SB83 (3-5)	Solid	09/11/24 11:10	09/12/24 12:06
500-256578-7	SB84 (0-3)	Solid	09/11/24 12:18	09/12/24 12:06
500-256578-8	SB84 (5-7.5)	Solid	09/11/24 12:30	09/12/24 12:06
500-256578-9	SB85 (0-3)	Solid	09/11/24 13:17	09/12/24 12:06
500-256578-10	SB85 (10-12.5)	Solid	09/11/24 13:48	09/12/24 12:06
500-256578-11	SB86 (0-3)	Solid	09/11/24 14:37	09/12/24 12:06
500-256578-12	SB86 (7.5-10)	Solid	09/11/24 14:50	09/12/24 12:06

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB81 (0-3)
Lab Sample ID: 500-256578-1
Date Collected: 09/11/24 08:14
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 90.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00093		0.0023	0.00093	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
1,1,2,2-Tetrachloroethane	<0.0011	*3	0.0023	0.0011	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
1,1,2-Trichloroethane	<0.00086		0.0023	0.00086	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
1,1-Dichloroethane	<0.00086		0.0023	0.00086	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
1,1-Dichloroethene	<0.00094		0.0023	0.00094	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
1,2-Dichloroethane	<0.0015		0.0057	0.0015	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
1,2-Dichloropropane	<0.00059		0.0023	0.00059	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
2-Butanone (MEK)	<0.0025		0.0057	0.0025	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
2-Hexanone	<0.0035		0.0057	0.0035	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0057	0.0041	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Acetone	**0.020**	**J**	0.023	0.0096	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Benzene	<0.00072		0.0023	0.00072	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Bromodichloromethane	<0.00074		0.0023	0.00074	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Bromomethane	<0.0028		0.0057	0.0028	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Carbon disulfide	<0.0011		0.0057	0.0011	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Carbon tetrachloride	<0.00078		0.0023	0.00078	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Chlorobenzene	<0.00097		0.0023	0.00097	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Chloroethane	<0.0019		0.0057	0.0019	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Chloroform	<0.0016		0.0023	0.0016	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Chloromethane	<0.0011		0.0057	0.0011	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
cis-1,2-Dichloroethene	<0.00093		0.0023	0.00093	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Methyl tert-butyl ether	<0.00074		0.0023	0.00074	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Methylene Chloride	<0.0025		0.0057	0.0025	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Toluene	**0.00082**	**J**	0.0023	0.00046	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Xylenes, Total	<0.00079		0.0046	0.00079	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
trans-1,2-Dichloroethene	<0.00087		0.0023	0.00087	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Trichloroethene	<0.00062		0.0023	0.00062	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1
Vinyl chloride	<0.00094		0.0023	0.00094	mg/Kg	☼	09/12/24 18:44	09/17/24 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*	*09/12/24 18:44*	*09/17/24 01:45*	*1*
4-Bromofluorobenzene (Surr)	*132*	*3 S1+	*75 - 131*	*09/12/24 18:44*	*09/17/24 01:45*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*09/12/24 18:44*	*09/17/24 01:45*	*1*
Toluene-d8 (Surr)	*113*		*75 - 124*	*09/12/24 18:44*	*09/17/24 01:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.18	0.037	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Acenaphthylene	<0.031		0.18	0.031	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Anthracene	**0.16**	**J**	0.18	0.037	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Benzo[a]anthracene	**0.44**		0.18	0.038	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Benzo[a]pyrene	**0.45**		0.18	0.17	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Benzo[b]fluoranthene	**0.47**		0.18	0.17	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Benzo[g,h,i]perylene	**0.30**		0.18	0.039	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB81 (0-3)
Lab Sample ID: 500-256578-1
Date Collected: 09/11/24 08:14
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 90.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.42**		0.18	0.068	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Chrysene	**0.65**		0.18	0.047	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Dibenz(a,h)anthracene	<0.18		0.18	0.18	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Fluoranthene	**0.50**		0.18	0.042	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Fluorene	<0.053		0.18	0.053	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Indeno[1,2,3-cd]pyrene	**0.32**		0.18	0.18	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Naphthalene	<0.033		0.18	0.033	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Phenanthrene	**1.6**		0.18	0.039	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Pyrene	**0.57**		0.18	0.049	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
1,2,4-Trichlorobenzene	<0.13		0.91	0.13	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
1,2-Dichlorobenzene	<0.073		0.91	0.073	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
1,3-Dichlorobenzene	<0.081		0.91	0.081	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
1,4-Dichlorobenzene	<0.085		0.91	0.085	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2,4,5-Trichlorophenol	<0.068		1.8	0.068	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2,4,6-Trichlorophenol	<0.061		1.8	0.061	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2,4-Dichlorophenol	<0.063		1.8	0.063	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2,4-Dimethylphenol	<0.40		1.8	0.40	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2,4-Dinitrophenol	<1.0		3.6	1.0	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2,4-Dinitrotoluene	<0.10		0.91	0.10	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2,6-Dinitrotoluene	<0.061		0.91	0.061	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2-Chloronaphthalene	<0.067		0.91	0.067	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2-Chlorophenol	<0.058		0.91	0.058	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2-Methylnaphthalene	<0.036		0.36	0.036	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2-Methylphenol	<0.095		0.91	0.095	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2-Nitroaniline	<0.096		0.91	0.096	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
2-Nitrophenol	<0.12		1.8	0.12	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
3,3'-Dichlorobenzidine	<0.15		0.91	0.15	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
3 & 4 Methylphenol	<0.13		0.91	0.13	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
3-Nitroaniline	<0.082		1.8	0.082	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
4,6-Dinitro-2-methylphenol	<1.0		3.6	1.0	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
4-Bromophenyl phenyl ether	<0.12		0.91	0.12	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
4-Chloro-3-methylphenol	<0.070		1.8	0.070	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
4-Chloroaniline	<1.9		3.6	1.9	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
4-Chlorophenyl phenyl ether	<0.24		0.91	0.24	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
4-Nitroaniline	<0.13		1.8	0.13	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
4-Nitrophenol	<0.67		3.6	0.67	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Bis(2-chloroethoxy)methane	<0.067		0.91	0.067	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Bis(2-chloroethyl)ether	<0.083		0.91	0.083	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
bis(chloroisopropyl) ether	<0.13		0.91	0.13	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Bis(2-ethylhexyl) phthalate	<0.70		0.91	0.70	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Butyl benzyl phthalate	**0.16**	**J**	0.91	0.089	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Carbazole	**0.072**	**J**	0.91	0.071	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Dibenzofuran	<0.064		0.91	0.064	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Diethyl phthalate	<0.082		0.91	0.082	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Dimethyl phthalate	<0.039		0.91	0.039	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Di-n-butyl phthalate	<0.057		0.91	0.057	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Di-n-octyl phthalate	<1.3		1.8	1.3	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Hexachlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Hexachlorobutadiene	<0.10		0.91	0.10	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5

Client Sample ID: SB81 (0-3)
Date Collected: 09/11/24 08:14
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-1
Matrix: Solid
Percent Solids: 90.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.9		3.6	1.9	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Hexachloroethane	<0.090		0.91	0.090	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Isophorone	<0.093		0.91	0.093	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Nitrobenzene	<0.057		0.18	0.057	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
N-Nitrosodi-n-propylamine	<0.036		0.36	0.036	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
N-Nitrosodiphenylamine	<0.11		0.91	0.11	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Pentachlorophenol	<0.45		3.6	0.45	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5
Phenol	<0.078		0.91	0.078	mg/Kg	☼	09/24/24 10:34	09/26/24 14:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*76*		*31 - 166*	*09/24/24 10:34*	*09/26/24 14:14*	*5*
Phenol-d5 (Surr)	*75*		*30 - 153*	*09/24/24 10:34*	*09/26/24 14:14*	*5*
Nitrobenzene-d5 (Surr)	*45*		*37 - 147*	*09/24/24 10:34*	*09/26/24 14:14*	*5*
2-Fluorobiphenyl (Surr)	*92*		*43 - 145*	*09/24/24 10:34*	*09/26/24 14:14*	*5*
2,4,6-Tribromophenol (Surr)	*70*		*31 - 143*	*09/24/24 10:34*	*09/26/24 14:14*	*5*
Terphenyl-d14 (Surr)	*104*		*42 - 157*	*09/24/24 10:34*	*09/26/24 14:14*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0098	F1 F2	0.018	0.0098	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
4,4'-DDE	<0.0094	F1 F2	0.018	0.0094	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
4,4'-DDT	<0.0086	F1	0.018	0.0086	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Aldrin	<0.013	F1 F2	0.018	0.013	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
alpha-BHC	<0.010	F2	0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
alpha-Chlordane	<0.0097	F1	0.018	0.0097	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Chlordane (technical)	<0.034		0.072	0.034	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
delta-BHC	<0.0087	F1 F2	0.018	0.0087	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Dieldrin	<0.0095	F2 F1	0.018	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Endosulfan I	<0.0098	F1 F2	0.018	0.0098	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Endosulfan II	<0.010	F1	0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Endosulfan sulfate	<0.010	F2	0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Endrin	<0.0093	F2 F1	0.018	0.0093	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Endrin aldehyde	<0.010	F1	0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Endrin ketone	<0.0088	F1	0.018	0.0088	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
gamma-BHC (Lindane)	<0.0090	F2	0.018	0.0090	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
gamma-Chlordane	<0.010	F1	0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Heptachlor	<0.0098	F1 F2	0.018	0.0098	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Heptachlor epoxide	<0.0098	F1	0.018	0.0098	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Methoxychlor	<0.012	F1 *+	0.089	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10
Toxaphene	<0.073		0.18	0.073	mg/Kg	☼	09/24/24 07:33	10/02/24 13:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*390*	*S1+*	*33 - 148*	*09/24/24 07:33*	*10/02/24 13:10*	*10*
Tetrachloro-m-xylene	*85*		*30 - 121*	*09/24/24 07:33*	*10/02/24 13:10*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	F2 F1 *+	0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 11:26	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 11:26	10

Client Sample ID: SB81 (0-3)
Date Collected: 09/11/24 08:14
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-1
Matrix: Solid
Percent Solids: 90.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 11:26	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 11:26	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 11:26	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 11:26	10
PCB-1260	<0.18	F1 *+	0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 11:26	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 11:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*53*		*49 - 129*	*09/24/24 07:33*	*10/04/24 11:26*	*10*
DCB Decachlorobiphenyl	*186*	*S1+*	*37 - 121*	*09/24/24 07:33*	*10/04/24 11:26*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17000**		21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:01	1
Antimony	<2.1		2.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:01	1
Arsenic	**19**		5.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Barium	**290**		5.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Beryllium	**4.1**		2.1		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Cadmium	<1.0		1.0		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Calcium	**92000**		100		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Chromium	**200**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:01	1
Cobalt	**9.8**		0.52		mg/Kg	☼	09/24/24 09:43	09/26/24 18:01	1
Copper	**140**		5.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Iron	**110000**		100		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Lead	**110**		2.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Magnesium	**10000**		10		mg/Kg	☼	09/24/24 09:43	09/26/24 18:01	1
Manganese	**9500**		5.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Nickel	**70**		5.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Potassium	**1100**		52		mg/Kg	☼	09/24/24 09:43	09/26/24 18:01	1
Selenium	<5.2		5.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Silver	**2.9**		2.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Sodium	**830**		100		mg/Kg	☼	09/24/24 09:43	09/26/24 18:01	1
Thallium	**21**		5.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Vanadium	**78**		2.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:09	5
Zinc	**250**		2.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:01	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**		0.018		mg/Kg	☼	09/26/24 17:42	09/27/24 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.23		0.23		mg/Kg	☼	09/22/24 10:15	09/22/24 14:02	1
Sulfide (SW846 9034)	**60**		33		mg/Kg	☼	09/18/24 14:21	09/18/24 14:24	1
pH (SW846 9045D)	**7.11**		0.20		SU			09/18/24 15:16	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB81 (7.5-10)
Lab Sample ID: 500-256578-2
Date Collected: 09/11/24 08:30
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 88.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00091		0.0023	0.00091	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
1,1,2-Trichloroethane	<0.00084		0.0023	0.00084	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
1,1-Dichloroethane	<0.00085		0.0023	0.00085	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
1,1-Dichloroethene	<0.00093		0.0023	0.00093	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
1,2-Dichloroethane	<0.0015		0.0056	0.0015	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
1,2-Dichloropropane	<0.00058		0.0023	0.00058	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
2-Butanone (MEK)	<0.0025		0.0056	0.0025	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Acetone	<0.0094		0.023	0.0094	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Benzene	<0.00071		0.0023	0.00071	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Bromodichloromethane	<0.00072		0.0023	0.00072	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Bromomethane	<0.0028		0.0056	0.0028	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Carbon disulfide	**0.0019**	**J**	0.0056	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Carbon tetrachloride	<0.00077		0.0023	0.00077	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Chlorobenzene	<0.00095		0.0023	0.00095	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Chloroform	<0.0016		0.0023	0.0016	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
cis-1,2-Dichloroethene	<0.00091		0.0023	0.00091	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Dibromochloromethane	<0.0010		0.0023	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Methyl tert-butyl ether	<0.00073		0.0023	0.00073	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Toluene	<0.00045		0.0023	0.00045	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Xylenes, Total	<0.00077		0.0045	0.00077	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
trans-1,2-Dichloroethene	<0.00085		0.0023	0.00085	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Trichloroethene	<0.00061		0.0023	0.00061	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1
Vinyl chloride	<0.00092		0.0023	0.00092	mg/Kg	☼	09/12/24 18:44	09/14/24 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*09/12/24 18:44*	*09/14/24 11:39*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*	*09/12/24 18:44*	*09/14/24 11:39*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/12/24 18:44*	*09/14/24 11:39*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*09/12/24 18:44*	*09/14/24 11:39*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.036	0.0075	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Acenaphthylene	<0.0062		0.036	0.0062	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Anthracene	<0.0075		0.036	0.0075	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Benzo[a]anthracene	<0.0078		0.036	0.0078	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Benzo[a]pyrene	<0.035	*3	0.036	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Benzo[b]fluoranthene	<0.035	*3	0.036	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Benzo[g,h,i]perylene	<0.0080	*3	0.036	0.0080	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB81 (7.5-10)
Lab Sample ID: 500-256578-2
Date Collected: 09/11/24 08:30
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 88.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.014	*3	0.036	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Chrysene	<0.0097		0.036	0.0097	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Dibenz(a,h)anthracene	<0.036	*3	0.036	0.036	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Fluoranthene	<0.0085		0.036	0.0085	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Fluorene	<0.011		0.036	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Indeno[1,2,3-cd]pyrene	<0.036	*3	0.036	0.036	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Naphthalene	<0.0066		0.036	0.0066	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Phenanthrene	**0.010**	**J**	0.036	0.0080	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Pyrene	<0.010		0.036	0.010	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
1,3-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2,4-Dimethylphenol	<0.082		0.36	0.082	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2-Methylnaphthalene	<0.0074		0.074	0.0074	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
4-Chloroaniline	<0.38		0.74	0.38	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Dimethyl phthalate	<0.0080		0.18	0.0080	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Di-n-octyl phthalate	<0.26		0.36	0.26	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1

Client Sample ID: SB81 (7.5-10)
Lab Sample ID: 500-256578-2
Date Collected: 09/11/24 08:30
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 88.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Nitrobenzene	<0.012		0.036	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
N-Nitrosodi-n-propylamine	<0.0072		0.074	0.0072	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Pentachlorophenol	<0.092		0.74	0.092	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*75*		*31 - 166*	*09/23/24 11:09*	*09/24/24 11:55*	*1*
Phenol-d5 (Surr)	*73*		*30 - 153*	*09/23/24 11:09*	*09/24/24 11:55*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*09/23/24 11:09*	*09/24/24 11:55*	*1*
2-Fluorobiphenyl (Surr)	*75*		*43 - 145*	*09/23/24 11:09*	*09/24/24 11:55*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*31 - 143*	*09/23/24 11:09*	*09/24/24 11:55*	*1*
Terphenyl-d14 (Surr)	*75*		*42 - 157*	*09/23/24 11:09*	*09/24/24 11:55*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
4,4'-DDE	<0.0096		0.019	0.0096	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
4,4'-DDT	<0.0089		0.019	0.0089	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Chlordane (technical)	<0.035		0.074	0.035	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Endrin	<0.0095		0.019	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Endrin ketone	<0.0091		0.019	0.0091	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
gamma-BHC (Lindane)	<0.0093		0.019	0.0093	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Methoxychlor	<0.012		0.092	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/24/24 07:33	10/02/24 13:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*33 - 148*	*09/24/24 07:33*	*10/02/24 13:45*	*10*
Tetrachloro-m-xylene	*54*		*30 - 121*	*09/24/24 07:33*	*10/02/24 13:45*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	*+	0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:12	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:12	10

Client Sample ID: SB81 (7.5-10)
Lab Sample ID: 500-256578-2
Date Collected: 09/11/24 08:30
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 88.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:12	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:12	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:12	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:12	10
PCB-1260	<0.18	*+	0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:12	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*40*	*S1-*	*49 - 129*	*09/24/24 07:33*	*10/04/24 12:12*	*10*
DCB Decachlorobiphenyl	*86*		*37 - 121*	*09/24/24 07:33*	*10/04/24 12:12*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22000**		19		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Antimony	<1.9		1.9		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Arsenic	**3.4**		0.96		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Barium	**210**		0.96		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Beryllium	**3.8**		0.38		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Cadmium	<0.19		0.19		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Calcium	**130000**		96		mg/Kg	☼	09/24/24 09:43	09/27/24 17:13	5
Chromium	**5.3**		0.96		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Cobalt	**0.58**		0.48		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Copper	**6.0**		0.96		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Iron	**7300**		19		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Lead	**3.5**		0.48		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Magnesium	**9900**		9.6		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Manganese	**3500**		4.8		mg/Kg	☼	09/24/24 09:43	09/27/24 17:13	5
Nickel	**6.5**		0.96		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Potassium	**1500**		48		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Selenium	**2.3**		0.96		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Silver	<2.4		2.4		mg/Kg	☼	09/24/24 09:43	09/27/24 17:13	5
Sodium	**740**		96		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Thallium	**7.2**		4.8		mg/Kg	☼	09/24/24 09:43	09/27/24 17:13	5
Vanadium	**9.6**		0.48		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1
Zinc	**20**		1.9		mg/Kg	☼	09/24/24 09:43	09/26/24 18:06	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/26/24 17:42	09/27/24 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**36**		2.7		mg/Kg	☼	09/22/24 10:15	09/23/24 10:22	10
pH (SW846 9045D)	**8.71**		0.20		SU			09/18/24 15:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB82 (0-3)
Lab Sample ID: 500-256578-3
Date Collected: 09/11/24 09:49
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 89.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00088		0.0022	0.00088	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
1,1-Dichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
1,1-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
2-Butanone (MEK)	<0.0024		0.0054	0.0024	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0054	0.0039	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Acetone	<0.0091		0.022	0.0091	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Benzene	<0.00068		0.0022	0.00068	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Bromodichloromethane	<0.00070		0.0022	0.00070	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Bromomethane	<0.0027		0.0054	0.0027	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Carbon disulfide	**0.0050**	**J**	0.0054	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Carbon tetrachloride	<0.00074		0.0022	0.00074	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Chlorobenzene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Chloromethane	<0.0011		0.0054	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
cis-1,2-Dichloroethene	<0.00088		0.0022	0.00088	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Methyl tert-butyl ether	<0.00070		0.0022	0.00070	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Styrene	<0.00098		0.0022	0.00098	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Xylenes, Total	<0.00075		0.0043	0.00075	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
trans-1,2-Dichloroethene	<0.00082		0.0022	0.00082	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Trichloroethene	<0.00059		0.0022	0.00059	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1
Vinyl chloride	<0.00089		0.0022	0.00089	mg/Kg	☼	09/12/24 18:44	09/14/24 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/12/24 18:44*	*09/14/24 12:04*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*09/12/24 18:44*	*09/14/24 12:04*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*09/12/24 18:44*	*09/14/24 12:04*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/12/24 18:44*	*09/14/24 12:04*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.036	0.0075	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Acenaphthylene	<0.0062		0.036	0.0062	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Anthracene	**0.019**	**J**	0.036	0.0075	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Benzo[a]anthracene	**0.085**		0.036	0.0078	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Benzo[a]pyrene	**0.093**		0.036	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Benzo[b]fluoranthene	**0.13**		0.036	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Benzo[g,h,i]perylene	**0.086**		0.036	0.0079	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB82 (0-3)
Lab Sample ID: 500-256578-3
Date Collected: 09/11/24 09:49
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 89.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.064**		0.036	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Chrysene	**0.092**		0.036	0.0097	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Fluoranthene	**0.13**		0.036	0.0085	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Fluorene	<0.011		0.036	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Indeno[1,2,3-cd]pyrene	**0.067**		0.036	0.036	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Naphthalene	<0.0066		0.036	0.0066	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Phenanthrene	**0.065**		0.036	0.0080	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Pyrene	**0.12**		0.036	0.010	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
1,3-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2,4-Dimethylphenol	<0.082		0.36	0.082	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2-Methylnaphthalene	<0.0074		0.074	0.0074	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
4-Chloroaniline	<0.38		0.74	0.38	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Dimethyl phthalate	<0.0080		0.18	0.0080	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Di-n-octyl phthalate	<0.26		0.36	0.26	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1

Client Sample ID: SB82 (0-3)
Date Collected: 09/11/24 09:49
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-3
Matrix: Solid
Percent Solids: 89.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Nitrobenzene	<0.012		0.036	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
N-Nitrosodi-n-propylamine	<0.0072		0.074	0.0072	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Pentachlorophenol	<0.092		0.74	0.092	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*67*		*31 - 166*	*09/23/24 11:09*	*09/24/24 16:09*	*1*
Phenol-d5 (Surr)	*66*		*30 - 153*	*09/23/24 11:09*	*09/24/24 16:09*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*09/23/24 11:09*	*09/24/24 16:09*	*1*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/23/24 11:09*	*09/24/24 16:09*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*31 - 143*	*09/23/24 11:09*	*09/24/24 16:09*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*09/23/24 11:09*	*09/24/24 16:09*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
4,4'-DDE	<0.0096		0.019	0.0096	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
4,4'-DDT	<0.0089		0.019	0.0089	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Chlordane (technical)	<0.035		0.074	0.035	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Dieldrin	<0.0098		0.019	0.0098	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Endrin	<0.0095		0.019	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Endrin ketone	<0.0091		0.019	0.0091	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
gamma-BHC (Lindane)	<0.0093		0.019	0.0093	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Methoxychlor	<0.012	*+	0.092	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10
Toxaphene	<0.075		0.19	0.075	mg/Kg	☼	09/24/24 07:33	10/02/24 13:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*164*	*S1+*	*33 - 148*	*09/24/24 07:33*	*10/02/24 13:56*	*10*
Tetrachloro-m-xylene	*74*		*30 - 121*	*09/24/24 07:33*	*10/02/24 13:56*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.37		0.37		mg/Kg	☼	10/09/24 14:48	10/11/24 10:44	20
PCB-1221	<0.37		0.37		mg/Kg	☼	10/09/24 14:48	10/11/24 10:44	20

Client Sample ID: SB82 (0-3)
Date Collected: 09/11/24 09:49
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-3
Matrix: Solid
Percent Solids: 89.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.37		0.37		mg/Kg	☼	10/09/24 14:48	10/11/24 10:44	20
PCB-1242	<0.37		0.37		mg/Kg	☼	10/09/24 14:48	10/11/24 10:44	20
PCB-1248	<0.37		0.37		mg/Kg	☼	10/09/24 14:48	10/11/24 10:44	20
PCB-1254	<0.37		0.37		mg/Kg	☼	10/09/24 14:48	10/11/24 10:44	20
PCB-1260	<0.37		0.37		mg/Kg	☼	10/09/24 14:48	10/11/24 10:44	20
Polychlorinated biphenyls, Total	<0.37		0.37		mg/Kg	☼	10/09/24 14:48	10/11/24 10:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*10/09/24 14:48*	*10/11/24 10:44*	*20*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*10/09/24 14:48*	*10/11/24 10:44*	*20*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**28000**		21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Antimony	<2.1		2.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Arsenic	**5.2**		1.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Barium	**290**		1.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Beryllium	**6.2**		0.42		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Cadmium	**0.59**		0.21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Calcium	**160000**		110		mg/Kg	☼	09/24/24 09:43	09/27/24 17:18	5
Chromium	**29**		1.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Cobalt	**6.6**		0.53		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Copper	**36**		1.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Iron	**25000**		21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Lead	**88**		0.53		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Magnesium	**7800**		11		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Manganese	**4900**		5.3		mg/Kg	☼	09/24/24 09:43	09/27/24 17:18	5
Nickel	**43**		1.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Potassium	**2000**		53		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Selenium	**2.3**		1.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Silver	<2.6		2.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:18	5
Sodium	**1200**		110		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Thallium	**9.5**		5.3		mg/Kg	☼	09/24/24 09:43	09/27/24 17:18	5
Vanadium	**30**		0.53		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1
Zinc	**150**		2.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:10	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**35**		2.4		mg/Kg	☼	09/22/24 10:15	09/23/24 10:27	10
pH (SW846 9045D)	**9.01**		0.20		SU			09/18/24 15:23	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB82 (5-7.5)
Lab Sample ID: 500-256578-4
Date Collected: 09/11/24 10:03
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 74.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0038	0.0015	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0038	0.0019	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
1,1,2-Trichloroethane	<0.0014		0.0038	0.0014	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
1,1-Dichloroethane	<0.0014		0.0038	0.0014	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
1,1-Dichloroethene	<0.0016		0.0038	0.0016	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
1,2-Dichloroethane	<0.0025		0.0095	0.0025	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
1,2-Dichloropropane	<0.00098		0.0038	0.00098	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
2-Butanone (MEK)	<0.0042		0.0095	0.0042	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
2-Hexanone	<0.0058		0.0095	0.0058	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
4-Methyl-2-pentanone (MIBK)	<0.0067		0.0095	0.0067	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Acetone	<0.016		0.038	0.016	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Benzene	<0.0012		0.0038	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Bromodichloromethane	<0.0012		0.0038	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Bromoform	<0.0022		0.0038	0.0022	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Bromomethane	<0.0047		0.0095	0.0047	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Carbon disulfide	<0.0017		0.0095	0.0017	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Carbon tetrachloride	<0.0013		0.0038	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Chlorobenzene	<0.0016		0.0038	0.0016	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Chloroethane	<0.0031		0.0095	0.0031	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Chloroform	<0.0027		0.0038	0.0027	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Chloromethane	<0.0018		0.0095	0.0018	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
cis-1,2-Dichloroethene	<0.0015		0.0038	0.0015	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
1,3-Dichloropropene, Total	<0.0018		0.0038	0.0018	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Dibromochloromethane	<0.0018		0.0038	0.0018	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Ethylbenzene	<0.0020		0.0038	0.0020	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Methyl tert-butyl ether	<0.0012		0.0038	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Methylene Chloride	<0.0041		0.0095	0.0041	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Styrene	<0.0017		0.0038	0.0017	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Tetrachloroethene	<0.0021		0.0038	0.0021	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Toluene	**0.0013**	**J**	0.0038	0.00076	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Xylenes, Total	<0.0013		0.0076	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
trans-1,2-Dichloroethene	<0.0014		0.0038	0.0014	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Trichloroethene	<0.0010		0.0038	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1
Vinyl chloride	<0.0016		0.0038	0.0016	mg/Kg	☼	09/12/24 18:44	09/14/24 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/12/24 18:44*	*09/14/24 12:29*	*1*
4-Bromofluorobenzene (Surr)	*116*		*75 - 131*	*09/12/24 18:44*	*09/14/24 12:29*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*09/12/24 18:44*	*09/14/24 12:29*	*1*
Toluene-d8 (Surr)	*111*		*75 - 124*	*09/12/24 18:44*	*09/14/24 12:29*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0086		0.042	0.0086	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Acenaphthylene	<0.0071		0.042	0.0071	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Anthracene	<0.0086		0.042	0.0086	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Benzo[a]anthracene	<0.0089		0.042	0.0089	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Benzo[a]pyrene	<0.041		0.042	0.041	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Benzo[b]fluoranthene	<0.040		0.042	0.040	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Benzo[g,h,i]perylene	<0.0091		0.042	0.0091	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1

Client Sample ID: SB82 (5-7.5)
Lab Sample ID: 500-256578-4
Date Collected: 09/11/24 10:03
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 74.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.016		0.042	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Chrysene	<0.011		0.042	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Dibenz(a,h)anthracene	<0.042		0.042	0.042	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Fluoranthene	<0.0098		0.042	0.0098	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Fluorene	<0.012		0.042	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Indeno[1,2,3-cd]pyrene	<0.041		0.042	0.041	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Naphthalene	<0.0076		0.042	0.0076	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Phenanthrene	**0.018**	**J**	0.042	0.0092	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Pyrene	<0.011		0.042	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
1,2,4-Trichlorobenzene	<0.030		0.21	0.030	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
1,2-Dichlorobenzene	<0.017		0.21	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
1,3-Dichlorobenzene	<0.019		0.21	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
1,4-Dichlorobenzene	<0.020		0.21	0.020	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2,4,5-Trichlorophenol	<0.016		0.42	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2,4,6-Trichlorophenol	<0.014		0.42	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2,4-Dichlorophenol	<0.015		0.42	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2,4-Dimethylphenol	<0.094		0.42	0.094	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2,4-Dinitrophenol	<0.24		0.85	0.24	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2,4-Dinitrotoluene	<0.024		0.21	0.024	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2,6-Dinitrotoluene	<0.014		0.21	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2-Chloronaphthalene	<0.016		0.21	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2-Chlorophenol	<0.014		0.21	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2-Methylnaphthalene	<0.0085		0.085	0.0085	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2-Methylphenol	<0.022		0.21	0.022	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2-Nitroaniline	<0.023		0.21	0.023	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
2-Nitrophenol	<0.029		0.42	0.029	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
3,3'-Dichlorobenzidine	<0.034		0.21	0.034	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
3 & 4 Methylphenol	<0.031		0.21	0.031	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
3-Nitroaniline	<0.019		0.42	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
4,6-Dinitro-2-methylphenol	<0.24		0.85	0.24	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
4-Bromophenyl phenyl ether	<0.029		0.21	0.029	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
4-Chloro-3-methylphenol	<0.016		0.42	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
4-Chloroaniline	<0.44		0.85	0.44	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
4-Chlorophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
4-Nitroaniline	<0.031		0.42	0.031	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
4-Nitrophenol	<0.16		0.85	0.16	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Bis(2-chloroethoxy)methane	<0.016		0.21	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Bis(2-chloroethyl)ether	<0.019		0.21	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
bis(chloroisopropyl) ether	<0.030		0.21	0.030	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Bis(2-ethylhexyl) phthalate	<0.16		0.21	0.16	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Butyl benzyl phthalate	<0.021		0.21	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Carbazole	<0.017		0.21	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Dibenzofuran	<0.015		0.21	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Diethyl phthalate	<0.019		0.21	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Dimethyl phthalate	<0.0091		0.21	0.0091	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Di-n-butyl phthalate	<0.013		0.21	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Di-n-octyl phthalate	<0.29		0.42	0.29	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Hexachlorobenzene	<0.0081		0.085	0.0081	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Hexachlorobutadiene	<0.024		0.21	0.024	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1

Client Sample ID: SB82 (5-7.5)
Date Collected: 09/11/24 10:03
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-4
Matrix: Solid
Percent Solids: 74.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.45		0.85	0.45	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Hexachloroethane	<0.021		0.21	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Isophorone	<0.022		0.21	0.022	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Nitrobenzene	<0.013		0.042	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
N-Nitrosodi-n-propylamine	<0.0083		0.085	0.0083	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
N-Nitrosodiphenylamine	<0.025		0.21	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Pentachlorophenol	<0.11		0.85	0.11	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1
Phenol	<0.018		0.21	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*79*		*31 - 166*	*09/23/24 11:09*	*09/24/24 16:32*	*1*
Phenol-d5 (Surr)	*81*		*30 - 153*	*09/23/24 11:09*	*09/24/24 16:32*	*1*
Nitrobenzene-d5 (Surr)	*84*		*37 - 147*	*09/23/24 11:09*	*09/24/24 16:32*	*1*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*09/23/24 11:09*	*09/24/24 16:32*	*1*
2,4,6-Tribromophenol (Surr)	*38*		*31 - 143*	*09/23/24 11:09*	*09/24/24 16:32*	*1*
Terphenyl-d14 (Surr)	*85*		*42 - 157*	*09/23/24 11:09*	*09/24/24 16:32*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.012		0.022	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
4,4'-DDE	<0.011		0.022	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
4,4'-DDT	<0.011		0.022	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Aldrin	<0.015		0.022	0.015	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
alpha-BHC	<0.013		0.022	0.013	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
alpha-Chlordane	<0.012		0.022	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
beta-BHC	<0.018		0.022	0.018	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Chlordane (technical)	<0.042		0.089	0.042	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
delta-BHC	<0.011		0.022	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Dieldrin	<0.012		0.022	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Endosulfan I	<0.012		0.022	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Endosulfan II	<0.012		0.022	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Endosulfan sulfate	<0.012		0.022	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Endrin	<0.011		0.022	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Endrin aldehyde	<0.013		0.022	0.013	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Endrin ketone	<0.011		0.022	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
gamma-BHC (Lindane)	<0.011		0.022	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
gamma-Chlordane	<0.013		0.022	0.013	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Heptachlor	<0.012		0.022	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Heptachlor epoxide	<0.012		0.022	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Methoxychlor	<0.015		0.11	0.015	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10
Toxaphene	<0.089		0.22	0.089	mg/Kg	☼	09/24/24 07:33	10/02/24 14:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*129*		*33 - 148*	*09/24/24 07:33*	*10/02/24 14:08*	*10*
Tetrachloro-m-xylene	*69*		*30 - 121*	*09/24/24 07:33*	*10/02/24 14:08*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.22	*+	0.22		mg/Kg	☼	09/24/24 07:33	10/04/24 12:42	10
PCB-1221	<0.22		0.22		mg/Kg	☼	09/24/24 07:33	10/04/24 12:42	10

Client Sample ID: SB82 (5-7.5)
Lab Sample ID: 500-256578-4
Date Collected: 09/11/24 10:03
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 74.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.22		0.22		mg/Kg	☼	09/24/24 07:33	10/04/24 12:42	10
PCB-1242	<0.22		0.22		mg/Kg	☼	09/24/24 07:33	10/04/24 12:42	10
PCB-1248	<0.22		0.22		mg/Kg	☼	09/24/24 07:33	10/04/24 12:42	10
PCB-1254	<0.22		0.22		mg/Kg	☼	09/24/24 07:33	10/04/24 12:42	10
PCB-1260	<0.22	*+	0.22		mg/Kg	☼	09/24/24 07:33	10/04/24 12:42	10
Polychlorinated biphenyls, Total	<0.22		0.22		mg/Kg	☼	09/24/24 07:33	10/04/24 12:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*49 - 129*	*09/24/24 07:33*	*10/04/24 12:42*	*10*
DCB Decachlorobiphenyl	*96*		*37 - 121*	*09/24/24 07:33*	*10/04/24 12:42*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**35000**		25		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Antimony	<2.5		2.5		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Arsenic	**3.2**		1.2		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Barium	**300**		1.2		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Beryllium	**6.9**		0.50		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Cadmium	<0.25		0.25		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Calcium	**210000**		120		mg/Kg	☼	09/24/24 09:43	09/27/24 17:22	5
Chromium	**10**		1.2		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Cobalt	**5.1**		0.62		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Copper	**7.0**		1.2		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Iron	**16000**		25		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Lead	<0.62		0.62		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Magnesium	**12000**		12		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Manganese	**5000**		6.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:22	5
Nickel	**21**		1.2		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Potassium	**1700**		62		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Selenium	**2.7**		1.2		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Silver	<3.1		3.1		mg/Kg	☼	09/24/24 09:43	09/27/24 17:22	5
Sodium	**960**		120		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Thallium	**13**		6.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:22	5
Vanadium	**24**		0.62		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1
Zinc	**13**		2.5		mg/Kg	☼	09/24/24 09:43	09/26/24 18:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.022		0.022		mg/Kg	☼	09/26/24 17:42	09/27/24 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**44**		3.1		mg/Kg	☼	09/22/24 10:15	09/23/24 10:32	10
pH (SW846 9045D)	**9.87**		0.20		SU			09/18/24 15:26	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB83 (0-3)
Lab Sample ID: 500-256578-5
Date Collected: 09/11/24 11:04
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 92.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00076		0.0019	0.00076	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
1,1,2,2-Tetrachloroethane	<0.00093		0.0019	0.00093	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
1,1,2-Trichloroethane	<0.00070		0.0019	0.00070	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
1,1-Dichloroethane	<0.00070		0.0019	0.00070	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
1,1-Dichloroethene	<0.00077		0.0019	0.00077	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
1,2-Dichloroethane	<0.0012		0.0047	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
1,2-Dichloropropane	<0.00048		0.0019	0.00048	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
2-Butanone (MEK)	**0.0041**	**J**	0.0047	0.0021	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
2-Hexanone	<0.0028		0.0047	0.0028	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
4-Methyl-2-pentanone (MIBK)	<0.0033		0.0047	0.0033	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Acetone	**0.028**		0.019	0.0078	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Benzene	<0.00059		0.0019	0.00059	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Bromodichloromethane	<0.00060		0.0019	0.00060	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Bromoform	<0.0011		0.0019	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Bromomethane	<0.0023		0.0047	0.0023	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Carbon disulfide	**0.0067**		0.0047	0.00086	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Carbon tetrachloride	<0.00064		0.0019	0.00064	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Chlorobenzene	<0.00079		0.0019	0.00079	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Chloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Chloroform	<0.0013		0.0019	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Chloromethane	<0.00091		0.0047	0.00091	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
cis-1,2-Dichloroethene	<0.00075		0.0019	0.00075	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
1,3-Dichloropropene, Total	<0.00090		0.0019	0.00090	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Dibromochloromethane	<0.00087		0.0019	0.00087	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Ethylbenzene	<0.00098		0.0019	0.00098	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Methyl tert-butyl ether	<0.00060		0.0019	0.00060	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Methylene Chloride	<0.0020		0.0047	0.0020	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Styrene	<0.00084		0.0019	0.00084	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Tetrachloroethene	<0.0010		0.0019	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Toluene	**0.0011**	**J**	0.0019	0.00038	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Xylenes, Total	**0.00080**	**J**	0.0037	0.00064	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
trans-1,2-Dichloroethene	<0.00071		0.0019	0.00071	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Trichloroethene	<0.00051		0.0019	0.00051	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1
Vinyl chloride	<0.00076		0.0019	0.00076	mg/Kg	☼	09/12/24 18:44	09/14/24 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*09/12/24 18:44*	*09/14/24 12:54*	*1*
4-Bromofluorobenzene (Surr)	*127*		*75 - 131*	*09/12/24 18:44*	*09/14/24 12:54*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/12/24 18:44*	*09/14/24 12:54*	*1*
Toluene-d8 (Surr)	*122*		*75 - 124*	*09/12/24 18:44*	*09/14/24 12:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.014**	**J**	0.069	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Acenaphthylene	**0.049**	**J**	0.069	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Anthracene	**0.063**	**J**	0.069	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Benzo[a]anthracene	**0.24**		0.069	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Benzo[a]pyrene	**0.24**		0.069	0.067	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Benzo[b]fluoranthene	**0.40**		0.069	0.067	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Benzo[g,h,i]perylene	**0.22**		0.069	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB83 (0-3)
Lab Sample ID: 500-256578-5
Date Collected: 09/11/24 11:04
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 92.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.18**		0.069	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Chrysene	**0.31**		0.069	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Dibenz(a,h)anthracene	<0.069		0.069	0.069	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Fluoranthene	**0.47**		0.069	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Fluorene	<0.021		0.069	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Indeno[1,2,3-cd]pyrene	**0.23**		0.069	0.068	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Naphthalene	**0.033**	J	0.069	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Phenanthrene	**0.37**		0.069	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Pyrene	**0.39**		0.069	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
1,2,4-Trichlorobenzene	<0.050		0.35	0.050	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
1,3-Dichlorobenzene	<0.032		0.35	0.032	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2,4,5-Trichlorophenol	<0.026		0.69	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2,4,6-Trichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2,4-Dichlorophenol	<0.025		0.69	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2,4-Dimethylphenol	<0.16		0.69	0.16	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2,4-Dinitrotoluene	<0.040		0.35	0.040	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2-Chlorophenol	<0.023		0.35	0.023	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2-Methylnaphthalene	**0.047**	J	0.14	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2-Methylphenol	<0.037		0.35	0.037	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
2-Nitrophenol	<0.047		0.69	0.047	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
3,3'-Dichlorobenzidine	<0.057		0.35	0.057	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
3-Nitroaniline	<0.032		0.69	0.032	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
4-Bromophenyl phenyl ether	<0.048		0.35	0.048	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
4-Chloro-3-methylphenol	<0.027		0.69	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
4-Chloroaniline	<0.73		1.4	0.73	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
4-Chlorophenyl phenyl ether	<0.092		0.35	0.092	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
4-Nitroaniline	<0.052		0.69	0.052	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Butyl benzyl phthalate	<0.035		0.35	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Carbazole	**0.033**	J	0.35	0.028	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Dibenzofuran	<0.025		0.35	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Di-n-octyl phthalate	<0.49		0.69	0.49	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB83 (0-3)
Lab Sample ID: 500-256578-5
Date Collected: 09/11/24 11:04
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 92.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.74		1.4	0.74	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Nitrobenzene	<0.022		0.069	0.022	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/23/24 11:09	09/24/24 16:57	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*31 - 166*	*09/23/24 11:09*	*09/24/24 16:57*	*2*
Phenol-d5 (Surr)	*51*		*30 - 153*	*09/23/24 11:09*	*09/24/24 16:57*	*2*
Nitrobenzene-d5 (Surr)	*51*		*37 - 147*	*09/23/24 11:09*	*09/24/24 16:57*	*2*
2-Fluorobiphenyl (Surr)	*55*		*43 - 145*	*09/23/24 11:09*	*09/24/24 16:57*	*2*
2,4,6-Tribromophenol (Surr)	*27*	*S1-*	*31 - 143*	*09/23/24 11:09*	*09/24/24 16:57*	*2*
Terphenyl-d14 (Surr)	*56*		*42 - 157*	*09/23/24 11:09*	*09/24/24 16:57*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
4,4'-DDE	<0.0092		0.018	0.0092	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
alpha-Chlordane	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
delta-BHC	<0.0085		0.018	0.0085	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Dieldrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Endosulfan I	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Endosulfan sulfate	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Endrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Heptachlor	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Heptachlor epoxide	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Methoxychlor	<0.012	*+	0.087	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/24/24 07:33	10/02/24 14:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*297*	*S1+*	*33 - 148*	*09/24/24 07:33*	*10/02/24 14:19*	*10*
Tetrachloro-m-xylene	*89*		*30 - 121*	*09/24/24 07:33*	*10/02/24 14:19*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	*+	0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:58	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:58	10

Client Sample ID: SB83 (0-3)
Lab Sample ID: 500-256578-5

Date Collected: 09/11/24 11:04
Matrix: Solid

Date Received: 09/12/24 12:06
Percent Solids: 92.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:58	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:58	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:58	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:58	10
PCB-1260	<0.18	*+	0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:58	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 12:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*49 - 129*	*09/24/24 07:33*	*10/04/24 12:58*	*10*
DCB Decachlorobiphenyl	*156*	*S1+*	*37 - 121*	*09/24/24 07:33*	*10/04/24 12:58*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**23000**		18		mg/Kg	☼	09/24/24 09:43	09/26/24 18:29	1
Antimony	<1.8		1.8		mg/Kg	☼	09/24/24 09:43	09/26/24 18:29	1
Arsenic	**10**		4.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Barium	**410**		4.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Beryllium	**4.6**		1.8		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Cadmium	**1.9**		0.92		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Calcium	**150000**		92		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Chromium	**150**		0.92		mg/Kg	☼	09/24/24 09:43	09/26/24 18:29	1
Cobalt	**6.4**		0.46		mg/Kg	☼	09/24/24 09:43	09/26/24 18:29	1
Copper	**64**		4.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Iron	**70000**		92		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Lead	**130**		2.3		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Magnesium	**12000**		9.2		mg/Kg	☼	09/24/24 09:43	09/26/24 18:29	1
Manganese	**21000**		4.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Nickel	**33**		4.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Potassium	**1600**		46		mg/Kg	☼	09/24/24 09:43	09/26/24 18:29	1
Selenium	**7.0**		4.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Silver	<2.3		2.3		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Sodium	**840**		92		mg/Kg	☼	09/24/24 09:43	09/26/24 18:29	1
Thallium	**40**		4.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Vanadium	**92**		2.3		mg/Kg	☼	09/24/24 09:43	09/27/24 17:27	5
Zinc	**500**		1.8		mg/Kg	☼	09/24/24 09:43	09/26/24 18:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**9.9**		2.5		mg/Kg	☼	09/22/24 10:15	09/23/24 10:37	10
pH (SW846 9045D)	**9.81**		0.20		SU			09/18/24 15:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB83 (3-5)
Date Collected: 09/11/24 11:10
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-6
Matrix: Solid
Percent Solids: 93.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00089		0.0022	0.00089	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
1,1,2-Trichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
1,1-Dichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
1,1-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
1,2-Dichloroethane	<0.0014		0.0055	0.0014	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
2-Hexanone	<0.0033		0.0055	0.0033	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0055	0.0039	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Acetone	**0.011**	**J**	0.022	0.0092	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Benzene	<0.00069		0.0022	0.00069	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Bromodichloromethane	<0.00071		0.0022	0.00071	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Bromomethane	<0.0027		0.0055	0.0027	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Carbon disulfide	**0.0055**		0.0055	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Carbon tetrachloride	<0.00075		0.0022	0.00075	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Chlorobenzene	<0.00093		0.0022	0.00093	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Chloroethane	<0.0018		0.0055	0.0018	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
cis-1,2-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Methyl tert-butyl ether	<0.00071		0.0022	0.00071	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Methylene Chloride	<0.0024		0.0055	0.0024	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Styrene	<0.00099		0.0022	0.00099	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Xylenes, Total	<0.00075		0.0044	0.00075	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
trans-1,2-Dichloroethene	<0.00083		0.0022	0.00083	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Trichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1
Vinyl chloride	<0.00090		0.0022	0.00090	mg/Kg	☼	09/12/24 18:44	09/14/24 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*09/12/24 18:44*	*09/14/24 13:18*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*09/12/24 18:44*	*09/14/24 13:18*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*09/12/24 18:44*	*09/14/24 13:18*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/12/24 18:44*	*09/14/24 13:18*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.014		0.067	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Acenaphthylene	**0.042**	**J**	0.067	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Anthracene	**0.043**	**J**	0.067	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Benzo[a]anthracene	**0.17**		0.067	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Benzo[a]pyrene	**0.21**		0.067	0.065	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Benzo[b]fluoranthene	**0.35**		0.067	0.064	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Benzo[g,h,i]perylene	**0.20**		0.067	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB83 (3-5)
Lab Sample ID: 500-256578-6
Date Collected: 09/11/24 11:10
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 93.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.12**		0.067	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Chrysene	**0.27**		0.067	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Dibenz(a,h)anthracene	<0.067		0.067	0.067	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Fluoranthene	**0.31**		0.067	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Fluorene	<0.020		0.067	0.020	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Indeno[1,2,3-cd]pyrene	**0.19**		0.067	0.066	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Naphthalene	<0.012		0.067	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Phenanthrene	**0.27**		0.067	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Pyrene	**0.29**		0.067	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
1,2,4-Trichlorobenzene	<0.048		0.34	0.048	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
1,2-Dichlorobenzene	<0.027		0.34	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
1,3-Dichlorobenzene	<0.030		0.34	0.030	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
1,4-Dichlorobenzene	<0.032		0.34	0.032	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2,4,5-Trichlorophenol	<0.025		0.67	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2,4,6-Trichlorophenol	<0.023		0.67	0.023	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2,4-Dichlorophenol	<0.024		0.67	0.024	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2,4-Dimethylphenol	<0.15		0.67	0.15	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2,4-Dinitrophenol	<0.39		1.4	0.39	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2,4-Dinitrotoluene	<0.038		0.34	0.038	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2,6-Dinitrotoluene	<0.023		0.34	0.023	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2-Chloronaphthalene	<0.025		0.34	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2-Chlorophenol	<0.022		0.34	0.022	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2-Methylnaphthalene	**0.041**	**J**	0.14	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2-Methylphenol	<0.035		0.34	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2-Nitroaniline	<0.036		0.34	0.036	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
2-Nitrophenol	<0.046		0.67	0.046	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
3,3'-Dichlorobenzidine	<0.055		0.34	0.055	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
3 & 4 Methylphenol	<0.049		0.34	0.049	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
3-Nitroaniline	<0.031		0.67	0.031	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
4,6-Dinitro-2-methylphenol	<0.38		1.4	0.38	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
4-Bromophenyl phenyl ether	<0.046		0.34	0.046	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
4-Chloro-3-methylphenol	<0.026		0.67	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
4-Chloroaniline	<0.71		1.4	0.71	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
4-Chlorophenyl phenyl ether	<0.088		0.34	0.088	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
4-Nitroaniline	<0.050		0.67	0.050	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
4-Nitrophenol	<0.25		1.4	0.25	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Bis(2-chloroethoxy)methane	<0.025		0.34	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Bis(2-chloroethyl)ether	<0.031		0.34	0.031	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
bis(chloroisopropyl) ether	<0.048		0.34	0.048	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Bis(2-ethylhexyl) phthalate	<0.26		0.34	0.26	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Butyl benzyl phthalate	<0.033		0.34	0.033	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Carbazole	<0.027		0.34	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Dibenzofuran	<0.024		0.34	0.024	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Diethyl phthalate	<0.031		0.34	0.031	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Dimethyl phthalate	<0.015		0.34	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Di-n-butyl phthalate	<0.021		0.34	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Di-n-octyl phthalate	<0.47		0.67	0.47	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Hexachlorobutadiene	<0.038		0.34	0.038	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2

Client Sample ID: SB83 (3-5)
Date Collected: 09/11/24 11:10
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-6
Matrix: Solid
Percent Solids: 93.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.71		1.4	0.71	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Hexachloroethane	<0.034		0.34	0.034	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Isophorone	<0.035		0.34	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Nitrobenzene	<0.021		0.067	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
N-Nitrosodi-n-propylamine	<0.013		0.14	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
N-Nitrosodiphenylamine	<0.040		0.34	0.040	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2
Phenol	<0.029		0.34	0.029	mg/Kg	☼	09/23/24 11:09	09/24/24 17:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*51*		*31 - 166*	*09/23/24 11:09*	*09/24/24 17:21*	*2*
Phenol-d5 (Surr)	*62*		*30 - 153*	*09/23/24 11:09*	*09/24/24 17:21*	*2*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*09/23/24 11:09*	*09/24/24 17:21*	*2*
2-Fluorobiphenyl (Surr)	*64*		*43 - 145*	*09/23/24 11:09*	*09/24/24 17:21*	*2*
2,4,6-Tribromophenol (Surr)	*16*	*S1-*	*31 - 143*	*09/23/24 11:09*	*09/24/24 17:21*	*2*
Terphenyl-d14 (Surr)	*77*		*42 - 157*	*09/23/24 11:09*	*09/24/24 17:21*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
4,4'-DDE	<0.0088		0.017	0.0088	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
4,4'-DDT	<0.0081		0.017	0.0081	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
alpha-BHC	<0.0096		0.017	0.0096	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
alpha-Chlordane	<0.0091		0.017	0.0091	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Chlordane (technical)	<0.032		0.068	0.032	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
delta-BHC	<0.0082		0.017	0.0082	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Dieldrin	<0.0089		0.017	0.0089	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Endosulfan I	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Endosulfan II	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Endosulfan sulfate	<0.0094		0.017	0.0094	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Endrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Endrin aldehyde	<0.0097		0.017	0.0097	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Endrin ketone	<0.0083		0.017	0.0083	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
gamma-BHC (Lindane)	<0.0085		0.017	0.0085	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
gamma-Chlordane	<0.0098		0.017	0.0098	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Heptachlor	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Heptachlor epoxide	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Methoxychlor	<0.011	*+	0.084	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10
Toxaphene	<0.068		0.17	0.068	mg/Kg	☼	09/24/24 07:33	10/02/24 14:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*117*		*33 - 148*	*09/24/24 07:33*	*10/02/24 14:31*	*10*
Tetrachloro-m-xylene	*94*		*30 - 121*	*09/24/24 07:33*	*10/02/24 14:31*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	*+	0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:13	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:13	10

Client Sample ID: SB83 (3-5)
Lab Sample ID: 500-256578-6
Date Collected: 09/11/24 11:10
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 93.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:13	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:13	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:13	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:13	10
PCB-1260	<0.17	*+	0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:13	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*49 - 129*	*09/24/24 07:33*	*10/04/24 13:13*	*10*
DCB Decachlorobiphenyl	*133*	*S1+*	*37 - 121*	*09/24/24 07:33*	*10/04/24 13:13*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		19		mg/Kg	☼	09/24/24 09:43	09/26/24 18:33	1
Antimony	<1.9		1.9		mg/Kg	☼	09/24/24 09:43	09/26/24 18:33	1
Arsenic	**7.0**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Barium	**610**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Beryllium	**3.3**		1.9		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Cadmium	**1.3**		0.95		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Calcium	**180000**		95		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Chromium	**720**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Cobalt	**2.7**		0.47		mg/Kg	☼	09/24/24 09:43	09/26/24 18:33	1
Copper	**37**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Iron	**84000**		95		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Lead	**67**		2.4		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Magnesium	**39000**		9.5		mg/Kg	☼	09/24/24 09:43	09/26/24 18:33	1
Manganese	**27000**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Nickel	**16**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Potassium	**1100**		47		mg/Kg	☼	09/24/24 09:43	09/26/24 18:33	1
Selenium	**9.7**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Silver	<2.4		2.4		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Sodium	**490**		95		mg/Kg	☼	09/24/24 09:43	09/26/24 18:33	1
Thallium	**50**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Vanadium	**200**		2.4		mg/Kg	☼	09/24/24 09:43	09/27/24 17:31	5
Zinc	**340**		1.9		mg/Kg	☼	09/24/24 09:43	09/26/24 18:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**8.8**		1.1		mg/Kg	☼	09/22/24 10:15	09/23/24 10:41	5
pH (SW846 9045D)	**9.72**		0.20		SU			09/18/24 15:31	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB84 (0-3)
Lab Sample ID: 500-256578-7
Date Collected: 09/11/24 12:18
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 91.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00094		0.0023	0.00094	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0023	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
1,1,2-Trichloroethane	<0.00087		0.0023	0.00087	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
1,1-Dichloroethane	<0.00088		0.0023	0.00088	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
1,1-Dichloroethene	<0.00096		0.0023	0.00096	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
1,2-Dichloroethane	<0.0015		0.0058	0.0015	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
1,2-Dichloropropane	<0.00060		0.0023	0.00060	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
2-Butanone (MEK)	<0.0026		0.0058	0.0026	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
2-Hexanone	<0.0035		0.0058	0.0035	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0058	0.0041	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Acetone	<0.0098		0.023	0.0098	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Benzene	<0.00073		0.0023	0.00073	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Bromodichloromethane	<0.00075		0.0023	0.00075	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Bromoform	<0.0014		0.0023	0.0014	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Bromomethane	<0.0029		0.0058	0.0029	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Carbon disulfide	**0.0047**	**J**	0.0058	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Carbon tetrachloride	<0.00079		0.0023	0.00079	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Chlorobenzene	<0.00098		0.0023	0.00098	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Chloroethane	<0.0019		0.0058	0.0019	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Chloroform	<0.0017		0.0023	0.0017	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Chloromethane	<0.0011		0.0058	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
cis-1,2-Dichloroethene	<0.00094		0.0023	0.00094	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Methyl tert-butyl ether	<0.00075		0.0023	0.00075	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Methylene Chloride	<0.0025		0.0058	0.0025	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Toluene	<0.00047		0.0023	0.00047	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Xylenes, Total	<0.00080		0.0046	0.00080	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
trans-1,2-Dichloroethene	<0.00088		0.0023	0.00088	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Trichloroethene	<0.00063		0.0023	0.00063	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1
Vinyl chloride	<0.00095		0.0023	0.00095	mg/Kg	☼	09/12/24 18:44	09/14/24 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*09/12/24 18:44*	*09/14/24 13:43*	*1*
4-Bromofluorobenzene (Surr)	*121*		*75 - 131*	*09/12/24 18:44*	*09/14/24 13:43*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*09/12/24 18:44*	*09/14/24 13:43*	*1*
Toluene-d8 (Surr)	*110*		*75 - 124*	*09/12/24 18:44*	*09/14/24 13:43*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0074		0.036	0.0074	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Acenaphthylene	<0.0061		0.036	0.0061	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Anthracene	<0.0074		0.036	0.0074	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Benzo[a]anthracene	**0.027**	**J**	0.036	0.0077	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Benzo[a]pyrene	<0.035		0.036	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Benzo[b]fluoranthene	**0.056**		0.036	0.034	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Benzo[g,h,i]perylene	**0.039**		0.036	0.0078	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB84 (0-3)
Lab Sample ID: 500-256578-7
Date Collected: 09/11/24 12:18
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 91.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.014		0.036	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Chrysene	**0.052**		0.036	0.0095	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Fluoranthene	**0.036**		0.036	0.0084	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Fluorene	<0.011		0.036	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Indeno[1,2,3-cd]pyrene	<0.035		0.036	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Naphthalene	<0.0065		0.036	0.0065	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Phenanthrene	**0.044**		0.036	0.0079	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Pyrene	**0.032**	**J**	0.036	0.0099	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2,4-Dimethylphenol	<0.081		0.36	0.081	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2-Methylnaphthalene	<0.0073		0.073	0.0073	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
3-Nitroaniline	<0.016		0.36	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Dimethyl phthalate	<0.0079		0.18	0.0079	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Hexachlorobenzene	<0.0069		0.073	0.0069	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1

Client Sample ID: SB84 (0-3)
Date Collected: 09/11/24 12:18
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-7
Matrix: Solid
Percent Solids: 91.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.73	0.38	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
N-Nitrosodi-n-propylamine	<0.0071		0.073	0.0071	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Pentachlorophenol	<0.090		0.73	0.090	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*36*		*31 - 166*	*09/23/24 11:09*	*09/24/24 17:45*	*1*
Phenol-d5 (Surr)	*40*		*30 - 153*	*09/23/24 11:09*	*09/24/24 17:45*	*1*
Nitrobenzene-d5 (Surr)	*35*	*S1-*	*37 - 147*	*09/23/24 11:09*	*09/24/24 17:45*	*1*
2-Fluorobiphenyl (Surr)	*44*		*43 - 145*	*09/23/24 11:09*	*09/24/24 17:45*	*1*
2,4,6-Tribromophenol (Surr)	*50*		*31 - 143*	*09/23/24 11:09*	*09/24/24 17:45*	*1*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*09/23/24 11:09*	*09/24/24 17:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
alpha-BHC	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Methoxychlor	<0.012	*+	0.086	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/24/24 07:33	10/02/24 16:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*137*		*33 - 148*	*09/24/24 07:33*	*10/02/24 16:40*	*10*
Tetrachloro-m-xylene	*74*		*30 - 121*	*09/24/24 07:33*	*10/02/24 16:40*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	*+	0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:28	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:28	10

Client Sample ID: SB84 (0-3)
Lab Sample ID: 500-256578-7
Date Collected: 09/11/24 12:18
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 91.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:28	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:28	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:28	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:28	10
PCB-1260	<0.17	*+	0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:28	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*49 - 129*	*09/24/24 07:33*	*10/04/24 13:28*	*10*
DCB Decachlorobiphenyl	*109*		*37 - 121*	*09/24/24 07:33*	*10/04/24 13:28*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**24000**		20		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Antimony	<2.0		2.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Arsenic	**5.6**		0.98		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Barium	**300**		0.98		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Beryllium	**3.5**		0.39		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Cadmium	**2.5**		0.20		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Calcium	**170000**		98		mg/Kg	☼	09/24/24 09:43	09/27/24 17:45	5
Chromium	**87**		0.98		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Cobalt	**2.0**		0.49		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Copper	**120**		4.9		mg/Kg	☼	09/24/24 09:43	09/27/24 17:45	5
Iron	**33000**		20		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Lead	**550**		0.49		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Magnesium	**12000**		9.8		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Manganese	**10000**		4.9		mg/Kg	☼	09/24/24 09:43	09/27/24 17:45	5
Nickel	**16**		0.98		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Potassium	**1600**		49		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Selenium	**3.5**		0.98		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Silver	<2.5		2.5		mg/Kg	☼	09/24/24 09:43	09/27/24 17:45	5
Sodium	**860**		98		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Thallium	**24**		4.9		mg/Kg	☼	09/24/24 09:43	09/27/24 17:45	5
Vanadium	**71**		0.49		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1
Zinc	**1700**		2.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.8**		1.2		mg/Kg	☼	09/22/24 10:15	09/23/24 11:48	5
pH (SW846 9045D)	**10.03**		0.20		SU			09/18/24 15:33	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB84 (5-7.5)
Lab Sample ID: 500-256578-8
Date Collected: 09/11/24 12:30
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 91.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0025	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0025	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
1,1,2-Trichloroethane	<0.00095		0.0025	0.00095	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
1,1-Dichloroethane	<0.00096		0.0025	0.00096	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
1,1-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
1,2-Dichloroethane	<0.0016		0.0064	0.0016	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
1,2-Dichloropropane	<0.00066		0.0025	0.00066	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
2-Butanone (MEK)	<0.0028		0.0064	0.0028	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
2-Hexanone	<0.0039		0.0064	0.0039	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0064	0.0045	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Acetone	<0.011		0.025	0.011	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Benzene	<0.00080		0.0025	0.00080	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Bromodichloromethane	<0.00082		0.0025	0.00082	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Bromoform	<0.0015		0.0025	0.0015	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Bromomethane	<0.0031		0.0064	0.0031	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Carbon disulfide	**0.0053**	**J**	0.0064	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Carbon tetrachloride	<0.00087		0.0025	0.00087	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Chlorobenzene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Chloroethane	<0.0021		0.0064	0.0021	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Chloroform	<0.0018		0.0025	0.0018	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Chloromethane	<0.0012		0.0064	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
cis-1,2-Dichloroethene	<0.0010		0.0025	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
1,3-Dichloropropene, Total	<0.0012		0.0025	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Dibromochloromethane	<0.0012		0.0025	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Ethylbenzene	<0.0013		0.0025	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Methyl tert-butyl ether	<0.00082		0.0025	0.00082	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Methylene Chloride	<0.0027		0.0064	0.0027	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Styrene	<0.0011		0.0025	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Tetrachloroethene	<0.0014		0.0025	0.0014	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Toluene	<0.00051		0.0025	0.00051	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Xylenes, Total	<0.00087		0.0051	0.00087	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
trans-1,2-Dichloroethene	<0.00096		0.0025	0.00096	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Trichloroethene	<0.00069		0.0025	0.00069	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1
Vinyl chloride	<0.0010		0.0025	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*09/12/24 18:44*	*09/14/24 14:08*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*09/12/24 18:44*	*09/14/24 14:08*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*09/12/24 18:44*	*09/14/24 14:08*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/12/24 18:44*	*09/14/24 14:08*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.035	0.0072	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Acenaphthylene	<0.0060		0.035	0.0060	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Anthracene	<0.0072		0.035	0.0072	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Benzo[a]anthracene	<0.0075		0.035	0.0075	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Benzo[a]pyrene	<0.034		0.035	0.034	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Benzo[b]fluoranthene	<0.034		0.035	0.034	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Benzo[g,h,i]perylene	**0.014**	**J**	0.035	0.0076	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB84 (5-7.5)
Lab Sample ID: 500-256578-8
Date Collected: 09/11/24 12:30
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 91.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.035	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Chrysene	**0.032**	**J**	0.035	0.0093	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Fluoranthene	**0.034**	**J**	0.035	0.0082	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Indeno[1,2,3-cd]pyrene	<0.034		0.035	0.034	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Naphthalene	**0.0086**	**J**	0.035	0.0064	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Phenanthrene	**0.045**		0.035	0.0077	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Pyrene	**0.024**	**J**	0.035	0.0096	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2,4-Dimethylphenol	<0.079		0.35	0.079	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2,4-Dinitrophenol	<0.20		0.71	0.20	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2-Methylnaphthalene	**0.019**	**J**	0.071	0.0071	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
4,6-Dinitro-2-methylphenol	<0.20		0.71	0.20	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
4-Chloroaniline	<0.37		0.71	0.37	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
4-Nitrophenol	<0.13		0.71	0.13	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Dimethyl phthalate	<0.0076		0.18	0.0076	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Hexachlorobenzene	<0.0067		0.071	0.0067	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1

Client Sample ID: SB84 (5-7.5)
Date Collected: 09/11/24 12:30
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-8
Matrix: Solid
Percent Solids: 91.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.71	0.37	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
N-Nitrosodi-n-propylamine	<0.0069		0.071	0.0069	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Pentachlorophenol	<0.088		0.71	0.088	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*31*		*31 - 166*	*09/23/24 11:09*	*09/24/24 18:10*	*1*
Phenol-d5 (Surr)	*37*		*30 - 153*	*09/23/24 11:09*	*09/24/24 18:10*	*1*
Nitrobenzene-d5 (Surr)	*32*	*S1-*	*37 - 147*	*09/23/24 11:09*	*09/24/24 18:10*	*1*
2-Fluorobiphenyl (Surr)	*41*	*S1-*	*43 - 145*	*09/23/24 11:09*	*09/24/24 18:10*	*1*
2,4,6-Tribromophenol (Surr)	*47*		*31 - 143*	*09/23/24 11:09*	*09/24/24 18:10*	*1*
Terphenyl-d14 (Surr)	*69*		*42 - 157*	*09/23/24 11:09*	*09/24/24 18:10*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Endosulfan sulfate	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Methoxychlor	<0.012	*+	0.087	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/24/24 07:33	10/02/24 16:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*133*		*33 - 148*	*09/24/24 07:33*	*10/02/24 16:52*	*10*
Tetrachloro-m-xylene	*98*		*30 - 121*	*09/24/24 07:33*	*10/02/24 16:52*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	*+	0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:44	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:44	10

Client Sample ID: SB84 (5-7.5)
Lab Sample ID: 500-256578-8
Date Collected: 09/11/24 12:30
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 91.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:44	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:44	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:44	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:44	10
PCB-1260	<0.17	*+	0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:44	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 13:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*49 - 129*	*09/24/24 07:33*	*10/04/24 13:44*	*10*
DCB Decachlorobiphenyl	*106*		*37 - 121*	*09/24/24 07:33*	*10/04/24 13:44*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**26000**		21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Antimony	<2.1		2.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Arsenic	**4.7**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Barium	**280**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Beryllium	**3.9**		0.41		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Cadmium	**1.2**		0.21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Calcium	**190000**		100		mg/Kg	☼	09/24/24 09:43	09/27/24 17:50	5
Chromium	**91**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Cobalt	**0.71**		0.51		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Copper	**51**		5.1		mg/Kg	☼	09/24/24 09:43	09/27/24 17:50	5
Iron	**31000**		21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Lead	**92**		0.51		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Magnesium	**12000**		10		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Manganese	**15000**		5.1		mg/Kg	☼	09/24/24 09:43	09/27/24 17:50	5
Nickel	**11**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Potassium	**1500**		51		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Selenium	**5.0**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Silver	<2.6		2.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:50	5
Sodium	**920**		100		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Thallium	**29**		5.1		mg/Kg	☼	09/24/24 09:43	09/27/24 17:50	5
Vanadium	**110**		0.51		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1
Zinc	**840**		2.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.037**		0.016		mg/Kg	☼	09/26/24 17:42	09/27/24 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**8.1**		1.2		mg/Kg	☼	09/22/24 10:15	09/23/24 10:48	5
pH (SW846 9045D)	**9.92**		0.20		SU			09/18/24 15:36	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB85 (0-3)
Lab Sample ID: 500-256578-9
Date Collected: 09/11/24 13:17
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 89.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00096		0.0024	0.00096	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
1,1,2-Trichloroethane	<0.00088		0.0024	0.00088	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
1,1-Dichloroethane	<0.00089		0.0024	0.00089	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
1,1-Dichloroethene	<0.00097		0.0024	0.00097	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
1,2-Dichloroethane	<0.0015		0.0059	0.0015	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
1,2-Dichloropropane	<0.00061		0.0024	0.00061	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
2-Butanone (MEK)	<0.0026		0.0059	0.0026	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
2-Hexanone	<0.0036		0.0059	0.0036	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0059	0.0042	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Acetone	<0.0099		0.024	0.0099	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Benzene	<0.00074		0.0024	0.00074	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Bromodichloromethane	<0.00076		0.0024	0.00076	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Bromomethane	<0.0029		0.0059	0.0029	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Carbon disulfide	**0.0048**	**J**	0.0059	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Carbon tetrachloride	<0.00080		0.0024	0.00080	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Chloroethane	<0.0019		0.0059	0.0019	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Chloroform	<0.0017		0.0024	0.0017	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Chloromethane	<0.0011		0.0059	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
cis-1,2-Dichloroethene	<0.00095		0.0024	0.00095	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
1,3-Dichloropropene, Total	<0.0011		0.0024	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Ethylbenzene	<0.0012		0.0024	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Methyl tert-butyl ether	<0.00076		0.0024	0.00076	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Methylene Chloride	<0.0025		0.0059	0.0025	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Styrene	<0.0011		0.0024	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Tetrachloroethene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Toluene	<0.00047		0.0024	0.00047	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Xylenes, Total	<0.00081		0.0047	0.00081	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
trans-1,2-Dichloroethene	<0.00089		0.0024	0.00089	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Trichloroethene	<0.00064		0.0024	0.00064	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1
Vinyl chloride	<0.00096		0.0024	0.00096	mg/Kg	☼	09/12/24 18:44	09/14/24 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/12/24 18:44*	*09/14/24 14:33*	*1*
4-Bromofluorobenzene (Surr)	*121*		*75 - 131*	*09/12/24 18:44*	*09/14/24 14:33*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*09/12/24 18:44*	*09/14/24 14:33*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*09/12/24 18:44*	*09/14/24 14:33*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.035	0.0072	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Acenaphthylene	<0.0060		0.035	0.0060	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Anthracene	**0.011**	**J**	0.035	0.0072	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Benzo[a]anthracene	**0.039**		0.035	0.0075	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Benzo[a]pyrene	**0.039**		0.035	0.034	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Benzo[b]fluoranthene	**0.071**		0.035	0.034	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Benzo[g,h,i]perylene	**0.040**		0.035	0.0077	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB85 (0-3)
Lab Sample ID: 500-256578-9
Date Collected: 09/11/24 13:17
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.035	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Chrysene	**0.058**		0.035	0.0094	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Fluoranthene	**0.065**		0.035	0.0082	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Naphthalene	<0.0064		0.035	0.0064	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Phenanthrene	**0.20**		0.035	0.0077	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Pyrene	**0.067**		0.035	0.0097	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2,4-Dichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2,4-Dimethylphenol	<0.079		0.35	0.079	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2,4-Dinitrophenol	<0.21		0.72	0.21	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2-Methylnaphthalene	**0.043**	**J**	0.072	0.0071	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
4,6-Dinitro-2-methylphenol	<0.20		0.72	0.20	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
4-Chloroaniline	<0.37		0.72	0.37	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
4-Nitrophenol	<0.13		0.72	0.13	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Dibenzofuran	**0.014**	**J**	0.18	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Hexachlorobenzene	<0.0068		0.072	0.0068	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1

Client Sample ID: SB85 (0-3)
Lab Sample ID: 500-256578-9
Date Collected: 09/11/24 13:17
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.72	0.38	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
N-Nitrosodi-n-propylamine	<0.0070		0.072	0.0070	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Pentachlorophenol	<0.089		0.72	0.089	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*57*		*31 - 166*	*09/23/24 11:09*	*09/24/24 18:34*	*1*
Phenol-d5 (Surr)	*66*		*30 - 153*	*09/23/24 11:09*	*09/24/24 18:34*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*09/23/24 11:09*	*09/24/24 18:34*	*1*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*09/23/24 11:09*	*09/24/24 18:34*	*1*
2,4,6-Tribromophenol (Surr)	*7*	*S1-*	*31 - 143*	*09/23/24 11:09*	*09/24/24 18:34*	*1*
Terphenyl-d14 (Surr)	*76*		*42 - 157*	*09/23/24 11:09*	*09/24/24 18:34*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
4,4'-DDE	<0.0093		0.018	0.0093	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
4,4'-DDT	<0.0086		0.018	0.0086	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
alpha-Chlordane	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Chlordane (technical)	<0.034		0.072	0.034	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
delta-BHC	<0.0087		0.018	0.0087	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Dieldrin	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Endosulfan I	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Endosulfan II	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Endrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Endrin ketone	<0.0088		0.018	0.0088	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
gamma-BHC (Lindane)	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Heptachlor	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Heptachlor epoxide	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Methoxychlor	<0.012	*+	0.089	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/24/24 07:33	10/02/24 17:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*118*		*33 - 148*	*09/24/24 07:33*	*10/02/24 17:03*	*10*
Tetrachloro-m-xylene	*54*		*30 - 121*	*09/24/24 07:33*	*10/02/24 17:03*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	*+	0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 13:59	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 13:59	10

Client Sample ID: SB85 (0-3)
Lab Sample ID: 500-256578-9
Date Collected: 09/11/24 13:17
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 89.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 13:59	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 13:59	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 13:59	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 13:59	10
PCB-1260	<0.18	*+	0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 13:59	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 13:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*09/24/24 07:33*	*10/04/24 13:59*	*10*
DCB Decachlorobiphenyl	*87*		*37 - 121*	*09/24/24 07:33*	*10/04/24 13:59*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**29000**		21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Antimony	<2.1		2.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Arsenic	**2.8**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Barium	**290**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Beryllium	**5.0**		0.42		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Cadmium	<0.21		0.21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Calcium	**210000**		100		mg/Kg	☼	09/24/24 09:43	09/27/24 17:54	5
Chromium	**7.6**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Cobalt	**0.99**		0.52		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Copper	**8.6**		5.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:54	5
Iron	**29000**		21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Lead	**6.2**		0.52		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Magnesium	**12000**		10		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Manganese	**2900**		5.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:54	5
Nickel	**4.3**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Potassium	**1200**		52		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Selenium	**3.0**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Silver	<2.6		2.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:54	5
Sodium	**700**		100		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Thallium	<1.0		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Vanadium	**12**		0.52		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1
Zinc	**34**		2.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017	F1 F2	0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**7.6**		1.3		mg/Kg	☼	09/22/24 10:15	09/23/24 10:52	5
pH (SW846 9045D)	**11.26**		0.20		SU			09/18/24 15:41	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB85 (10-12.5)
Lab Sample ID: 500-256578-10
Date Collected: 09/11/24 13:48
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 89.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00079		0.0020	0.00079	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
1,1,2,2-Tetrachloroethane	<0.00097		0.0020	0.00097	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
1,1,2-Trichloroethane	<0.00073		0.0020	0.00073	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
1,1-Dichloroethane	<0.00073		0.0020	0.00073	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
1,1-Dichloroethene	<0.00080		0.0020	0.00080	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
1,2-Dichloroethane	<0.0013		0.0049	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
1,2-Dichloropropane	<0.00050		0.0020	0.00050	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
2-Butanone (MEK)	<0.0021		0.0049	0.0021	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
2-Hexanone	<0.0030		0.0049	0.0030	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0049	0.0035	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Acetone	<0.0082		0.020	0.0082	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Benzene	<0.00061		0.0020	0.00061	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Bromodichloromethane	<0.00063		0.0020	0.00063	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Bromoform	<0.0011		0.0020	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Bromomethane	<0.0024		0.0049	0.0024	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Carbon disulfide	**0.0033**	**J**	0.0049	0.00090	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Carbon tetrachloride	<0.00066		0.0020	0.00066	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Chlorobenzene	<0.00082		0.0020	0.00082	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Chloroethane	<0.0016		0.0049	0.0016	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Chloromethane	<0.00095		0.0049	0.00095	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
cis-1,2-Dichloroethene	<0.00079		0.0020	0.00079	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
1,3-Dichloropropene, Total	<0.00094		0.0020	0.00094	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Dibromochloromethane	<0.00090		0.0020	0.00090	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Ethylbenzene	<0.0010		0.0020	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Methyl tert-butyl ether	<0.00063		0.0020	0.00063	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Methylene Chloride	<0.0021		0.0049	0.0021	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Styrene	<0.00088		0.0020	0.00088	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Toluene	<0.00039		0.0020	0.00039	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Xylenes, Total	<0.00067		0.0039	0.00067	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
trans-1,2-Dichloroethene	<0.00074		0.0020	0.00074	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Trichloroethene	<0.00053		0.0020	0.00053	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1
Vinyl chloride	<0.00080		0.0020	0.00080	mg/Kg	☼	09/12/24 18:44	09/14/24 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*09/12/24 18:44*	*09/14/24 14:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*09/12/24 18:44*	*09/14/24 14:57*	*1*
Dibromofluoromethane	*57*	*S1-*	*75 - 126*	*09/12/24 18:44*	*09/14/24 14:57*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*09/12/24 18:44*	*09/14/24 14:57*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0074		0.036	0.0074	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Acenaphthylene	<0.0062		0.036	0.0062	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Anthracene	<0.0075		0.036	0.0075	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Benzo[a]anthracene	<0.0078		0.036	0.0078	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Benzo[a]pyrene	<0.035		0.036	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Benzo[b]fluoranthene	<0.035		0.036	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Benzo[g,h,i]perylene	<0.0079		0.036	0.0079	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB85 (10-12.5)
Lab Sample ID: 500-256578-10
Date Collected: 09/11/24 13:48
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 89.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.014		0.036	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Chrysene	<0.0097		0.036	0.0097	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Fluoranthene	<0.0085		0.036	0.0085	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Fluorene	<0.011		0.036	0.011	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.036	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Naphthalene	<0.0066		0.036	0.0066	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Phenanthrene	<0.0080		0.036	0.0080	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Pyrene	<0.010		0.036	0.010	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
1,3-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2,4-Dimethylphenol	<0.082		0.36	0.082	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2-Methylnaphthalene	<0.0073		0.074	0.0073	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
4-Chloroaniline	<0.38		0.74	0.38	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Dimethyl phthalate	<0.0080		0.18	0.0080	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Di-n-octyl phthalate	<0.26		0.36	0.26	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB85 (10-12.5)
Lab Sample ID: 500-256578-10
Date Collected: 09/11/24 13:48
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 89.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Nitrobenzene	<0.012		0.036	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
N-Nitrosodi-n-propylamine	<0.0072		0.074	0.0072	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Pentachlorophenol	<0.092		0.74	0.092	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1
Phenol	**0.037**	**J**	0.18	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*44*		*31 - 166*	*09/23/24 11:09*	*09/24/24 18:58*	*1*
Phenol-d5 (Surr)	*71*		*30 - 153*	*09/23/24 11:09*	*09/24/24 18:58*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*09/23/24 11:09*	*09/24/24 18:58*	*1*
2-Fluorobiphenyl (Surr)	*76*		*43 - 145*	*09/23/24 11:09*	*09/24/24 18:58*	*1*
2,4,6-Tribromophenol (Surr)	*32*		*31 - 143*	*09/23/24 11:09*	*09/24/24 18:58*	*1*
Terphenyl-d14 (Surr)	*93*		*42 - 157*	*09/23/24 11:09*	*09/24/24 18:58*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0099		0.019	0.0099	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
4,4'-DDE	<0.0095		0.019	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
4,4'-DDT	<0.0087		0.019	0.0087	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
delta-BHC	<0.0088		0.019	0.0088	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Dieldrin	<0.0096		0.019	0.0096	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Endrin	<0.0094		0.019	0.0094	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Heptachlor epoxide	<0.0099		0.019	0.0099	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Methoxychlor	<0.012	*+	0.091	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/24/24 07:33	10/02/24 17:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*113*		*33 - 148*	*09/24/24 07:33*	*10/02/24 17:15*	*10*
Tetrachloro-m-xylene	*66*		*30 - 121*	*09/24/24 07:33*	*10/02/24 17:15*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	*+	0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:14	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:14	10

Client Sample ID: SB85 (10-12.5)
Lab Sample ID: 500-256578-10
Date Collected: 09/11/24 13:48
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 89.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:14	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:14	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:14	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:14	10
PCB-1260	<0.18	*+	0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:14	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*49*		*49 - 129*	*09/24/24 07:33*	*10/04/24 14:14*	*10*
DCB Decachlorobiphenyl	*89*		*37 - 121*	*09/24/24 07:33*	*10/04/24 14:14*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**25000**		21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Antimony	<2.1		2.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Arsenic	**2.7**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Barium	**240**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Beryllium	**4.1**		0.42		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Cadmium	<0.21		0.21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Calcium	**260000**		100		mg/Kg	☼	09/24/24 09:43	09/27/24 17:59	5
Chromium	**130**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Cobalt	<0.52		0.52		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Copper	<5.2		5.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:59	5
Iron	**51000**		21		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Lead	<0.52		0.52		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Magnesium	**19000**		10		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Manganese	**19000**		5.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:59	5
Nickel	**3.1**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Potassium	**1500**		52		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Selenium	**7.0**		1.0		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Silver	<2.6		2.6		mg/Kg	☼	09/24/24 09:43	09/27/24 17:59	5
Sodium	**840**		100		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Thallium	**36**		5.2		mg/Kg	☼	09/24/24 09:43	09/27/24 17:59	5
Vanadium	**140**		0.52		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1
Zinc	<2.1		2.1		mg/Kg	☼	09/24/24 09:43	09/26/24 18:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/26/24 17:42	09/27/24 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**12**		1.3		mg/Kg	☼	09/22/24 10:15	09/23/24 11:00	5
pH (SW846 9045D)	**12.45**		0.20		SU			09/18/24 12:45	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB86 (0-3)
Lab Sample ID: 500-256578-11

Date Collected: 09/11/24 14:37
Matrix: Solid

Date Received: 09/12/24 12:06
Percent Solids: 94.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00097		0.0024	0.00097	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
1,1,2-Trichloroethane	<0.00090		0.0024	0.00090	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
1,1-Dichloroethane	<0.00091		0.0024	0.00091	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
1,1-Dichloroethene	<0.00099		0.0024	0.00099	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
1,2-Dichloroethane	<0.0016		0.0060	0.0016	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
1,2-Dichloropropane	<0.00062		0.0024	0.00062	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
2-Butanone (MEK)	<0.0026		0.0060	0.0026	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
2-Hexanone	<0.0037		0.0060	0.0037	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0060	0.0043	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Acetone	**0.012**	**J**	0.024	0.010	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Benzene	<0.00076		0.0024	0.00076	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Bromodichloromethane	<0.00077		0.0024	0.00077	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Bromomethane	<0.0030		0.0060	0.0030	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Carbon disulfide	**0.0047**	**J**	0.0060	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Carbon tetrachloride	<0.00082		0.0024	0.00082	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Chloroethane	<0.0020		0.0060	0.0020	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Chloroform	<0.0017		0.0024	0.0017	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Chloromethane	<0.0012		0.0060	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
cis-1,2-Dichloroethene	<0.00097		0.0024	0.00097	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
1,3-Dichloropropene, Total	<0.0012		0.0024	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Ethylbenzene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Methyl tert-butyl ether	<0.00078		0.0024	0.00078	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Methylene Chloride	<0.0026		0.0060	0.0026	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Styrene	<0.0011		0.0024	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Tetrachloroethene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Toluene	<0.00048		0.0024	0.00048	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Xylenes, Total	<0.00082		0.0048	0.00082	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
trans-1,2-Dichloroethene	<0.00091		0.0024	0.00091	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Trichloroethene	<0.00065		0.0024	0.00065	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1
Vinyl chloride	<0.00098		0.0024	0.00098	mg/Kg	☼	09/12/24 18:44	09/14/24 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*09/12/24 18:44*	*09/14/24 15:22*	*1*
4-Bromofluorobenzene (Surr)	*115*		*75 - 131*	*09/12/24 18:44*	*09/14/24 15:22*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*09/12/24 18:44*	*09/14/24 15:22*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/12/24 18:44*	*09/14/24 15:22*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.024**	**J**	0.068	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Acenaphthylene	**0.045**	**J**	0.068	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Anthracene	**0.084**		0.068	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Benzo[a]anthracene	**0.33**		0.068	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Benzo[a]pyrene	**0.33**		0.068	0.066	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Benzo[b]fluoranthene	**0.62**		0.068	0.065	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Benzo[g,h,i]perylene	**0.29**		0.068	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB86 (0-3)
Lab Sample ID: 500-256578-11
Date Collected: 09/11/24 14:37
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 94.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.19**		0.068	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Chrysene	**0.40**		0.068	0.018	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Dibenz(a,h)anthracene	**0.081**		0.068	0.068	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Fluoranthene	**0.77**		0.068	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Fluorene	<0.020		0.068	0.020	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Indeno[1,2,3-cd]pyrene	**0.29**		0.068	0.066	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Naphthalene	<0.012		0.068	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Phenanthrene	**0.37**		0.068	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Pyrene	**0.61**		0.068	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
1,2,4-Trichlorobenzene	<0.049		0.34	0.049	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
1,2-Dichlorobenzene	<0.028		0.34	0.028	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
1,3-Dichlorobenzene	<0.031		0.34	0.031	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
1,4-Dichlorobenzene	<0.032		0.34	0.032	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2,4,5-Trichlorophenol	<0.026		0.68	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2,4,6-Trichlorophenol	<0.023		0.68	0.023	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2,4-Dichlorophenol	<0.024		0.68	0.024	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2,4-Dimethylphenol	<0.15		0.68	0.15	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2,4-Dinitrophenol	<0.39		1.4	0.39	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2,4-Dinitrotoluene	<0.039		0.34	0.039	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2,6-Dinitrotoluene	<0.023		0.34	0.023	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2-Chloronaphthalene	<0.025		0.34	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2-Chlorophenol	<0.022		0.34	0.022	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2-Methylnaphthalene	<0.014		0.14	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2-Methylphenol	<0.036		0.34	0.036	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2-Nitroaniline	<0.037		0.34	0.037	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
2-Nitrophenol	<0.046		0.68	0.046	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
3,3'-Dichlorobenzidine	<0.056		0.34	0.056	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
3 & 4 Methylphenol	<0.050		0.34	0.050	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
3-Nitroaniline	<0.031		0.68	0.031	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
4,6-Dinitro-2-methylphenol	<0.38		1.4	0.38	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
4-Bromophenyl phenyl ether	<0.047		0.34	0.047	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
4-Chloro-3-methylphenol	<0.027		0.68	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
4-Chloroaniline	<0.72		1.4	0.72	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
4-Chlorophenyl phenyl ether	<0.089		0.34	0.089	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
4-Nitroaniline	<0.050		0.68	0.050	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
4-Nitrophenol	<0.25		1.4	0.25	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Bis(2-chloroethoxy)methane	<0.025		0.34	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Bis(2-chloroethyl)ether	<0.031		0.34	0.031	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
bis(chloroisopropyl) ether	<0.049		0.34	0.049	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Bis(2-ethylhexyl) phthalate	<0.27		0.34	0.27	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Butyl benzyl phthalate	<0.034		0.34	0.034	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Carbazole	**0.044**	**J**	0.34	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Dibenzofuran	<0.024		0.34	0.024	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Diethyl phthalate	<0.031		0.34	0.031	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Dimethyl phthalate	<0.015		0.34	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Di-n-butyl phthalate	<0.022		0.34	0.022	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Di-n-octyl phthalate	<0.48		0.68	0.48	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Hexachlorobutadiene	<0.038		0.34	0.038	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2

Client Sample ID: SB86 (0-3)
Date Collected: 09/11/24 14:37
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-11
Matrix: Solid
Percent Solids: 94.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.72		1.4	0.72	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Hexachloroethane	<0.034		0.34	0.034	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Isophorone	<0.035		0.34	0.035	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Nitrobenzene	<0.022		0.068	0.022	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
N-Nitrosodi-n-propylamine	<0.013		0.14	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
N-Nitrosodiphenylamine	<0.040		0.34	0.040	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2
Phenol	<0.030		0.34	0.030	mg/Kg	☼	09/23/24 11:09	09/24/24 19:22	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*51*		*31 - 166*	*09/23/24 11:09*	*09/24/24 19:22*	*2*
Phenol-d5 (Surr)	*62*		*30 - 153*	*09/23/24 11:09*	*09/24/24 19:22*	*2*
Nitrobenzene-d5 (Surr)	*61*		*37 - 147*	*09/23/24 11:09*	*09/24/24 19:22*	*2*
2-Fluorobiphenyl (Surr)	*64*		*43 - 145*	*09/23/24 11:09*	*09/24/24 19:22*	*2*
2,4,6-Tribromophenol (Surr)	*15*	*S1-*	*31 - 143*	*09/23/24 11:09*	*09/24/24 19:22*	*2*
Terphenyl-d14 (Surr)	*67*		*42 - 157*	*09/23/24 11:09*	*09/24/24 19:22*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0091		0.017	0.0091	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
4,4'-DDE	<0.0087		0.017	0.0087	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
4,4'-DDT	<0.0080		0.017	0.0080	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
alpha-BHC	<0.0095		0.017	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
alpha-Chlordane	<0.0090		0.017	0.0090	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Chlordane (technical)	<0.032		0.067	0.032	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
delta-BHC	<0.0081		0.017	0.0081	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Dieldrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Endosulfan I	<0.0091		0.017	0.0091	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Endosulfan II	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Endosulfan sulfate	<0.0094		0.017	0.0094	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Endrin	<0.0086		0.017	0.0086	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Endrin aldehyde	<0.0096		0.017	0.0096	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Endrin ketone	<0.0082		0.017	0.0082	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
gamma-BHC (Lindane)	<0.0084		0.017	0.0084	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
gamma-Chlordane	<0.0097		0.017	0.0097	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Heptachlor	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Heptachlor epoxide	<0.0091		0.017	0.0091	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Methoxychlor	<0.011	*+	0.083	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10
Toxaphene	<0.068		0.17	0.068	mg/Kg	☼	09/24/24 07:33	10/02/24 17:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*267*	*S1+*	*33 - 148*	*09/24/24 07:33*	*10/02/24 17:27*	*10*
Tetrachloro-m-xylene	*79*		*30 - 121*	*09/24/24 07:33*	*10/02/24 17:27*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	*+	0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 14:30	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 14:30	10

Client Sample ID: SB86 (0-3)
Lab Sample ID: 500-256578-11

Date Collected: 09/11/24 14:37
Matrix: Solid

Date Received: 09/12/24 12:06
Percent Solids: 94.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 14:30	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 14:30	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 14:30	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 14:30	10
PCB-1260	<0.17	*+	0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 14:30	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 07:33	10/04/24 14:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*49 - 129*	*09/24/24 07:33*	*10/04/24 14:30*	*10*
DCB Decachlorobiphenyl	*144*	*S1+*	*37 - 121*	*09/24/24 07:33*	*10/04/24 14:30*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		19		mg/Kg	☼	09/24/24 09:43	09/26/24 18:57	1
Antimony	<1.9		1.9		mg/Kg	☼	09/24/24 09:43	09/26/24 18:57	1
Arsenic	**43**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Barium	**270**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Beryllium	**2.7**		1.9		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Cadmium	**7.9**		0.94		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Calcium	**130000**		94		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Chromium	**300**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Cobalt	**11**		0.47		mg/Kg	☼	09/24/24 09:43	09/26/24 18:57	1
Copper	**300**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Iron	**110000**		94		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Lead	**610**		2.3		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Magnesium	**28000**		9.4		mg/Kg	☼	09/24/24 09:43	09/26/24 18:57	1
Manganese	**6300**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Nickel	**160**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Potassium	**950**		47		mg/Kg	☼	09/24/24 09:43	09/26/24 18:57	1
Selenium	<4.7		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Silver	**3.5**		2.3		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Sodium	**600**		94		mg/Kg	☼	09/24/24 09:43	09/26/24 18:57	1
Thallium	**15**		4.7		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Vanadium	**62**		2.3		mg/Kg	☼	09/24/24 09:43	09/27/24 18:03	5
Zinc	**1600**		1.9		mg/Kg	☼	09/24/24 09:43	09/26/24 18:57	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.57**		0.016		mg/Kg	☼	09/26/24 17:42	09/27/24 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**8.3**		1.3		mg/Kg	☼	09/22/24 10:15	09/23/24 11:05	5
pH (SW846 9045D)	**9.57**		0.20		SU			09/18/24 12:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB86 (7.5-10)
Lab Sample ID: 500-256578-12
Date Collected: 09/11/24 14:50
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 90.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0026	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0026	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
1,1,2-Trichloroethane	<0.00099		0.0026	0.00099	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
1,1-Dichloroethane	<0.0010		0.0026	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
1,1-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
1,2-Dichloroethane	<0.0017		0.0066	0.0017	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
1,2-Dichloropropane	<0.00068		0.0026	0.00068	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
2-Butanone (MEK)	<0.0029		0.0066	0.0029	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
2-Hexanone	<0.0040		0.0066	0.0040	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0066	0.0047	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Acetone	**0.011**	**J**	0.026	0.011	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Benzene	<0.00083		0.0026	0.00083	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Bromodichloromethane	<0.00085		0.0026	0.00085	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Bromoform	<0.0015		0.0026	0.0015	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Bromomethane	<0.0033		0.0066	0.0033	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Carbon disulfide	**0.0046**	**J**	0.0066	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Carbon tetrachloride	<0.00090		0.0026	0.00090	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Chlorobenzene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Chloroethane	<0.0022		0.0066	0.0022	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Chloroform	<0.0019		0.0026	0.0019	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Chloromethane	<0.0013		0.0066	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
cis-1,2-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
1,3-Dichloropropene, Total	<0.0013		0.0026	0.0013	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Dibromochloromethane	<0.0012		0.0026	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Ethylbenzene	<0.0014		0.0026	0.0014	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Methyl tert-butyl ether	<0.00085		0.0026	0.00085	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Methylene Chloride	<0.0028		0.0066	0.0028	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Styrene	<0.0012		0.0026	0.0012	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Tetrachloroethene	<0.0015		0.0026	0.0015	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Toluene	<0.00053		0.0026	0.00053	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Xylenes, Total	<0.00091		0.0053	0.00091	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
trans-1,2-Dichloroethene	<0.0010		0.0026	0.0010	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Trichloroethene	<0.00072		0.0026	0.00072	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1
Vinyl chloride	<0.0011		0.0026	0.0011	mg/Kg	☼	09/12/24 18:44	09/14/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/12/24 18:44*	*09/14/24 15:47*	*1*
4-Bromofluorobenzene (Surr)	*118*		*75 - 131*	*09/12/24 18:44*	*09/14/24 15:47*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*09/12/24 18:44*	*09/14/24 15:47*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*09/12/24 18:44*	*09/14/24 15:47*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.21**		0.072	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Acenaphthylene	**0.051**	**J**	0.072	0.012	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Anthracene	**0.54**		0.072	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Benzo[a]anthracene	**2.0**		0.072	0.015	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Benzo[a]pyrene	**2.2**		0.072	0.070	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Benzo[b]fluoranthene	**2.9**		0.072	0.069	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Benzo[g,h,i]perylene	**1.7**		0.072	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB86 (7.5-10)
Lab Sample ID: 500-256578-12
Date Collected: 09/11/24 14:50
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 90.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.2**		0.072	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Chrysene	**2.2**		0.072	0.019	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Dibenz(a,h)anthracene	**0.38**		0.072	0.072	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Fluoranthene	**4.0**		0.072	0.017	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Fluorene	**0.16**		0.072	0.021	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Indeno[1,2,3-cd]pyrene	**1.6**		0.072	0.070	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Naphthalene	**0.053**	**J**	0.072	0.013	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Phenanthrene	**2.0**		0.072	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Pyrene	**3.6**		0.072	0.020	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
1,2,4-Trichlorobenzene	<0.052		0.36	0.052	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
1,3-Dichlorobenzene	<0.033		0.36	0.033	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2,4,5-Trichlorophenol	<0.027		0.72	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2,4,6-Trichlorophenol	<0.025		0.72	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2,4-Dichlorophenol	<0.025		0.72	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2,4-Dimethylphenol	<0.16		0.72	0.16	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2,6-Dinitrotoluene	<0.025		0.36	0.025	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2-Methylnaphthalene	**0.027**	**J**	0.15	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2-Nitroaniline	<0.039		0.36	0.039	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
2-Nitrophenol	<0.049		0.72	0.049	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
3,3'-Dichlorobenzidine	<0.059		0.36	0.059	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
3 & 4 Methylphenol	<0.053		0.36	0.053	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
3-Nitroaniline	<0.033		0.72	0.033	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
4-Chloro-3-methylphenol	<0.028		0.72	0.028	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
4-Chloroaniline	<0.76		1.5	0.76	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
4-Chlorophenyl phenyl ether	<0.095		0.36	0.095	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
4-Nitroaniline	<0.053		0.72	0.053	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
bis(chloroisopropyl) ether	<0.052		0.36	0.052	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Carbazole	**0.29**	**J**	0.36	0.028	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Dibenzofuran	**0.083**	**J**	0.36	0.026	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Di-n-octyl phthalate	<0.50		0.72	0.50	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Hexachlorobutadiene	<0.041		0.36	0.041	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2

Client Sample ID: SB86 (7.5-10)
Date Collected: 09/11/24 14:50
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-12
Matrix: Solid
Percent Solids: 90.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.77		1.5	0.77	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Nitrobenzene	<0.023		0.072	0.023	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
N-Nitrosodiphenylamine	<0.043		0.36	0.043	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	09/23/24 11:09	09/24/24 19:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*60*		*31 - 166*	*09/23/24 11:09*	*09/24/24 19:47*	*2*
Phenol-d5 (Surr)	*63*		*30 - 153*	*09/23/24 11:09*	*09/24/24 19:47*	*2*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*09/23/24 11:09*	*09/24/24 19:47*	*2*
2-Fluorobiphenyl (Surr)	*64*		*43 - 145*	*09/23/24 11:09*	*09/24/24 19:47*	*2*
2,4,6-Tribromophenol (Surr)	*40*		*31 - 143*	*09/23/24 11:09*	*09/24/24 19:47*	*2*
Terphenyl-d14 (Surr)	*72*		*42 - 157*	*09/23/24 11:09*	*09/24/24 19:47*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0099		0.019	0.0099	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
4,4'-DDE	<0.0095		0.019	0.0095	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
delta-BHC	<0.0088		0.019	0.0088	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Endrin	<0.0094		0.019	0.0094	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Methoxychlor	<0.012	*+	0.091	0.012	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/24/24 07:33	10/02/24 17:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*566*	*S1+*	*33 - 148*	*09/24/24 07:33*	*10/02/24 17:38*	*10*
Tetrachloro-m-xylene	*81*		*30 - 121*	*09/24/24 07:33*	*10/02/24 17:38*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	*+	0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:45	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:45	10

Client Sample ID: SB86 (7.5-10)
Lab Sample ID: 500-256578-12

Date Collected: 09/11/24 14:50
Matrix: Solid

Date Received: 09/12/24 12:06
Percent Solids: 90.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:45	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:45	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:45	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:45	10
PCB-1260	<0.18	*+	0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:45	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/24/24 07:33	10/04/24 14:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*49 - 129*	*09/24/24 07:33*	*10/04/24 14:45*	*10*
DCB Decachlorobiphenyl	*307*	*S1+*	*37 - 121*	*09/24/24 07:33*	*10/04/24 14:45*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20000**		22		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Antimony	<2.2		2.2		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Arsenic	**4.9**		1.1		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Barium	**190**		1.1		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Beryllium	**3.0**		0.44		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Cadmium	**1.1**		0.22		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Calcium	**130000**		110		mg/Kg	☼	09/24/24 09:43	09/27/24 18:08	5
Chromium	**88**		1.1		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Cobalt	**2.6**		0.55		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Copper	**94**		5.5		mg/Kg	☼	09/24/24 09:43	09/27/24 18:08	5
Iron	**28000**		22		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Lead	**140**		0.55		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Magnesium	**14000**		11		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Manganese	**5000**		5.5		mg/Kg	☼	09/24/24 09:43	09/27/24 18:08	5
Nickel	**27**		1.1		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Potassium	**1400**		55		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Selenium	**2.2**		1.1		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Silver	<2.8		2.8		mg/Kg	☼	09/24/24 09:43	09/27/24 18:08	5
Sodium	**840**		110		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Thallium	**10**		5.5		mg/Kg	☼	09/24/24 09:43	09/27/24 18:08	5
Vanadium	**45**		0.55		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1
Zinc	**240**		2.2		mg/Kg	☼	09/24/24 09:43	09/26/24 19:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.057**		0.017		mg/Kg	☼	09/26/24 17:42	09/27/24 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**15**		1.2		mg/Kg	☼	09/22/24 10:15	09/23/24 11:25	5
Sulfide (SW846 9034)	**440**		33		mg/Kg	☼	09/18/24 14:21	09/18/24 14:24	1
pH (SW846 9045D)	**9.83**		0.20		SU			09/18/24 12:57	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 785854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	5035	
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	5035	
500-256578-3	SB82 (0-3)	Total/NA	Solid	5035	
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	5035	
500-256578-5	SB83 (0-3)	Total/NA	Solid	5035	
500-256578-6	SB83 (3-5)	Total/NA	Solid	5035	
500-256578-7	SB84 (0-3)	Total/NA	Solid	5035	
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	5035	
500-256578-9	SB85 (0-3)	Total/NA	Solid	5035	
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	5035	
500-256578-11	SB86 (0-3)	Total/NA	Solid	5035	
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	5035	

Analysis Batch: 786066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	8260D	785854
500-256578-3	SB82 (0-3)	Total/NA	Solid	8260D	785854
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	8260D	785854
500-256578-5	SB83 (0-3)	Total/NA	Solid	8260D	785854
500-256578-6	SB83 (3-5)	Total/NA	Solid	8260D	785854
500-256578-7	SB84 (0-3)	Total/NA	Solid	8260D	785854
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	8260D	785854
500-256578-9	SB85 (0-3)	Total/NA	Solid	8260D	785854
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	8260D	785854
500-256578-11	SB86 (0-3)	Total/NA	Solid	8260D	785854
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	8260D	785854
MB 500-786066/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-786066/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-786066/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 786325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	8260D	785854
MB 500-786325/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-786325/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-786325/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 787300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	3546	
500-256578-3	SB82 (0-3)	Total/NA	Solid	3546	
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	3546	
500-256578-5	SB83 (0-3)	Total/NA	Solid	3546	
500-256578-6	SB83 (3-5)	Total/NA	Solid	3546	
500-256578-7	SB84 (0-3)	Total/NA	Solid	3546	
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	3546	
500-256578-9	SB85 (0-3)	Total/NA	Solid	3546	
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	3546	
500-256578-11	SB86 (0-3)	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 787300 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	3546	
MB 500-787300/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-787300/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 787451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	8270E	787300
MB 500-787300/1-A	Method Blank	Total/NA	Solid	8270E	787300
LCS 500-787300/2-A	Lab Control Sample	Total/NA	Solid	8270E	787300

Prep Batch: 787492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	3546	
MB 500-787492/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-787492/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 787529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-3	SB82 (0-3)	Total/NA	Solid	8270E	787300
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	8270E	787300
500-256578-5	SB83 (0-3)	Total/NA	Solid	8270E	787300
500-256578-6	SB83 (3-5)	Total/NA	Solid	8270E	787300
500-256578-7	SB84 (0-3)	Total/NA	Solid	8270E	787300
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	8270E	787300
500-256578-9	SB85 (0-3)	Total/NA	Solid	8270E	787300
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	8270E	787300
500-256578-11	SB86 (0-3)	Total/NA	Solid	8270E	787300
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	8270E	787300

Analysis Batch: 787639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-787492/1-A	Method Blank	Total/NA	Solid	8270E	787492
LCS 500-787492/2-A	Lab Control Sample	Total/NA	Solid	8270E	787492

Analysis Batch: 787846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	8270E	787492

GC Semi VOA

Prep Batch: 787435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	3541	
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	3541	
500-256578-3	SB82 (0-3)	Total/NA	Solid	3541	
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	3541	
500-256578-5	SB83 (0-3)	Total/NA	Solid	3541	
500-256578-6	SB83 (3-5)	Total/NA	Solid	3541	
500-256578-7	SB84 (0-3)	Total/NA	Solid	3541	
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	3541	
500-256578-9	SB85 (0-3)	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 787435 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	3541	
500-256578-11	SB86 (0-3)	Total/NA	Solid	3541	
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	3541	
MB 500-787435/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-787435/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-787435/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256578-1 MS	SB81 (0-3)	Total/NA	Solid	3541	
500-256578-1 MS	SB81 (0-3)	Total/NA	Solid	3541	
500-256578-1 MSD	SB81 (0-3)	Total/NA	Solid	3541	
500-256578-1 MSD	SB81 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 788691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	8081B	787435
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	8081B	787435
500-256578-3	SB82 (0-3)	Total/NA	Solid	8081B	787435
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	8081B	787435
500-256578-5	SB83 (0-3)	Total/NA	Solid	8081B	787435
500-256578-6	SB83 (3-5)	Total/NA	Solid	8081B	787435
500-256578-7	SB84 (0-3)	Total/NA	Solid	8081B	787435
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	8081B	787435
500-256578-9	SB85 (0-3)	Total/NA	Solid	8081B	787435
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	8081B	787435
500-256578-11	SB86 (0-3)	Total/NA	Solid	8081B	787435
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	8081B	787435
MB 500-787435/1-A	Method Blank	Total/NA	Solid	8081B	787435
LCS 500-787435/2-A	Lab Control Sample	Total/NA	Solid	8081B	787435
500-256578-1 MS	SB81 (0-3)	Total/NA	Solid	8081B	787435
500-256578-1 MSD	SB81 (0-3)	Total/NA	Solid	8081B	787435

Analysis Batch: 789080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	8082A	787435
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	8082A	787435
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	8082A	787435
500-256578-5	SB83 (0-3)	Total/NA	Solid	8082A	787435
500-256578-6	SB83 (3-5)	Total/NA	Solid	8082A	787435
500-256578-7	SB84 (0-3)	Total/NA	Solid	8082A	787435
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	8082A	787435
500-256578-9	SB85 (0-3)	Total/NA	Solid	8082A	787435
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	8082A	787435
500-256578-11	SB86 (0-3)	Total/NA	Solid	8082A	787435
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	8082A	787435
MB 500-787435/1-A	Method Blank	Total/NA	Solid	8082A	787435
LCS 500-787435/3-A	Lab Control Sample	Total/NA	Solid	8082A	787435
500-256578-1 MS	SB81 (0-3)	Total/NA	Solid	8082A	787435
500-256578-1 MSD	SB81 (0-3)	Total/NA	Solid	8082A	787435

Prep Batch: 789821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-3	SB82 (0-3)	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 789821 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-789821/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-789821/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 790060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-3	SB82 (0-3)	Total/NA	Solid	8082A	789821
MB 500-789821/1-A	Method Blank	Total/NA	Solid	8082A	789821
LCS 500-789821/3-A	Lab Control Sample	Total/NA	Solid	8082A	789821

Metals

Prep Batch: 787481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	3050B	
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	3050B	
500-256578-3	SB82 (0-3)	Total/NA	Solid	3050B	
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	3050B	
500-256578-5	SB83 (0-3)	Total/NA	Solid	3050B	
500-256578-6	SB83 (3-5)	Total/NA	Solid	3050B	
500-256578-7	SB84 (0-3)	Total/NA	Solid	3050B	
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	3050B	
500-256578-9	SB85 (0-3)	Total/NA	Solid	3050B	
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	3050B	
500-256578-11	SB86 (0-3)	Total/NA	Solid	3050B	
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	3050B	
MB 500-787481/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-787481/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 787953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	7471B	
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	7471B	
500-256578-3	SB82 (0-3)	Total/NA	Solid	7471B	
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	7471B	
500-256578-5	SB83 (0-3)	Total/NA	Solid	7471B	
500-256578-6	SB83 (3-5)	Total/NA	Solid	7471B	
500-256578-7	SB84 (0-3)	Total/NA	Solid	7471B	
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	7471B	
500-256578-9	SB85 (0-3)	Total/NA	Solid	7471B	
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	7471B	
500-256578-11	SB86 (0-3)	Total/NA	Solid	7471B	
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	7471B	
MB 500-787953/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-787953/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-256578-9 MS	SB85 (0-3)	Total/NA	Solid	7471B	
500-256578-9 MSD	SB85 (0-3)	Total/NA	Solid	7471B	
500-256578-9 DU	SB85 (0-3)	Total/NA	Solid	7471B	

Analysis Batch: 788040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	6010D	787481

Metals (Continued)

Analysis Batch: 788040 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	6010D	787481
500-256578-3	SB82 (0-3)	Total/NA	Solid	6010D	787481
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	6010D	787481
500-256578-5	SB83 (0-3)	Total/NA	Solid	6010D	787481
500-256578-6	SB83 (3-5)	Total/NA	Solid	6010D	787481
500-256578-7	SB84 (0-3)	Total/NA	Solid	6010D	787481
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	6010D	787481
500-256578-9	SB85 (0-3)	Total/NA	Solid	6010D	787481
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	6010D	787481
500-256578-11	SB86 (0-3)	Total/NA	Solid	6010D	787481
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	6010D	787481
MB 500-787481/1-A	Method Blank	Total/NA	Solid	6010D	787481
LCS 500-787481/2-A	Lab Control Sample	Total/NA	Solid	6010D	787481

Analysis Batch: 788096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	7471B	787953
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	7471B	787953
500-256578-3	SB82 (0-3)	Total/NA	Solid	7471B	787953
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	7471B	787953
500-256578-5	SB83 (0-3)	Total/NA	Solid	7471B	787953
500-256578-6	SB83 (3-5)	Total/NA	Solid	7471B	787953
500-256578-7	SB84 (0-3)	Total/NA	Solid	7471B	787953
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	7471B	787953
500-256578-9	SB85 (0-3)	Total/NA	Solid	7471B	787953
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	7471B	787953
500-256578-11	SB86 (0-3)	Total/NA	Solid	7471B	787953
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	7471B	787953
MB 500-787953/12-A	Method Blank	Total/NA	Solid	7471B	787953
LCS 500-787953/13-A	Lab Control Sample	Total/NA	Solid	7471B	787953
500-256578-9 MS	SB85 (0-3)	Total/NA	Solid	7471B	787953
500-256578-9 MSD	SB85 (0-3)	Total/NA	Solid	7471B	787953
500-256578-9 DU	SB85 (0-3)	Total/NA	Solid	7471B	787953

Analysis Batch: 788202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	6010D	787481
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	6010D	787481
500-256578-3	SB82 (0-3)	Total/NA	Solid	6010D	787481
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	6010D	787481
500-256578-5	SB83 (0-3)	Total/NA	Solid	6010D	787481
500-256578-6	SB83 (3-5)	Total/NA	Solid	6010D	787481
500-256578-7	SB84 (0-3)	Total/NA	Solid	6010D	787481
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	6010D	787481
500-256578-9	SB85 (0-3)	Total/NA	Solid	6010D	787481
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	6010D	787481
500-256578-11	SB86 (0-3)	Total/NA	Solid	6010D	787481
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	6010D	787481

General Chemistry

Prep Batch: 627540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	9030B	
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	9030B	
MB 240-627540/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-627540/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 627541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	9034	627540
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	9034	627540
MB 240-627540/1-A	Method Blank	Total/NA	Solid	9034	627540
LCS 240-627540/2-A	Lab Control Sample	Total/NA	Solid	9034	627540

Analysis Batch: 786737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	9045D	
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	9045D	
500-256578-3	SB82 (0-3)	Total/NA	Solid	9045D	
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	9045D	
500-256578-5	SB83 (0-3)	Total/NA	Solid	9045D	
500-256578-6	SB83 (3-5)	Total/NA	Solid	9045D	
500-256578-7	SB84 (0-3)	Total/NA	Solid	9045D	
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	9045D	
500-256578-9	SB85 (0-3)	Total/NA	Solid	9045D	
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	9045D	
500-256578-11	SB86 (0-3)	Total/NA	Solid	9045D	
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	9045D	
LCS 500-786737/13	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-786737/14	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-256578-8 DU	SB84 (5-7.5)	Total/NA	Solid	9045D	

Analysis Batch: 786933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	Moisture	
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	Moisture	
500-256578-3	SB82 (0-3)	Total/NA	Solid	Moisture	
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	Moisture	
500-256578-5	SB83 (0-3)	Total/NA	Solid	Moisture	
500-256578-6	SB83 (3-5)	Total/NA	Solid	Moisture	
500-256578-7	SB84 (0-3)	Total/NA	Solid	Moisture	
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	Moisture	

Analysis Batch: 787082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-9	SB85 (0-3)	Total/NA	Solid	Moisture	
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	Moisture	
500-256578-11	SB86 (0-3)	Total/NA	Solid	Moisture	
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	Moisture	
500-256578-11 DU	SB86 (0-3)	Total/NA	Solid	Moisture	

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

General Chemistry

Prep Batch: 787155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	9010C	
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	9010C	
500-256578-3	SB82 (0-3)	Total/NA	Solid	9010C	
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	9010C	
500-256578-5	SB83 (0-3)	Total/NA	Solid	9010C	
500-256578-6	SB83 (3-5)	Total/NA	Solid	9010C	
500-256578-7	SB84 (0-3)	Total/NA	Solid	9010C	
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	9010C	
500-256578-9	SB85 (0-3)	Total/NA	Solid	9010C	
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	9010C	
500-256578-11	SB86 (0-3)	Total/NA	Solid	9010C	
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	9010C	
MB 500-787155/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-787155/2-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 787257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	Total/NA	Solid	9012B	787155
MB 500-787155/1-A	Method Blank	Total/NA	Solid	9012B	787155
LCS 500-787155/2-A	Lab Control Sample	Total/NA	Solid	9012B	787155

Analysis Batch: 787313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-2	SB81 (7.5-10)	Total/NA	Solid	9012B	787155
500-256578-3	SB82 (0-3)	Total/NA	Solid	9012B	787155
500-256578-4	SB82 (5-7.5)	Total/NA	Solid	9012B	787155
500-256578-5	SB83 (0-3)	Total/NA	Solid	9012B	787155
500-256578-6	SB83 (3-5)	Total/NA	Solid	9012B	787155
500-256578-7	SB84 (0-3)	Total/NA	Solid	9012B	787155
500-256578-8	SB84 (5-7.5)	Total/NA	Solid	9012B	787155
500-256578-9	SB85 (0-3)	Total/NA	Solid	9012B	787155
500-256578-10	SB85 (10-12.5)	Total/NA	Solid	9012B	787155
500-256578-11	SB86 (0-3)	Total/NA	Solid	9012B	787155
500-256578-12	SB86 (7.5-10)	Total/NA	Solid	9012B	787155
MB 500-787155/1-A	Method Blank	Total/NA	Solid	9012B	787155
LCS 500-787155/2-A	Lab Control Sample	Total/NA	Solid	9012B	787155

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)				
500-256578-1	SB81 (0-3)	111	132 *3 S1+	104	113				
500-256578-2	SB81 (7.5-10)	100	101	99	99				
500-256578-3	SB82 (0-3)	98	104	100	101				
500-256578-4	SB82 (5-7.5)	102	116	104	111				
500-256578-5	SB83 (0-3)	101	127	99	122				
500-256578-6	SB83 (3-5)	101	100	88	101				
500-256578-7	SB84 (0-3)	100	121	100	110				
500-256578-8	SB84 (5-7.5)	101	103	94	101				
500-256578-9	SB85 (0-3)	102	121	101	107				
500-256578-10	SB85 (10-12.5)	103	100	57 S1-	99				
500-256578-11	SB86 (0-3)	100	115	100	105				
500-256578-12	SB86 (7.5-10)	98	118	94	106				
LCS 500-786066/4	Lab Control Sample	98	94	101	98				
LCS 500-786325/3	Lab Control Sample	105	91	101	105				
LCSD 500-786066/5	Lab Control Sample Dup	97	97	96	99				
LCSD 500-786325/4	Lab Control Sample Dup	108	92	104	97				
MB 500-786066/7	Method Blank	102	99	100	98				
MB 500-786325/6	Method Blank	110	101	107	100				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		2FP	PHL	NBZ	FBP	TBP	TPHL		
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)		
500-256578-1	SB81 (0-3)	76	75	45	92	70	104		
500-256578-2	SB81 (7.5-10)	75	73	77	75	57	75		
500-256578-3	SB82 (0-3)	67	66	67	69	67	87		
500-256578-4	SB82 (5-7.5)	79	81	84	81	38	85		
500-256578-5	SB83 (0-3)	46	51	51	55	27 S1-	56		
500-256578-6	SB83 (3-5)	51	62	60	64	16 S1-	77		
500-256578-7	SB84 (0-3)	36	40	35 S1-	44	50	66		
500-256578-8	SB84 (5-7.5)	31	37	32 S1-	41 S1-	47	69		
500-256578-9	SB85 (0-3)	57	66	67	68	7 S1-	76		
500-256578-10	SB85 (10-12.5)	44	71	77	76	32	93		
500-256578-11	SB86 (0-3)	51	62	61	64	15 S1-	67		
500-256578-12	SB86 (7.5-10)	60	63	60	64	40	72		
LCS 500-787300/2-A	Lab Control Sample	88	88	86	87	75	89		
LCS 500-787492/2-A	Lab Control Sample	77	75	72	78	91	84		
MB 500-787300/1-A	Method Blank	83	84	84	80	64	93		
MB 500-787492/1-A	Method Blank	77	73	73	77	84	87		

Surrogate Legend

2FP = 2-Fluorophenol (Surr)

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (33-148)	DCBP2 (33-148)	TCX1 (30-121)	TCX2 (30-121)
500-256578-1	SB81 (0-3)		390 S1+		85
500-256578-1 MS	SB81 (0-3)		262 S1+		81
500-256578-1 MSD	SB81 (0-3)		418 S1+		95
500-256578-2	SB81 (7.5-10)	93		54	
500-256578-3	SB82 (0-3)		164 S1+		74
500-256578-4	SB82 (5-7.5)	129		69	
500-256578-5	SB83 (0-3)		297 S1+		89
500-256578-6	SB83 (3-5)		117		94
500-256578-7	SB84 (0-3)		137		74
500-256578-8	SB84 (5-7.5)		133		98
500-256578-9	SB85 (0-3)		118		54
500-256578-10	SB85 (10-12.5)		113		66
500-256578-11	SB86 (0-3)		267 S1+		79
500-256578-12	SB86 (7.5-10)		566 S1+		81
LCS 500-787435/2-A	Lab Control Sample	100	106	74	78
MB 500-787435/1-A	Method Blank	96	101	70	73

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-256578-1	SB81 (0-3)	53	186 S1+
500-256578-1 MS	SB81 (0-3)	62	181 S1+
500-256578-1 MSD	SB81 (0-3)	69	237 S1+
500-256578-2	SB81 (7.5-10)	40 S1-	86
500-256578-3	SB82 (0-3)	0 S1-	0 S1-
500-256578-4	SB82 (5-7.5)	50	96
500-256578-5	SB83 (0-3)	79	156 S1+
500-256578-6	SB83 (3-5)	71	133 S1+
500-256578-7	SB84 (0-3)	72	109
500-256578-8	SB84 (5-7.5)	71	106
500-256578-9	SB85 (0-3)	60	87
500-256578-10	SB85 (10-12.5)	49	89
500-256578-11	SB86 (0-3)	76	144 S1+
500-256578-12	SB86 (7.5-10)	70	307 S1+
LCS 500-787435/3-A	Lab Control Sample	120	162 S1+
LCS 500-789821/3-A	Lab Control Sample	84	113
MB 500-787435/1-A	Method Blank	98	115
MB 500-789821/1-A	Method Blank	87	120

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256578-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-786066/7
Matrix: Solid
Analysis Batch: 786066

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/14/24 10:50	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/14/24 10:50	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/14/24 10:50	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/14/24 10:50	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/14/24 10:50	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/14/24 10:50	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/14/24 10:50	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/14/24 10:50	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/14/24 10:50	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/14/24 10:50	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/14/24 10:50	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/14/24 10:50	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/14/24 10:50	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/14/24 10:50	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/14/24 10:50	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/14/24 10:50	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/14/24 10:50	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/14/24 10:50	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/14/24 10:50	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/14/24 10:50	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/14/24 10:50	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/14/24 10:50	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/14/24 10:50	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/14/24 10:50	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/14/24 10:50	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/14/24 10:50	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/14/24 10:50	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/14/24 10:50	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/14/24 10:50	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/14/24 10:50	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/14/24 10:50	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/14/24 10:50	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/14/24 10:50	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/14/24 10:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*09/14/24 10:50*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*		*09/14/24 10:50*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*09/14/24 10:50*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*		*09/14/24 10:50*	*1*

Lab Sample ID: LCS 500-786066/4
Matrix: Solid
Analysis Batch: 786066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0604		mg/Kg		121	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786066/4
Matrix: Solid
Analysis Batch: 786066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0553		mg/Kg		111	70 - 125
1,1-Dichloroethane	0.0500	0.0527		mg/Kg		105	70 - 125
1,1-Dichloroethene	0.0500	0.0528		mg/Kg		106	70 - 120
1,2-Dichloroethane	0.0500	0.0513		mg/Kg		103	70 - 130
1,2-Dichloropropane	0.0500	0.0570		mg/Kg		114	70 - 125
2-Butanone (MEK)	0.0500	0.0589		mg/Kg		118	47 - 138
2-Hexanone	0.0500	0.0582		mg/Kg		116	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0603		mg/Kg		121	50 - 148
Acetone	0.0500	0.0534		mg/Kg		107	40 - 150
Benzene	0.0500	0.0548		mg/Kg		110	70 - 125
Bromodichloromethane	0.0500	0.0562		mg/Kg		112	67 - 129
Bromoform	0.0500	0.0611		mg/Kg		122	68 - 136
Bromomethane	0.0500	0.0506		mg/Kg		101	70 - 130
Carbon disulfide	0.0500	0.0531		mg/Kg		106	70 - 129
Carbon tetrachloride	0.0500	0.0507		mg/Kg		101	75 - 125
Chlorobenzene	0.0500	0.0534		mg/Kg		107	50 - 150
Chloroethane	0.0500	0.0570		mg/Kg		114	75 - 125
Chloroform	0.0500	0.0527		mg/Kg		105	57 - 135
Chloromethane	0.0500	0.0530		mg/Kg		106	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0550		mg/Kg		110	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0543		mg/Kg		109	70 - 125
Dibromochloromethane	0.0500	0.0561		mg/Kg		112	69 - 125
Ethylbenzene	0.0500	0.0550		mg/Kg		110	61 - 136
Methyl tert-butyl ether	0.0500	0.0570		mg/Kg		114	50 - 140
Methylene Chloride	0.0500	0.0489		mg/Kg		98	70 - 126
Styrene	0.0500	0.0586		mg/Kg		117	70 - 125
Tetrachloroethene	0.0500	0.0520		mg/Kg		104	70 - 124
Toluene	0.0500	0.0541		mg/Kg		108	70 - 125
Xylenes, Total	0.100	0.107		mg/Kg		107	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0529		mg/Kg		106	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0546		mg/Kg		109	70 - 125
Trichloroethene	0.0500	0.0516		mg/Kg		103	70 - 125
Vinyl chloride	0.0500	0.0488		mg/Kg		98	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 124*

Lab Sample ID: LCSD 500-786066/5
Matrix: Solid
Analysis Batch: 786066

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0517		mg/Kg		103	70 - 128	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0603		mg/Kg		121	70 - 122	0	30
1,1,2-Trichloroethane	0.0500	0.0578		mg/Kg		116	70 - 125	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-786066/5
Matrix: Solid
Analysis Batch: 786066

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0527		mg/Kg		105	70 - 125	0	30
1,1-Dichloroethene			0.0500	0.0529		mg/Kg		106	70 - 120	0	30
1,2-Dichloroethane			0.0500	0.0542		mg/Kg		108	70 - 130	6	30
1,2-Dichloropropane			0.0500	0.0579		mg/Kg		116	70 - 125	2	30
2-Butanone (MEK)			0.0500	0.0639		mg/Kg		128	47 - 138	8	30
2-Hexanone			0.0500	0.0661		mg/Kg		132	48 - 146	13	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0672		mg/Kg		134	50 - 148	11	30
Acetone			0.0500	0.0616		mg/Kg		123	40 - 150	14	30
Benzene			0.0500	0.0556		mg/Kg		111	70 - 125	2	30
Bromodichloromethane			0.0500	0.0568		mg/Kg		114	67 - 129	1	30
Bromoform			0.0500	0.0616		mg/Kg		123	68 - 136	1	30
Bromomethane			0.0500	0.0524		mg/Kg		105	70 - 130	3	30
Carbon disulfide			0.0500	0.0537		mg/Kg		107	70 - 129	1	30
Carbon tetrachloride			0.0500	0.0509		mg/Kg		102	75 - 125	0	30
Chlorobenzene			0.0500	0.0546		mg/Kg		109	50 - 150	2	30
Chloroethane			0.0500	0.0594		mg/Kg		119	75 - 125	4	30
Chloroform			0.0500	0.0521		mg/Kg		104	57 - 135	1	30
Chloromethane			0.0500	0.0559		mg/Kg		112	70 - 125	5	30
cis-1,2-Dichloroethene			0.0500	0.0553		mg/Kg		111	70 - 125	0	30
cis-1,3-Dichloropropene			0.0500	0.0558		mg/Kg		112	70 - 125	3	30
Dibromochloromethane			0.0500	0.0576		mg/Kg		115	69 - 125	3	30
Ethylbenzene			0.0500	0.0560		mg/Kg		112	61 - 136	2	30
Methyl tert-butyl ether			0.0500	0.0580		mg/Kg		116	50 - 140	2	30
Methylene Chloride			0.0500	0.0501		mg/Kg		100	70 - 126	2	30
Styrene			0.0500	0.0598		mg/Kg		120	70 - 125	2	30
Tetrachloroethene			0.0500	0.0500		mg/Kg		100	70 - 124	4	30
Toluene			0.0500	0.0548		mg/Kg		110	70 - 125	1	30
Xylenes, Total			0.100	0.110		mg/Kg		110	53 - 147	2	30
trans-1,2-Dichloroethene			0.0500	0.0544		mg/Kg		109	70 - 125	3	30
trans-1,3-Dichloropropene			0.0500	0.0550		mg/Kg		110	70 - 125	1	30
Trichloroethene			0.0500	0.0535		mg/Kg		107	70 - 125	3	30
Vinyl chloride			0.0500	0.0513		mg/Kg		103	70 - 125	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*
Dibromofluoromethane	*96*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 124*

Lab Sample ID: MB 500-786325/6
Matrix: Solid
Analysis Batch: 786325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/16/24 22:45	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/16/24 22:45	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/16/24 22:45	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/16/24 22:45	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-786325/6
Matrix: Solid
Analysis Batch: 786325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/16/24 22:45	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/16/24 22:45	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/16/24 22:45	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/16/24 22:45	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/16/24 22:45	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/16/24 22:45	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/16/24 22:45	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/16/24 22:45	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/16/24 22:45	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/16/24 22:45	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/16/24 22:45	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/16/24 22:45	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/16/24 22:45	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/16/24 22:45	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/16/24 22:45	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/16/24 22:45	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/16/24 22:45	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/16/24 22:45	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/16/24 22:45	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/16/24 22:45	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/16/24 22:45	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/16/24 22:45	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/16/24 22:45	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/16/24 22:45	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/16/24 22:45	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/16/24 22:45	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/16/24 22:45	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/16/24 22:45	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/16/24 22:45	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/16/24 22:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*		*09/16/24 22:45*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*		*09/16/24 22:45*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*09/16/24 22:45*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*		*09/16/24 22:45*	*1*

Lab Sample ID: LCS 500-786325/3
Matrix: Solid
Analysis Batch: 786325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0535		mg/Kg		107	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0402		mg/Kg		80	70 - 122
1,1,2-Trichloroethane	0.0500	0.0480		mg/Kg		96	70 - 125
1,1-Dichloroethane	0.0500	0.0422		mg/Kg		84	70 - 125
1,1-Dichloroethene	0.0500	0.0465		mg/Kg		93	70 - 120
1,2-Dichloroethane	0.0500	0.0492		mg/Kg		98	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786325/3
Matrix: Solid
Analysis Batch: 786325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0429		mg/Kg		86	70 - 125
2-Butanone (MEK)	0.0500	0.0430		mg/Kg		86	47 - 138
2-Hexanone	0.0500	0.0451		mg/Kg		90	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0455		mg/Kg		91	50 - 148
Acetone	0.0500	0.0421		mg/Kg		84	40 - 150
Benzene	0.0500	0.0456		mg/Kg		91	70 - 125
Bromodichloromethane	0.0500	0.0503		mg/Kg		101	67 - 129
Bromoform	0.0500	0.0512		mg/Kg		102	68 - 136
Bromomethane	0.0500	0.0536		mg/Kg		107	70 - 130
Carbon disulfide	0.0500	0.0449		mg/Kg		90	70 - 129
Carbon tetrachloride	0.0500	0.0549		mg/Kg		110	75 - 125
Chlorobenzene	0.0500	0.0486		mg/Kg		97	50 - 150
Chloroethane	0.0500	0.0457		mg/Kg		91	75 - 125
Chloroform	0.0500	0.0463		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0467		mg/Kg		93	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0498		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0527		mg/Kg		105	69 - 125
Ethylbenzene	0.0500	0.0505		mg/Kg		101	61 - 136
Methyl tert-butyl ether	0.0500	0.0460		mg/Kg		92	50 - 140
Methylene Chloride	0.0500	0.0380		mg/Kg		76	70 - 126
Styrene	0.0500	0.0503		mg/Kg		101	70 - 125
Tetrachloroethene	0.0500	0.0532		mg/Kg		106	70 - 124
Toluene	0.0500	0.0490		mg/Kg		98	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0452		mg/Kg		90	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0493		mg/Kg		99	70 - 125
Trichloroethene	0.0500	0.0498		mg/Kg		100	70 - 125
Vinyl chloride	0.0500	0.0519		mg/Kg		104	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*105*		*75 - 124*

Lab Sample ID: LCSD 500-786325/4
Matrix: Solid
Analysis Batch: 786325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0598		mg/Kg		120	70 - 128	11	30
1,1,2,2-Tetrachloroethane	0.0500	0.0430		mg/Kg		86	70 - 122	7	30
1,1,2-Trichloroethane	0.0500	0.0481		mg/Kg		96	70 - 125	0	30
1,1-Dichloroethane	0.0500	0.0505		mg/Kg		101	70 - 125	18	30
1,1-Dichloroethene	0.0500	0.0510		mg/Kg		102	70 - 120	9	30
1,2-Dichloroethane	0.0500	0.0527		mg/Kg		105	70 - 130	7	30
1,2-Dichloropropane	0.0500	0.0468		mg/Kg		94	70 - 125	9	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-786325/4
Matrix: Solid
Analysis Batch: 786325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			0.0500	0.0502		mg/Kg		100	47 - 138	15	30
2-Hexanone			0.0500	0.0512		mg/Kg		102	48 - 146	13	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0506		mg/Kg		101	50 - 148	10	30
Acetone			0.0500	0.0473		mg/Kg		95	40 - 150	12	30
Benzene			0.0500	0.0498		mg/Kg		100	70 - 125	9	30
Bromodichloromethane			0.0500	0.0549		mg/Kg		110	67 - 129	9	30
Bromoform			0.0500	0.0559		mg/Kg		112	68 - 136	9	30
Bromomethane			0.0500	0.0561		mg/Kg		112	70 - 130	5	30
Carbon disulfide			0.0500	0.0507		mg/Kg		101	70 - 129	12	30
Carbon tetrachloride			0.0500	0.0614		mg/Kg		123	75 - 125	11	30
Chlorobenzene			0.0500	0.0490		mg/Kg		98	50 - 150	1	30
Chloroethane			0.0500	0.0519		mg/Kg		104	75 - 125	13	30
Chloroform			0.0500	0.0529		mg/Kg		106	57 - 135	13	30
Chloromethane			0.0500	0.0522		mg/Kg		104	70 - 125	11	30
cis-1,2-Dichloroethene			0.0500	0.0519		mg/Kg		104	70 - 125	13	30
cis-1,3-Dichloropropene			0.0500	0.0480		mg/Kg		96	70 - 125	4	30
Dibromochloromethane			0.0500	0.0530		mg/Kg		106	69 - 125	1	30
Ethylbenzene			0.0500	0.0501		mg/Kg		100	61 - 136	1	30
Methyl tert-butyl ether			0.0500	0.0563		mg/Kg		113	50 - 140	20	30
Methylene Chloride			0.0500	0.0448		mg/Kg		90	70 - 126	16	30
Styrene			0.0500	0.0518		mg/Kg		104	70 - 125	3	30
Tetrachloroethene			0.0500	0.0539		mg/Kg		108	70 - 124	1	30
Toluene			0.0500	0.0475		mg/Kg		95	70 - 125	3	30
Xylenes, Total			0.100	0.104		mg/Kg		104	53 - 147	3	30
trans-1,2-Dichloroethene			0.0500	0.0516		mg/Kg		103	70 - 125	13	30
trans-1,3-Dichloropropene			0.0500	0.0520		mg/Kg		104	70 - 125	5	30
Trichloroethene			0.0500	0.0522		mg/Kg		104	70 - 125	5	30
Vinyl chloride			0.0500	0.0570		mg/Kg		114	70 - 125	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*
Dibromofluoromethane	*104*		*75 - 126*
Toluene-d8 (Surr)	*97*		*75 - 124*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-787300/1-A
Matrix: Solid
Analysis Batch: 787451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787300

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/23/24 11:09	09/24/24 10:42	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-787300/1-A
Matrix: Solid
Analysis Batch: 787451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787300

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/23/24 11:09	09/24/24 10:42	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256578-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-787300/1-A
Matrix: Solid
Analysis Batch: 787451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787300

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/23/24 11:09	09/24/24 10:42	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/23/24 11:09	09/24/24 10:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*83*		*31 - 166*	*09/23/24 11:09*	*09/24/24 10:42*	*1*
Phenol-d5 (Surr)	*84*		*30 - 153*	*09/23/24 11:09*	*09/24/24 10:42*	*1*
Nitrobenzene-d5 (Surr)	*84*		*37 - 147*	*09/23/24 11:09*	*09/24/24 10:42*	*1*
2-Fluorobiphenyl (Surr)	*80*		*43 - 145*	*09/23/24 11:09*	*09/24/24 10:42*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*31 - 143*	*09/23/24 11:09*	*09/24/24 10:42*	*1*
Terphenyl-d14 (Surr)	*93*		*42 - 157*	*09/23/24 11:09*	*09/24/24 10:42*	*1*

Lab Sample ID: LCS 500-787300/2-A
Matrix: Solid
Analysis Batch: 787451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787300

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.84		mg/Kg		85	63 - 109
Acenaphthylene	3.33	2.98		mg/Kg		89	61 - 115
Anthracene	3.33	2.98		mg/Kg		89	68 - 120
Benzo[a]anthracene	3.33	2.92		mg/Kg		88	70 - 121
Benzo[a]pyrene	3.33	3.13		mg/Kg		94	73 - 132
Benzo[b]fluoranthene	3.33	3.13		mg/Kg		94	68 - 123
Benzo[g,h,i]perylene	3.33	3.10		mg/Kg		93	65 - 126
Benzo[k]fluoranthene	3.33	3.18		mg/Kg		95	64 - 128
Chrysene	3.33	2.87		mg/Kg		86	70 - 123
Dibenz(a,h)anthracene	3.33	3.10		mg/Kg		93	66 - 125
Fluoranthene	3.33	2.89		mg/Kg		87	66 - 123
Fluorene	3.33	2.78		mg/Kg		83	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.16		mg/Kg		95	66 - 131
Naphthalene	3.33	2.78		mg/Kg		83	54 - 98
Phenanthrene	3.33	2.98		mg/Kg		89	65 - 115
Pyrene	3.33	3.10		mg/Kg		93	71 - 128
1,2,4-Trichlorobenzene	3.33	2.59		mg/Kg		78	49 - 100
1,2-Dichlorobenzene	3.33	2.66		mg/Kg		80	47 - 94
1,3-Dichlorobenzene	3.33	2.58		mg/Kg		77	47 - 92
1,4-Dichlorobenzene	3.33	2.60		mg/Kg		78	46 - 92
2,4,5-Trichlorophenol	3.33	2.72		mg/Kg		82	48 - 121
2,4,6-Trichlorophenol	3.33	2.65		mg/Kg		80	50 - 121
2,4-Dichlorophenol	3.33	2.74		mg/Kg		82	51 - 109
2,4-Dimethylphenol	3.33	3.04		mg/Kg		91	48 - 93
2,4-Dinitrophenol	6.67	3.52		mg/Kg		53	10 - 130
2,4-Dinitrotoluene	3.33	2.97		mg/Kg		89	65 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-787300/2-A
Matrix: Solid
Analysis Batch: 787451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787300

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	3.33	2.89		mg/Kg		87	66 - 117
2-Chloronaphthalene	3.33	2.89		mg/Kg		87	60 - 107
2-Chlorophenol	3.33	2.88		mg/Kg		87	50 - 102
2-Methylnaphthalene	3.33	2.43		mg/Kg		73	58 - 103
2-Methylphenol	3.33	2.88		mg/Kg		86	50 - 104
2-Nitroaniline	3.33	3.04		mg/Kg		91	61 - 126
2-Nitrophenol	3.33	2.79		mg/Kg		84	41 - 114
3,3'-Dichlorobenzidine	3.33	2.71		mg/Kg		81	36 - 131
3 & 4 Methylphenol	3.33	2.87		mg/Kg		86	49 - 109
3-Nitroaniline	3.33	2.74		mg/Kg		82	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.83		mg/Kg		72	36 - 138
4-Bromophenyl phenyl ether	3.33	2.94		mg/Kg		88	57 - 124
4-Chloro-3-methylphenol	3.33	2.84		mg/Kg		85	57 - 113
4-Chloroaniline	3.33	2.53		mg/Kg		76	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.81		mg/Kg		84	60 - 112
4-Nitroaniline	3.33	2.67		mg/Kg		80	60 - 115
4-Nitrophenol	6.67	5.05		mg/Kg		76	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.74		mg/Kg		82	54 - 102
Bis(2-chloroethyl)ether	3.33	2.87		mg/Kg		86	49 - 99
bis(chloroisopropyl) ether	3.33	3.12		mg/Kg		93	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.38		mg/Kg		102	70 - 139
Butyl benzyl phthalate	3.33	3.26		mg/Kg		98	65 - 140
Carbazole	3.33	2.89		mg/Kg		87	68 - 120
Dibenzofuran	3.33	2.75		mg/Kg		83	64 - 112
Diethyl phthalate	3.33	2.85		mg/Kg		86	66 - 115
Dimethyl phthalate	3.33	2.82		mg/Kg		85	65 - 114
Di-n-butyl phthalate	3.33	3.06		mg/Kg		92	69 - 125
Di-n-octyl phthalate	3.33	3.07		mg/Kg		92	61 - 131
Hexachlorobenzene	3.33	2.93		mg/Kg		88	52 - 126
Hexachlorobutadiene	3.33	2.56		mg/Kg		77	42 - 103
Hexachlorocyclopentadiene	3.33	1.57		mg/Kg		47	10 - 100
Hexachloroethane	3.33	2.83		mg/Kg		85	45 - 95
Isophorone	3.33	2.76		mg/Kg		83	47 - 108
Nitrobenzene	3.33	2.98		mg/Kg		89	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.89		mg/Kg		87	48 - 110
N-Nitrosodiphenylamine	3.33	2.96		mg/Kg		89	67 - 112
Pentachlorophenol	6.67	3.36		mg/Kg		50	32 - 128
Phenol	3.33	3.12		mg/Kg		94	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*88*		*31 - 166*
Phenol-d5 (Surr)	*88*		*30 - 153*
Nitrobenzene-d5 (Surr)	*86*		*37 - 147*
2-Fluorobiphenyl (Surr)	*87*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*75*		*31 - 143*
Terphenyl-d14 (Surr)	*89*		*42 - 157*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-787492/1-A
Matrix: Solid
Analysis Batch: 787639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/24/24 10:34	09/25/24 10:04	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-787492/1-A
Matrix: Solid
Analysis Batch: 787639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	<0.013		0.17	0.013	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/24/24 10:34	09/25/24 10:04	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/24/24 10:34	09/25/24 10:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*77*		*31 - 166*	*09/24/24 10:34*	*09/25/24 10:04*	*1*
Phenol-d5 (Surr)	*73*		*30 - 153*	*09/24/24 10:34*	*09/25/24 10:04*	*1*
Nitrobenzene-d5 (Surr)	*73*		*37 - 147*	*09/24/24 10:34*	*09/25/24 10:04*	*1*
2-Fluorobiphenyl (Surr)	*77*		*43 - 145*	*09/24/24 10:34*	*09/25/24 10:04*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*31 - 143*	*09/24/24 10:34*	*09/25/24 10:04*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*09/24/24 10:34*	*09/25/24 10:04*	*1*

Lab Sample ID: LCS 500-787492/2-A
Matrix: Solid
Analysis Batch: 787639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.76		mg/Kg		83	63 - 109
Acenaphthylene	3.33	2.84		mg/Kg		85	61 - 115
Anthracene	3.33	2.91		mg/Kg		87	68 - 120
Benzo[a]anthracene	3.33	2.86		mg/Kg		86	70 - 121
Benzo[a]pyrene	3.33	3.19		mg/Kg		96	73 - 132
Benzo[b]fluoranthene	3.33	3.21		mg/Kg		96	68 - 123
Benzo[g,h,i]perylene	3.33	3.20		mg/Kg		96	65 - 126
Benzo[k]fluoranthene	3.33	3.18		mg/Kg		95	64 - 128
Chrysene	3.33	2.93		mg/Kg		88	70 - 123
Dibenz(a,h)anthracene	3.33	3.11		mg/Kg		93	66 - 125
Fluoranthene	3.33	3.02		mg/Kg		90	66 - 123
Fluorene	3.33	2.82		mg/Kg		84	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.06		mg/Kg		92	66 - 131
Naphthalene	3.33	2.60		mg/Kg		78	54 - 98
Phenanthrene	3.33	2.87		mg/Kg		86	65 - 115
Pyrene	3.33	2.97		mg/Kg		89	71 - 128
1,2,4-Trichlorobenzene	3.33	2.64		mg/Kg		79	49 - 100
1,2-Dichlorobenzene	3.33	2.40		mg/Kg		72	47 - 94

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-787492/2-A
Matrix: Solid
Analysis Batch: 787639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	3.33	2.42		mg/Kg		73	47 - 92
1,4-Dichlorobenzene	3.33	2.39		mg/Kg		72	46 - 92
2,4,5-Trichlorophenol	3.33	3.03		mg/Kg		91	48 - 121
2,4,6-Trichlorophenol	3.33	2.90		mg/Kg		87	50 - 121
2,4-Dichlorophenol	3.33	2.79		mg/Kg		84	51 - 109
2,4-Dimethylphenol	3.33	2.98		mg/Kg		89	48 - 93
2,4-Dinitrophenol	6.67	3.57		mg/Kg		54	10 - 130
2,4-Dinitrotoluene	3.33	3.17		mg/Kg		95	65 - 120
2,6-Dinitrotoluene	3.33	3.12		mg/Kg		94	66 - 117
2-Chloronaphthalene	3.33	2.73		mg/Kg		82	60 - 107
2-Chlorophenol	3.33	2.62		mg/Kg		79	50 - 102
2-Methylnaphthalene	3.33	2.44		mg/Kg		73	58 - 103
2-Methylphenol	3.33	2.68		mg/Kg		80	50 - 104
2-Nitroaniline	3.33	2.67		mg/Kg		80	61 - 126
2-Nitrophenol	3.33	2.87		mg/Kg		86	41 - 114
3,3'-Dichlorobenzidine	3.33	2.73		mg/Kg		82	36 - 131
3 & 4 Methylphenol	3.33	2.55		mg/Kg		76	49 - 109
3-Nitroaniline	3.33	2.70		mg/Kg		81	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.82		mg/Kg		72	36 - 138
4-Bromophenyl phenyl ether	3.33	2.98		mg/Kg		89	57 - 124
4-Chloro-3-methylphenol	3.33	2.71		mg/Kg		81	57 - 113
4-Chloroaniline	3.33	2.54		mg/Kg		76	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.85		mg/Kg		86	60 - 112
4-Nitroaniline	3.33	2.86		mg/Kg		86	60 - 115
4-Nitrophenol	6.67	4.96		mg/Kg		74	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.57		mg/Kg		77	54 - 102
Bis(2-chloroethyl)ether	3.33	2.46		mg/Kg		74	49 - 99
bis(chloroisopropyl) ether	3.33	2.27		mg/Kg		68	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.00		mg/Kg		90	70 - 139
Butyl benzyl phthalate	3.33	2.92		mg/Kg		88	65 - 140
Carbazole	3.33	2.78		mg/Kg		83	68 - 120
Dibenzofuran	3.33	2.70		mg/Kg		81	64 - 112
Diethyl phthalate	3.33	2.83		mg/Kg		85	66 - 115
Dimethyl phthalate	3.33	2.79		mg/Kg		84	65 - 114
Di-n-butyl phthalate	3.33	2.92		mg/Kg		88	69 - 125
Di-n-octyl phthalate	3.33	2.88		mg/Kg		86	61 - 131
Hexachlorobenzene	3.33	3.13		mg/Kg		94	52 - 126
Hexachlorobutadiene	3.33	2.69		mg/Kg		81	42 - 103
Hexachlorocyclopentadiene	3.33	2.81		mg/Kg		84	10 - 100
Hexachloroethane	3.33	2.39		mg/Kg		72	45 - 95
Isophorone	3.33	2.53		mg/Kg		76	47 - 108
Nitrobenzene	3.33	2.63		mg/Kg		79	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.40		mg/Kg		72	48 - 110
N-Nitrosodiphenylamine	3.33	2.76		mg/Kg		83	67 - 112
Pentachlorophenol	6.67	5.44		mg/Kg		82	32 - 128
Phenol	3.33	2.57		mg/Kg		77	52 - 110

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-787492/2-A
Matrix: Solid
Analysis Batch: 787639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787492

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*77*		*31 - 166*
Phenol-d5 (Surr)	*75*		*30 - 153*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*91*		*31 - 143*
Terphenyl-d14 (Surr)	*84*		*42 - 157*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-787435/1-A
Matrix: Solid
Analysis Batch: 788691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/24/24 07:33	10/02/24 12:00	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-787435/1-A
Matrix: Solid
Analysis Batch: 788691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/24/24 07:33	10/02/24 12:00	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/24/24 07:33	10/02/24 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*33 - 148*	*09/24/24 07:33*	*10/02/24 12:00*	*1*
DCB Decachlorobiphenyl	*101*		*33 - 148*	*09/24/24 07:33*	*10/02/24 12:00*	*1*
Tetrachloro-m-xylene	*70*		*30 - 121*	*09/24/24 07:33*	*10/02/24 12:00*	*1*
Tetrachloro-m-xylene	*73*		*30 - 121*	*09/24/24 07:33*	*10/02/24 12:00*	*1*

Lab Sample ID: LCS 500-787435/2-A
Matrix: Solid
Analysis Batch: 788691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0128		mg/Kg		96	47 - 137
4,4'-DDD	0.0133	0.0130		mg/Kg		98	47 - 137
4,4'-DDE	0.0133	0.0128		mg/Kg		96	50 - 130
4,4'-DDE	0.0133	0.0131		mg/Kg		98	50 - 130
4,4'-DDT	0.0133	0.0141		mg/Kg		105	46 - 143
4,4'-DDT	0.0133	0.0147		mg/Kg		110	46 - 143
Aldrin	0.0133	0.0114		mg/Kg		86	52 - 122
Aldrin	0.0133	0.0126		mg/Kg		94	52 - 122
alpha-BHC	0.0133	0.0113		mg/Kg		85	50 - 123
alpha-BHC	0.0133	0.0116		mg/Kg		87	50 - 123
beta-BHC	0.0133	0.0113		mg/Kg		85	44 - 140
beta-BHC	0.0133	0.0118		mg/Kg		88	44 - 140
delta-BHC	0.0133	0.0123		mg/Kg		92	57 - 125
delta-BHC	0.0133	0.0128		mg/Kg		96	57 - 125
Dieldrin	0.0133	0.0128		mg/Kg		96	51 - 133
Dieldrin	0.0133	0.0135		mg/Kg		101	51 - 133
Endosulfan I	0.0133	0.0105		mg/Kg		78	30 - 120
Endosulfan I	0.0133	0.0103		mg/Kg		77	30 - 120
Endosulfan II	0.0133	0.0105		mg/Kg		79	30 - 120
Endosulfan II	0.0133	0.0111		mg/Kg		83	30 - 120
Endosulfan sulfate	0.0133	0.0133		mg/Kg		100	42 - 150
Endosulfan sulfate	0.0133	0.0125		mg/Kg		94	42 - 150
Endrin	0.0133	0.0124		mg/Kg		93	43 - 144
Endrin	0.0133	0.0128		mg/Kg		96	43 - 144
Endrin aldehyde	0.0133	0.0120		mg/Kg		90	39 - 131
Endrin aldehyde	0.0133	0.0125		mg/Kg		94	39 - 131
Endrin ketone	0.0133	0.0123		mg/Kg		92	51 - 135

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-787435/2-A
Matrix: Solid
Analysis Batch: 788691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Endrin ketone	0.0133	0.0135		mg/Kg		101	51 - 135
gamma-BHC (Lindane)	0.0133	0.0120		mg/Kg		90	50 - 122
gamma-BHC (Lindane)	0.0133	0.0120		mg/Kg		90	50 - 122
Heptachlor	0.0133	0.0111		mg/Kg		83	53 - 129
Heptachlor	0.0133	0.0122		mg/Kg		91	53 - 129
Heptachlor epoxide	0.0133	0.0124		mg/Kg		93	50 - 139
Heptachlor epoxide	0.0133	0.0126		mg/Kg		95	50 - 139
Methoxychlor	0.0133	0.0123		mg/Kg		92	45 - 144
Methoxychlor	0.0133	0.0212	*+	mg/Kg		159	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*100*		*33 - 148*
DCB Decachlorobiphenyl	*106*		*33 - 148*
Tetrachloro-m-xylene	*74*		*30 - 121*
Tetrachloro-m-xylene	*78*		*30 - 121*

Lab Sample ID: 500-256578-1 MS
Matrix: Solid
Analysis Batch: 788691

Client Sample ID: SB81 (0-3)
Prep Type: Total/NA
Prep Batch: 787435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.0098	F1 F2	0.0141	0.0462	F1	mg/Kg	☼	327	47 - 137
4,4'-DDE	<0.0094	F1 F2	0.0141	0.0235	F1	mg/Kg	☼	166	50 - 130
4,4'-DDT	<0.0086	F1	0.0141	0.0317	F1	mg/Kg	☼	224	46 - 143
Aldrin	<0.013	F1 F2	0.0141	0.0549	F1	mg/Kg	☼	389	52 - 122
delta-BHC	<0.0087	F1 F2	0.0141	0.0294	F1	mg/Kg	☼	208	57 - 125
Endosulfan I	<0.0098	F1 F2	0.0141	0.0384	F1	mg/Kg	☼	271	30 - 120
Endrin	<0.0093	F2 F1	0.0141	0.0139	J	mg/Kg	☼	98	43 - 144
Endrin aldehyde	<0.010	F1	0.0141	<0.010	F1	mg/Kg	☼	0	39 - 131
Endrin ketone	<0.0088	F1	0.0141	<0.0087	F1	mg/Kg	☼	0	51 - 135
Heptachlor	<0.0098	F1 F2	0.0141	0.0332	F1	mg/Kg	☼	235	53 - 129
Heptachlor epoxide	<0.0098	F1	0.0141	<0.0096	F1	mg/Kg	☼	0	50 - 139
Methoxychlor	<0.012	F1 *+	0.0141	0.147	F1	mg/Kg	☼	1039	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*262*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*81*		*30 - 121*

Lab Sample ID: 500-256578-1 MSD
Matrix: Solid
Analysis Batch: 788691

Client Sample ID: SB81 (0-3)
Prep Type: Total/NA
Prep Batch: 787435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.0098	F1 F2	0.0146	0.0966	F1 F2	mg/Kg	☼	664	47 - 137	71	30
4,4'-DDE	<0.0094	F1 F2	0.0146	0.0354	F1 F2	mg/Kg	☼	243	50 - 130	40	30
4,4'-DDT	<0.0086	F1	0.0146	0.0379	F1	mg/Kg	☼	260	46 - 143	18	30
Aldrin	<0.013	F1 F2	0.0146	0.0349	F1 F2	mg/Kg	☼	240	52 - 122	45	30
beta-BHC	<0.015		0.0146	<0.015		mg/Kg	☼	NC	44 - 140	NC	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-256578-1 MSD
Matrix: Solid
Analysis Batch: 788691

Client Sample ID: SB81 (0-3)
Prep Type: Total/NA
Prep Batch: 787435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dieldrin	<0.0095	F2 F1	0.0146	0.0421	F1	mg/Kg	☼	289	51 - 133	NC	30
Endosulfan I	<0.0098	F1 F2	0.0146	0.0547	F1 F2	mg/Kg	☼	376	30 - 120	35	30
Endosulfan II	<0.010	F1	0.0146	0.0251	F1	mg/Kg	☼	173	30 - 120	NC	30
Endosulfan sulfate	<0.010	F2	0.0146	0.0180	J	mg/Kg	☼	123	42 - 150	NC	30
Endrin	<0.0093	F2 F1	0.0146	0.0280	F1 F2	mg/Kg	☼	193	43 - 144	67	30
Endrin aldehyde	<0.010	F1	0.0146	<0.011	F1	mg/Kg	☼	0	39 - 131	NC	30
Endrin ketone	<0.0088	F1	0.0146	<0.0090	F1	mg/Kg	☼	0	51 - 135	NC	30
Heptachlor epoxide	<0.0098	F1	0.0146	0.845	E F1	mg/Kg	☼	5804	50 - 139	NC	30
Methoxychlor	<0.012	F1 *+	0.0146	0.161	F1	mg/Kg	☼	1107	45 - 144	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*418*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*95*		*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-787435/1-A
Matrix: Solid
Analysis Batch: 789080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/24/24 07:33	10/04/24 10:40	1
PCB-1221	<0.017		0.017		mg/Kg		09/24/24 07:33	10/04/24 10:40	1
PCB-1232	<0.017		0.017		mg/Kg		09/24/24 07:33	10/04/24 10:40	1
PCB-1242	<0.017		0.017		mg/Kg		09/24/24 07:33	10/04/24 10:40	1
PCB-1248	<0.017		0.017		mg/Kg		09/24/24 07:33	10/04/24 10:40	1
PCB-1254	<0.017		0.017		mg/Kg		09/24/24 07:33	10/04/24 10:40	1
PCB-1260	<0.017		0.017		mg/Kg		09/24/24 07:33	10/04/24 10:40	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/24/24 07:33	10/04/24 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*49 - 129*	*09/24/24 07:33*	*10/04/24 10:40*	*1*
DCB Decachlorobiphenyl	*115*		*37 - 121*	*09/24/24 07:33*	*10/04/24 10:40*	*1*

Lab Sample ID: LCS 500-787435/3-A
Matrix: Solid
Analysis Batch: 789080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.212	*+	mg/Kg		127	57 - 120
PCB-1260	0.167	0.276	*+	mg/Kg		166	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*120*		*49 - 129*
DCB Decachlorobiphenyl	*162*	*S1+*	*37 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-256578-1 MS
Matrix: Solid
Analysis Batch: 789080

Client Sample ID: SB81 (0-3)
Prep Type: Total/NA
Prep Batch: 787435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.18	F2 F1 *+	0.180	0.480	F1	mg/Kg	☼	267	57 - 120
PCB-1260	<0.18	F1 *+	0.180	1.05	F1	mg/Kg	☼	586	61 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*62*		*49 - 129*
DCB Decachlorobiphenyl	*181*	*S1+*	*37 - 121*

Lab Sample ID: 500-256578-1 MSD
Matrix: Solid
Analysis Batch: 789080

Client Sample ID: SB81 (0-3)
Prep Type: Total/NA
Prep Batch: 787435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.18	F2 F1 *+	0.181	0.266	F1 F2	mg/Kg	☼	147	57 - 120	57	30
PCB-1260	<0.18	F1 *+	0.181	0.933	F1	mg/Kg	☼	516	61 - 125	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*49 - 129*
DCB Decachlorobiphenyl	*237*	*S1+*	*37 - 121*

Lab Sample ID: MB 500-789821/1-A
Matrix: Solid
Analysis Batch: 790060

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		10/09/24 14:48	10/11/24 10:14	1
PCB-1221	<0.017		0.017		mg/Kg		10/09/24 14:48	10/11/24 10:14	1
PCB-1232	<0.017		0.017		mg/Kg		10/09/24 14:48	10/11/24 10:14	1
PCB-1242	<0.017		0.017		mg/Kg		10/09/24 14:48	10/11/24 10:14	1
PCB-1248	<0.017		0.017		mg/Kg		10/09/24 14:48	10/11/24 10:14	1
PCB-1254	<0.017		0.017		mg/Kg		10/09/24 14:48	10/11/24 10:14	1
PCB-1260	<0.017		0.017		mg/Kg		10/09/24 14:48	10/11/24 10:14	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		10/09/24 14:48	10/11/24 10:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*49 - 129*	*10/09/24 14:48*	*10/11/24 10:14*	*1*
DCB Decachlorobiphenyl	*120*		*37 - 121*	*10/09/24 14:48*	*10/11/24 10:14*	*1*

Lab Sample ID: LCS 500-789821/3-A
Matrix: Solid
Analysis Batch: 790060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789821

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016			0.167	0.154		mg/Kg		93	57 - 120
PCB-1260			0.167	0.170		mg/Kg		102	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*49 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-789821/3-A
Matrix: Solid
Analysis Batch: 790060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789821

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*113*		*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-787481/1-A
Matrix: Solid
Analysis Batch: 788040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787481

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Antimony	<2.0		2.0		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Arsenic	<1.0		1.0		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Barium	<1.0		1.0		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Beryllium	<0.40		0.40		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Cadmium	<0.20		0.20		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Calcium	<20		20		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Chromium	<1.0		1.0		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Cobalt	<0.50		0.50		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Copper	<1.0		1.0		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Iron	<20		20		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Lead	<0.50		0.50		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Magnesium	<10		10		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Manganese	<1.0		1.0		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Nickel	<1.0		1.0		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Potassium	<50		50		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Selenium	<1.0		1.0		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Silver	<0.50		0.50		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Sodium	<100		100		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Thallium	<1.0		1.0		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Vanadium	<0.50		0.50		mg/Kg		09/24/24 09:43	09/26/24 15:43	1
Zinc	<2.0		2.0		mg/Kg		09/24/24 09:43	09/26/24 15:43	1

Lab Sample ID: LCS 500-787481/2-A
Matrix: Solid
Analysis Batch: 788040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787481

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	200		mg/Kg		100	80 - 120
Antimony	50.0	49.9		mg/Kg		100	80 - 120
Arsenic	10.0	9.35		mg/Kg		93	80 - 120
Barium	200	199		mg/Kg		100	80 - 120
Beryllium	5.00	5.00		mg/Kg		100	80 - 120
Cadmium	5.00	4.76		mg/Kg		95	80 - 120
Calcium	1000	1040		mg/Kg		104	80 - 120
Chromium	20.0	20.2		mg/Kg		101	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	25.0	25.7		mg/Kg		103	80 - 120
Iron	100	116		mg/Kg		116	80 - 120
Lead	10.0	10.1		mg/Kg		101	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-787481/2-A
Matrix: Solid
Analysis Batch: 788040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787481

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	1000	975		mg/Kg		98	80 - 120
Manganese	50.0	50.9		mg/Kg		102	80 - 120
Nickel	50.0	50.4		mg/Kg		101	80 - 120
Potassium	1000	979		mg/Kg		98	80 - 120
Selenium	10.0	8.60		mg/Kg		86	80 - 120
Silver	5.00	4.56		mg/Kg		91	80 - 120
Sodium	1000	990		mg/Kg		99	80 - 120
Thallium	10.0	9.53		mg/Kg		95	80 - 120
Vanadium	50.0	50.8		mg/Kg		102	80 - 120
Zinc	50.0	49.4		mg/Kg		99	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-787953/12-A
Matrix: Solid
Analysis Batch: 788096

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/26/24 17:42	09/27/24 10:39	1

Lab Sample ID: LCS 500-787953/13-A
Matrix: Solid
Analysis Batch: 788096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.172		mg/Kg		103	80 - 120

Lab Sample ID: 500-256578-9 MS
Matrix: Solid
Analysis Batch: 788096

Client Sample ID: SB85 (0-3)
Prep Type: Total/NA
Prep Batch: 787953

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.017	F1 F2	0.0870	0.0639	F1	mg/Kg	☼	73	75 - 125

Lab Sample ID: 500-256578-9 MSD
Matrix: Solid
Analysis Batch: 788096

Client Sample ID: SB85 (0-3)
Prep Type: Total/NA
Prep Batch: 787953

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.017	F1 F2	0.0862	0.0971	F2	mg/Kg	☼	113	75 - 125	41	20

Lab Sample ID: 500-256578-9 DU
Matrix: Solid
Analysis Batch: 788096

Client Sample ID: SB85 (0-3)
Prep Type: Total/NA
Prep Batch: 787953

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.017	F1 F2	<0.017		mg/Kg	☼	NC	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-787155/1-A
Matrix: Solid
Analysis Batch: 787257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/22/24 10:15	09/22/24 13:42	1

Lab Sample ID: MB 500-787155/1-A
Matrix: Solid
Analysis Batch: 787313

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/22/24 10:15	09/23/24 10:15	1

Lab Sample ID: LCS 500-787155/2-A
Matrix: Solid
Analysis Batch: 787257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.31		mg/Kg		96	85 - 115

Lab Sample ID: LCS 500-787155/2-A
Matrix: Solid
Analysis Batch: 787313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.30		mg/Kg		96	85 - 115

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-627540/1-A
Matrix: Solid
Analysis Batch: 627541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 627540

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/18/24 14:21	09/18/24 14:24	1

Lab Sample ID: LCS 240-627540/2-A
Matrix: Solid
Analysis Batch: 627541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627540

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	83.0	87.0		mg/Kg		105	56 - 120

Method: 9045D - pH

Lab Sample ID: 500-256578-8 DU
Matrix: Solid
Analysis Batch: 786737

Client Sample ID: SB84 (5-7.5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.92		10.10		SU		2	5

Client Sample ID: SB81 (0-3)

Lab Sample ID: 500-256578-1

Date Collected: 09/11/24 08:14

Matrix: Solid

Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786737	ST	EET CHI	09/18/24 15:16
Total/NA	Analysis	Moisture		1	786933	DG	EET CHI	09/19/24 15:40

Client Sample ID: SB81 (0-3)

Lab Sample ID: 500-256578-1

Date Collected: 09/11/24 08:14

Matrix: Solid

Date Received: 09/12/24 12:06

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785854		EET CHI	09/12/24 18:44
Total/NA	Analysis	8260D		1	786325	W1T	EET CHI	09/17/24 01:45
Total/NA	Prep	3546			787492	EK	EET CHI	09/24/24 10:34
Total/NA	Analysis	8270E		5	787846	WS	EET CHI	09/26/24 14:14
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 13:10
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	789080	MS	EET CHI	10/04/24 11:26
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		1	788040	RB	EET CHI	09/26/24 18:01
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		5	788202	SJ	EET CHI	09/27/24 17:09
Total/NA	Prep	7471B			787953	MJG	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:44
Total/NA	Prep	9010C			787155	AC	EET CHI	09/22/24 10:15 - 09/22/24 10:45 [1]
Total/NA	Analysis	9012B		1	787257	AC	EET CHI	09/22/24 14:02
Total/NA	Prep	9030B			627540	BLW	EET CLE	09/18/24 14:21
Total/NA	Analysis	9034		1	627541	BLW	EET CLE	09/18/24 14:24

Client Sample ID: SB81 (7.5-10)

Lab Sample ID: 500-256578-2

Date Collected: 09/11/24 08:30

Matrix: Solid

Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786737	ST	EET CHI	09/18/24 15:21
Total/NA	Analysis	Moisture		1	786933	DG	EET CHI	09/19/24 15:40

Client Sample ID: SB81 (7.5-10)

Lab Sample ID: 500-256578-2

Date Collected: 09/11/24 08:30

Matrix: Solid

Date Received: 09/12/24 12:06

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785854		EET CHI	09/12/24 18:44
Total/NA	Analysis	8260D		1	786066	PMF	EET CHI	09/14/24 11:39
Total/NA	Prep	3546			787300	EK	EET CHI	09/23/24 11:09
Total/NA	Analysis	8270E		1	787451	H7CM	EET CHI	09/24/24 11:55

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB81 (7.5-10)
Lab Sample ID: 500-256578-2
Date Collected: 09/11/24 08:30
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 13:45
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	789080	MS	EET CHI	10/04/24 12:12
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		1	788040	RB	EET CHI	09/26/24 18:06
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		5	788202	SJ	EET CHI	09/27/24 17:13
Total/NA	Prep	7471B			787953	MJG	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:46
Total/NA	Prep	9010C			787155	AC	EET CHI	09/22/24 10:15 - 09/22/24 10:45 [1]
Total/NA	Analysis	9012B		10	787313	AC	EET CHI	09/23/24 10:22

Client Sample ID: SB82 (0-3)
Lab Sample ID: 500-256578-3
Date Collected: 09/11/24 09:49
Matrix: Solid
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786737	ST	EET CHI	09/18/24 15:23
Total/NA	Analysis	Moisture		1	786933	DG	EET CHI	09/19/24 15:40

Client Sample ID: SB82 (0-3)
Lab Sample ID: 500-256578-3
Date Collected: 09/11/24 09:49
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785854		EET CHI	09/12/24 18:44
Total/NA	Analysis	8260D		1	786066	PMF	EET CHI	09/14/24 12:04
Total/NA	Prep	3546			787300	EK	EET CHI	09/23/24 11:09
Total/NA	Analysis	8270E		1	787529	H7CM	EET CHI	09/24/24 16:09
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 13:56
Total/NA	Prep	3541			789821	SV	EET CHI	10/09/24 14:48 - 10/09/24 21:00 [1]
Total/NA	Analysis	8082A		20	790060	NMB	EET CHI	10/11/24 10:44
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		1	788040	RB	EET CHI	09/26/24 18:10
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		5	788202	SJ	EET CHI	09/27/24 17:18
Total/NA	Prep	7471B			787953	MJG	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:48
Total/NA	Prep	9010C			787155	AC	EET CHI	09/22/24 10:15 - 09/22/24 10:45 [1]
Total/NA	Analysis	9012B		10	787313	AC	EET CHI	09/23/24 10:27

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256578-1

Client Sample ID: SB82 (5-7.5)
Date Collected: 09/11/24 10:03
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786737	ST	EET CHI	09/18/24 15:26
Total/NA	Analysis	Moisture		1	786933	DG	EET CHI	09/19/24 15:40

Client Sample ID: SB82 (5-7.5)
Date Collected: 09/11/24 10:03
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-4
Matrix: Solid
Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785854		EET CHI	09/12/24 18:44
Total/NA	Analysis	8260D		1	786066	PMF	EET CHI	09/14/24 12:29
Total/NA	Prep	3546			787300	EK	EET CHI	09/23/24 11:09
Total/NA	Analysis	8270E		1	787529	H7CM	EET CHI	09/24/24 16:32
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 14:08
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	789080	MS	EET CHI	10/04/24 12:42
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		1	788040	RB	EET CHI	09/26/24 18:15
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		5	788202	SJ	EET CHI	09/27/24 17:22
Total/NA	Prep	7471B			787953	MJG	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 10:50
Total/NA	Prep	9010C			787155	AC	EET CHI	09/22/24 10:15 - 09/22/24 10:45 [1]
Total/NA	Analysis	9012B		10	787313	AC	EET CHI	09/23/24 10:32

Client Sample ID: SB83 (0-3)
Date Collected: 09/11/24 11:04
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786737	ST	EET CHI	09/18/24 15:28
Total/NA	Analysis	Moisture		1	786933	DG	EET CHI	09/19/24 15:40

Client Sample ID: SB83 (0-3)
Date Collected: 09/11/24 11:04
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-5
Matrix: Solid
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785854		EET CHI	09/12/24 18:44
Total/NA	Analysis	8260D		1	786066	PMF	EET CHI	09/14/24 12:54
Total/NA	Prep	3546			787300	EK	EET CHI	09/23/24 11:09
Total/NA	Analysis	8270E		2	787529	H7CM	EET CHI	09/24/24 16:57
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 14:19

Client Sample ID: SB83 (0-3)
Lab Sample ID: 500-256578-5

Date Collected: 09/11/24 11:04
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	789080	MS	EET CHI	10/04/24 12:58
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		1	788040	RB	EET CHI	09/26/24 18:29
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		5	788202	SJ	EET CHI	09/27/24 17:27
Total/NA	Prep	7471B			787953	MJG	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 11:04
Total/NA	Prep	9010C			787155	AC	EET CHI	09/22/24 10:15 - 09/22/24 10:45 [1]
Total/NA	Analysis	9012B		10	787313	AC	EET CHI	09/23/24 10:37

Client Sample ID: SB83 (3-5)
Lab Sample ID: 500-256578-6

Date Collected: 09/11/24 11:10
Matrix: Solid
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786737	ST	EET CHI	09/18/24 15:31
Total/NA	Analysis	Moisture		1	786933	DG	EET CHI	09/19/24 15:40

Client Sample ID: SB83 (3-5)
Lab Sample ID: 500-256578-6

Date Collected: 09/11/24 11:10
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785854		EET CHI	09/12/24 18:44
Total/NA	Analysis	8260D		1	786066	PMF	EET CHI	09/14/24 13:18
Total/NA	Prep	3546			787300	EK	EET CHI	09/23/24 11:09
Total/NA	Analysis	8270E		2	787529	H7CM	EET CHI	09/24/24 17:21
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 14:31
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	789080	MS	EET CHI	10/04/24 13:13
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		1	788040	RB	EET CHI	09/26/24 18:33
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		5	788202	SJ	EET CHI	09/27/24 17:31
Total/NA	Prep	7471B			787953	MJG	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 11:06
Total/NA	Prep	9010C			787155	AC	EET CHI	09/22/24 10:15 - 09/22/24 10:45 [1]
Total/NA	Analysis	9012B		5	787313	AC	EET CHI	09/23/24 10:41

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256578-1

Client Sample ID: SB84 (0-3)
Date Collected: 09/11/24 12:18
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786737	ST	EET CHI	09/18/24 15:33
Total/NA	Analysis	Moisture		1	786933	DG	EET CHI	09/19/24 15:40

Client Sample ID: SB84 (0-3)
Date Collected: 09/11/24 12:18
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-7
Matrix: Solid
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785854		EET CHI	09/12/24 18:44
Total/NA	Analysis	8260D		1	786066	PMF	EET CHI	09/14/24 13:43
Total/NA	Prep	3546			787300	EK	EET CHI	09/23/24 11:09
Total/NA	Analysis	8270E		1	787529	H7CM	EET CHI	09/24/24 17:45
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 16:40
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	789080	MS	EET CHI	10/04/24 13:28
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		1	788040	RB	EET CHI	09/26/24 18:38
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		5	788202	SJ	EET CHI	09/27/24 17:45
Total/NA	Prep	7471B			787953	MJG	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 11:08
Total/NA	Prep	9010C			787155	AC	EET CHI	09/22/24 10:15 - 09/22/24 10:45 [1]
Total/NA	Analysis	9012B		5	787313	AC	EET CHI	09/23/24 11:48

Client Sample ID: SB84 (5-7.5)
Date Collected: 09/11/24 12:30
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786737	ST	EET CHI	09/18/24 15:36
Total/NA	Analysis	Moisture		1	786933	DG	EET CHI	09/19/24 15:40

Client Sample ID: SB84 (5-7.5)
Date Collected: 09/11/24 12:30
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-8
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785854		EET CHI	09/12/24 18:44
Total/NA	Analysis	8260D		1	786066	PMF	EET CHI	09/14/24 14:08
Total/NA	Prep	3546			787300	EK	EET CHI	09/23/24 11:09
Total/NA	Analysis	8270E		1	787529	H7CM	EET CHI	09/24/24 18:10
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 16:52

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256578-1

Client Sample ID: SB84 (5-7.5)

Lab Sample ID: 500-256578-8
Date Collected: 09/11/24 12:30
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	789080	MS	EET CHI	10/04/24 13:44
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		1	788040	RB	EET CHI	09/26/24 18:43
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		5	788202	SJ	EET CHI	09/27/24 17:50
Total/NA	Prep	7471B			787953	MJG	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 11:09
Total/NA	Prep	9010C			787155	AC	EET CHI	09/22/24 10:15 - 09/22/24 10:45 [1]
Total/NA	Analysis	9012B		5	787313	AC	EET CHI	09/23/24 10:48

Client Sample ID: SB85 (0-3)

Lab Sample ID: 500-256578-9
Date Collected: 09/11/24 13:17
Matrix: Solid
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786737	ST	EET CHI	09/18/24 15:41
Total/NA	Analysis	Moisture		1	787082	DG	EET CHI	09/20/24 11:50

Client Sample ID: SB85 (0-3)

Lab Sample ID: 500-256578-9
Date Collected: 09/11/24 13:17
Matrix: Solid
Date Received: 09/12/24 12:06
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785854		EET CHI	09/12/24 18:44
Total/NA	Analysis	8260D		1	786066	PMF	EET CHI	09/14/24 14:33
Total/NA	Prep	3546			787300	EK	EET CHI	09/23/24 11:09
Total/NA	Analysis	8270E		1	787529	H7CM	EET CHI	09/24/24 18:34
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 17:03
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	789080	MS	EET CHI	10/04/24 13:59
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		1	788040	RB	EET CHI	09/26/24 18:48
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		5	788202	SJ	EET CHI	09/27/24 17:54
Total/NA	Prep	7471B			787953	MJG	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 11:11
Total/NA	Prep	9010C			787155	AC	EET CHI	09/22/24 10:15 - 09/22/24 10:45 [1]
Total/NA	Analysis	9012B		5	787313	AC	EET CHI	09/23/24 10:52

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256578-1

Client Sample ID: SB85 (10-12.5)

Date Collected: 09/11/24 13:48
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786737	ST	EET CHI	09/18/24 12:45
Total/NA	Analysis	Moisture		1	787082	DG	EET CHI	09/20/24 11:50

Client Sample ID: SB85 (10-12.5)

Date Collected: 09/11/24 13:48
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-10

Matrix: Solid
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785854		EET CHI	09/12/24 18:44
Total/NA	Analysis	8260D		1	786066	PMF	EET CHI	09/14/24 14:57
Total/NA	Prep	3546			787300	EK	EET CHI	09/23/24 11:09
Total/NA	Analysis	8270E		1	787529	H7CM	EET CHI	09/24/24 18:58
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 17:15
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	789080	MS	EET CHI	10/04/24 14:14
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		1	788040	RB	EET CHI	09/26/24 18:52
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		5	788202	SJ	EET CHI	09/27/24 17:59
Total/NA	Prep	7471B			787953	MJG	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 11:19
Total/NA	Prep	9010C			787155	AC	EET CHI	09/22/24 10:15 - 09/22/24 10:45 [1]
Total/NA	Analysis	9012B		5	787313	AC	EET CHI	09/23/24 11:00

Client Sample ID: SB86 (0-3)

Date Collected: 09/11/24 14:37
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786737	ST	EET CHI	09/18/24 12:48
Total/NA	Analysis	Moisture		1	787082	DG	EET CHI	09/20/24 11:50

Client Sample ID: SB86 (0-3)

Date Collected: 09/11/24 14:37
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-11

Matrix: Solid
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785854		EET CHI	09/12/24 18:44
Total/NA	Analysis	8260D		1	786066	PMF	EET CHI	09/14/24 15:22
Total/NA	Prep	3546			787300	EK	EET CHI	09/23/24 11:09
Total/NA	Analysis	8270E		2	787529	H7CM	EET CHI	09/24/24 19:22
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 17:27

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256578-1

Client Sample ID: SB86 (0-3)

Date Collected: 09/11/24 14:37
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-11

Matrix: Solid
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	789080	MS	EET CHI	10/04/24 14:30
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		1	788040	RB	EET CHI	09/26/24 18:57
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		5	788202	SJ	EET CHI	09/27/24 18:03
Total/NA	Prep	7471B			787953	MJG	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 11:21
Total/NA	Prep	9010C			787155	AC	EET CHI	09/22/24 10:15 - 09/22/24 10:45 [1]
Total/NA	Analysis	9012B		5	787313	AC	EET CHI	09/23/24 11:05

Client Sample ID: SB86 (7.5-10)

Date Collected: 09/11/24 14:50
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786737	ST	EET CHI	09/18/24 12:57
Total/NA	Analysis	Moisture		1	787082	DG	EET CHI	09/20/24 11:50

Client Sample ID: SB86 (7.5-10)

Date Collected: 09/11/24 14:50
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-12

Matrix: Solid
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			785854		EET CHI	09/12/24 18:44
Total/NA	Analysis	8260D		1	786066	PMF	EET CHI	09/14/24 15:47
Total/NA	Prep	3546			787300	EK	EET CHI	09/23/24 11:09
Total/NA	Analysis	8270E		2	787529	H7CM	EET CHI	09/24/24 19:47
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788691	GLR	EET CHI	10/02/24 17:38
Total/NA	Prep	3541			787435	FRG	EET CHI	09/24/24 07:33 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	789080	MS	EET CHI	10/04/24 14:45
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		1	788040	RB	EET CHI	09/26/24 19:02
Total/NA	Prep	3050B			787481	BDE	EET CHI	09/24/24 09:43 - 09/24/24 15:43 [1]
Total/NA	Analysis	6010D		5	788202	SJ	EET CHI	09/27/24 18:08
Total/NA	Prep	7471B			787953	MJG	EET CHI	09/26/24 17:42
Total/NA	Analysis	7471B		1	788096	MJG	EET CHI	09/27/24 11:29
Total/NA	Prep	9010C			787155	AC	EET CHI	09/22/24 10:15 - 09/22/24 10:45 [1]
Total/NA	Analysis	9012B		5	787313	AC	EET CHI	09/23/24 11:25
Total/NA	Prep	9030B			627540	BLW	EET CLE	09/18/24 14:21
Total/NA	Analysis	9034		1	627541	BLW	EET CLE	09/18/24 14:24

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256578-1

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	02-13-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record 720434

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HANSOCK	Site Contact	Date:	COC No 1 of 1 COCs
Company Name PIONEER	Tel/Email: JHANSOCK@PIONEERTECH	Lab Contact	Carrier.	Sampler
Address	Analysis Turnaround Time			For Lab Use Only: Walk-in Client / Lab Sampling
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			
Phone	TAT if different from Below _____			Job / SDG No 500-256578
Fax	☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			
Project Name 8085 S Lone Star Pkwy				
Site				
P O # 44-0104-107				

500-256578 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
1 SB81 (0-3)	9/11/24	814	G	SO	4		X X	
2 SB81 (2.5-10)		830						
3 SB82 (0-3)		949						
4 SB82 (5-7.5)		1003						
5 SB83 (0-3)		1104						
6 SB83 (3-5)		1110						
7 SB84 (0-3)		1218						
8 SB84 (5-7.5)		1230						
9 SB85 (0-3)		117						
10 SB85 (10-12.5)		148						
11 SB86 (0-3)		237						
12 SB86 (7.5-10)		250						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.5→4.2 48QT

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	PIONEER	9/11/24		EETA	9/12/24 0855
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	EETA 9/12/24	1206			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				EETA	9/12/24 1206

Chain of Custody Record 720434

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HANSOCK	Site Contact	Date:	COC No 1 of 1 COCs
Company Name PIONEER	Tel/Email: JHANSOCK@PIONEERTX.COM	Lab Contact	Carrier.	Sampler
Address	Analysis Turnaround Time			For Lab Use Only: Walk-in Client / Lab Sampling
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			
Phone	TAT if different from Below			
Fax	☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Job / SDG No 500-256578
Project Name 8085 S Lone Star Hwy				
Site				
P O # 04-0104-107				

500-256578 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
1 SB81 (0-3)	9/11/24	814	G	SO	4		X X	
2 SB81 (2.5-10)		830						
3 SB82 (0-3)		949						
4 SB82 (5-7.5)		1003						
5 SB83 (0-3)		1104						
6 SB83 (3-5)		1110						
7 SB84 (0-3)		1218						
8 SB84 (5-7.5)		1230						
9 SB85 (0-3)		117						
10 SB85 (10-12.5)		148						
11 SB86 (0-3)		237						
12 SB86 (7.5-10)		250						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

4.5 → 4.2 48QT

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____			
Relinquished by	Company PIONEER	Date/Time 9/11/24	Received by	Company EETA	Date/Time 9/12/24 0855
Relinquished by	Company EETA 9/12/24	Date/Time 1206	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company EETA	Date/Time 9/12/24 1206

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192610.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256578-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 9/25/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

E190

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB81 (0-3) (500-256578-1)	9/11/24	08.14 Central	G	Solid			X	1	
SB86 (7 5-10) (500-256578-12)	9/11/24	14.50 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/16/24 0915		KATHARINE MARTIN	9/17/24 930	EUR
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative — **Login # :** _____
Barberton Facility

Client Eurofins Site Name _____ Cooler unpacked by: KM

Cooler Received on 9/17/24 Opened on 9/17/24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used. (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 22 (CF -0.1 °C) Observed Cooler Temp. 4.5 °C Corrected Cooler Temp 4.4 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2	(Yes) No	
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No NA	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	
-Were tamper/custody seals intact and uncompromised?	(Yes) No NA	
3 Shippers' packing slip attached to the cooler(s)?	(Yes) No	
4. Did custody papers accompany the sample(s)?	(Yes) No	
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No	
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12. Are these work share samples and all listed on the COC?	(Yes) No	
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA	pH Strip Lot# HC442471
14 Were VOAs on the COC?	Yes (No)	
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this	Yes No NA	
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes No	
17 Was a LL Hg or Me Hg trip blank present? _____	Yes No	

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page — Samples processed by:

_____

_____

_____

_____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE: 16SEP24
ACTWGT: 38.00 LB MAN
CAD: 0675858/CAFE3854

BILL SENDER

Part # 159469-534 MTW EXP 02/25

TO SAMPLE RECEIVING
EUROFINS – CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396
REF: 256504 576 – 578 588 609 687 688 719 746

FedEx Express

E

1 of 2
TRK# 7051 7620 9115
0201
MASTER

TUE – 17 SEP 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US CLE

A
9115
09 17
6
10:30
RT 164
FZ

eurofins | Environment Testing

Temperature Controlled

IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)

TAL-0090(1016)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192610.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256578-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 9/25/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

E190

Special Instructions/Note:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers
			Preservation Code:					
SB81 (0-3) (500-256578-1)	9/11/24	08.14 Central	G	Solid			X	1
SB86 (7 5-10) (500-256578-12)	9/11/24	14.50 Central	G	Solid			X	1

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	9/16/24 0915		KATHARINE MARTIN	9/17/24 930	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative — **Login # :** _____
Barberton Facility

Client Eurofins Site Name _____ Cooler unpacked by: KM

Cooler Received on 9/17/24 Opened on 9/17/24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used. (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 22 (CF -0.1 °C) Observed Cooler Temp. 4.5 °C Corrected Cooler Temp 4.4 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2	(Yes) No	
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No NA	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	
-Were tamper/custody seals intact and uncompromised?	(Yes) No NA	
3 Shippers' packing slip attached to the cooler(s)?	(Yes) No	
4. Did custody papers accompany the sample(s)?	(Yes) No	
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No	
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12. Are these work share samples and all listed on the COC?	(Yes) No	
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA	pH Strip Lot# HC442471
14 Were VOAs on the COC?	Yes (No)	
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this	Yes No NA	
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes No	
17 Was a LL Hg or Me Hg trip blank present? _____	Yes No	

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page — Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE: 16SEP24
ACTWGT: 38.00 LB MAN
CAD: 0675858/CAFE3854

BILL SENDER

Part # 159469-534 MTW EXP 02/25

TO SAMPLE RECEIVING
EUROFINS – CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396
REF: 256504 576 – 578 588 609 687 688 719 746

FedEx Express

E

1 of 2
TRK# 7051 7620 9115
0201
MASTER

TUE – 17 SEP 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US CLE

A
9115
09 17
RT 164 6 10:30
FZ

eurofins | Environment Testing

Temperature Controlled

IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)

TAL-0090(1016)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193735.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256578-2
Address: 180 S. Van Buren Avenue	Due Date Requested: 10/17/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M (MOD) a) 1 element, including prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:						EOS4
SB86 (0-3) (500-256578-11)	9/11/24	14.37 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hernandez	10/11/24 1600		KATHARINE MARTIN	10/12/24 920	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler unpacked by: ICM

Cooler Received on 10/12/24 Opened on 10/12/24

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt [X] See Multiple Cooler Form

IR GUN # 17 (CF +0.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12 Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen.

Login # : _____

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: _____	2.7	3.0	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
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EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

Temperature Controlled
IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)
TAL-0090(1016)
ORIGIN ID: JOTA (708) 534-6700
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES, US
TO SAMPLE RECEIVING
EUROFINS-CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203
REF: 256339 423 508 578 719 930 SH
SHIP DATE: 11OCT24
BILL SENDER
FedEx Express
3 of 4
MPS# 0263 7051 7621 1608
Mstr# 7051 7621 1182
XO CAKA
0201
SATURDAY 12:00P
PRIORITY OVERNIGHT
44203
OH-US
CLE
2546494

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193735.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256578-2
Address: 180 S. Van Buren Avenue	Due Date Requested: 10/17/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M (MOD) a) 1 element, including prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:						EO54
SB86 (0-3) (500-256578-11)	9/11/24	14.37 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hernandez	10/11/24 1600		KATHARINE MARTIN	10/12/24 920	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler Received on 10/12/24 Opened on 10/12/24

Cooler unpacked by: ICM

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt [X] See Multiple Cooler Form

IR GUN # 17 (CF +0.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12 Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen.

Login # : ______________

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: ______	2.7	3.0	(Wet Ice circled) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
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EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

Temperature Controlled
IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)
TAL-0090(1016)
ORIGIN ID: JOTA (708) 534-6700
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES, US
TO SAMPLE RECEIVING
EUROFINS-CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203
REF: 256339 423 508 578 719 930 SH
SHIP DATE: 11OCT24
BILL SENDER
3 of 4
MPS# 0263 7051 7621 1608
Mstr# 7051 7621 1182
XO CAKA
0201
SATURDAY 12:00P
PRIORITY OVERNIGHT
44203
OH-US
CLE
FedEx Express
Environment Testing
America
2546494

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256578-1

Login Number: 256578
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 10:34:34 AM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256719-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 10:34:34 AM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256719-1 — Eurofins Chicago

Job Narrative
500-256719-1

Revision
The report being provided is a revision of the original report sent on 10/7/2024. The report (revision 2) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 12/11/2024 - Reason - The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/13/2024 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

Receipt Exceptions

Sample SB87 (3-5) was lost in the lab and therefore no further analyses could be performed on the sample.

GC/MS VOA
Method 8260D: Surrogate recovery for the following samples were outside control limits: SB89 (3-5) (500-256719-6) and SB91 (0-3) (500-256719-9). Evidence of matrix interference is present (high sample pH); therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Surrogate/internal standard recovery for the following sample was outside control limits: SB90 (7.5-10) (500-256719-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-787646 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: SB87 (0-3) (500-256719-1). Elevated reporting limits (RLs) are provided.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB89 (0-3) (500-256719-5), SB89 (3-5) (500-256719-6), SB90 (0-3) (500-256719-7), SB91 (0-3) (500-256719-9), SB91 (12.5-15) (500-256719-10), SB92 (0-3) (500-256719-11) and SB92 (3-5) (500-256719-12). These results have been reported and qualified.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: SB87 (0-3) (500-256719-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB87 (0-3) (500-256719-1), SB87 (3-5) (500-256719-2), SB88 (0-3) (500-256719-3), SB88 (7.5-10) (500-256719-4), SB89 (0-3) (500-256719-5), SB89 (3-5) (500-256719-6), SB90 (0-3) (500-256719-7), SB90 (7.5-10) (500-256719-8), SB91 (0-3) (500-256719-9), SB91 (12.5-15) (500-256719-10), SB92 (0-3) (500-256719-11), SB92 (3-5) (500-256719-12), (500-256719-D-8-C MS) and (500-256719-D-8-D MSD). Elevated reporting limits (RLs) are provided.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-787438 and analytical batch 500-788611 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 500-256719-1 (Continued) Eurofins Chicago

Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB87 (0-3) (500-256719-1), SB87 (3-5) (500-256719-2), SB90 (0-3) (500-256719-7), SB90 (7.5-10) (500-256719-8), SB92 (0-3) (500-256719-11), (500-256719-D-8-C MS) and (500-256719-D-8-D MSD). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB89 (3-5) (500-256719-6). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB87 (0-3) (500-256719-1), SB87 (3-5) (500-256719-2), SB88 (0-3) (500-256719-3), SB88 (7.5-10) (500-256719-4), SB89 (0-3) (500-256719-5), SB89 (3-5) (500-256719-6), SB90 (0-3) (500-256719-7), SB92 (0-3) (500-256719-11) and SB92 (3-5) (500-256719-12). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-788855/3). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples were outside control limits: SB90 (7.5-10) (500-256719-8), (500-256719-D-8-E MS) and (500-256719-D-8-F MSD). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010D: The continuing calibration blank at line 60 in AD batch 788598 contained Mn greater than the reporting limit (RL). Associated samples were not reanalyzed because they had results greater than 10X the CCB result. The data have been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 9012B: The matrix spike duplicate (MSD) recoveries for preparation batch 500-787284 and analytical batch 500-787412 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 9034: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 240-627726 and analytical batch 240-627735 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB87 (0-3) — Lab Sample ID: 500-256719-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.018	J	0.023	0.0095	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0073		0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0010	J	0.0023	0.00045	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.00089	J	0.0045	0.00077	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.47		0.076	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.83		0.076	0.013	mg/Kg	2	☼	8270E	Total/NA
Anthracene	6.0		0.076	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	11		0.076	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	9.2		0.076	0.073	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	13		0.076	0.072	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	5.4		0.076	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	5.2		0.076	0.029	mg/Kg	2	☼	8270E	Total/NA
Chrysene	11		0.076	0.020	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	1.7		0.076	0.076	mg/Kg	2	☼	8270E	Total/NA
Fluorene	4.0		0.076	0.023	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	6.0		0.076	0.074	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.55		0.076	0.014	mg/Kg	2	☼	8270E	Total/NA
Pyrene	19		0.076	0.021	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.27		0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	3.8		0.38	0.030	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	1.7		0.38	0.027	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene - DL	39		1.9	0.44	mg/Kg	50	☼	8270E	Total/NA
Phenanthrene - DL	38		1.9	0.41	mg/Kg	50	☼	8270E	Total/NA
Aluminum	15000		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.8		5.5		mg/Kg	5	☼	6010D	Total/NA
Barium	180		5.5		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.2		2.2		mg/Kg	5	☼	6010D	Total/NA
Cadmium	4.4		1.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	210000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	360		5.5		mg/Kg	5	☼	6010D	Total/NA
Cobalt	8.7		0.55		mg/Kg	1	☼	6010D	Total/NA
Copper	160		5.5		mg/Kg	5	☼	6010D	Total/NA
Iron	87000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	260		2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	17000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	9400		5.5		mg/Kg	5	☼	6010D	Total/NA
Nickel	56	F1	5.5		mg/Kg	5	☼	6010D	Total/NA
Potassium	860		55		mg/Kg	1	☼	6010D	Total/NA
Sodium	610		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	48		5.5		mg/Kg	5	☼	6010D	Total/NA
Vanadium	77		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	1000		2.2		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.14		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	4.8		0.28		mg/Kg	1	☼	9012B	Total/NA
pH	7.73		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB87 (3-5) — Lab Sample ID: 500-256719-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0086		0.0049	0.00090	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00078	J	0.0020	0.00039	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB87 (3-5) (Continued)
Lab Sample ID: 500-256719-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.067		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.19		0.036	0.0062	mg/Kg	1	☼	8270E	Total/NA
Anthracene	1.0		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	2.7		0.036	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	2.1		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	3.1		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.3		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.3		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	2.6		0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.41		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	6.0		0.036	0.0085	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.51		0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.5		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.041		0.036	0.0066	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	5.2		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Pyrene	4.8		0.036	0.0099	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.030	J	0.074	0.0073	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.68		0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.23		0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	29000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.1		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	350		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.8		0.40		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.84		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	220000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	41		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.2		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	31		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	21000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	67		0.51		mg/Kg	1	☼	6010D	Total/NA
Magnesium	9500		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	5500		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	14		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1600		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	4.4		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	980		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	28		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	16		0.51		mg/Kg	1	☼	6010D	Total/NA
Zinc	280		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	16		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	9.96		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB88 (0-3)
Lab Sample ID: 500-256719-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0041		0.0041	0.00075	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0011	J	0.0016	0.00033	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.00098	J	0.0032	0.00056	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.010	J	0.035	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.023	J	0.035	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.043		0.035	0.033	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB88 (0-3) (Continued)
Lab Sample ID: 500-256719-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.042		0.035	0.0075	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.024	J	0.035	0.0092	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.032	J	0.035	0.0081	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.0065	J	0.035	0.0063	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.028	J	0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.030	J	0.035	0.0095	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.013	J	0.17	0.012	mg/Kg	1	☼	8270E	Total/NA
Aluminum	9800		19		mg/Kg	1	☼	6010D	Total/NA
Barium	99		4.6		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.5		1.9		mg/Kg	5	☼	6010D	Total/NA
Calcium	210000		93		mg/Kg	5	☼	6010D	Total/NA
Chromium	38		0.93		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.5		0.46		mg/Kg	1	☼	6010D	Total/NA
Copper	8.1		4.6		mg/Kg	5	☼	6010D	Total/NA
Iron	93000		93		mg/Kg	5	☼	6010D	Total/NA
Lead	6.8		2.3		mg/Kg	5	☼	6010D	Total/NA
Magnesium	18000		9.3		mg/Kg	1	☼	6010D	Total/NA
Manganese	3200		4.6		mg/Kg	5	☼	6010D	Total/NA
Nickel	5.1		4.6		mg/Kg	5	☼	6010D	Total/NA
Potassium	520		46		mg/Kg	1	☼	6010D	Total/NA
Sodium	400		93		mg/Kg	1	☼	6010D	Total/NA
Thallium	17		4.6		mg/Kg	5	☼	6010D	Total/NA
Vanadium	53		2.3		mg/Kg	5	☼	6010D	Total/NA
Zinc	21		1.9		mg/Kg	1	☼	6010D	Total/NA
pH	9.06		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB88 (7.5-10)
Lab Sample ID: 500-256719-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.0011	J	0.0017	0.00034	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0012	J	0.0033	0.00057	mg/Kg	1	☼	8260D	Total/NA
Pyrene	0.0095	J	0.034	0.0095	mg/Kg	1	☼	8270E	Total/NA
Aluminum	810		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.5		0.93		mg/Kg	1	☼	6010D	Total/NA
Barium	8.5		0.93		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.37		0.37		mg/Kg	1	☼	6010D	Total/NA
Calcium	170000		93		mg/Kg	5	☼	6010D	Total/NA
Chromium	10		0.93		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.0		0.46		mg/Kg	1	☼	6010D	Total/NA
Copper	3.7		0.93		mg/Kg	1	☼	6010D	Total/NA
Iron	40000		19		mg/Kg	1	☼	6010D	Total/NA
Magnesium	2800		9.3		mg/Kg	1	☼	6010D	Total/NA
Manganese	710		0.93		mg/Kg	1	☼	6010D	Total/NA
Nickel	3.0		0.93		mg/Kg	1	☼	6010D	Total/NA
Sodium	100		93		mg/Kg	1	☼	6010D	Total/NA
Thallium	2.8		0.93		mg/Kg	1	☼	6010D	Total/NA
Vanadium	12		0.46		mg/Kg	1	☼	6010D	Total/NA
Zinc	12		1.9		mg/Kg	1	☼	6010D	Total/NA
pH	8.88		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB89 (0-3) — Lab Sample ID: 500-256719-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.019	0.0078	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0013	J	0.0046	0.00086	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.015	J	0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.11		0.035	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.12		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.16		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.081		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.071		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.13		0.035	0.0094	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.21		0.035	0.0082	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.089		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.055		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.18		0.035	0.0097	mg/Kg	1	☼	8270E	Total/NA
4,4'-DDT	0.0097	J	0.018	0.0086	mg/Kg	10	☼	8081B	Total/NA
Aluminum	11000		20		mg/Kg	1	☼	6010D	Total/NA
Antimony	9.0		2.0		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.5		0.98		mg/Kg	1	☼	6010D	Total/NA
Barium	87		4.9		mg/Kg	5	☼	6010D	Total/NA
Beryllium	0.47		0.39		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.35		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	73000		98		mg/Kg	5	☼	6010D	Total/NA
Chromium	2800		20		mg/Kg	20	☼	6010D	Total/NA
Cobalt	26		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	75		0.98		mg/Kg	1	☼	6010D	Total/NA
Iron	58000		98		mg/Kg	5	☼	6010D	Total/NA
Lead	15		0.49		mg/Kg	1	☼	6010D	Total/NA
Magnesium	96000		49		mg/Kg	5	☼	6010D	Total/NA
Manganese	14000		20		mg/Kg	20	☼	6010D	Total/NA
Nickel	260		0.98		mg/Kg	1	☼	6010D	Total/NA
Potassium	450		49		mg/Kg	1	☼	6010D	Total/NA
Selenium	5.0		0.98		mg/Kg	1	☼	6010D	Total/NA
Sodium	160		98		mg/Kg	1	☼	6010D	Total/NA
Thallium	53		20		mg/Kg	20	☼	6010D	Total/NA
Vanadium	140		0.49		mg/Kg	1	☼	6010D	Total/NA
Zinc	63		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.037		0.017		mg/Kg	1	☼	7471B	Total/NA
pH	10.84		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB89 (3-5) — Lab Sample ID: 500-256719-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0047	J	0.0048	0.0021	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.020		0.019	0.0080	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0055		0.0048	0.00088	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00051	J	0.0019	0.00038	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.027	J	0.034	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.051		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.017	J	0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.039		0.034	0.0090	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.053		0.034	0.0079	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.031	J	0.034	0.0074	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB89 (3-5) (Continued)
Lab Sample ID: 500-256719-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.040		0.034	0.0093	mg/Kg	1	☼	8270E	Total/NA
Phenol	0.050	J	0.17	0.015	mg/Kg	1	☼	8270E	Total/NA
Aluminum	15000		18		mg/Kg	1	☼	6010D	Total/NA
Barium	160		4.5		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.0		1.8		mg/Kg	5	☼	6010D	Total/NA
Calcium	130000		90		mg/Kg	5	☼	6010D	Total/NA
Chromium	1500		18		mg/Kg	20	☼	6010D	Total/NA
Cobalt	4.5		0.45		mg/Kg	1	☼	6010D	Total/NA
Copper	40		4.5		mg/Kg	5	☼	6010D	Total/NA
Iron	74000		90		mg/Kg	5	☼	6010D	Total/NA
Lead	21		2.2		mg/Kg	5	☼	6010D	Total/NA
Magnesium	38000		9.0		mg/Kg	1	☼	6010D	Total/NA
Manganese	31000		18		mg/Kg	20	☼	6010D	Total/NA
Nickel	51		4.5		mg/Kg	5	☼	6010D	Total/NA
Potassium	920		45		mg/Kg	1	☼	6010D	Total/NA
Sodium	470		90		mg/Kg	1	☼	6010D	Total/NA
Thallium	110		18		mg/Kg	20	☼	6010D	Total/NA
Vanadium	250		2.2		mg/Kg	5	☼	6010D	Total/NA
Zinc	84		1.8		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.025		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.34		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	11.51		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB90 (0-3)
Lab Sample ID: 500-256719-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016	J	0.018	0.0077	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.00097	J	0.0046	0.00084	mg/Kg	1	☼	8260D	Total/NA
Aluminum	20000		21		mg/Kg	1	☼	6010D	Total/NA
Antimony	5.4		2.1		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.7		5.1		mg/Kg	5	☼	6010D	Total/NA
Barium	310		5.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.7		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	200000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	3100		21		mg/Kg	20	☼	6010D	Total/NA
Cobalt	4.1		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	200		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	120000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	50		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	42000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	47000		21		mg/Kg	20	☼	6010D	Total/NA
Nickel	92		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	66		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	7.0		5.1		mg/Kg	5	☼	6010D	Total/NA
Sodium	190		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	160		21		mg/Kg	20	☼	6010D	Total/NA
Vanadium	710		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	250		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.075		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.85		0.23		mg/Kg	1	☼	9012B	Total/NA
pH	11.20		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB90 (7.5-10)
Lab Sample ID: 500-256719-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.021		0.0046	0.0020	mg/Kg	1	☼	8260D	Total/NA
2-Hexanone	0.0076		0.0046	0.0028	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.083		0.018	0.0077	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0036	J	0.0046	0.00084	mg/Kg	1	☼	8260D	Total/NA
PCB-1248	0.21		0.18		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.21		0.18		mg/Kg	10	☼	8082A	Total/NA
Aluminum	11000		21		mg/Kg	1	☼	6010D	Total/NA
Barium	140		5.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	2.4		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	120000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	1300		21		mg/Kg	20	☼	6010D	Total/NA
Cobalt	5.1		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	80		5.1		mg/Kg	5	☼	6010D	Total/NA
Iron	82000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	68		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	33000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	21000		21		mg/Kg	20	☼	6010D	Total/NA
Nickel	150		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	240		51		mg/Kg	1	☼	6010D	Total/NA
Sodium	230		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	76		21		mg/Kg	20	☼	6010D	Total/NA
Vanadium	400		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	230		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.049		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.4		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	9.99		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB91 (0-3)
Lab Sample ID: 500-256719-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0033	J	0.0051	0.00093	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.0097	J	0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.023	J	0.035	0.0060	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.033	J	0.035	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.19		0.035	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.24		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.37		0.035	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.28		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.16		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.26		0.035	0.0093	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.067		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.37		0.035	0.0082	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.26		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.014	J	0.035	0.0064	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.14		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.39		0.035	0.0096	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.020	J	0.071	0.0071	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.15	J	0.18	0.14	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.014	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.013	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
PCB-1248	0.44		0.17		mg/Kg	10	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB91 (0-3) (Continued)
Lab Sample ID: 500-256719-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Polychlorinated biphenyls, Total	0.44		0.17		mg/Kg	10	☼	8082A	Total/NA
Aluminum	19000		20		mg/Kg	1	☼	6010D	Total/NA
Barium	240		5.0		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.8		2.0		mg/Kg	5	☼	6010D	Total/NA
Cadmium	150		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	180000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	1300		20		mg/Kg	20	☼	6010D	Total/NA
Cobalt	5.8		0.50		mg/Kg	1	☼	6010D	Total/NA
Copper	100		5.0		mg/Kg	5	☼	6010D	Total/NA
Iron	88000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	280		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	36000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	21000		20		mg/Kg	20	☼	6010D	Total/NA
Nickel	64		5.0		mg/Kg	5	☼	6010D	Total/NA
Potassium	550		50		mg/Kg	1	☼	6010D	Total/NA
Sodium	480		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	75		20		mg/Kg	20	☼	6010D	Total/NA
Vanadium	250		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	1400		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.18	F1	0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	3.2		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	10.84		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB91 (12.5-15)
Lab Sample ID: 500-256719-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0010	J	0.0054	0.00099	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.030	J	0.037	0.0062	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.039		0.037	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.18		0.037	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.22		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.36		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.24		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.13		0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.28		0.037	0.0097	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.059		0.037	0.037	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.36		0.037	0.0085	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.22		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.019	J	0.037	0.0066	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.16		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.35		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.028	J	0.074	0.0074	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.22		0.18	0.14	mg/Kg	1	☼	8270E	Total/NA
Butyl benzyl phthalate	0.022	J	0.18	0.018	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.025	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.018	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
PCB-1248	0.52		0.18		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.52		0.18		mg/Kg	10	☼	8082A	Total/NA
Aluminum	13000		19		mg/Kg	1	☼	6010D	Total/NA
Barium	220		4.9		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.3		1.9		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB91 (12.5-15) (Continued)
Lab Sample ID: 500-256719-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	2.2		0.97		mg/Kg	5	☼	6010D	Total/NA
Calcium	120000		97		mg/Kg	5	☼	6010D	Total/NA
Chromium	720		4.9		mg/Kg	5	☼	6010D	Total/NA
Cobalt	7.0		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	100		4.9		mg/Kg	5	☼	6010D	Total/NA
Iron	100000		97		mg/Kg	5	☼	6010D	Total/NA
Lead	190		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	24000		9.7		mg/Kg	1	☼	6010D	Total/NA
Manganese	23000		19		mg/Kg	20	☼	6010D	Total/NA
Nickel	69		4.9		mg/Kg	5	☼	6010D	Total/NA
Potassium	500		49		mg/Kg	1	☼	6010D	Total/NA
Sodium	420		97		mg/Kg	1	☼	6010D	Total/NA
Thallium	85		19		mg/Kg	20	☼	6010D	Total/NA
Vanadium	230		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	340		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.13		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	6.9		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	10.69		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB92 (0-3)
Lab Sample ID: 500-256719-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.012		0.0064	0.0028	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.079		0.026	0.011	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0067		0.0064	0.0012	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.0090	J	0.036	0.0061	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.012	J	0.036	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.062		0.036	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.051		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.10		0.036	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.069		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.026	J	0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.069		0.036	0.0095	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.098		0.036	0.0084	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.059		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.055		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.10		0.036	0.0098	mg/Kg	1	☼	8270E	Total/NA
Aluminum	19000		18		mg/Kg	1	☼	6010D	Total/NA
Barium	290		4.6		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.7		1.8		mg/Kg	5	☼	6010D	Total/NA
Calcium	170000		91		mg/Kg	5	☼	6010D	Total/NA
Chromium	350		4.6		mg/Kg	5	☼	6010D	Total/NA
Cobalt	8.2		0.46		mg/Kg	1	☼	6010D	Total/NA
Copper	210		4.6		mg/Kg	5	☼	6010D	Total/NA
Iron	100000		91		mg/Kg	5	☼	6010D	Total/NA
Lead	68		2.3		mg/Kg	5	☼	6010D	Total/NA
Magnesium	21000		9.1		mg/Kg	1	☼	6010D	Total/NA
Manganese	14000		18		mg/Kg	20	☼	6010D	Total/NA
Nickel	160		4.6		mg/Kg	5	☼	6010D	Total/NA
Potassium	690		46		mg/Kg	1	☼	6010D	Total/NA
Sodium	430		91		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB92 (0-3) (Continued) — Lab Sample ID: 500-256719-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	50		18		mg/Kg	20	☼	6010D	Total/NA
Vanadium	140		2.3		mg/Kg	5	☼	6010D	Total/NA
Zinc	120		1.8		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.044		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	6.0	F1	1.3		mg/Kg	5	☼	9012B	Total/NA
Sulfide	360		32		mg/Kg	1	☼	9034	Total/NA
pH	10.52		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB92 (3-5) — Lab Sample ID: 500-256719-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0083		0.0054	0.0024	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.043		0.022	0.0091	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0057		0.0054	0.0010	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.011	J	0.034	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.058		0.034	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.050		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.097		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.057		0.034	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.038		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.085		0.034	0.0091	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.11		0.034	0.0080	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.054		0.034	0.034	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.052		0.034	0.0075	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.11		0.034	0.0094	mg/Kg	1	☼	8270E	Total/NA
Aluminum	22000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.1		5.2		mg/Kg	5	☼	6010D	Total/NA
Barium	360		5.2		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.9		2.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	180000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	1700		21		mg/Kg	20	☼	6010D	Total/NA
Cobalt	3.3		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	77		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	73000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	68		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	20000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	20000	^2	21		mg/Kg	20	☼	6010D	Total/NA
Nickel	69		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	810		52		mg/Kg	1	☼	6010D	Total/NA
Sodium	450		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	74		21		mg/Kg	20	☼	6010D	Total/NA
Vanadium	260		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	150		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.026		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.3		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	10.71		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256719-1	SB87 (0-3)	Solid	09/12/24 08:01	09/13/24 12:00
500-256719-2	SB87 (3-5)	Solid	09/12/24 08:06	09/13/24 12:00
500-256719-3	SB88 (0-3)	Solid	09/12/24 08:47	09/13/24 12:00
500-256719-4	SB88 (7.5-10)	Solid	09/12/24 09:06	09/13/24 12:00
500-256719-5	SB89 (0-3)	Solid	09/12/24 09:45	09/13/24 12:00
500-256719-6	SB89 (3-5)	Solid	09/12/24 09:51	09/13/24 12:00
500-256719-7	SB90 (0-3)	Solid	09/12/24 10:47	09/13/24 12:00
500-256719-8	SB90 (7.5-10)	Solid	09/12/24 11:11	09/13/24 12:00
500-256719-9	SB91 (0-3)	Solid	09/12/24 12:30	09/13/24 12:00
500-256719-10	SB91 (12.5-15)	Solid	09/12/24 12:57	09/13/24 12:00
500-256719-11	SB92 (0-3)	Solid	09/12/24 13:44	09/13/24 12:00
500-256719-12	SB92 (3-5)	Solid	09/12/24 13:52	09/13/24 12:00

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB87 (0-3)
Lab Sample ID: 500-256719-1
Date Collected: 09/12/24 08:01
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 85.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00091		0.0023	0.00091	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
1,1,2-Trichloroethane	<0.00084		0.0023	0.00084	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
1,1-Dichloroethane	<0.00085		0.0023	0.00085	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
1,1-Dichloroethene	<0.00093		0.0023	0.00093	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
1,2-Dichloroethane	<0.0015		0.0056	0.0015	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
1,2-Dichloropropane	<0.00058		0.0023	0.00058	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
2-Butanone (MEK)	<0.0025		0.0056	0.0025	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Acetone	**0.018**	**J**	0.023	0.0095	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Benzene	<0.00071		0.0023	0.00071	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Bromodichloromethane	<0.00072		0.0023	0.00072	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Bromomethane	<0.0028		0.0056	0.0028	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Carbon disulfide	**0.0073**		0.0056	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Carbon tetrachloride	<0.00077		0.0023	0.00077	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Chlorobenzene	<0.00095		0.0023	0.00095	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Chloroethane	<0.0019		0.0056	0.0019	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Chloroform	<0.0016		0.0023	0.0016	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
cis-1,2-Dichloroethene	<0.00091		0.0023	0.00091	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Dibromochloromethane	<0.0010		0.0023	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Methyl tert-butyl ether	<0.00073		0.0023	0.00073	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Toluene	**0.0010**	**J**	0.0023	0.00045	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Xylenes, Total	**0.00089**	**J**	0.0045	0.00077	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
trans-1,2-Dichloroethene	<0.00085		0.0023	0.00085	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Trichloroethene	<0.00061		0.0023	0.00061	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1
Vinyl chloride	<0.00092		0.0023	0.00092	mg/Kg	☼	09/13/24 19:48	09/18/24 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/13/24 19:48*	*09/18/24 11:42*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 131*	*09/13/24 19:48*	*09/18/24 11:42*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/13/24 19:48*	*09/18/24 11:42*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*09/13/24 19:48*	*09/18/24 11:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.47**		0.076	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Acenaphthylene	**0.83**		0.076	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Anthracene	**6.0**		0.076	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Benzo[a]anthracene	**11**		0.076	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Benzo[a]pyrene	**9.2**		0.076	0.073	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Benzo[b]fluoranthene	**13**		0.076	0.072	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Benzo[g,h,i]perylene	**5.4**		0.076	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2

Client Sample ID: SB87 (0-3)
Lab Sample ID: 500-256719-1
Date Collected: 09/12/24 08:01
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 85.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**5.2**		0.076	0.029	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Chrysene	**11**		0.076	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Dibenz(a,h)anthracene	**1.7**		0.076	0.076	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Fluorene	**4.0**		0.076	0.023	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Indeno[1,2,3-cd]pyrene	**6.0**		0.076	0.074	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Naphthalene	**0.55**		0.076	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Pyrene	**19**		0.076	0.021	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
1,2,4-Trichlorobenzene	<0.054		0.38	0.054	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
1,2-Dichlorobenzene	<0.031		0.38	0.031	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
1,3-Dichlorobenzene	<0.034		0.38	0.034	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
1,4-Dichlorobenzene	<0.036		0.38	0.036	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2,4,5-Trichlorophenol	<0.029		0.76	0.029	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2,4,6-Trichlorophenol	<0.026		0.76	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2,4-Dichlorophenol	<0.027		0.76	0.027	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2,4-Dimethylphenol	<0.17		0.76	0.17	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2,4-Dinitrophenol	<0.44		1.5	0.44	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2,4-Dinitrotoluene	<0.043		0.38	0.043	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2,6-Dinitrotoluene	<0.026		0.38	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2-Chloronaphthalene	<0.028		0.38	0.028	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2-Chlorophenol	<0.025		0.38	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2-Methylnaphthalene	**0.27**		0.15	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2-Methylphenol	<0.040		0.38	0.040	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2-Nitroaniline	<0.041		0.38	0.041	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
2-Nitrophenol	<0.052		0.76	0.052	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
3,3'-Dichlorobenzidine	<0.062		0.38	0.062	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
3 & 4 Methylphenol	<0.056		0.38	0.056	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
3-Nitroaniline	<0.035		0.76	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
4,6-Dinitro-2-methylphenol	<0.43		1.5	0.43	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
4-Bromophenyl phenyl ether	<0.052		0.38	0.052	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
4-Chloro-3-methylphenol	<0.030		0.76	0.030	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
4-Chloroaniline	<0.80		1.5	0.80	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
4-Chlorophenyl phenyl ether	<0.10		0.38	0.10	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
4-Nitroaniline	<0.056		0.76	0.056	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
4-Nitrophenol	<0.28		1.5	0.28	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Bis(2-chloroethoxy)methane	<0.028		0.38	0.028	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Bis(2-chloroethyl)ether	<0.035		0.38	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
bis(chloroisopropyl) ether	<0.055		0.38	0.055	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Bis(2-ethylhexyl) phthalate	<0.30		0.38	0.30	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Butyl benzyl phthalate	<0.038		0.38	0.038	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Carbazole	**3.8**		0.38	0.030	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Dibenzofuran	**1.7**		0.38	0.027	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Diethyl phthalate	<0.035		0.38	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Dimethyl phthalate	<0.017		0.38	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Di-n-butyl phthalate	<0.024		0.38	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Di-n-octyl phthalate	<0.53		0.76	0.53	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Hexachlorobenzene	<0.015		0.15	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Hexachlorobutadiene	<0.043		0.38	0.043	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Hexachlorocyclopentadiene	<0.81		1.5	0.81	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Hexachloroethane	<0.038		0.38	0.038	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2

Client Sample ID: SB87 (0-3)
Lab Sample ID: 500-256719-1
Date Collected: 09/12/24 08:01
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 85.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<0.039		0.38	0.039	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Nitrobenzene	<0.024		0.076	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
N-Nitrosodiphenylamine	<0.045		0.38	0.045	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Pentachlorophenol	<0.19		1.5	0.19	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2
Phenol	<0.033		0.38	0.033	mg/Kg	☼	09/24/24 15:03	09/25/24 11:35	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*31 - 166*	*09/24/24 15:03*	*09/25/24 11:35*	*2*
Phenol-d5 (Surr)	*60*		*30 - 153*	*09/24/24 15:03*	*09/25/24 11:35*	*2*
Nitrobenzene-d5 (Surr)	*62*		*37 - 147*	*09/24/24 15:03*	*09/25/24 11:35*	*2*
2-Fluorobiphenyl (Surr)	*66*		*43 - 145*	*09/24/24 15:03*	*09/25/24 11:35*	*2*
2,4,6-Tribromophenol (Surr)	*37*		*31 - 143*	*09/24/24 15:03*	*09/25/24 11:35*	*2*
Terphenyl-d14 (Surr)	*67*		*42 - 157*	*09/24/24 15:03*	*09/25/24 11:35*	*2*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**39**		1.9	0.44	mg/Kg	☼	09/24/24 15:03	09/26/24 13:49	50
Phenanthrene	**38**		1.9	0.41	mg/Kg	☼	09/24/24 15:03	09/26/24 13:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*0*	*S1-*	*31 - 166*	*09/24/24 15:03*	*09/26/24 13:49*	*50*
Phenol-d5 (Surr)	*0*	*S1-*	*30 - 153*	*09/24/24 15:03*	*09/26/24 13:49*	*50*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*37 - 147*	*09/24/24 15:03*	*09/26/24 13:49*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*43 - 145*	*09/24/24 15:03*	*09/26/24 13:49*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/24/24 15:03*	*09/26/24 13:49*	*50*
Terphenyl-d14 (Surr)	*0*	*S1-*	*42 - 157*	*09/24/24 15:03*	*09/26/24 13:49*	*50*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
4,4'-DDE	<0.0097		0.019	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
4,4'-DDT	<0.0090		0.019	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
Chlordane (technical)	<0.036		0.075	0.036	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
delta-BHC	<0.0091		0.019	0.0091	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
Dieldrin	<0.0099		0.019	0.0099	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
Endrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
Endrin ketone	<0.0092		0.019	0.0092	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
gamma-BHC (Lindane)	<0.0094		0.019	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10

Client Sample ID: SB87 (0-3)
Date Collected: 09/12/24 08:01
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-1
Matrix: Solid
Percent Solids: 85.3

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.012		0.093	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10
Toxaphene	<0.076		0.19	0.076	mg/Kg	☼	09/24/24 07:38	10/01/24 20:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*1722*	*S1+*	*33 - 148*	*09/24/24 07:38*	*10/01/24 20:49*	*10*
Tetrachloro-m-xylene	*105*		*30 - 121*	*09/24/24 07:38*	*10/01/24 20:49*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/24/24 07:38	10/02/24 22:04	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/24/24 07:38	10/02/24 22:04	10
PCB-1232	<0.19		0.19		mg/Kg	☼	09/24/24 07:38	10/02/24 22:04	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/24/24 07:38	10/02/24 22:04	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/24/24 07:38	10/02/24 22:04	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/24/24 07:38	10/02/24 22:04	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/24/24 07:38	10/02/24 22:04	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/24/24 07:38	10/02/24 22:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*49 - 129*	*09/24/24 07:38*	*10/02/24 22:04*	*10*
DCB Decachlorobiphenyl	*104*		*37 - 121*	*09/24/24 07:38*	*10/02/24 22:04*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		22		mg/Kg	☼	09/25/24 10:02	09/30/24 03:26	1
Antimony	<2.2	F1	2.2		mg/Kg	☼	09/25/24 10:02	09/30/24 03:26	1
Arsenic	**6.8**		5.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Barium	**180**		5.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Beryllium	**3.2**		2.2		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Cadmium	**4.4**		1.1		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Calcium	**210000**		110		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Chromium	**360**		5.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Cobalt	**8.7**		0.55		mg/Kg	☼	09/25/24 10:02	09/30/24 03:26	1
Copper	**160**		5.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Iron	**87000**		110		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Lead	**260**		2.7		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Magnesium	**17000**		11		mg/Kg	☼	09/25/24 10:02	09/30/24 03:26	1
Manganese	**9400**		5.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Nickel	**56**	**F1**	5.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Potassium	**860**		55		mg/Kg	☼	09/25/24 10:02	09/30/24 03:26	1
Selenium	<5.5	F1	5.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Silver	<2.7	F1	2.7		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Sodium	**610**		110		mg/Kg	☼	09/25/24 10:02	09/30/24 03:26	1
Thallium	**48**		5.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Vanadium	**77**		2.7		mg/Kg	☼	09/25/24 10:02	10/01/24 02:04	5
Zinc	**1000**		2.2		mg/Kg	☼	09/25/24 10:02	09/30/24 03:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.018		mg/Kg	☼	09/30/24 18:30	10/01/24 06:44	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB87 (0-3)
Lab Sample ID: 500-256719-1
Date Collected: 09/12/24 08:01
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 85.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	4.8		0.28		mg/Kg	☼	09/24/24 14:55	09/25/24 12:02	1
pH (SW846 9045D)	7.73		0.20		SU			09/19/24 18:14	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB87 (3-5)
Lab Sample ID: 500-256719-2
Date Collected: 09/12/24 08:06
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 89.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00079		0.0020	0.00079	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
1,1,2,2-Tetrachloroethane	<0.00097		0.0020	0.00097	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
1,1,2-Trichloroethane	<0.00073		0.0020	0.00073	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
1,1-Dichloroethane	<0.00074		0.0020	0.00074	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
1,1-Dichloroethene	<0.00080		0.0020	0.00080	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
1,2-Dichloroethane	<0.0013		0.0049	0.0013	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
1,2-Dichloropropane	<0.00050		0.0020	0.00050	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
2-Butanone (MEK)	<0.0021		0.0049	0.0021	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
2-Hexanone	<0.0030		0.0049	0.0030	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0049	0.0035	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Acetone	<0.0082		0.020	0.0082	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Benzene	<0.00061		0.0020	0.00061	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Bromodichloromethane	<0.00063		0.0020	0.00063	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Bromoform	<0.0011		0.0020	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Bromomethane	<0.0024		0.0049	0.0024	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Carbon disulfide	**0.0086**		0.0049	0.00090	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Carbon tetrachloride	<0.00066		0.0020	0.00066	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Chlorobenzene	<0.00082		0.0020	0.00082	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Chloroethane	<0.0016		0.0049	0.0016	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Chloromethane	<0.00095		0.0049	0.00095	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
cis-1,2-Dichloroethene	<0.00079		0.0020	0.00079	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
1,3-Dichloropropene, Total	<0.00094		0.0020	0.00094	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Dibromochloromethane	<0.00090		0.0020	0.00090	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Ethylbenzene	<0.0010		0.0020	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Methyl tert-butyl ether	<0.00063		0.0020	0.00063	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Methylene Chloride	<0.0021		0.0049	0.0021	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Styrene	<0.00088		0.0020	0.00088	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Toluene	**0.00078**	**J**	0.0020	0.00039	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Xylenes, Total	<0.00067		0.0039	0.00067	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
trans-1,2-Dichloroethene	<0.00074		0.0020	0.00074	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Trichloroethene	<0.00053		0.0020	0.00053	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1
Vinyl chloride	<0.00080		0.0020	0.00080	mg/Kg	☼	09/13/24 19:48	09/18/24 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/13/24 19:48*	*09/18/24 12:07*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*	*09/13/24 19:48*	*09/18/24 12:07*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*09/13/24 19:48*	*09/18/24 12:07*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*09/13/24 19:48*	*09/18/24 12:07*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.067**		0.036	0.0074	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Acenaphthylene	**0.19**		0.036	0.0062	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Anthracene	**1.0**		0.036	0.0074	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Benzo[a]anthracene	**2.7**		0.036	0.0077	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Benzo[a]pyrene	**2.1**		0.036	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Benzo[b]fluoranthene	**3.1**		0.036	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Benzo[g,h,i]perylene	**1.3**		0.036	0.0079	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB87 (3-5)
Lab Sample ID: 500-256719-2
Date Collected: 09/12/24 08:06
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 89.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.3**		0.036	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Chrysene	**2.6**		0.036	0.0096	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Dibenz(a,h)anthracene	**0.41**		0.036	0.036	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Fluoranthene	**6.0**		0.036	0.0085	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Fluorene	**0.51**		0.036	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Indeno[1,2,3-cd]pyrene	**1.5**		0.036	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Naphthalene	**0.041**		0.036	0.0066	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Phenanthrene	**5.2**		0.036	0.0079	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Pyrene	**4.8**		0.036	0.0099	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2,4-Dimethylphenol	<0.082		0.36	0.082	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2-Methylnaphthalene	**0.030**	**J**	0.074	0.0073	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
4-Chloroaniline	<0.38		0.74	0.38	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Carbazole	**0.68**		0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Dibenzofuran	**0.23**		0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Dimethyl phthalate	<0.0079		0.18	0.0079	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB87 (3-5)
Lab Sample ID: 500-256719-2
Date Collected: 09/12/24 08:06
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 89.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Nitrobenzene	<0.012		0.036	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
N-Nitrosodi-n-propylamine	<0.0072		0.074	0.0072	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Pentachlorophenol	<0.091		0.74	0.091	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*65*		*31 - 166*	*09/24/24 15:03*	*09/25/24 12:00*	*1*
Phenol-d5 (Surr)	*67*		*30 - 153*	*09/24/24 15:03*	*09/25/24 12:00*	*1*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*09/24/24 15:03*	*09/25/24 12:00*	*1*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/24/24 15:03*	*09/25/24 12:00*	*1*
2,4,6-Tribromophenol (Surr)	*38*		*31 - 143*	*09/24/24 15:03*	*09/25/24 12:00*	*1*
Terphenyl-d14 (Surr)	*73*		*42 - 157*	*09/24/24 15:03*	*09/25/24 12:00*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
4,4'-DDE	<0.0096		0.019	0.0096	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Chlordane (technical)	<0.035		0.074	0.035	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Endrin	<0.0095		0.019	0.0095	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/24/24 07:38	10/01/24 21:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*637*	*S1+*	*33 - 148*	*09/24/24 07:38*	*10/01/24 21:01*	*10*
Tetrachloro-m-xylene	*69*		*30 - 121*	*09/24/24 07:38*	*10/01/24 21:01*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 22:19	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 22:19	10

Client Sample ID: SB87 (3-5)
Lab Sample ID: 500-256719-2
Date Collected: 09/12/24 08:06
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 89.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 22:19	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 22:19	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 22:19	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 22:19	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 22:19	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 22:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*49 - 129*	*09/24/24 07:38*	*10/02/24 22:19*	*10*
DCB Decachlorobiphenyl	*110*		*37 - 121*	*09/24/24 07:38*	*10/02/24 22:19*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**29000**		20		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Antimony	<2.0		2.0		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Arsenic	**4.1**		1.0		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Barium	**350**		1.0		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Beryllium	**4.8**		0.40		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Cadmium	**0.84**		0.20		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Calcium	**220000**		100		mg/Kg	☼	09/25/24 10:02	10/01/24 02:36	5
Chromium	**41**		1.0		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Cobalt	**2.2**		0.51		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Copper	**31**		1.0		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Iron	**21000**		20		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Lead	**67**		0.51		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Magnesium	**9500**		10		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Manganese	**5500**		5.1		mg/Kg	☼	09/25/24 10:02	10/01/24 02:36	5
Nickel	**14**		1.0		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Potassium	**1600**		51		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Selenium	**4.4**		1.0		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Silver	<2.5		2.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:36	5
Sodium	**980**		100		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Thallium	**28**		5.1		mg/Kg	☼	09/25/24 10:02	10/01/24 02:36	5
Vanadium	**16**		0.51		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1
Zinc	**280**		2.0		mg/Kg	☼	09/25/24 10:02	09/30/24 03:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/30/24 18:30	10/01/24 06:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**16**		1.3		mg/Kg	☼	09/24/24 14:55	09/26/24 10:19	5
pH (SW846 9045D)	**9.96**		0.20		SU			09/19/24 18:16	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB88 (0-3)
Lab Sample ID: 500-256719-3
Date Collected: 09/12/24 08:47
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 95.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00066		0.0016	0.00066	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
1,1,2,2-Tetrachloroethane	<0.00081		0.0016	0.00081	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
1,1,2-Trichloroethane	<0.00061		0.0016	0.00061	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
1,1-Dichloroethane	<0.00061		0.0016	0.00061	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
1,1-Dichloroethene	<0.00067		0.0016	0.00067	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
1,2-Dichloroethane	<0.0011		0.0041	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
1,2-Dichloropropane	<0.00042		0.0016	0.00042	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
2-Hexanone	<0.0025		0.0041	0.0025	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
4-Methyl-2-pentanone (MIBK)	<0.0029		0.0041	0.0029	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Acetone	<0.0068		0.016	0.0068	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Benzene	<0.00051		0.0016	0.00051	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Bromodichloromethane	<0.00052		0.0016	0.00052	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Bromoform	<0.00095		0.0016	0.00095	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Bromomethane	<0.0020		0.0041	0.0020	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Carbon disulfide	**0.0041**		0.0041	0.00075	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Carbon tetrachloride	<0.00055		0.0016	0.00055	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Chlorobenzene	<0.00069		0.0016	0.00069	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Chloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Chloroform	<0.0012		0.0016	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Chloromethane	<0.00079		0.0041	0.00079	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
cis-1,2-Dichloroethene	<0.00065		0.0016	0.00065	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
1,3-Dichloropropene, Total	<0.00078		0.0016	0.00078	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Dibromochloromethane	<0.00075		0.0016	0.00075	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Ethylbenzene	<0.00085		0.0016	0.00085	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Methyl tert-butyl ether	<0.00052		0.0016	0.00052	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Methylene Chloride	<0.0017		0.0041	0.0017	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Styrene	<0.00073		0.0016	0.00073	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Tetrachloroethene	<0.00091		0.0016	0.00091	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Toluene	**0.0011**	**J**	0.0016	0.00033	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Xylenes, Total	**0.00098**	**J**	0.0032	0.00056	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
trans-1,2-Dichloroethene	<0.00061		0.0016	0.00061	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Trichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1
Vinyl chloride	<0.00066		0.0016	0.00066	mg/Kg	☼	09/13/24 19:48	09/18/24 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*09/13/24 19:48*	*09/18/24 12:33*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*09/13/24 19:48*	*09/18/24 12:33*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*09/13/24 19:48*	*09/18/24 12:33*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/13/24 19:48*	*09/18/24 12:33*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.010**	**J**	0.035	0.0071	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Acenaphthylene	<0.0059		0.035	0.0059	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Anthracene	<0.0071		0.035	0.0071	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Benzo[a]anthracene	**0.023**	**J**	0.035	0.0074	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Benzo[a]pyrene	<0.033		0.035	0.033	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Benzo[b]fluoranthene	**0.043**		0.035	0.033	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Benzo[g,h,i]perylene	**0.042**		0.035	0.0075	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB88 (0-3)
Lab Sample ID: 500-256719-3
Date Collected: 09/12/24 08:47
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 95.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.035	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Chrysene	**0.024**	**J**	0.035	0.0092	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Fluoranthene	**0.032**	**J**	0.035	0.0081	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Indeno[1,2,3-cd]pyrene	**0.034**	**J**	0.035	0.034	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Naphthalene	**0.0065**	**J**	0.035	0.0063	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Phenanthrene	**0.028**	**J**	0.035	0.0076	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Pyrene	**0.030**	**J**	0.035	0.0095	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
1,2,4-Trichlorobenzene	<0.025		0.17	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
1,3-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2,4-Dimethylphenol	<0.078		0.35	0.078	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2,4-Dinitrophenol	<0.20		0.70	0.20	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2,4-Dinitrotoluene	<0.020		0.17	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2-Methylnaphthalene	<0.0070		0.070	0.0070	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2-Nitroaniline	<0.019		0.17	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
4,6-Dinitro-2-methylphenol	<0.20		0.70	0.20	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
4-Bromophenyl phenyl ether	<0.024		0.17	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
4-Chloro-3-methylphenol	<0.013		0.35	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
4-Chloroaniline	<0.36		0.70	0.36	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
4-Nitrophenol	<0.13		0.70	0.13	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
bis(chloroisopropyl) ether	<0.025		0.17	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Bis(2-ethylhexyl) phthalate	<0.14		0.17	0.14	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Carbazole	<0.014		0.17	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Dibenzofuran	**0.013**	**J**	0.17	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Dimethyl phthalate	<0.0075		0.17	0.0075	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Di-n-octyl phthalate	<0.24		0.35	0.24	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Hexachlorobenzene	<0.0067		0.070	0.0067	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Hexachlorobutadiene	<0.020		0.17	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB88 (0-3)
Lab Sample ID: 500-256719-3
Date Collected: 09/12/24 08:47
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 95.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.70	0.37	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
N-Nitrosodi-n-propylamine	<0.0068		0.070	0.0068	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
N-Nitrosodiphenylamine	<0.021		0.17	0.021	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Pentachlorophenol	<0.087		0.70	0.087	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*65*		*31 - 166*	*09/24/24 15:03*	*09/25/24 12:24*	*1*
Phenol-d5 (Surr)	*64*		*30 - 153*	*09/24/24 15:03*	*09/25/24 12:24*	*1*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*09/24/24 15:03*	*09/25/24 12:24*	*1*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/24/24 15:03*	*09/25/24 12:24*	*1*
2,4,6-Tribromophenol (Surr)	*55*		*31 - 143*	*09/24/24 15:03*	*09/25/24 12:24*	*1*
Terphenyl-d14 (Surr)	*75*		*42 - 157*	*09/24/24 15:03*	*09/25/24 12:24*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
4,4'-DDE	<0.0088		0.017	0.0088	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
4,4'-DDT	<0.0081		0.017	0.0081	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
alpha-BHC	<0.0096		0.017	0.0096	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Chlordane (technical)	<0.032		0.068	0.032	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
delta-BHC	<0.0082		0.017	0.0082	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Endosulfan II	<0.0094		0.017	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Endosulfan sulfate	<0.0095		0.017	0.0095	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Endrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Endrin aldehyde	<0.0098		0.017	0.0098	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Endrin ketone	<0.0083		0.017	0.0083	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
gamma-BHC (Lindane)	<0.0085		0.017	0.0085	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Heptachlor	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Heptachlor epoxide	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Methoxychlor	<0.011		0.084	0.011	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10
Toxaphene	<0.068		0.17	0.068	mg/Kg	☼	09/24/24 07:38	10/01/24 21:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*33 - 148*	*09/24/24 07:38*	*10/01/24 21:13*	*10*
Tetrachloro-m-xylene	*52*		*30 - 121*	*09/24/24 07:38*	*10/01/24 21:13*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:34	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:34	10

Client Sample ID: SB88 (0-3)
Date Collected: 09/12/24 08:47
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-3
Matrix: Solid
Percent Solids: 95.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:34	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:34	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:34	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:34	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:34	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*49 - 129*	*09/24/24 07:38*	*10/02/24 22:34*	*10*
DCB Decachlorobiphenyl	*98*		*37 - 121*	*09/24/24 07:38*	*10/02/24 22:34*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9800**		19		mg/Kg	☼	09/25/24 10:02	09/30/24 03:55	1
Antimony	<1.9		1.9		mg/Kg	☼	09/25/24 10:02	09/30/24 03:55	1
Arsenic	<4.6		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Barium	**99**		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Beryllium	**3.5**		1.9		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Cadmium	<0.93		0.93		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Calcium	**210000**		93		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Chromium	**38**		0.93		mg/Kg	☼	09/25/24 10:02	09/30/24 03:55	1
Cobalt	**3.5**		0.46		mg/Kg	☼	09/25/24 10:02	09/30/24 03:55	1
Copper	**8.1**		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Iron	**93000**		93		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Lead	**6.8**		2.3		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Magnesium	**18000**		9.3		mg/Kg	☼	09/25/24 10:02	09/30/24 03:55	1
Manganese	**3200**		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Nickel	**5.1**		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Potassium	**520**		46		mg/Kg	☼	09/25/24 10:02	09/30/24 03:55	1
Selenium	<4.6		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Silver	<2.3		2.3		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Sodium	**400**		93		mg/Kg	☼	09/25/24 10:02	09/30/24 03:55	1
Thallium	**17**		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Vanadium	**53**		2.3		mg/Kg	☼	09/25/24 10:02	10/01/24 02:40	5
Zinc	**21**		1.9		mg/Kg	☼	09/25/24 10:02	09/30/24 03:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	09/30/24 18:30	10/01/24 06:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25		mg/Kg	☼	09/24/24 14:55	09/25/24 12:05	1
pH (SW846 9045D)	**9.06**		0.20		SU			09/19/24 14:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB88 (7.5-10)
Lab Sample ID: 500-256719-4
Date Collected: 09/12/24 09:06
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 95.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00068		0.0017	0.00068	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
1,1,2,2-Tetrachloroethane	<0.00083		0.0017	0.00083	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
1,1,2-Trichloroethane	<0.00063		0.0017	0.00063	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
1,1-Dichloroethane	<0.00063		0.0017	0.00063	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
1,1-Dichloroethene	<0.00069		0.0017	0.00069	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
1,2-Dichloroethane	<0.0011		0.0042	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
1,2-Dichloropropane	<0.00043		0.0017	0.00043	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
2-Butanone (MEK)	<0.0018		0.0042	0.0018	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
2-Hexanone	<0.0025		0.0042	0.0025	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
4-Methyl-2-pentanone (MIBK)	<0.0030		0.0042	0.0030	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Acetone	<0.0070		0.017	0.0070	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Benzene	<0.00053		0.0017	0.00053	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Bromodichloromethane	<0.00054		0.0017	0.00054	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Bromoform	<0.00098		0.0017	0.00098	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Bromomethane	<0.0021		0.0042	0.0021	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Carbon disulfide	<0.00077		0.0042	0.00077	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Carbon tetrachloride	<0.00057		0.0017	0.00057	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Chlorobenzene	<0.00071		0.0017	0.00071	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Chloroethane	<0.0014		0.0042	0.0014	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Chloroform	<0.0012		0.0017	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Chloromethane	<0.00081		0.0042	0.00081	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
cis-1,2-Dichloroethene	<0.00067		0.0017	0.00067	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
1,3-Dichloropropene, Total	<0.00080		0.0017	0.00080	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Dibromochloromethane	<0.00078		0.0017	0.00078	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Ethylbenzene	<0.00088		0.0017	0.00088	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Methyl tert-butyl ether	<0.00054		0.0017	0.00054	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Methylene Chloride	<0.0018		0.0042	0.0018	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Styrene	<0.00075		0.0017	0.00075	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Tetrachloroethene	<0.00094		0.0017	0.00094	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Toluene	**0.0011**	**J**	0.0017	0.00034	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Xylenes, Total	**0.0012**	**J**	0.0033	0.00057	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
trans-1,2-Dichloroethene	<0.00063		0.0017	0.00063	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Trichloroethene	<0.00046		0.0017	0.00046	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1
Vinyl chloride	<0.00068		0.0017	0.00068	mg/Kg	☼	09/13/24 19:48	09/18/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 134*	*09/13/24 19:48*	*09/18/24 12:58*	*1*
4-Bromofluorobenzene (Surr)	*116*		*75 - 131*	*09/13/24 19:48*	*09/18/24 12:58*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*09/13/24 19:48*	*09/18/24 12:58*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*09/13/24 19:48*	*09/18/24 12:58*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.034	0.0070	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Acenaphthylene	<0.0059		0.034	0.0059	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Anthracene	<0.0071		0.034	0.0071	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Benzo[a]anthracene	<0.0073		0.034	0.0073	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Benzo[a]pyrene	<0.033		0.034	0.033	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Benzo[b]fluoranthene	<0.033		0.034	0.033	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Benzo[g,h,i]perylene	<0.0075		0.034	0.0075	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1

Client Sample ID: SB88 (7.5-10)
Lab Sample ID: 500-256719-4
Date Collected: 09/12/24 09:06
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 95.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.034	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Chrysene	<0.0091		0.034	0.0091	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Dibenz(a,h)anthracene	<0.034		0.034	0.034	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Fluoranthene	<0.0080		0.034	0.0080	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Fluorene	<0.010		0.034	0.010	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.034	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Naphthalene	<0.0063		0.034	0.0063	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Phenanthrene	<0.0075		0.034	0.0075	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Pyrene	**0.0095**	**J**	0.034	0.0095	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
1,2,4-Trichlorobenzene	<0.025		0.17	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
1,3-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2,4-Dimethylphenol	<0.078		0.34	0.078	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2,4-Dinitrophenol	<0.20		0.70	0.20	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2,4-Dinitrotoluene	<0.020		0.17	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2-Methylnaphthalene	<0.0070		0.070	0.0070	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2-Nitroaniline	<0.019		0.17	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
2-Nitrophenol	<0.023		0.34	0.023	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
3-Nitroaniline	<0.016		0.34	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
4,6-Dinitro-2-methylphenol	<0.20		0.70	0.20	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
4-Bromophenyl phenyl ether	<0.024		0.17	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
4-Chloroaniline	<0.36		0.70	0.36	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
4-Nitroaniline	<0.026		0.34	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
4-Nitrophenol	<0.13		0.70	0.13	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
bis(chloroisopropyl) ether	<0.025		0.17	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Bis(2-ethylhexyl) phthalate	<0.14		0.17	0.14	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Carbazole	<0.014		0.17	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Dimethyl phthalate	<0.0075		0.17	0.0075	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Hexachlorobenzene	<0.0066		0.070	0.0066	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Hexachlorobutadiene	<0.020		0.17	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB88 (7.5-10)
Lab Sample ID: 500-256719-4
Date Collected: 09/12/24 09:06
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 95.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.70	0.37	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
N-Nitrosodi-n-propylamine	<0.0068		0.070	0.0068	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
N-Nitrosodiphenylamine	<0.021		0.17	0.021	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Pentachlorophenol	<0.087		0.70	0.087	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*64*		*31 - 166*	*09/24/24 15:03*	*09/25/24 12:48*	*1*
Phenol-d5 (Surr)	*65*		*30 - 153*	*09/24/24 15:03*	*09/25/24 12:48*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*09/24/24 15:03*	*09/25/24 12:48*	*1*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/24/24 15:03*	*09/25/24 12:48*	*1*
2,4,6-Tribromophenol (Surr)	*52*		*31 - 143*	*09/24/24 15:03*	*09/25/24 12:48*	*1*
Terphenyl-d14 (Surr)	*74*		*42 - 157*	*09/24/24 15:03*	*09/25/24 12:48*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0091		0.017	0.0091	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
4,4'-DDE	<0.0087		0.017	0.0087	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
4,4'-DDT	<0.0081		0.017	0.0081	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
alpha-BHC	<0.0096		0.017	0.0096	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
alpha-Chlordane	<0.0091		0.017	0.0091	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Chlordane (technical)	<0.032		0.067	0.032	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
delta-BHC	<0.0081		0.017	0.0081	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Dieldrin	<0.0089		0.017	0.0089	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Endosulfan I	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Endosulfan II	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Endosulfan sulfate	<0.0094		0.017	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Endrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Endrin aldehyde	<0.0097		0.017	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Endrin ketone	<0.0083		0.017	0.0083	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
gamma-BHC (Lindane)	<0.0084		0.017	0.0084	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
gamma-Chlordane	<0.0098		0.017	0.0098	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Heptachlor	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Heptachlor epoxide	<0.0091		0.017	0.0091	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Methoxychlor	<0.011		0.083	0.011	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10
Toxaphene	<0.068		0.17	0.068	mg/Kg	☼	09/24/24 07:38	10/01/24 21:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*33 - 148*	*09/24/24 07:38*	*10/01/24 21:24*	*10*
Tetrachloro-m-xylene	*66*		*30 - 121*	*09/24/24 07:38*	*10/01/24 21:24*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:50	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:50	10

Client Sample ID: SB88 (7.5-10)
Date Collected: 09/12/24 09:06
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-4
Matrix: Solid
Percent Solids: 95.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:50	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:50	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:50	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:50	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:50	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 22:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*49 - 129*	*09/24/24 07:38*	*10/02/24 22:50*	*10*
DCB Decachlorobiphenyl	*77*		*37 - 121*	*09/24/24 07:38*	*10/02/24 22:50*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**810**		19		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Antimony	<1.9		1.9		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Arsenic	**3.5**		0.93		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Barium	**8.5**		0.93		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Beryllium	**0.37**		0.37		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Cadmium	<0.19		0.19		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Calcium	**170000**		93		mg/Kg	☼	09/25/24 10:02	10/01/24 02:45	5
Chromium	**10**		0.93		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Cobalt	**2.0**		0.46		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Copper	**3.7**		0.93		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Iron	**40000**		19		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Lead	<0.46		0.46		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Magnesium	**2800**		9.3		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Manganese	**710**		0.93		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Nickel	**3.0**		0.93		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Potassium	<46		46		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Selenium	<0.93		0.93		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Silver	<2.3		2.3		mg/Kg	☼	09/25/24 10:02	10/01/24 02:45	5
Sodium	**100**		93		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Thallium	**2.8**		0.93		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Vanadium	**12**		0.46		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1
Zinc	**12**		1.9		mg/Kg	☼	09/25/24 10:02	09/30/24 03:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016		mg/Kg	☼	09/30/24 18:30	10/01/24 06:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24		mg/Kg	☼	09/24/24 14:55	09/25/24 12:10	1
Sulfide (SW846 9034)	<31		31		mg/Kg	☼	09/19/24 15:21	09/19/24 16:10	1
pH (SW846 9045D)	**8.88**		0.20		SU			09/19/24 14:52	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB89 (0-3)
Lab Sample ID: 500-256719-5
Date Collected: 09/12/24 09:45
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 91.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00075		0.0019	0.00075	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
1,1,2,2-Tetrachloroethane	<0.00092		0.0019	0.00092	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
1,1,2-Trichloroethane	<0.00070		0.0019	0.00070	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
1,1-Dichloroethane	<0.00070		0.0019	0.00070	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
1,1-Dichloroethene	<0.00076		0.0019	0.00076	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
1,2-Dichloroethane	<0.0012		0.0046	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
1,2-Dichloropropane	<0.00048		0.0019	0.00048	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
2-Hexanone	<0.0028		0.0046	0.0028	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
4-Methyl-2-pentanone (MIBK)	<0.0033		0.0046	0.0033	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Acetone	**0.015**	**J**	0.019	0.0078	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Benzene	<0.00058		0.0019	0.00058	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Bromodichloromethane	<0.00060		0.0019	0.00060	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Bromoform	<0.0011		0.0019	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Bromomethane	<0.0023		0.0046	0.0023	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Carbon disulfide	**0.0013**	**J**	0.0046	0.00086	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Carbon tetrachloride	<0.00063		0.0019	0.00063	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Chlorobenzene	<0.00078		0.0019	0.00078	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Chloroethane	<0.0015		0.0046	0.0015	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Chloroform	<0.0013		0.0019	0.0013	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Chloromethane	<0.00090		0.0046	0.00090	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
cis-1,2-Dichloroethene	<0.00075		0.0019	0.00075	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
1,3-Dichloropropene, Total	<0.00089		0.0019	0.00089	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Dibromochloromethane	<0.00086		0.0019	0.00086	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Ethylbenzene	<0.00098		0.0019	0.00098	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Methyl tert-butyl ether	<0.00060		0.0019	0.00060	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Methylene Chloride	<0.0020		0.0046	0.0020	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Styrene	<0.00084		0.0019	0.00084	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Tetrachloroethene	<0.0010		0.0019	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Toluene	<0.00037		0.0019	0.00037	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Xylenes, Total	<0.00064		0.0037	0.00064	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
trans-1,2-Dichloroethene	<0.00070		0.0019	0.00070	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Trichloroethene	<0.00050		0.0019	0.00050	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1
Vinyl chloride	<0.00076		0.0019	0.00076	mg/Kg	☼	09/13/24 19:48	09/18/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*09/13/24 19:48*	*09/18/24 13:23*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*	*09/13/24 19:48*	*09/18/24 13:23*	*1*
Dibromofluoromethane	*81*		*75 - 126*	*09/13/24 19:48*	*09/18/24 13:23*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/13/24 19:48*	*09/18/24 13:23*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.035	0.0072	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Acenaphthylene	<0.0060		0.035	0.0060	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Anthracene	**0.015**	**J**	0.035	0.0072	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Benzo[a]anthracene	**0.11**		0.035	0.0075	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Benzo[a]pyrene	**0.12**		0.035	0.034	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Benzo[b]fluoranthene	**0.16**		0.035	0.034	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Benzo[g,h,i]perylene	**0.081**		0.035	0.0077	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1

Client Sample ID: SB89 (0-3)
Date Collected: 09/12/24 09:45
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-5
Matrix: Solid
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.071**		0.035	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Chrysene	**0.13**		0.035	0.0094	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Fluoranthene	**0.21**		0.035	0.0082	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Indeno[1,2,3-cd]pyrene	**0.089**		0.035	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Naphthalene	<0.0064		0.035	0.0064	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Phenanthrene	**0.055**		0.035	0.0077	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Pyrene	**0.18**		0.035	0.0097	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2,4-Dichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2,4-Dimethylphenol	<0.079		0.35	0.079	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2,4-Dinitrophenol	<0.21		0.72	0.21	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2-Methylnaphthalene	<0.0071		0.072	0.0071	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
4,6-Dinitro-2-methylphenol	<0.20		0.72	0.20	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
4-Chloroaniline	<0.37		0.72	0.37	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
4-Nitrophenol	<0.13		0.72	0.13	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Hexachlorobenzene	<0.0068		0.072	0.0068	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1

Client Sample ID: SB89 (0-3)
Lab Sample ID: 500-256719-5
Date Collected: 09/12/24 09:45
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.72	0.38	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
N-Nitrosodi-n-propylamine	<0.0070		0.072	0.0070	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Pentachlorophenol	<0.089		0.72	0.089	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*34*		*31 - 166*	*09/24/24 15:03*	*09/25/24 13:12*	*1*
Phenol-d5 (Surr)	*43*		*30 - 153*	*09/24/24 15:03*	*09/25/24 13:12*	*1*
Nitrobenzene-d5 (Surr)	*42*		*37 - 147*	*09/24/24 15:03*	*09/25/24 13:12*	*1*
2-Fluorobiphenyl (Surr)	*44*		*43 - 145*	*09/24/24 15:03*	*09/25/24 13:12*	*1*
2,4,6-Tribromophenol (Surr)	*2*	*S1-*	*31 - 143*	*09/24/24 15:03*	*09/25/24 13:12*	*1*
Terphenyl-d14 (Surr)	*58*		*42 - 157*	*09/24/24 15:03*	*09/25/24 13:12*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
4,4'-DDE	<0.0093		0.018	0.0093	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
4,4'-DDT	**0.0097**	**J**	0.018	0.0086	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
alpha-Chlordane	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Chlordane (technical)	<0.034		0.072	0.034	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
delta-BHC	<0.0086		0.018	0.0086	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Dieldrin	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Endosulfan I	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Endosulfan II	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Endrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Endrin ketone	<0.0088		0.018	0.0088	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
gamma-BHC (Lindane)	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Heptachlor	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Heptachlor epoxide	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Methoxychlor	<0.012		0.089	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/24/24 07:38	10/01/24 21:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*114*		*33 - 148*	*09/24/24 07:38*	*10/01/24 21:36*	*10*
Tetrachloro-m-xylene	*89*		*30 - 121*	*09/24/24 07:38*	*10/01/24 21:36*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 23:05	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 23:05	10

Client Sample ID: SB89 (0-3)
Lab Sample ID: 500-256719-5
Date Collected: 09/12/24 09:45
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 91.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 23:05	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 23:05	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 23:05	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 23:05	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 23:05	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/02/24 23:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*49 - 129*	*09/24/24 07:38*	*10/02/24 23:05*	*10*
DCB Decachlorobiphenyl	*95*		*37 - 121*	*09/24/24 07:38*	*10/02/24 23:05*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		20		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Antimony	**9.0**		2.0		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Arsenic	**7.5**		0.98		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Barium	**87**		4.9		mg/Kg	☼	09/25/24 10:02	10/01/24 02:50	5
Beryllium	**0.47**		0.39		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Cadmium	**0.35**		0.20		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Calcium	**73000**		98		mg/Kg	☼	09/25/24 10:02	10/01/24 02:50	5
Chromium	**2800**		20		mg/Kg	☼	09/25/24 10:02	10/01/24 13:19	20
Cobalt	**26**		0.49		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Copper	**75**		0.98		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Iron	**58000**		98		mg/Kg	☼	09/25/24 10:02	10/01/24 02:50	5
Lead	**15**		0.49		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Magnesium	**96000**		49		mg/Kg	☼	09/25/24 10:02	10/01/24 02:50	5
Manganese	**14000**		20		mg/Kg	☼	09/25/24 10:02	10/01/24 13:19	20
Nickel	**260**		0.98		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Potassium	**450**		49		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Selenium	**5.0**		0.98		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Silver	<2.4		2.4		mg/Kg	☼	09/25/24 10:02	10/01/24 02:50	5
Sodium	**160**		98		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Thallium	**53**		20		mg/Kg	☼	09/25/24 10:02	10/01/24 13:19	20
Vanadium	**140**		0.49		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1
Zinc	**63**		2.0		mg/Kg	☼	09/25/24 10:02	09/30/24 04:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.037**		0.017		mg/Kg	☼	09/30/24 18:30	10/01/24 06:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26		mg/Kg	☼	09/24/24 14:55	09/25/24 12:12	1
pH (SW846 9045D)	**10.84**		0.20		SU			09/19/24 18:19	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB89 (3-5)
Lab Sample ID: 500-256719-6
Date Collected: 09/12/24 09:51
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 96.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00077		0.0019	0.00077	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
1,1,2,2-Tetrachloroethane	<0.00094		0.0019	0.00094	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
1,1,2-Trichloroethane	<0.00071		0.0019	0.00071	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
1,1-Dichloroethane	<0.00072		0.0019	0.00072	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
1,1-Dichloroethene	<0.00078		0.0019	0.00078	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
1,2-Dichloroethane	<0.0012		0.0048	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
2-Butanone (MEK)	**0.0047**	**J**	0.0048	0.0021	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
2-Hexanone	<0.0029		0.0048	0.0029	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0048	0.0034	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Acetone	**0.020**		0.019	0.0080	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Benzene	<0.00060		0.0019	0.00060	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Bromodichloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Bromoform	<0.0011		0.0019	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Bromomethane	<0.0023		0.0048	0.0023	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Carbon disulfide	**0.0055**		0.0048	0.00088	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Carbon tetrachloride	<0.00065		0.0019	0.00065	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Chlorobenzene	<0.00080		0.0019	0.00080	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Chloroethane	<0.0016		0.0048	0.0016	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Chloroform	<0.0014		0.0019	0.0014	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Chloromethane	<0.00092		0.0048	0.00092	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
cis-1,2-Dichloroethene	<0.00077		0.0019	0.00077	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
1,3-Dichloropropene, Total	<0.00091		0.0019	0.00091	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Dibromochloromethane	<0.00088		0.0019	0.00088	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Ethylbenzene	<0.0010		0.0019	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Methyl tert-butyl ether	<0.00061		0.0019	0.00061	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Methylene Chloride	<0.0020		0.0048	0.0020	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Styrene	<0.00086		0.0019	0.00086	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Tetrachloroethene	<0.0011		0.0019	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Toluene	**0.00051**	**J**	0.0019	0.00038	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Xylenes, Total	<0.00065		0.0038	0.00065	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
trans-1,2-Dichloroethene	<0.00072		0.0019	0.00072	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Trichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1
Vinyl chloride	<0.00078		0.0019	0.00078	mg/Kg	☼	09/13/24 19:48	09/18/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*09/13/24 19:48*	*09/18/24 13:48*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*	*09/13/24 19:48*	*09/18/24 13:48*	*1*
Dibromofluoromethane	*64*	*S1-*	*75 - 126*	*09/13/24 19:48*	*09/18/24 13:48*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*09/13/24 19:48*	*09/18/24 13:48*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.034	0.0069	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Acenaphthylene	<0.0058		0.034	0.0058	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Anthracene	<0.0070		0.034	0.0070	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Benzo[a]anthracene	**0.027**	**J**	0.034	0.0072	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Benzo[a]pyrene	<0.033		0.034	0.033	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Benzo[b]fluoranthene	**0.051**		0.034	0.033	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Benzo[g,h,i]perylene	<0.0074		0.034	0.0074	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB89 (3-5)
Lab Sample ID: 500-256719-6
Date Collected: 09/12/24 09:51
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 96.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.017**	**J**	0.034	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Chrysene	**0.039**		0.034	0.0090	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Dibenz(a,h)anthracene	<0.034		0.034	0.034	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Fluoranthene	**0.053**		0.034	0.0079	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Fluorene	<0.010		0.034	0.010	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Indeno[1,2,3-cd]pyrene	<0.033		0.034	0.033	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Naphthalene	<0.0062		0.034	0.0062	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Phenanthrene	**0.031**	**J**	0.034	0.0074	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Pyrene	**0.040**		0.034	0.0093	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2,4-Dimethylphenol	<0.076		0.34	0.076	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2,4-Dinitrophenol	<0.20		0.69	0.20	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2-Methylnaphthalene	<0.0068		0.069	0.0068	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
2-Nitrophenol	<0.023		0.34	0.023	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
3-Nitroaniline	<0.016		0.34	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
4,6-Dinitro-2-methylphenol	<0.19		0.69	0.19	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
4-Chloroaniline	<0.36		0.69	0.36	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
4-Nitroaniline	<0.025		0.34	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
4-Nitrophenol	<0.13		0.69	0.13	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Carbazole	<0.013		0.17	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Dimethyl phthalate	<0.0074		0.17	0.0074	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Hexachlorobenzene	<0.0065		0.069	0.0065	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1

Client Sample ID: SB89 (3-5)
Date Collected: 09/12/24 09:51
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-6
Matrix: Solid
Percent Solids: 96.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.36		0.69	0.36	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
N-Nitrosodi-n-propylamine	<0.0067		0.069	0.0067	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Pentachlorophenol	<0.085		0.69	0.085	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1
Phenol	**0.050**	**J**	0.17	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*43*		*31 - 166*	*09/24/24 15:03*	*09/25/24 13:37*	*1*
Phenol-d5 (Surr)	*48*		*30 - 153*	*09/24/24 15:03*	*09/25/24 13:37*	*1*
Nitrobenzene-d5 (Surr)	*50*		*37 - 147*	*09/24/24 15:03*	*09/25/24 13:37*	*1*
2-Fluorobiphenyl (Surr)	*53*		*43 - 145*	*09/24/24 15:03*	*09/25/24 13:37*	*1*
2,4,6-Tribromophenol (Surr)	*9*	*S1-*	*31 - 143*	*09/24/24 15:03*	*09/25/24 13:37*	*1*
Terphenyl-d14 (Surr)	*63*		*42 - 157*	*09/24/24 15:03*	*09/25/24 13:37*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
alpha-BHC	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
alpha-Chlordane	<0.0093		0.018	0.0093	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
delta-BHC	<0.0083		0.018	0.0083	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Endosulfan I	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Endosulfan II	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Endosulfan sulfate	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Endrin aldehyde	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Heptachlor	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Methoxychlor	<0.011		0.086	0.011	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/24/24 07:38	10/01/24 21:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*33 - 148*	*09/24/24 07:38*	*10/01/24 21:47*	*10*
Tetrachloro-m-xylene	*48*		*30 - 121*	*09/24/24 07:38*	*10/01/24 21:47*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:21	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:21	10

Client Sample ID: SB89 (3-5)
Lab Sample ID: 500-256719-6
Date Collected: 09/12/24 09:51
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 96.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:21	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:21	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:21	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:21	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:21	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*46*	*S1-*	*49 - 129*	*09/24/24 07:38*	*10/02/24 23:21*	*10*
DCB Decachlorobiphenyl	*97*		*37 - 121*	*09/24/24 07:38*	*10/02/24 23:21*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		18		mg/Kg	☼	09/25/24 10:02	09/30/24 04:18	1
Antimony	<1.8		1.8		mg/Kg	☼	09/25/24 10:02	09/30/24 04:18	1
Arsenic	<4.5		4.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:54	5
Barium	**160**		4.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:54	5
Beryllium	**2.0**		1.8		mg/Kg	☼	09/25/24 10:02	10/01/24 02:54	5
Cadmium	<0.90		0.90		mg/Kg	☼	09/25/24 10:02	10/01/24 02:54	5
Calcium	**130000**		90		mg/Kg	☼	09/25/24 10:02	10/01/24 02:54	5
Chromium	**1500**		18		mg/Kg	☼	09/25/24 10:02	10/01/24 13:24	20
Cobalt	**4.5**		0.45		mg/Kg	☼	09/25/24 10:02	09/30/24 04:18	1
Copper	**40**		4.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:54	5
Iron	**74000**		90		mg/Kg	☼	09/25/24 10:02	10/01/24 02:54	5
Lead	**21**		2.2		mg/Kg	☼	09/25/24 10:02	10/01/24 02:54	5
Magnesium	**38000**		9.0		mg/Kg	☼	09/25/24 10:02	09/30/24 04:18	1
Manganese	**31000**		18		mg/Kg	☼	09/25/24 10:02	10/01/24 13:24	20
Nickel	**51**		4.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:54	5
Potassium	**920**		45		mg/Kg	☼	09/25/24 10:02	09/30/24 04:18	1
Selenium	<4.5		4.5		mg/Kg	☼	09/25/24 10:02	10/01/24 02:54	5
Silver	<2.2		2.2		mg/Kg	☼	09/25/24 10:02	10/01/24 02:54	5
Sodium	**470**		90		mg/Kg	☼	09/25/24 10:02	09/30/24 04:18	1
Thallium	**110**		18		mg/Kg	☼	09/25/24 10:02	10/01/24 13:24	20
Vanadium	**250**		2.2		mg/Kg	☼	09/25/24 10:02	10/01/24 02:54	5
Zinc	**84**		1.8		mg/Kg	☼	09/25/24 10:02	09/30/24 04:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.016		mg/Kg	☼	09/30/24 18:30	10/01/24 06:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.34**		0.24		mg/Kg	☼	09/24/24 14:55	09/25/24 12:14	1
pH (SW846 9045D)	**11.51**		0.20		SU			09/19/24 18:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB90 (0-3)
Date Collected: 09/12/24 10:47
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-7
Matrix: Solid
Percent Solids: 94.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00074		0.0018	0.00074	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
1,1,2,2-Tetrachloroethane	<0.00091		0.0018	0.00091	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
1,1,2-Trichloroethane	<0.00068		0.0018	0.00068	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
1,1-Dichloroethane	<0.00069		0.0018	0.00069	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
1,1-Dichloroethene	<0.00075		0.0018	0.00075	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
1,2-Dichloroethane	<0.0012		0.0046	0.0012	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
2-Hexanone	<0.0028		0.0046	0.0028	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
4-Methyl-2-pentanone (MIBK)	<0.0032		0.0046	0.0032	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Acetone	**0.016**	**J**	0.018	0.0077	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Benzene	<0.00057		0.0018	0.00057	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Bromodichloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Bromoform	<0.0011		0.0018	0.0011	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Bromomethane	<0.0022		0.0046	0.0022	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Carbon disulfide	**0.00097**	**J**	0.0046	0.00084	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Carbon tetrachloride	<0.00062		0.0018	0.00062	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Chlorobenzene	<0.00077		0.0018	0.00077	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Chloroethane	<0.0015		0.0046	0.0015	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Chloroform	<0.0013		0.0018	0.0013	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Chloromethane	<0.00089		0.0046	0.00089	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
cis-1,2-Dichloroethene	<0.00074		0.0018	0.00074	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
1,3-Dichloropropene, Total	<0.00088		0.0018	0.00088	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Dibromochloromethane	<0.00085		0.0018	0.00085	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Ethylbenzene	<0.00096		0.0018	0.00096	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Methyl tert-butyl ether	<0.00059		0.0018	0.00059	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Methylene Chloride	<0.0020		0.0046	0.0020	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Styrene	<0.00082		0.0018	0.00082	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Tetrachloroethene	<0.0010		0.0018	0.0010	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Toluene	<0.00037		0.0018	0.00037	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Xylenes, Total	<0.00063		0.0037	0.00063	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
trans-1,2-Dichloroethene	<0.00069		0.0018	0.00069	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Trichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1
Vinyl chloride	<0.00075		0.0018	0.00075	mg/Kg	☼	09/13/24 19:48	09/20/24 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*	*09/13/24 19:48*	*09/20/24 19:15*	*1*
4-Bromofluorobenzene (Surr)	*115*		*75 - 131*	*09/13/24 19:48*	*09/20/24 19:15*	*1*
Dibromofluoromethane	*92*		*75 - 126*	*09/13/24 19:48*	*09/20/24 19:15*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*09/13/24 19:48*	*09/20/24 19:15*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1

Client Sample ID: SB90 (0-3)
Lab Sample ID: 500-256719-7
Date Collected: 09/12/24 10:47
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 94.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Carbazole	<0.013		0.17	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB90 (0-3)
Lab Sample ID: 500-256719-7
Date Collected: 09/12/24 10:47
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 94.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Isophorone	<0.017		0.17	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1
Phenol	<0.014		0.17	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*53*		*31 - 166*	*09/24/24 15:03*	*09/25/24 14:01*	*1*
Phenol-d5 (Surr)	*58*		*30 - 153*	*09/24/24 15:03*	*09/25/24 14:01*	*1*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*09/24/24 15:03*	*09/25/24 14:01*	*1*
2-Fluorobiphenyl (Surr)	*64*		*43 - 145*	*09/24/24 15:03*	*09/25/24 14:01*	*1*
2,4,6-Tribromophenol (Surr)	*6*	*S1-*	*31 - 143*	*09/24/24 15:03*	*09/25/24 14:01*	*1*
Terphenyl-d14 (Surr)	*64*		*42 - 157*	*09/24/24 15:03*	*09/25/24 14:01*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0090		0.017	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
4,4'-DDE	<0.0086		0.017	0.0086	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
4,4'-DDT	<0.0079		0.017	0.0079	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
alpha-BHC	<0.0094		0.017	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
alpha-Chlordane	<0.0089		0.017	0.0089	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
beta-BHC	<0.013		0.017	0.013	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Chlordane (technical)	<0.032		0.066	0.032	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
delta-BHC	<0.0080		0.017	0.0080	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Dieldrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Endosulfan I	<0.0090		0.017	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Endosulfan II	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Endosulfan sulfate	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Endrin	<0.0085		0.017	0.0085	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Endrin aldehyde	<0.0095		0.017	0.0095	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Endrin ketone	<0.0081		0.017	0.0081	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
gamma-BHC (Lindane)	<0.0083		0.017	0.0083	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
gamma-Chlordane	<0.0096		0.017	0.0096	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Heptachlor	<0.0091		0.017	0.0091	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Heptachlor epoxide	<0.0090		0.017	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Methoxychlor	<0.011		0.082	0.011	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10
Toxaphene	<0.067		0.17	0.067	mg/Kg	☼	09/24/24 07:38	10/01/24 21:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*139*		*33 - 148*	*09/24/24 07:38*	*10/01/24 21:59*	*10*
Tetrachloro-m-xylene	*296*	*S1+*	*30 - 121*	*09/24/24 07:38*	*10/01/24 21:59*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:36	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:36	10

Client Sample ID: SB90 (0-3)
Lab Sample ID: 500-256719-7
Date Collected: 09/12/24 10:47
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 94.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:36	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:36	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:36	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:36	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:36	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/02/24 23:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*49 - 129*	*09/24/24 07:38*	*10/02/24 23:36*	*10*
DCB Decachlorobiphenyl	*109*		*37 - 121*	*09/24/24 07:38*	*10/02/24 23:36*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20000**		21		mg/Kg	☼	09/25/24 10:02	09/30/24 04:22	1
Antimony	**5.4**		2.1		mg/Kg	☼	09/25/24 10:02	09/30/24 04:22	1
Arsenic	**5.7**		5.1		mg/Kg	☼	09/25/24 10:02	10/01/24 02:59	5
Barium	**310**		5.1		mg/Kg	☼	09/25/24 10:02	10/01/24 02:59	5
Beryllium	<2.1		2.1		mg/Kg	☼	09/25/24 10:02	10/01/24 02:59	5
Cadmium	**1.7**		1.0		mg/Kg	☼	09/25/24 10:02	10/01/24 02:59	5
Calcium	**200000**		100		mg/Kg	☼	09/25/24 10:02	10/01/24 02:59	5
Chromium	**3100**		21		mg/Kg	☼	09/25/24 10:02	10/01/24 13:28	20
Cobalt	**4.1**		0.51		mg/Kg	☼	09/25/24 10:02	09/30/24 04:22	1
Copper	**200**		5.1		mg/Kg	☼	09/25/24 10:02	10/01/24 02:59	5
Iron	**120000**		100		mg/Kg	☼	09/25/24 10:02	10/01/24 02:59	5
Lead	**50**		2.6		mg/Kg	☼	09/25/24 10:02	10/01/24 02:59	5
Magnesium	**42000**		10		mg/Kg	☼	09/25/24 10:02	09/30/24 04:22	1
Manganese	**47000**		21		mg/Kg	☼	09/25/24 10:02	10/01/24 13:28	20
Nickel	**92**		5.1		mg/Kg	☼	09/25/24 10:02	10/01/24 02:59	5
Potassium	**66**		51		mg/Kg	☼	09/25/24 10:02	09/30/24 04:22	1
Selenium	**7.0**		5.1		mg/Kg	☼	09/25/24 10:02	10/01/24 02:59	5
Silver	<2.6		2.6		mg/Kg	☼	09/25/24 10:02	10/01/24 02:59	5
Sodium	**190**		100		mg/Kg	☼	09/25/24 10:02	09/30/24 04:22	1
Thallium	**160**		21		mg/Kg	☼	09/25/24 10:02	10/01/24 13:28	20
Vanadium	**710**		2.6		mg/Kg	☼	09/25/24 10:02	10/01/24 02:59	5
Zinc	**250**		2.1		mg/Kg	☼	09/25/24 10:02	09/30/24 04:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.075**		0.017		mg/Kg	☼	09/30/24 18:30	10/01/24 06:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.85**		0.23		mg/Kg	☼	09/24/24 14:55	09/26/24 09:40	1
pH (SW846 9045D)	**11.20**		0.20		SU			09/19/24 18:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB90 (7.5-10)
Lab Sample ID: 500-256719-8
Date Collected: 09/12/24 11:11
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 90.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00074		0.0018	0.00074	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
1,1,2,2-Tetrachloroethane	<0.00091	*3	0.0018	0.00091	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
1,1,2-Trichloroethane	<0.00068		0.0018	0.00068	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
1,1-Dichloroethane	<0.00069		0.0018	0.00069	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
1,1-Dichloroethene	<0.00075		0.0018	0.00075	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
1,2-Dichloroethane	<0.0012		0.0046	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
2-Butanone (MEK)	**0.021**		0.0046	0.0020	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
2-Hexanone	**0.0076**		0.0046	0.0028	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
4-Methyl-2-pentanone (MIBK)	<0.0032		0.0046	0.0032	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Acetone	**0.083**		0.018	0.0077	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Benzene	<0.00057		0.0018	0.00057	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Bromodichloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Bromoform	<0.0011		0.0018	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Bromomethane	<0.0022		0.0046	0.0022	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Carbon disulfide	**0.0036**	**J**	0.0046	0.00084	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Carbon tetrachloride	<0.00062		0.0018	0.00062	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Chlorobenzene	<0.00077		0.0018	0.00077	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Chloroethane	<0.0015		0.0046	0.0015	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Chloroform	<0.0013		0.0018	0.0013	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Chloromethane	<0.00088		0.0046	0.00088	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
cis-1,2-Dichloroethene	<0.00074		0.0018	0.00074	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
1,3-Dichloropropene, Total	<0.00087		0.0018	0.00087	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Dibromochloromethane	<0.00085		0.0018	0.00085	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Ethylbenzene	<0.00096		0.0018	0.00096	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Methyl tert-butyl ether	<0.00059		0.0018	0.00059	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Methylene Chloride	<0.0019		0.0046	0.0019	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Styrene	<0.00082		0.0018	0.00082	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Tetrachloroethene	<0.0010		0.0018	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Toluene	<0.00037		0.0018	0.00037	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Xylenes, Total	<0.00063		0.0036	0.00063	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
trans-1,2-Dichloroethene	<0.00069		0.0018	0.00069	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Trichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1
Vinyl chloride	<0.00075		0.0018	0.00075	mg/Kg	☼	09/13/24 19:48	09/18/24 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*09/13/24 19:48*	*09/18/24 14:38*	*1*
4-Bromofluorobenzene (Surr)	*150*	*3 S1+	*75 - 131*	*09/13/24 19:48*	*09/18/24 14:38*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*09/13/24 19:48*	*09/18/24 14:38*	*1*
Toluene-d8 (Surr)	*112*		*75 - 124*	*09/13/24 19:48*	*09/18/24 14:38*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0074		0.036	0.0074	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Acenaphthylene	<0.0062		0.036	0.0062	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Anthracene	<0.0074		0.036	0.0074	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Benzo[a]anthracene	<0.0077		0.036	0.0077	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Benzo[a]pyrene	<0.035		0.036	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Benzo[b]fluoranthene	<0.035		0.036	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Benzo[g,h,i]perylene	<0.0079		0.036	0.0079	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB90 (7.5-10)
Lab Sample ID: 500-256719-8
Date Collected: 09/12/24 11:11
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 90.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.014		0.036	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Chrysene	<0.0096		0.036	0.0096	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Fluoranthene	<0.0084		0.036	0.0084	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Fluorene	<0.011		0.036	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Indeno[1,2,3-cd]pyrene	<0.035		0.036	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Naphthalene	<0.0066		0.036	0.0066	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Phenanthrene	<0.0079		0.036	0.0079	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Pyrene	<0.0099		0.036	0.0099	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2,4-Dimethylphenol	<0.081		0.36	0.081	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2-Methylnaphthalene	<0.0073		0.073	0.0073	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Dimethyl phthalate	<0.0079		0.18	0.0079	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Hexachlorobenzene	<0.0070		0.073	0.0070	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1

Client Sample ID: SB90 (7.5-10)
Date Collected: 09/12/24 11:11
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-8
Matrix: Solid
Percent Solids: 90.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.73	0.38	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
N-Nitrosodi-n-propylamine	<0.0072		0.073	0.0072	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Pentachlorophenol	<0.091		0.73	0.091	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*62*		*31 - 166*	*09/24/24 15:03*	*09/25/24 14:25*	*1*
Phenol-d5 (Surr)	*65*		*30 - 153*	*09/24/24 15:03*	*09/25/24 14:25*	*1*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/24/24 15:03*	*09/25/24 14:25*	*1*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/24/24 15:03*	*09/25/24 14:25*	*1*
2,4,6-Tribromophenol (Surr)	*32*		*31 - 143*	*09/24/24 15:03*	*09/25/24 14:25*	*1*
Terphenyl-d14 (Surr)	*68*		*42 - 157*	*09/24/24 15:03*	*09/25/24 14:25*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095	F1	0.018	0.0095	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
4,4'-DDE	<0.0091	F1	0.018	0.0091	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Aldrin	<0.012	F1	0.018	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
alpha-BHC	<0.010	F1	0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
alpha-Chlordane	<0.0095	F1	0.018	0.0095	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
beta-BHC	<0.014	F2	0.018	0.014	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Chlordane (technical)	<0.034		0.070	0.034	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
delta-BHC	<0.0085	F1	0.018	0.0085	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Dieldrin	<0.0092	F1	0.018	0.0092	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Endosulfan I	<0.0096	F1	0.018	0.0096	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Endosulfan II	<0.0097	F1	0.018	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Endosulfan sulfate	<0.0098	F1	0.018	0.0098	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Endrin	<0.0090	F1	0.018	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Endrin aldehyde	<0.010	F1	0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Endrin ketone	<0.0086	F1	0.018	0.0086	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
gamma-BHC (Lindane)	<0.0088	F1 F2	0.018	0.0088	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
gamma-Chlordane	<0.010	F1 F2	0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Heptachlor	<0.0096	F1	0.018	0.0096	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Heptachlor epoxide	<0.0095	F1 F2	0.018	0.0095	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Methoxychlor	<0.012	F1	0.087	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/24/24 07:38	10/01/24 22:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*33 - 148*	*09/24/24 07:38*	*10/01/24 22:11*	*10*
Tetrachloro-m-xylene	*222*	*S1+*	*30 - 121*	*09/24/24 07:38*	*10/01/24 22:11*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18	F1	0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 10:30	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 10:30	10

Client Sample ID: SB90 (7.5-10)
Date Collected: 09/12/24 11:11
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-8
Matrix: Solid
Percent Solids: 90.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 10:30	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 10:30	10
PCB-1248	**0.21**		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 10:30	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 10:30	10
PCB-1260	<0.18	F1	0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 10:30	10
Polychlorinated biphenyls, Total	**0.21**		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 10:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*49 - 129*	*09/24/24 07:38*	*10/03/24 10:30*	*10*
DCB Decachlorobiphenyl	*132*	*S1+*	*37 - 121*	*09/24/24 07:38*	*10/03/24 10:30*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		21		mg/Kg	☼	09/25/24 10:02	09/30/24 04:27	1
Antimony	<2.1		2.1		mg/Kg	☼	09/25/24 10:02	09/30/24 04:27	1
Arsenic	<5.1		5.1		mg/Kg	☼	09/25/24 10:02	10/01/24 03:04	5
Barium	**140**		5.1		mg/Kg	☼	09/25/24 10:02	10/01/24 03:04	5
Beryllium	<2.1		2.1		mg/Kg	☼	09/25/24 10:02	10/01/24 03:04	5
Cadmium	**2.4**		1.0		mg/Kg	☼	09/25/24 10:02	10/01/24 03:04	5
Calcium	**120000**		100		mg/Kg	☼	09/25/24 10:02	10/01/24 03:04	5
Chromium	**1300**		21		mg/Kg	☼	09/25/24 10:02	10/01/24 13:32	20
Cobalt	**5.1**		0.51		mg/Kg	☼	09/25/24 10:02	09/30/24 04:27	1
Copper	**80**		5.1		mg/Kg	☼	09/25/24 10:02	10/01/24 03:04	5
Iron	**82000**		100		mg/Kg	☼	09/25/24 10:02	10/01/24 03:04	5
Lead	**68**		2.6		mg/Kg	☼	09/25/24 10:02	10/01/24 03:04	5
Magnesium	**33000**		10		mg/Kg	☼	09/25/24 10:02	09/30/24 04:27	1
Manganese	**21000**		21		mg/Kg	☼	09/25/24 10:02	10/01/24 13:32	20
Nickel	**150**		5.1		mg/Kg	☼	09/25/24 10:02	10/01/24 03:04	5
Potassium	**240**		51		mg/Kg	☼	09/25/24 10:02	09/30/24 04:27	1
Selenium	<5.1		5.1		mg/Kg	☼	09/25/24 10:02	10/01/24 03:04	5
Silver	<2.6		2.6		mg/Kg	☼	09/25/24 10:02	10/01/24 03:04	5
Sodium	**230**		100		mg/Kg	☼	09/25/24 10:02	09/30/24 04:27	1
Thallium	**76**		21		mg/Kg	☼	09/25/24 10:02	10/01/24 13:32	20
Vanadium	**400**		2.6		mg/Kg	☼	09/25/24 10:02	10/01/24 03:04	5
Zinc	**230**		2.1		mg/Kg	☼	09/25/24 10:02	09/30/24 04:27	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.049**		0.017		mg/Kg	☼	09/30/24 18:30	10/01/24 07:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.4**		0.25		mg/Kg	☼	09/24/24 14:55	09/26/24 09:41	1
pH (SW846 9045D)	**9.99**		0.20		SU			09/19/24 18:26	1

Client Sample ID: SB91 (0-3)
Date Collected: 09/12/24 12:30
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-9
Matrix: Solid
Percent Solids: 91.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00082		0.0020	0.00082	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0020	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
1,1,2-Trichloroethane	<0.00076		0.0020	0.00076	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
1,1-Dichloroethane	<0.00076		0.0020	0.00076	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
1,1-Dichloroethene	<0.00083		0.0020	0.00083	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
1,2-Dichloroethane	<0.0013		0.0051	0.0013	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
2-Butanone (MEK)	<0.0022		0.0051	0.0022	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
2-Hexanone	<0.0031		0.0051	0.0031	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0051	0.0036	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Acetone	<0.0085		0.020	0.0085	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Benzene	<0.00064		0.0020	0.00064	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Bromodichloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Bromomethane	<0.0025		0.0051	0.0025	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Carbon disulfide	**0.0033**	**J**	0.0051	0.00093	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Carbon tetrachloride	<0.00069		0.0020	0.00069	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Chlorobenzene	<0.00086		0.0020	0.00086	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Chloroethane	<0.0017		0.0051	0.0017	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Chloroform	<0.0015		0.0020	0.0015	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Chloromethane	<0.00098		0.0051	0.00098	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
cis-1,2-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
1,3-Dichloropropene, Total	<0.00097		0.0020	0.00097	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Dibromochloromethane	<0.00094		0.0020	0.00094	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Methylene Chloride	<0.0022		0.0051	0.0022	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Styrene	<0.00091		0.0020	0.00091	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Toluene	<0.00041		0.0020	0.00041	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Xylenes, Total	<0.00069		0.0041	0.00069	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
trans-1,2-Dichloroethene	<0.00077		0.0020	0.00077	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Trichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1
Vinyl chloride	<0.00083		0.0020	0.00083	mg/Kg	☼	09/13/24 19:48	09/18/24 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*09/13/24 19:48*	*09/18/24 15:04*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*09/13/24 19:48*	*09/18/24 15:04*	*1*
Dibromofluoromethane	*71*	*S1-*	*75 - 126*	*09/13/24 19:48*	*09/18/24 15:04*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*09/13/24 19:48*	*09/18/24 15:04*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0097**	**J**	0.035	0.0072	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Acenaphthylene	**0.023**	**J**	0.035	0.0060	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Anthracene	**0.033**	**J**	0.035	0.0072	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Benzo[a]anthracene	**0.19**		0.035	0.0075	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Benzo[a]pyrene	**0.24**		0.035	0.034	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Benzo[b]fluoranthene	**0.37**		0.035	0.033	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Benzo[g,h,i]perylene	**0.28**		0.035	0.0076	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB91 (0-3)
Lab Sample ID: 500-256719-9
Date Collected: 09/12/24 12:30
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 91.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.16**		0.035	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Chrysene	**0.26**		0.035	0.0093	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Dibenz(a,h)anthracene	**0.067**		0.035	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Fluoranthene	**0.37**		0.035	0.0082	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Fluorene	<0.010		0.035	0.010	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Indeno[1,2,3-cd]pyrene	**0.26**		0.035	0.034	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Naphthalene	**0.014**	**J**	0.035	0.0064	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Phenanthrene	**0.14**		0.035	0.0077	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Pyrene	**0.39**		0.035	0.0096	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2,4-Dimethylphenol	<0.079		0.35	0.079	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2,4-Dinitrophenol	<0.20		0.71	0.20	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2-Methylnaphthalene	**0.020**	**J**	0.071	0.0071	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
4,6-Dinitro-2-methylphenol	<0.20		0.71	0.20	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
4-Chloroaniline	<0.37		0.71	0.37	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
4-Nitrophenol	<0.13		0.71	0.13	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Bis(2-ethylhexyl) phthalate	**0.15**	**J**	0.18	0.14	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Butyl benzyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Carbazole	**0.014**	**J**	0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Dibenzofuran	**0.013**	**J**	0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Dimethyl phthalate	<0.0076		0.18	0.0076	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Hexachlorobenzene	<0.0067		0.071	0.0067	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1

Client Sample ID: SB91 (0-3)
Date Collected: 09/12/24 12:30
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-9
Matrix: Solid
Percent Solids: 91.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.71	0.37	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
N-Nitrosodi-n-propylamine	<0.0069		0.071	0.0069	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Pentachlorophenol	<0.088		0.71	0.088	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*55*		*31 - 166*	*09/24/24 15:03*	*09/25/24 14:49*	*1*
Phenol-d5 (Surr)	*60*		*30 - 153*	*09/24/24 15:03*	*09/25/24 14:49*	*1*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*09/24/24 15:03*	*09/25/24 14:49*	*1*
2-Fluorobiphenyl (Surr)	*64*		*43 - 145*	*09/24/24 15:03*	*09/25/24 14:49*	*1*
2,4,6-Tribromophenol (Surr)	*11*	*S1-*	*31 - 143*	*09/24/24 15:03*	*09/25/24 14:49*	*1*
Terphenyl-d14 (Surr)	*69*		*42 - 157*	*09/24/24 15:03*	*09/25/24 14:49*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
alpha-BHC	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
alpha-Chlordane	<0.0093		0.018	0.0093	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
delta-BHC	<0.0083		0.018	0.0083	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Endosulfan I	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Endosulfan II	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Endosulfan sulfate	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Endrin aldehyde	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Heptachlor	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Methoxychlor	<0.011		0.086	0.011	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/24/24 07:38	10/01/24 22:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*123*		*33 - 148*	*09/24/24 07:38*	*10/01/24 22:46*	*10*
Tetrachloro-m-xylene	*70*		*30 - 121*	*09/24/24 07:38*	*10/01/24 22:46*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 11:14	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 11:14	10

Client Sample ID: SB91 (0-3)
Lab Sample ID: 500-256719-9

Date Collected: 09/12/24 12:30
Matrix: Solid

Date Received: 09/13/24 12:00
Percent Solids: 91.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 11:14	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 11:14	10
PCB-1248	**0.44**		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 11:14	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 11:14	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 11:14	10
Polychlorinated biphenyls, Total	**0.44**		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 11:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*49 - 129*	*09/24/24 07:38*	*10/03/24 11:14*	*10*
DCB Decachlorobiphenyl	*118*		*37 - 121*	*09/24/24 07:38*	*10/03/24 11:14*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		20		mg/Kg	☼	09/25/24 10:02	09/30/24 04:32	1
Antimony	<2.0		2.0		mg/Kg	☼	09/25/24 10:02	09/30/24 04:32	1
Arsenic	<5.0		5.0		mg/Kg	☼	09/25/24 10:02	10/01/24 03:08	5
Barium	**240**		5.0		mg/Kg	☼	09/25/24 10:02	10/01/24 03:08	5
Beryllium	**3.8**		2.0		mg/Kg	☼	09/25/24 10:02	10/01/24 03:08	5
Cadmium	**150**		1.0		mg/Kg	☼	09/25/24 10:02	10/01/24 03:08	5
Calcium	**180000**		100		mg/Kg	☼	09/25/24 10:02	10/01/24 03:08	5
Chromium	**1300**		20		mg/Kg	☼	09/25/24 10:02	10/01/24 13:36	20
Cobalt	**5.8**		0.50		mg/Kg	☼	09/25/24 10:02	09/30/24 04:32	1
Copper	**100**		5.0		mg/Kg	☼	09/25/24 10:02	10/01/24 03:08	5
Iron	**88000**		100		mg/Kg	☼	09/25/24 10:02	10/01/24 03:08	5
Lead	**280**		2.5		mg/Kg	☼	09/25/24 10:02	10/01/24 03:08	5
Magnesium	**36000**		10		mg/Kg	☼	09/25/24 10:02	09/30/24 04:32	1
Manganese	**21000**		20		mg/Kg	☼	09/25/24 10:02	10/01/24 13:36	20
Nickel	**64**		5.0		mg/Kg	☼	09/25/24 10:02	10/01/24 03:08	5
Potassium	**550**		50		mg/Kg	☼	09/25/24 10:02	09/30/24 04:32	1
Selenium	<5.0		5.0		mg/Kg	☼	09/25/24 10:02	10/01/24 03:08	5
Silver	<2.5		2.5		mg/Kg	☼	09/25/24 10:02	10/01/24 03:08	5
Sodium	**480**		100		mg/Kg	☼	09/25/24 10:02	09/30/24 04:32	1
Thallium	**75**		20		mg/Kg	☼	09/25/24 10:02	10/01/24 13:36	20
Vanadium	**250**		2.5		mg/Kg	☼	09/25/24 10:02	10/01/24 03:08	5
Zinc	**1400**		2.0		mg/Kg	☼	09/25/24 10:02	09/30/24 04:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**	**F1**	0.017		mg/Kg	☼	09/30/24 18:30	10/01/24 07:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**3.2**		0.26		mg/Kg	☼	09/23/24 11:09	09/23/24 17:13	1
pH (SW846 9045D)	**10.84**		0.20		SU			09/19/24 18:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB91 (12.5-15)
Lab Sample ID: 500-256719-10
Date Collected: 09/12/24 12:57
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 88.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00087		0.0021	0.00087	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0021	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
1,1,2-Trichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
1,1-Dichloroethane	<0.00081		0.0021	0.00081	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
1,1-Dichloroethene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
2-Butanone (MEK)	<0.0024		0.0054	0.0024	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0054	0.0038	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Acetone	<0.0090		0.021	0.0090	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Benzene	<0.00067		0.0021	0.00067	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Bromodichloromethane	<0.00069		0.0021	0.00069	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Bromoform	<0.0013		0.0021	0.0013	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Bromomethane	<0.0026		0.0054	0.0026	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Carbon disulfide	**0.0010**	**J**	0.0054	0.00099	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Carbon tetrachloride	<0.00073		0.0021	0.00073	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Chlorobenzene	<0.00091		0.0021	0.00091	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Chloromethane	<0.0010		0.0054	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
cis-1,2-Dichloroethene	<0.00087		0.0021	0.00087	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Dibromochloromethane	<0.00099		0.0021	0.00099	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Methyl tert-butyl ether	<0.00069		0.0021	0.00069	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Styrene	<0.00097		0.0021	0.00097	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Toluene	<0.00043		0.0021	0.00043	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Xylenes, Total	<0.00074		0.0043	0.00074	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
trans-1,2-Dichloroethene	<0.00081		0.0021	0.00081	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Trichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1
Vinyl chloride	<0.00088		0.0021	0.00088	mg/Kg	☼	09/13/24 19:48	09/18/24 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*09/13/24 19:48*	*09/18/24 15:29*	*1*
4-Bromofluorobenzene (Surr)	*111*		*75 - 131*	*09/13/24 19:48*	*09/18/24 15:29*	*1*
Dibromofluoromethane	*79*		*75 - 126*	*09/13/24 19:48*	*09/18/24 15:29*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*09/13/24 19:48*	*09/18/24 15:29*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.037	0.0075	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Acenaphthylene	**0.030**	**J**	0.037	0.0062	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Anthracene	**0.039**		0.037	0.0075	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Benzo[a]anthracene	**0.18**		0.037	0.0078	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Benzo[a]pyrene	**0.22**		0.037	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Benzo[b]fluoranthene	**0.36**		0.037	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Benzo[g,h,i]perylene	**0.24**		0.037	0.0080	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB91 (12.5-15)
Lab Sample ID: 500-256719-10
Date Collected: 09/12/24 12:57
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 88.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.13**		0.037	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Chrysene	**0.28**		0.037	0.0097	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Dibenz(a,h)anthracene	**0.059**		0.037	0.037	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Fluoranthene	**0.36**		0.037	0.0085	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Fluorene	<0.011		0.037	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Indeno[1,2,3-cd]pyrene	**0.22**		0.037	0.036	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Naphthalene	**0.019**	**J**	0.037	0.0066	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Phenanthrene	**0.16**		0.037	0.0080	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Pyrene	**0.35**		0.037	0.010	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
1,3-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2,4-Dimethylphenol	<0.082		0.37	0.082	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2,6-Dinitrotoluene	<0.013		0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2-Methylnaphthalene	**0.028**	**J**	0.074	0.0074	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
4-Chloro-3-methylphenol	<0.014		0.37	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
4-Chloroaniline	<0.39		0.74	0.39	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
4-Nitroaniline	<0.027		0.37	0.027	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Bis(2-ethylhexyl) phthalate	**0.22**		0.18	0.14	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Butyl benzyl phthalate	**0.022**	**J**	0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Carbazole	**0.025**	**J**	0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Dibenzofuran	**0.018**	**J**	0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Diethyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Dimethyl phthalate	<0.0080		0.18	0.0080	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1

Client Sample ID: SB91 (12.5-15)
Lab Sample ID: 500-256719-10
Date Collected: 09/12/24 12:57
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 88.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
N-Nitrosodi-n-propylamine	<0.0072		0.074	0.0072	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Pentachlorophenol	<0.092		0.74	0.092	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*49*		*31 - 166*	*09/24/24 15:03*	*09/25/24 15:14*	*1*
Phenol-d5 (Surr)	*58*		*30 - 153*	*09/24/24 15:03*	*09/25/24 15:14*	*1*
Nitrobenzene-d5 (Surr)	*54*		*37 - 147*	*09/24/24 15:03*	*09/25/24 15:14*	*1*
2-Fluorobiphenyl (Surr)	*65*		*43 - 145*	*09/24/24 15:03*	*09/25/24 15:14*	*1*
2,4,6-Tribromophenol (Surr)	*23*	*S1-*	*31 - 143*	*09/24/24 15:03*	*09/25/24 15:14*	*1*
Terphenyl-d14 (Surr)	*77*		*42 - 157*	*09/24/24 15:03*	*09/25/24 15:14*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
4,4'-DDE	<0.0093		0.018	0.0093	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
4,4'-DDT	<0.0086		0.018	0.0086	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
alpha-Chlordane	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Chlordane (technical)	<0.034		0.072	0.034	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
delta-BHC	<0.0086		0.018	0.0086	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Dieldrin	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Endosulfan I	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Endosulfan II	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Endrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Endrin ketone	<0.0088		0.018	0.0088	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
gamma-BHC (Lindane)	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Heptachlor	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Heptachlor epoxide	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Methoxychlor	<0.012		0.089	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/24/24 07:38	10/01/24 22:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*33 - 148*	*09/24/24 07:38*	*10/01/24 22:57*	*10*
Tetrachloro-m-xylene	*57*		*30 - 121*	*09/24/24 07:38*	*10/01/24 22:57*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 11:29	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 11:29	10

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256719-1

Client Sample ID: SB91 (12.5-15)

Date Collected: 09/12/24 12:57
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-10

Matrix: Solid
Percent Solids: 88.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 11:29	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 11:29	10
PCB-1248	**0.52**		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 11:29	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 11:29	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 11:29	10
Polychlorinated biphenyls, Total	**0.52**		0.18		mg/Kg	☼	09/24/24 07:38	10/03/24 11:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*49 - 129*	*09/24/24 07:38*	*10/03/24 11:29*	*10*
DCB Decachlorobiphenyl	*121*		*37 - 121*	*09/24/24 07:38*	*10/03/24 11:29*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		19		mg/Kg	☼	09/25/24 10:02	09/30/24 04:36	1
Antimony	<1.9		1.9		mg/Kg	☼	09/25/24 10:02	09/30/24 04:36	1
Arsenic	<4.9		4.9		mg/Kg	☼	09/25/24 10:02	10/01/24 03:13	5
Barium	**220**		4.9		mg/Kg	☼	09/25/24 10:02	10/01/24 03:13	5
Beryllium	**2.3**		1.9		mg/Kg	☼	09/25/24 10:02	10/01/24 03:13	5
Cadmium	**2.2**		0.97		mg/Kg	☼	09/25/24 10:02	10/01/24 03:13	5
Calcium	**120000**		97		mg/Kg	☼	09/25/24 10:02	10/01/24 03:13	5
Chromium	**720**		4.9		mg/Kg	☼	09/25/24 10:02	10/01/24 03:13	5
Cobalt	**7.0**		0.49		mg/Kg	☼	09/25/24 10:02	09/30/24 04:36	1
Copper	**100**		4.9		mg/Kg	☼	09/25/24 10:02	10/01/24 03:13	5
Iron	**100000**		97		mg/Kg	☼	09/25/24 10:02	10/01/24 03:13	5
Lead	**190**		2.4		mg/Kg	☼	09/25/24 10:02	10/01/24 03:13	5
Magnesium	**24000**		9.7		mg/Kg	☼	09/25/24 10:02	09/30/24 04:36	1
Manganese	**23000**		19		mg/Kg	☼	09/25/24 10:02	10/01/24 13:41	20
Nickel	**69**		4.9		mg/Kg	☼	09/25/24 10:02	10/01/24 03:13	5
Potassium	**500**		49		mg/Kg	☼	09/25/24 10:02	09/30/24 04:36	1
Selenium	<4.9		4.9		mg/Kg	☼	09/25/24 10:02	10/01/24 03:13	5
Silver	<0.49		0.49		mg/Kg	☼	09/25/24 10:02	09/30/24 04:36	1
Sodium	**420**		97		mg/Kg	☼	09/25/24 10:02	09/30/24 04:36	1
Thallium	**85**		19		mg/Kg	☼	09/25/24 10:02	10/01/24 13:41	20
Vanadium	**230**		2.4		mg/Kg	☼	09/25/24 10:02	10/01/24 03:13	5
Zinc	**340**		1.9		mg/Kg	☼	09/25/24 10:02	09/30/24 04:36	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.017		mg/Kg	☼	09/30/24 18:30	10/01/24 07:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**6.9**		1.3		mg/Kg	☼	09/23/24 11:09	09/23/24 16:18	5
pH (SW846 9045D)	**10.69**		0.20		SU			09/19/24 18:40	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB92 (0-3)
Date Collected: 09/12/24 13:44
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-11
Matrix: Solid
Percent Solids: 91.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0026	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0026	0.0013	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
1,1,2-Trichloroethane	<0.00096		0.0026	0.00096	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
1,1-Dichloroethane	<0.00097		0.0026	0.00097	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
1,1-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
1,2-Dichloroethane	<0.0017		0.0064	0.0017	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
1,2-Dichloropropane	<0.00066		0.0026	0.00066	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
2-Butanone (MEK)	**0.012**		0.0064	0.0028	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
2-Hexanone	<0.0039		0.0064	0.0039	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0064	0.0046	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Acetone	**0.079**		0.026	0.011	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Benzene	<0.00081		0.0026	0.00081	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Bromodichloromethane	<0.00082		0.0026	0.00082	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Bromoform	<0.0015		0.0026	0.0015	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Bromomethane	<0.0032		0.0064	0.0032	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Carbon disulfide	**0.0067**		0.0064	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Carbon tetrachloride	<0.00087		0.0026	0.00087	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Chlorobenzene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Chloroethane	<0.0021		0.0064	0.0021	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Chloroform	<0.0018		0.0026	0.0018	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Chloromethane	<0.0012		0.0064	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
cis-1,2-Dichloroethene	<0.0010		0.0026	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
1,3-Dichloropropene, Total	<0.0012		0.0026	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Dibromochloromethane	<0.0012		0.0026	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Ethylbenzene	<0.0013		0.0026	0.0013	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Methyl tert-butyl ether	<0.00083		0.0026	0.00083	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Methylene Chloride	<0.0027		0.0064	0.0027	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Styrene	<0.0012		0.0026	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Tetrachloroethene	<0.0014		0.0026	0.0014	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Toluene	<0.00052		0.0026	0.00052	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Xylenes, Total	<0.00088		0.0051	0.00088	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
trans-1,2-Dichloroethene	<0.00097		0.0026	0.00097	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Trichloroethene	<0.00070		0.0026	0.00070	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1
Vinyl chloride	<0.0010		0.0026	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/13/24 19:48*	*09/18/24 15:54*	*1*
4-Bromofluorobenzene (Surr)	*111*		*75 - 131*	*09/13/24 19:48*	*09/18/24 15:54*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*09/13/24 19:48*	*09/18/24 15:54*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*09/13/24 19:48*	*09/18/24 15:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.036	0.0073	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Acenaphthylene	**0.0090**	**J**	0.036	0.0061	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Anthracene	**0.012**	**J**	0.036	0.0073	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Benzo[a]anthracene	**0.062**		0.036	0.0076	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Benzo[a]pyrene	**0.051**		0.036	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Benzo[b]fluoranthene	**0.10**		0.036	0.034	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Benzo[g,h,i]perylene	**0.069**		0.036	0.0078	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB92 (0-3)
Lab Sample ID: 500-256719-11
Date Collected: 09/12/24 13:44
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 91.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.026**	**J**	0.036	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Chrysene	**0.069**		0.036	0.0095	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Fluoranthene	**0.098**		0.036	0.0084	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Fluorene	<0.011		0.036	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Indeno[1,2,3-cd]pyrene	**0.059**		0.036	0.035	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Naphthalene	<0.0065		0.036	0.0065	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Phenanthrene	**0.055**		0.036	0.0078	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Pyrene	**0.10**		0.036	0.0098	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2,4-Dimethylphenol	<0.081		0.36	0.081	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2-Methylnaphthalene	<0.0072		0.073	0.0072	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
2-Nitrophenol	<0.024		0.36	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
3-Nitroaniline	<0.016		0.36	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Dimethyl phthalate	<0.0078		0.18	0.0078	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Hexachlorobenzene	<0.0069		0.073	0.0069	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB92 (0-3)
Lab Sample ID: 500-256719-11
Date Collected: 09/12/24 13:44
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 91.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.73	0.38	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
N-Nitrosodi-n-propylamine	<0.0071		0.073	0.0071	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Pentachlorophenol	<0.090		0.73	0.090	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*41*		*31 - 166*	*09/24/24 15:03*	*09/25/24 15:38*	*1*
Phenol-d5 (Surr)	*50*		*30 - 153*	*09/24/24 15:03*	*09/25/24 15:38*	*1*
Nitrobenzene-d5 (Surr)	*47*		*37 - 147*	*09/24/24 15:03*	*09/25/24 15:38*	*1*
2-Fluorobiphenyl (Surr)	*52*		*43 - 145*	*09/24/24 15:03*	*09/25/24 15:38*	*1*
2,4,6-Tribromophenol (Surr)	*6*	*S1-*	*31 - 143*	*09/24/24 15:03*	*09/25/24 15:38*	*1*
Terphenyl-d14 (Surr)	*57*		*42 - 157*	*09/24/24 15:03*	*09/25/24 15:38*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
delta-BHC	<0.0083		0.017	0.0083	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Endosulfan II	<0.0095		0.017	0.0095	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Endosulfan sulfate	<0.0096		0.017	0.0096	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Endrin aldehyde	<0.0099		0.017	0.0099	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Heptachlor	<0.0094		0.017	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/24/24 07:38	10/01/24 23:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*216*	*S1+*	*33 - 148*	*09/24/24 07:38*	*10/01/24 23:09*	*10*
Tetrachloro-m-xylene	*89*		*30 - 121*	*09/24/24 07:38*	*10/01/24 23:09*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:08	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:08	10

Client Sample ID: SB92 (0-3)
Lab Sample ID: 500-256719-11

Date Collected: 09/12/24 13:44
Matrix: Solid

Date Received: 09/13/24 12:00
Percent Solids: 91.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:08	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:08	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:08	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:08	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:08	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*49 - 129*	*09/24/24 07:38*	*10/03/24 01:08*	*10*
DCB Decachlorobiphenyl	*82*		*37 - 121*	*09/24/24 07:38*	*10/03/24 01:08*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		18		mg/Kg	☼	09/25/24 10:02	09/30/24 04:41	1
Antimony	<1.8		1.8		mg/Kg	☼	09/25/24 10:02	09/30/24 04:41	1
Arsenic	<4.6		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 03:18	5
Barium	**290**		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 03:18	5
Beryllium	**3.7**		1.8		mg/Kg	☼	09/25/24 10:02	10/01/24 03:18	5
Cadmium	<0.91		0.91		mg/Kg	☼	09/25/24 10:02	10/01/24 03:18	5
Calcium	**170000**		91		mg/Kg	☼	09/25/24 10:02	10/01/24 03:18	5
Chromium	**350**		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 03:18	5
Cobalt	**8.2**		0.46		mg/Kg	☼	09/25/24 10:02	09/30/24 04:41	1
Copper	**210**		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 03:18	5
Iron	**100000**		91		mg/Kg	☼	09/25/24 10:02	10/01/24 03:18	5
Lead	**68**		2.3		mg/Kg	☼	09/25/24 10:02	10/01/24 03:18	5
Magnesium	**21000**		9.1		mg/Kg	☼	09/25/24 10:02	09/30/24 04:41	1
Manganese	**14000**		18		mg/Kg	☼	09/25/24 10:02	10/01/24 13:45	20
Nickel	**160**		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 03:18	5
Potassium	**690**		46		mg/Kg	☼	09/25/24 10:02	09/30/24 04:41	1
Selenium	<4.6		4.6		mg/Kg	☼	09/25/24 10:02	10/01/24 03:18	5
Silver	<0.46		0.46		mg/Kg	☼	09/25/24 10:02	09/30/24 04:41	1
Sodium	**430**		91		mg/Kg	☼	09/25/24 10:02	09/30/24 04:41	1
Thallium	**50**		18		mg/Kg	☼	09/25/24 10:02	10/01/24 13:45	20
Vanadium	**140**		2.3		mg/Kg	☼	09/25/24 10:02	10/01/24 03:18	5
Zinc	**120**		1.8		mg/Kg	☼	09/25/24 10:02	09/30/24 04:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.044**		0.017		mg/Kg	☼	09/30/24 18:30	10/01/24 07:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**6.0**	**F1**	1.3		mg/Kg	☼	09/23/24 11:09	09/23/24 16:22	5
Sulfide (SW846 9034)	**360**		32		mg/Kg	☼	09/19/24 15:21	09/19/24 16:10	1
pH (SW846 9045D)	**10.52**		0.20		SU			09/19/24 18:31	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB92 (3-5)
Lab Sample ID: 500-256719-12
Date Collected: 09/12/24 13:52
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 91.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00088		0.0022	0.00088	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
1,1-Dichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
1,1-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
2-Butanone (MEK)	**0.0083**		0.0054	0.0024	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0054	0.0039	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Acetone	**0.043**		0.022	0.0091	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Benzene	<0.00068		0.0022	0.00068	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Bromodichloromethane	<0.00070		0.0022	0.00070	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Bromomethane	<0.0027		0.0054	0.0027	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Carbon disulfide	**0.0057**		0.0054	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Carbon tetrachloride	<0.00074		0.0022	0.00074	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Chlorobenzene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Chloromethane	<0.0011		0.0054	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
cis-1,2-Dichloroethene	<0.00087		0.0022	0.00087	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Methyl tert-butyl ether	<0.00070		0.0022	0.00070	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Styrene	<0.00098		0.0022	0.00098	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Xylenes, Total	<0.00074		0.0043	0.00074	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
trans-1,2-Dichloroethene	<0.00082		0.0022	0.00082	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Trichloroethene	<0.00059		0.0022	0.00059	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1
Vinyl chloride	<0.00089		0.0022	0.00089	mg/Kg	☼	09/13/24 19:48	09/18/24 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/13/24 19:48*	*09/18/24 16:19*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*09/13/24 19:48*	*09/18/24 16:19*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*09/13/24 19:48*	*09/18/24 16:19*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/13/24 19:48*	*09/18/24 16:19*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.034	0.0070	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Acenaphthylene	<0.0059		0.034	0.0059	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Anthracene	**0.011**	**J**	0.034	0.0071	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Benzo[a]anthracene	**0.058**		0.034	0.0073	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Benzo[a]pyrene	**0.050**		0.034	0.033	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Benzo[b]fluoranthene	**0.097**		0.034	0.033	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Benzo[g,h,i]perylene	**0.057**		0.034	0.0075	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB92 (3-5)
Lab Sample ID: 500-256719-12
Date Collected: 09/12/24 13:52
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.038**		0.034	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Chrysene	**0.085**		0.034	0.0091	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Dibenz(a,h)anthracene	<0.034		0.034	0.034	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Fluoranthene	**0.11**		0.034	0.0080	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Fluorene	<0.010		0.034	0.010	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Indeno[1,2,3-cd]pyrene	**0.054**		0.034	0.034	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Naphthalene	<0.0063		0.034	0.0063	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Phenanthrene	**0.052**		0.034	0.0075	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Pyrene	**0.11**		0.034	0.0094	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
1,2,4-Trichlorobenzene	<0.025		0.17	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
1,3-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2,4-Dimethylphenol	<0.077		0.34	0.077	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2,4-Dinitrophenol	<0.20		0.70	0.20	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2,4-Dinitrotoluene	<0.020		0.17	0.020	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2-Methylnaphthalene	<0.0069		0.070	0.0069	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2-Nitroaniline	<0.019		0.17	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
2-Nitrophenol	<0.023		0.34	0.023	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
3-Nitroaniline	<0.016		0.34	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
4,6-Dinitro-2-methylphenol	<0.19		0.70	0.19	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
4-Bromophenyl phenyl ether	<0.024		0.17	0.024	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
4-Chloroaniline	<0.36		0.70	0.36	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
4-Nitroaniline	<0.026		0.34	0.026	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
4-Nitrophenol	<0.13		0.70	0.13	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
bis(chloroisopropyl) ether	<0.025		0.17	0.025	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Bis(2-ethylhexyl) phthalate	<0.14		0.17	0.14	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Carbazole	<0.014		0.17	0.014	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Dimethyl phthalate	<0.0075		0.17	0.0075	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Hexachlorobenzene	<0.0066		0.070	0.0066	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB92 (3-5)
Lab Sample ID: 500-256719-12
Date Collected: 09/12/24 13:52
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.70	0.37	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
N-Nitrosodi-n-propylamine	<0.0068		0.070	0.0068	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
N-Nitrosodiphenylamine	<0.021		0.17	0.021	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Pentachlorophenol	<0.086		0.70	0.086	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/24/24 15:03	09/25/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*55*		*31 - 166*	*09/24/24 15:03*	*09/25/24 16:02*	*1*
Phenol-d5 (Surr)	*61*		*30 - 153*	*09/24/24 15:03*	*09/25/24 16:02*	*1*
Nitrobenzene-d5 (Surr)	*59*		*37 - 147*	*09/24/24 15:03*	*09/25/24 16:02*	*1*
2-Fluorobiphenyl (Surr)	*65*		*43 - 145*	*09/24/24 15:03*	*09/25/24 16:02*	*1*
2,4,6-Tribromophenol (Surr)	*10*	*S1-*	*31 - 143*	*09/24/24 15:03*	*09/25/24 16:02*	*1*
Terphenyl-d14 (Surr)	*71*		*42 - 157*	*09/24/24 15:03*	*09/25/24 16:02*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
alpha-BHC	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
alpha-Chlordane	<0.0093		0.018	0.0093	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
delta-BHC	<0.0083		0.018	0.0083	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Endosulfan I	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Endosulfan II	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Endosulfan sulfate	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Endrin aldehyde	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Heptachlor	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Methoxychlor	<0.011		0.086	0.011	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/24/24 07:38	10/01/24 23:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*146*		*33 - 148*	*09/24/24 07:38*	*10/01/24 23:20*	*10*
Tetrachloro-m-xylene	*108*		*30 - 121*	*09/24/24 07:38*	*10/01/24 23:20*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:24	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:24	10

Client Sample ID: SB92 (3-5)
Date Collected: 09/12/24 13:52
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-12
Matrix: Solid
Percent Solids: 91.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:24	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:24	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:24	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:24	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:24	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 07:38	10/03/24 01:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*49 - 129*	*09/24/24 07:38*	*10/03/24 01:24*	*10*
DCB Decachlorobiphenyl	*98*		*37 - 121*	*09/24/24 07:38*	*10/03/24 01:24*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22000**		21		mg/Kg	☼	09/25/24 10:02	09/30/24 04:46	1
Antimony	<2.1		2.1		mg/Kg	☼	09/25/24 10:02	09/30/24 04:46	1
Arsenic	**7.1**		5.2		mg/Kg	☼	09/25/24 10:02	10/01/24 03:31	5
Barium	**360**		5.2		mg/Kg	☼	09/25/24 10:02	10/01/24 03:31	5
Beryllium	**3.9**		2.1		mg/Kg	☼	09/25/24 10:02	10/01/24 03:31	5
Cadmium	<1.0		1.0		mg/Kg	☼	09/25/24 10:02	10/01/24 03:31	5
Calcium	**180000**		100		mg/Kg	☼	09/25/24 10:02	10/01/24 03:31	5
Chromium	**1700**		21		mg/Kg	☼	09/25/24 10:02	10/01/24 13:58	20
Cobalt	**3.3**		0.52		mg/Kg	☼	09/25/24 10:02	09/30/24 04:46	1
Copper	**77**		5.2		mg/Kg	☼	09/25/24 10:02	10/01/24 03:31	5
Iron	**73000**		100		mg/Kg	☼	09/25/24 10:02	10/01/24 03:31	5
Lead	**68**		2.6		mg/Kg	☼	09/25/24 10:02	10/01/24 03:31	5
Magnesium	**20000**		10		mg/Kg	☼	09/25/24 10:02	09/30/24 04:46	1
Manganese	**20000**	**^2**	21		mg/Kg	☼	09/25/24 10:02	10/01/24 13:58	20
Nickel	**69**		5.2		mg/Kg	☼	09/25/24 10:02	10/01/24 03:31	5
Potassium	**810**		52		mg/Kg	☼	09/25/24 10:02	09/30/24 04:46	1
Selenium	<5.2		5.2		mg/Kg	☼	09/25/24 10:02	10/01/24 03:31	5
Silver	<2.6		2.6		mg/Kg	☼	09/25/24 10:02	10/01/24 03:31	5
Sodium	**450**		100		mg/Kg	☼	09/25/24 10:02	09/30/24 04:46	1
Thallium	**74**		21		mg/Kg	☼	09/25/24 10:02	10/01/24 13:58	20
Vanadium	**260**		2.6		mg/Kg	☼	09/25/24 10:02	10/01/24 03:31	5
Zinc	**150**		2.1		mg/Kg	☼	09/25/24 10:02	09/30/24 04:46	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.016		mg/Kg	☼	09/30/24 18:30	10/01/24 07:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.3**		0.25		mg/Kg	☼	09/23/24 11:09	09/23/24 16:33	1
pH (SW846 9045D)	**10.71**		0.20		SU			09/19/24 18:33	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 786061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	5035	
500-256719-2	SB87 (3-5)	Total/NA	Solid	5035	
500-256719-3	SB88 (0-3)	Total/NA	Solid	5035	
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	5035	
500-256719-5	SB89 (0-3)	Total/NA	Solid	5035	
500-256719-6	SB89 (3-5)	Total/NA	Solid	5035	
500-256719-7	SB90 (0-3)	Total/NA	Solid	5035	
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	5035	
500-256719-9	SB91 (0-3)	Total/NA	Solid	5035	
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	5035	
500-256719-11	SB92 (0-3)	Total/NA	Solid	5035	
500-256719-12	SB92 (3-5)	Total/NA	Solid	5035	

Analysis Batch: 786542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	8260D	786061
500-256719-2	SB87 (3-5)	Total/NA	Solid	8260D	786061
500-256719-3	SB88 (0-3)	Total/NA	Solid	8260D	786061
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	8260D	786061
500-256719-5	SB89 (0-3)	Total/NA	Solid	8260D	786061
500-256719-6	SB89 (3-5)	Total/NA	Solid	8260D	786061
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	8260D	786061
500-256719-9	SB91 (0-3)	Total/NA	Solid	8260D	786061
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	8260D	786061
500-256719-11	SB92 (0-3)	Total/NA	Solid	8260D	786061
500-256719-12	SB92 (3-5)	Total/NA	Solid	8260D	786061
MB 500-786542/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-786542/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-786542/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 786988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-7	SB90 (0-3)	Total/NA	Solid	8260D	786061
MB 500-786988/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-786988/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-786988/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 787542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1 - DL	SB87 (0-3)	Total/NA	Solid	3546	
500-256719-1	SB87 (0-3)	Total/NA	Solid	3546	
500-256719-2	SB87 (3-5)	Total/NA	Solid	3546	
500-256719-3	SB88 (0-3)	Total/NA	Solid	3546	
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	3546	
500-256719-5	SB89 (0-3)	Total/NA	Solid	3546	
500-256719-6	SB89 (3-5)	Total/NA	Solid	3546	
500-256719-7	SB90 (0-3)	Total/NA	Solid	3546	
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	3546	
500-256719-9	SB91 (0-3)	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 787542 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	3546	
500-256719-11	SB92 (0-3)	Total/NA	Solid	3546	
500-256719-12	SB92 (3-5)	Total/NA	Solid	3546	
MB 500-787542/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-787542/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 787646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	8270E	787542
500-256719-2	SB87 (3-5)	Total/NA	Solid	8270E	787542
500-256719-3	SB88 (0-3)	Total/NA	Solid	8270E	787542
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	8270E	787542
500-256719-5	SB89 (0-3)	Total/NA	Solid	8270E	787542
500-256719-6	SB89 (3-5)	Total/NA	Solid	8270E	787542
500-256719-7	SB90 (0-3)	Total/NA	Solid	8270E	787542
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	8270E	787542
500-256719-9	SB91 (0-3)	Total/NA	Solid	8270E	787542
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	8270E	787542
500-256719-11	SB92 (0-3)	Total/NA	Solid	8270E	787542
500-256719-12	SB92 (3-5)	Total/NA	Solid	8270E	787542
MB 500-787542/1-A	Method Blank	Total/NA	Solid	8270E	787542
LCS 500-787542/2-A	Lab Control Sample	Total/NA	Solid	8270E	787542

Analysis Batch: 787846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1 - DL	SB87 (0-3)	Total/NA	Solid	8270E	787542

GC Semi VOA

Prep Batch: 787438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	3541	
500-256719-2	SB87 (3-5)	Total/NA	Solid	3541	
500-256719-3	SB88 (0-3)	Total/NA	Solid	3541	
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	3541	
500-256719-5	SB89 (0-3)	Total/NA	Solid	3541	
500-256719-6	SB89 (3-5)	Total/NA	Solid	3541	
500-256719-7	SB90 (0-3)	Total/NA	Solid	3541	
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	3541	
500-256719-9	SB91 (0-3)	Total/NA	Solid	3541	
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	3541	
500-256719-11	SB92 (0-3)	Total/NA	Solid	3541	
500-256719-12	SB92 (3-5)	Total/NA	Solid	3541	
MB 500-787438/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-787438/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-787438/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256719-8 MS	SB90 (7.5-10)	Total/NA	Solid	3541	
500-256719-8 MS	SB90 (7.5-10)	Total/NA	Solid	3541	
500-256719-8 MSD	SB90 (7.5-10)	Total/NA	Solid	3541	
500-256719-8 MSD	SB90 (7.5-10)	Total/NA	Solid	3541	

GC Semi VOA

Analysis Batch: 788611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	8081B	787438
500-256719-2	SB87 (3-5)	Total/NA	Solid	8081B	787438
500-256719-3	SB88 (0-3)	Total/NA	Solid	8081B	787438
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	8081B	787438
500-256719-5	SB89 (0-3)	Total/NA	Solid	8081B	787438
500-256719-6	SB89 (3-5)	Total/NA	Solid	8081B	787438
500-256719-7	SB90 (0-3)	Total/NA	Solid	8081B	787438
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	8081B	787438
500-256719-9	SB91 (0-3)	Total/NA	Solid	8081B	787438
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	8081B	787438
500-256719-11	SB92 (0-3)	Total/NA	Solid	8081B	787438
500-256719-12	SB92 (3-5)	Total/NA	Solid	8081B	787438
MB 500-787438/1-A	Method Blank	Total/NA	Solid	8081B	787438
LCS 500-787438/2-A	Lab Control Sample	Total/NA	Solid	8081B	787438
500-256719-8 MS	SB90 (7.5-10)	Total/NA	Solid	8081B	787438
500-256719-8 MSD	SB90 (7.5-10)	Total/NA	Solid	8081B	787438

Analysis Batch: 788793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	8082A	787438
500-256719-2	SB87 (3-5)	Total/NA	Solid	8082A	787438
500-256719-3	SB88 (0-3)	Total/NA	Solid	8082A	787438
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	8082A	787438
500-256719-5	SB89 (0-3)	Total/NA	Solid	8082A	787438
500-256719-6	SB89 (3-5)	Total/NA	Solid	8082A	787438
500-256719-7	SB90 (0-3)	Total/NA	Solid	8082A	787438
500-256719-11	SB92 (0-3)	Total/NA	Solid	8082A	787438
500-256719-12	SB92 (3-5)	Total/NA	Solid	8082A	787438
MB 500-787438/1-A	Method Blank	Total/NA	Solid	8082A	787438
LCS 500-787438/3-A	Lab Control Sample	Total/NA	Solid	8082A	787438

Analysis Batch: 788855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	8082A	787438
500-256719-9	SB91 (0-3)	Total/NA	Solid	8082A	787438
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	8082A	787438
500-256719-8 MS	SB90 (7.5-10)	Total/NA	Solid	8082A	787438
500-256719-8 MSD	SB90 (7.5-10)	Total/NA	Solid	8082A	787438

Metals

Prep Batch: 787683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	3050B	
500-256719-2	SB87 (3-5)	Total/NA	Solid	3050B	
500-256719-3	SB88 (0-3)	Total/NA	Solid	3050B	
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	3050B	
500-256719-5	SB89 (0-3)	Total/NA	Solid	3050B	
500-256719-6	SB89 (3-5)	Total/NA	Solid	3050B	
500-256719-7	SB90 (0-3)	Total/NA	Solid	3050B	
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 787683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-9	SB91 (0-3)	Total/NA	Solid	3050B	
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	3050B	
500-256719-11	SB92 (0-3)	Total/NA	Solid	3050B	
500-256719-12	SB92 (3-5)	Total/NA	Solid	3050B	
MB 500-787683/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-787683/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-256719-1 MS	SB87 (0-3)	Total/NA	Solid	3050B	
500-256719-1 MSD	SB87 (0-3)	Total/NA	Solid	3050B	
500-256719-1 DU	SB87 (0-3)	Total/NA	Solid	3050B	

Analysis Batch: 788293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	6010D	787683
500-256719-2	SB87 (3-5)	Total/NA	Solid	6010D	787683
500-256719-3	SB88 (0-3)	Total/NA	Solid	6010D	787683
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	6010D	787683
500-256719-5	SB89 (0-3)	Total/NA	Solid	6010D	787683
500-256719-6	SB89 (3-5)	Total/NA	Solid	6010D	787683
500-256719-7	SB90 (0-3)	Total/NA	Solid	6010D	787683
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	6010D	787683
500-256719-9	SB91 (0-3)	Total/NA	Solid	6010D	787683
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	6010D	787683
500-256719-11	SB92 (0-3)	Total/NA	Solid	6010D	787683
500-256719-12	SB92 (3-5)	Total/NA	Solid	6010D	787683
MB 500-787683/1-A	Method Blank	Total/NA	Solid	6010D	787683
LCS 500-787683/2-A	Lab Control Sample	Total/NA	Solid	6010D	787683
500-256719-1 MS	SB87 (0-3)	Total/NA	Solid	6010D	787683
500-256719-1 MSD	SB87 (0-3)	Total/NA	Solid	6010D	787683
500-256719-1 DU	SB87 (0-3)	Total/NA	Solid	6010D	787683

Prep Batch: 788408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	7471B	
500-256719-2	SB87 (3-5)	Total/NA	Solid	7471B	
500-256719-3	SB88 (0-3)	Total/NA	Solid	7471B	
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	7471B	
500-256719-5	SB89 (0-3)	Total/NA	Solid	7471B	
500-256719-6	SB89 (3-5)	Total/NA	Solid	7471B	
500-256719-7	SB90 (0-3)	Total/NA	Solid	7471B	
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	7471B	
500-256719-9	SB91 (0-3)	Total/NA	Solid	7471B	
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	7471B	
500-256719-11	SB92 (0-3)	Total/NA	Solid	7471B	
500-256719-12	SB92 (3-5)	Total/NA	Solid	7471B	
MB 500-788408/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-788408/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-256719-9 MS	SB91 (0-3)	Total/NA	Solid	7471B	
500-256719-9 MSD	SB91 (0-3)	Total/NA	Solid	7471B	
500-256719-9 DU	SB91 (0-3)	Total/NA	Solid	7471B	

Metals

Analysis Batch: 788475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	6010D	787683
500-256719-2	SB87 (3-5)	Total/NA	Solid	6010D	787683
500-256719-3	SB88 (0-3)	Total/NA	Solid	6010D	787683
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	6010D	787683
500-256719-5	SB89 (0-3)	Total/NA	Solid	6010D	787683
500-256719-6	SB89 (3-5)	Total/NA	Solid	6010D	787683
500-256719-7	SB90 (0-3)	Total/NA	Solid	6010D	787683
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	6010D	787683
500-256719-9	SB91 (0-3)	Total/NA	Solid	6010D	787683
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	6010D	787683
500-256719-11	SB92 (0-3)	Total/NA	Solid	6010D	787683
500-256719-12	SB92 (3-5)	Total/NA	Solid	6010D	787683
500-256719-1 MS	SB87 (0-3)	Total/NA	Solid	6010D	787683
500-256719-1 MSD	SB87 (0-3)	Total/NA	Solid	6010D	787683
500-256719-1 DU	SB87 (0-3)	Total/NA	Solid	6010D	787683

Analysis Batch: 788533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	7471B	788408
500-256719-2	SB87 (3-5)	Total/NA	Solid	7471B	788408
500-256719-3	SB88 (0-3)	Total/NA	Solid	7471B	788408
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	7471B	788408
500-256719-5	SB89 (0-3)	Total/NA	Solid	7471B	788408
500-256719-6	SB89 (3-5)	Total/NA	Solid	7471B	788408
500-256719-7	SB90 (0-3)	Total/NA	Solid	7471B	788408
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	7471B	788408
500-256719-9	SB91 (0-3)	Total/NA	Solid	7471B	788408
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	7471B	788408
500-256719-11	SB92 (0-3)	Total/NA	Solid	7471B	788408
500-256719-12	SB92 (3-5)	Total/NA	Solid	7471B	788408
MB 500-788408/12-A	Method Blank	Total/NA	Solid	7471B	788408
LCS 500-788408/13-A	Lab Control Sample	Total/NA	Solid	7471B	788408
500-256719-9 MS	SB91 (0-3)	Total/NA	Solid	7471B	788408
500-256719-9 MSD	SB91 (0-3)	Total/NA	Solid	7471B	788408
500-256719-9 DU	SB91 (0-3)	Total/NA	Solid	7471B	788408

Analysis Batch: 788598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-5	SB89 (0-3)	Total/NA	Solid	6010D	787683
500-256719-6	SB89 (3-5)	Total/NA	Solid	6010D	787683
500-256719-7	SB90 (0-3)	Total/NA	Solid	6010D	787683
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	6010D	787683
500-256719-9	SB91 (0-3)	Total/NA	Solid	6010D	787683
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	6010D	787683
500-256719-11	SB92 (0-3)	Total/NA	Solid	6010D	787683
500-256719-12	SB92 (3-5)	Total/NA	Solid	6010D	787683

General Chemistry

Prep Batch: 627726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	9030B	
500-256719-11	SB92 (0-3)	Total/NA	Solid	9030B	
MB 240-627726/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-627726/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 627735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	9034	627726
500-256719-11	SB92 (0-3)	Total/NA	Solid	9034	627726
MB 240-627726/1-A	Method Blank	Total/NA	Solid	9034	627726
LCS 240-627726/2-A	Lab Control Sample	Total/NA	Solid	9034	627726

Analysis Batch: 786903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-3	SB88 (0-3)	Total/NA	Solid	9045D	
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	9045D	
LCS 500-786903/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-786903/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 787013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	9045D	
500-256719-2	SB87 (3-5)	Total/NA	Solid	9045D	
500-256719-5	SB89 (0-3)	Total/NA	Solid	9045D	
500-256719-6	SB89 (3-5)	Total/NA	Solid	9045D	
500-256719-7	SB90 (0-3)	Total/NA	Solid	9045D	
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	9045D	
500-256719-9	SB91 (0-3)	Total/NA	Solid	9045D	
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	9045D	
500-256719-11	SB92 (0-3)	Total/NA	Solid	9045D	
500-256719-12	SB92 (3-5)	Total/NA	Solid	9045D	
LCS 500-787013/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-787013/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-256719-10 DU	SB91 (12.5-15)	Total/NA	Solid	9045D	

Analysis Batch: 787099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	Moisture	
500-256719-2	SB87 (3-5)	Total/NA	Solid	Moisture	
500-256719-3	SB88 (0-3)	Total/NA	Solid	Moisture	
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	Moisture	
500-256719-5	SB89 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 787111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-6	SB89 (3-5)	Total/NA	Solid	Moisture	

Prep Batch: 787284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-9	SB91 (0-3)	Total/NA	Solid	9010C	
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	9010C	

General Chemistry (Continued)

Prep Batch: 787284 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-11	SB92 (0-3)	Total/NA	Solid	9010C	
500-256719-12	SB92 (3-5)	Total/NA	Solid	9010C	
MB 500-787284/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-787284/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256719-11 MS	SB92 (0-3)	Total/NA	Solid	9010C	
500-256719-11 MSD	SB92 (0-3)	Total/NA	Solid	9010C	

Analysis Batch: 787363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-7	SB90 (0-3)	Total/NA	Solid	Moisture	
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	Moisture	
500-256719-9	SB91 (0-3)	Total/NA	Solid	Moisture	
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	Moisture	
500-256719-11	SB92 (0-3)	Total/NA	Solid	Moisture	
500-256719-12	SB92 (3-5)	Total/NA	Solid	Moisture	
500-256719-7 DU	SB90 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 787412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-9	SB91 (0-3)	Total/NA	Solid	9012B	787284
500-256719-10	SB91 (12.5-15)	Total/NA	Solid	9012B	787284
500-256719-11	SB92 (0-3)	Total/NA	Solid	9012B	787284
500-256719-12	SB92 (3-5)	Total/NA	Solid	9012B	787284
MB 500-787284/1-A	Method Blank	Total/NA	Solid	9012B	787284
LCS 500-787284/2-A	Lab Control Sample	Total/NA	Solid	9012B	787284
500-256719-11 MS	SB92 (0-3)	Total/NA	Solid	9012B	787284
500-256719-11 MSD	SB92 (0-3)	Total/NA	Solid	9012B	787284

Prep Batch: 787524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	9010C	
500-256719-2	SB87 (3-5)	Total/NA	Solid	9010C	
500-256719-3	SB88 (0-3)	Total/NA	Solid	9010C	
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	9010C	
500-256719-5	SB89 (0-3)	Total/NA	Solid	9010C	
500-256719-6	SB89 (3-5)	Total/NA	Solid	9010C	
500-256719-7	SB90 (0-3)	Total/NA	Solid	9010C	
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	9010C	
MB 500-787524/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-787524/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256719-3 MS	SB88 (0-3)	Total/NA	Solid	9010C	
500-256719-3 MSD	SB88 (0-3)	Total/NA	Solid	9010C	

Analysis Batch: 787731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	Total/NA	Solid	9012B	787524
500-256719-3	SB88 (0-3)	Total/NA	Solid	9012B	787524
500-256719-4	SB88 (7.5-10)	Total/NA	Solid	9012B	787524
500-256719-5	SB89 (0-3)	Total/NA	Solid	9012B	787524
500-256719-6	SB89 (3-5)	Total/NA	Solid	9012B	787524
MB 500-787524/1-A	Method Blank	Total/NA	Solid	9012B	787524

General Chemistry (Continued)

Analysis Batch: 787731 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-787524/2-A	Lab Control Sample	Total/NA	Solid	9012B	787524
500-256719-3 MS	SB88 (0-3)	Total/NA	Solid	9012B	787524
500-256719-3 MSD	SB88 (0-3)	Total/NA	Solid	9012B	787524

Analysis Batch: 787889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-2	SB87 (3-5)	Total/NA	Solid	9012B	787524
500-256719-7	SB90 (0-3)	Total/NA	Solid	9012B	787524
500-256719-8	SB90 (7.5-10)	Total/NA	Solid	9012B	787524
MB 500-787524/1-A	Method Blank	Total/NA	Solid	9012B	787524
LCS 500-787524/2-A	Lab Control Sample	Total/NA	Solid	9012B	787524

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-256719-1	SB87 (0-3)	102	112	99	106
500-256719-2	SB87 (3-5)	102	109	91	104
500-256719-3	SB88 (0-3)	99	110	102	101
500-256719-4	SB88 (7.5-10)	114	116	106	103
500-256719-5	SB89 (0-3)	100	102	81	101
500-256719-6	SB89 (3-5)	99	101	64 S1-	99
500-256719-7	SB90 (0-3)	111	115	92	104
500-256719-8	SB90 (7.5-10)	105	150 *3 S1+	95	112
500-256719-9	SB91 (0-3)	95	106	71 S1-	102
500-256719-10	SB91 (12.5-15)	100	111	79	103
500-256719-11	SB92 (0-3)	98	111	95	104
500-256719-12	SB92 (3-5)	98	106	96	105
LCS 500-786542/4	Lab Control Sample	99	94	97	104
LCS 500-786988/4	Lab Control Sample	103	98	96	104
LCSD 500-786542/5	Lab Control Sample Dup	101	91	98	103
LCSD 500-786988/5	Lab Control Sample Dup	99	99	94	102
MB 500-786542/7	Method Blank	103	99	102	102
MB 500-786988/7	Method Blank	102	107	99	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256719-1	SB87 (0-3)	58	60	62	66	37	67
500-256719-1 - DL	SB87 (0-3)	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
500-256719-2	SB87 (3-5)	65	67	66	72	38	73
500-256719-3	SB88 (0-3)	65	64	66	67	55	75
500-256719-4	SB88 (7.5-10)	64	65	67	67	52	74
500-256719-5	SB89 (0-3)	34	43	42	44	2 S1-	58
500-256719-6	SB89 (3-5)	43	48	50	53	9 S1-	63
500-256719-7	SB90 (0-3)	53	58	60	64	6 S1-	64
500-256719-8	SB90 (7.5-10)	62	65	65	72	32	68
500-256719-9	SB91 (0-3)	55	60	57	64	11 S1-	69
500-256719-10	SB91 (12.5-15)	49	58	54	65	23 S1-	77
500-256719-11	SB92 (0-3)	41	50	47	52	6 S1-	57
500-256719-12	SB92 (3-5)	55	61	59	65	10 S1-	71
LCS 500-787542/2-A	Lab Control Sample	79	76	77	77	67	83
MB 500-787542/1-A	Method Blank	78	77	79	79	65	86

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (33-148)	DCBP2 (33-148)	TCX1 (30-121)	TCX2 (30-121)
500-256719-1	SB87 (0-3)		1722 S1+		105
500-256719-2	SB87 (3-5)		637 S1+		69
500-256719-3	SB88 (0-3)		92		52
500-256719-4	SB88 (7.5-10)	100		66	
500-256719-5	SB89 (0-3)	114		89	
500-256719-6	SB89 (3-5)	79		48	
500-256719-7	SB90 (0-3)		139		296 S1+
500-256719-8	SB90 (7.5-10)		68		222 S1+
500-256719-8 MS	SB90 (7.5-10)		106		298 S1+
500-256719-8 MSD	SB90 (7.5-10)		85		273 S1+
500-256719-9	SB91 (0-3)		123		70
500-256719-10	SB91 (12.5-15)	64		57	
500-256719-11	SB92 (0-3)		216 S1+		89
500-256719-12	SB92 (3-5)		146		108
LCS 500-787438/2-A	Lab Control Sample	87	94	68	77
MB 500-787438/1-A	Method Blank	97	97	74	79

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (49-129)	DCBP2 (37-121)
500-256719-1	SB87 (0-3)	70	104
500-256719-2	SB87 (3-5)	65	110
500-256719-3	SB88 (0-3)	63	98
500-256719-4	SB88 (7.5-10)	50	77
500-256719-5	SB89 (0-3)	61	95
500-256719-6	SB89 (3-5)	46 S1-	97
500-256719-7	SB90 (0-3)	55	109
500-256719-11	SB92 (0-3)	55	82
500-256719-12	SB92 (3-5)	62	98
LCS 500-787438/3-A	Lab Control Sample	64	99
MB 500-787438/1-A	Method Blank	76	85

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-256719-8	SB90 (7.5-10)	68	132 S1+
500-256719-8 MS	SB90 (7.5-10)	71	147 S1+
500-256719-8 MSD	SB90 (7.5-10)	63	130 S1+
500-256719-9	SB91 (0-3)	71	118
500-256719-10	SB91 (12.5-15)	78	121

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256719-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-786542/7
Matrix: Solid
Analysis Batch: 786542

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/18/24 11:17	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/18/24 11:17	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/18/24 11:17	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/18/24 11:17	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/18/24 11:17	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/18/24 11:17	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/18/24 11:17	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/18/24 11:17	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/18/24 11:17	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/18/24 11:17	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/18/24 11:17	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/18/24 11:17	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/18/24 11:17	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/18/24 11:17	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/18/24 11:17	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/18/24 11:17	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/18/24 11:17	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/18/24 11:17	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/18/24 11:17	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/18/24 11:17	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/18/24 11:17	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/18/24 11:17	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/18/24 11:17	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/18/24 11:17	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/18/24 11:17	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/18/24 11:17	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/18/24 11:17	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/18/24 11:17	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/18/24 11:17	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/18/24 11:17	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/18/24 11:17	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/18/24 11:17	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/18/24 11:17	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/18/24 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*09/18/24 11:17*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*		*09/18/24 11:17*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*09/18/24 11:17*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*		*09/18/24 11:17*	*1*

Lab Sample ID: LCS 500-786542/4
Matrix: Solid
Analysis Batch: 786542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0466		mg/Kg		93	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0548		mg/Kg		110	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786542/4
Matrix: Solid
Analysis Batch: 786542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0532		mg/Kg		106	70 - 125
1,1-Dichloroethane	0.0500	0.0483		mg/Kg		97	70 - 125
1,1-Dichloroethene	0.0500	0.0498		mg/Kg		100	70 - 120
1,2-Dichloroethane	0.0500	0.0465		mg/Kg		93	70 - 130
1,2-Dichloropropane	0.0500	0.0516		mg/Kg		103	70 - 125
2-Butanone (MEK)	0.0500	0.0604		mg/Kg		121	47 - 138
2-Hexanone	0.0500	0.0601		mg/Kg		120	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0628		mg/Kg		126	50 - 148
Acetone	0.0500	0.0507		mg/Kg		101	40 - 150
Benzene	0.0500	0.0513		mg/Kg		103	70 - 125
Bromodichloromethane	0.0500	0.0512		mg/Kg		102	67 - 129
Bromoform	0.0500	0.0561		mg/Kg		112	68 - 136
Bromomethane	0.0500	0.0468		mg/Kg		94	70 - 130
Carbon disulfide	0.0500	0.0517		mg/Kg		103	70 - 129
Carbon tetrachloride	0.0500	0.0467		mg/Kg		93	75 - 125
Chlorobenzene	0.0500	0.0513		mg/Kg		103	50 - 150
Chloroethane	0.0500	0.0498		mg/Kg		100	75 - 125
Chloroform	0.0500	0.0476		mg/Kg		95	57 - 135
Chloromethane	0.0500	0.0496		mg/Kg		99	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0514		mg/Kg		103	70 - 125
Dibromochloromethane	0.0500	0.0528		mg/Kg		106	69 - 125
Ethylbenzene	0.0500	0.0522		mg/Kg		104	61 - 136
Methyl tert-butyl ether	0.0500	0.0507		mg/Kg		101	50 - 140
Methylene Chloride	0.0500	0.0445		mg/Kg		89	70 - 126
Styrene	0.0500	0.0556		mg/Kg		111	70 - 125
Tetrachloroethene	0.0500	0.0494		mg/Kg		99	70 - 124
Toluene	0.0500	0.0513		mg/Kg		103	70 - 125
Xylenes, Total	0.100	0.102		mg/Kg		102	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0496		mg/Kg		99	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0533		mg/Kg		107	70 - 125
Trichloroethene	0.0500	0.0478		mg/Kg		96	70 - 125
Vinyl chloride	0.0500	0.0466		mg/Kg		93	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*
Dibromofluoromethane	*97*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 124*

Lab Sample ID: LCSD 500-786542/5
Matrix: Solid
Analysis Batch: 786542

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0412		mg/Kg		82	70 - 128	12	30
1,1,2,2-Tetrachloroethane	0.0500	0.0499		mg/Kg		100	70 - 122	9	30
1,1,2-Trichloroethane	0.0500	0.0465		mg/Kg		93	70 - 125	13	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-786542/5
Matrix: Solid
Analysis Batch: 786542

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0435		mg/Kg		87	70 - 125	11	30
1,1-Dichloroethene			0.0500	0.0429		mg/Kg		86	70 - 120	15	30
1,2-Dichloroethane			0.0500	0.0418		mg/Kg		84	70 - 130	11	30
1,2-Dichloropropane			0.0500	0.0462		mg/Kg		92	70 - 125	11	30
2-Butanone (MEK)			0.0500	0.0533		mg/Kg		107	47 - 138	13	30
2-Hexanone			0.0500	0.0568		mg/Kg		114	48 - 146	6	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0560		mg/Kg		112	50 - 148	12	30
Acetone			0.0500	0.0481		mg/Kg		96	40 - 150	5	30
Benzene			0.0500	0.0456		mg/Kg		91	70 - 125	12	30
Bromodichloromethane			0.0500	0.0455		mg/Kg		91	67 - 129	12	30
Bromoform			0.0500	0.0502		mg/Kg		100	68 - 136	11	30
Bromomethane			0.0500	0.0416		mg/Kg		83	70 - 130	12	30
Carbon disulfide			0.0500	0.0461		mg/Kg		92	70 - 129	12	30
Carbon tetrachloride			0.0500	0.0418		mg/Kg		84	75 - 125	11	30
Chlorobenzene			0.0500	0.0453		mg/Kg		91	50 - 150	12	30
Chloroethane			0.0500	0.0442		mg/Kg		88	75 - 125	12	30
Chloroform			0.0500	0.0428		mg/Kg		86	57 - 135	11	30
Chloromethane			0.0500	0.0474		mg/Kg		95	70 - 125	5	30
cis-1,2-Dichloroethene			0.0500	0.0441		mg/Kg		88	70 - 125	14	30
cis-1,3-Dichloropropene			0.0500	0.0467		mg/Kg		93	70 - 125	10	30
Dibromochloromethane			0.0500	0.0467		mg/Kg		93	69 - 125	12	30
Ethylbenzene			0.0500	0.0469		mg/Kg		94	61 - 136	11	30
Methyl tert-butyl ether			0.0500	0.0464		mg/Kg		93	50 - 140	9	30
Methylene Chloride			0.0500	0.0396		mg/Kg		79	70 - 126	12	30
Styrene			0.0500	0.0490		mg/Kg		98	70 - 125	13	30
Tetrachloroethene			0.0500	0.0436		mg/Kg		87	70 - 124	12	30
Toluene			0.0500	0.0455		mg/Kg		91	70 - 125	12	30
Xylenes, Total			0.100	0.0901		mg/Kg		90	53 - 147	12	30
trans-1,2-Dichloroethene			0.0500	0.0441		mg/Kg		88	70 - 125	12	30
trans-1,3-Dichloropropene			0.0500	0.0460		mg/Kg		92	70 - 125	15	30
Trichloroethene			0.0500	0.0435		mg/Kg		87	70 - 125	9	30
Vinyl chloride			0.0500	0.0437		mg/Kg		87	70 - 125	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*
Dibromofluoromethane	*98*		*75 - 126*
Toluene-d8 (Surr)	*103*		*75 - 124*

Lab Sample ID: MB 500-786988/7
Matrix: Solid
Analysis Batch: 786988

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/20/24 11:32	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/20/24 11:32	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/20/24 11:32	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/20/24 11:32	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-786988/7
Matrix: Solid
Analysis Batch: 786988

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/20/24 11:32	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/20/24 11:32	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/20/24 11:32	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/20/24 11:32	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/20/24 11:32	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/20/24 11:32	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/20/24 11:32	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/20/24 11:32	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/20/24 11:32	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/20/24 11:32	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/20/24 11:32	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/20/24 11:32	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/20/24 11:32	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/20/24 11:32	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/20/24 11:32	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/20/24 11:32	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/20/24 11:32	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/20/24 11:32	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/20/24 11:32	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/20/24 11:32	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/20/24 11:32	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/20/24 11:32	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/20/24 11:32	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/20/24 11:32	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/20/24 11:32	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/20/24 11:32	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/20/24 11:32	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/20/24 11:32	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/20/24 11:32	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/20/24 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*09/20/24 11:32*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*		*09/20/24 11:32*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*09/20/24 11:32*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*		*09/20/24 11:32*	*1*

Lab Sample ID: LCS 500-786988/4
Matrix: Solid
Analysis Batch: 786988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0533		mg/Kg		107	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0401		mg/Kg		80	70 - 122
1,1,2-Trichloroethane	0.0500	0.0439		mg/Kg		88	70 - 125
1,1-Dichloroethane	0.0500	0.0432		mg/Kg		86	70 - 125
1,1-Dichloroethene	0.0500	0.0461		mg/Kg		92	70 - 120
1,2-Dichloroethane	0.0500	0.0471		mg/Kg		94	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786988/4
Matrix: Solid
Analysis Batch: 786988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0449		mg/Kg		90	70 - 125
2-Butanone (MEK)	0.0500	0.0357		mg/Kg		71	47 - 138
2-Hexanone	0.0500	0.0363		mg/Kg		73	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0358		mg/Kg		72	50 - 148
Acetone	0.0500	0.0315		mg/Kg		63	40 - 150
Benzene	0.0500	0.0520		mg/Kg		104	70 - 125
Bromodichloromethane	0.0500	0.0508		mg/Kg		102	67 - 129
Bromoform	0.0500	0.0456		mg/Kg		91	68 - 136
Bromomethane	0.0500	0.0489		mg/Kg		98	70 - 130
Carbon disulfide	0.0500	0.0501		mg/Kg		100	70 - 129
Carbon tetrachloride	0.0500	0.0555		mg/Kg		111	75 - 125
Chlorobenzene	0.0500	0.0474		mg/Kg		95	50 - 150
Chloroethane	0.0500	0.0450		mg/Kg		90	75 - 125
Chloroform	0.0500	0.0481		mg/Kg		96	57 - 135
Chloromethane	0.0500	0.0381		mg/Kg		76	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0419		mg/Kg		84	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0527		mg/Kg		105	70 - 125
Dibromochloromethane	0.0500	0.0462		mg/Kg		92	69 - 125
Ethylbenzene	0.0500	0.0516		mg/Kg		103	61 - 136
Methyl tert-butyl ether	0.0500	0.0485		mg/Kg		97	50 - 140
Methylene Chloride	0.0500	0.0397		mg/Kg		79	70 - 126
Styrene	0.0500	0.0513		mg/Kg		103	70 - 125
Tetrachloroethene	0.0500	0.0539		mg/Kg		108	70 - 124
Toluene	0.0500	0.0498		mg/Kg		100	70 - 125
Xylenes, Total	0.100	0.104		mg/Kg		104	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0451		mg/Kg		90	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0520		mg/Kg		104	70 - 125
Trichloroethene	0.0500	0.0482		mg/Kg		96	70 - 125
Vinyl chloride	0.0500	0.0492		mg/Kg		98	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*
Dibromofluoromethane	*96*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 124*

Lab Sample ID: LCSD 500-786988/5
Matrix: Solid
Analysis Batch: 786988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 128	7	30
1,1,2,2-Tetrachloroethane	0.0500	0.0408		mg/Kg		82	70 - 122	2	30
1,1,2-Trichloroethane	0.0500	0.0415		mg/Kg		83	70 - 125	6	30
1,1-Dichloroethane	0.0500	0.0407		mg/Kg		81	70 - 125	6	30
1,1-Dichloroethene	0.0500	0.0427		mg/Kg		85	70 - 120	8	30
1,2-Dichloroethane	0.0500	0.0449		mg/Kg		90	70 - 130	5	30
1,2-Dichloropropane	0.0500	0.0412		mg/Kg		82	70 - 125	9	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-786988/5
Matrix: Solid
Analysis Batch: 786988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			0.0500	0.0335		mg/Kg		67	47 - 138	6	30
2-Hexanone			0.0500	0.0355		mg/Kg		71	48 - 146	2	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0335		mg/Kg		67	50 - 148	7	30
Acetone			0.0500	0.0293		mg/Kg		59	40 - 150	7	30
Benzene			0.0500	0.0492		mg/Kg		98	70 - 125	5	30
Bromodichloromethane			0.0500	0.0484		mg/Kg		97	67 - 129	5	30
Bromoform			0.0500	0.0417		mg/Kg		83	68 - 136	9	30
Bromomethane			0.0500	0.0465		mg/Kg		93	70 - 130	5	30
Carbon disulfide			0.0500	0.0482		mg/Kg		96	70 - 129	4	30
Carbon tetrachloride			0.0500	0.0510		mg/Kg		102	75 - 125	8	30
Chlorobenzene			0.0500	0.0458		mg/Kg		92	50 - 150	3	30
Chloroethane			0.0500	0.0435		mg/Kg		87	75 - 125	3	30
Chloroform			0.0500	0.0460		mg/Kg		92	57 - 135	5	30
Chloromethane			0.0500	0.0354		mg/Kg		71	70 - 125	7	30
cis-1,2-Dichloroethene			0.0500	0.0414		mg/Kg		83	70 - 125	1	30
cis-1,3-Dichloropropene			0.0500	0.0510		mg/Kg		102	70 - 125	3	30
Dibromochloromethane			0.0500	0.0424		mg/Kg		85	69 - 125	9	30
Ethylbenzene			0.0500	0.0482		mg/Kg		96	61 - 136	7	30
Methyl tert-butyl ether			0.0500	0.0442		mg/Kg		88	50 - 140	9	30
Methylene Chloride			0.0500	0.0373		mg/Kg		75	70 - 126	6	30
Styrene			0.0500	0.0494		mg/Kg		99	70 - 125	4	30
Tetrachloroethene			0.0500	0.0530		mg/Kg		106	70 - 124	2	30
Toluene			0.0500	0.0496		mg/Kg		99	70 - 125	0	30
Xylenes, Total			0.100	0.0997		mg/Kg		100	53 - 147	4	30
trans-1,2-Dichloroethene			0.0500	0.0421		mg/Kg		84	70 - 125	7	30
trans-1,3-Dichloropropene			0.0500	0.0494		mg/Kg		99	70 - 125	5	30
Trichloroethene			0.0500	0.0455		mg/Kg		91	70 - 125	6	30
Vinyl chloride			0.0500	0.0448		mg/Kg		90	70 - 125	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*
Dibromofluoromethane	*94*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 124*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-787542/1-A
Matrix: Solid
Analysis Batch: 787646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787542

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/24/24 15:03	09/25/24 10:47	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-787542/1-A
Matrix: Solid
Analysis Batch: 787646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787542

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/24/24 15:03	09/25/24 10:47	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256719-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-787542/1-A
Matrix: Solid
Analysis Batch: 787646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787542

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/24/24 15:03	09/25/24 10:47	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/24/24 15:03	09/25/24 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*78*		*31 - 166*	*09/24/24 15:03*	*09/25/24 10:47*	*1*
Phenol-d5 (Surr)	*77*		*30 - 153*	*09/24/24 15:03*	*09/25/24 10:47*	*1*
Nitrobenzene-d5 (Surr)	*79*		*37 - 147*	*09/24/24 15:03*	*09/25/24 10:47*	*1*
2-Fluorobiphenyl (Surr)	*79*		*43 - 145*	*09/24/24 15:03*	*09/25/24 10:47*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*31 - 143*	*09/24/24 15:03*	*09/25/24 10:47*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*09/24/24 15:03*	*09/25/24 10:47*	*1*

Lab Sample ID: LCS 500-787542/2-A
Matrix: Solid
Analysis Batch: 787646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787542

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.64		mg/Kg		79	63 - 109
Acenaphthylene	3.33	2.79		mg/Kg		84	61 - 115
Anthracene	3.33	2.93		mg/Kg		88	68 - 120
Benzo[a]anthracene	3.33	2.81		mg/Kg		84	70 - 121
Benzo[a]pyrene	3.33	3.06		mg/Kg		92	73 - 132
Benzo[b]fluoranthene	3.33	2.96		mg/Kg		89	68 - 123
Benzo[g,h,i]perylene	3.33	3.00		mg/Kg		90	65 - 126
Benzo[k]fluoranthene	3.33	3.08		mg/Kg		92	64 - 128
Chrysene	3.33	2.75		mg/Kg		82	70 - 123
Dibenz(a,h)anthracene	3.33	2.91		mg/Kg		87	66 - 125
Fluoranthene	3.33	2.86		mg/Kg		86	66 - 123
Fluorene	3.33	2.64		mg/Kg		79	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.07		mg/Kg		92	66 - 131
Naphthalene	3.33	2.49		mg/Kg		75	54 - 98
Phenanthrene	3.33	2.85		mg/Kg		86	65 - 115
Pyrene	3.33	2.93		mg/Kg		88	71 - 128
1,2,4-Trichlorobenzene	3.33	2.35		mg/Kg		70	49 - 100
1,2-Dichlorobenzene	3.33	2.40		mg/Kg		72	47 - 94
1,3-Dichlorobenzene	3.33	2.30		mg/Kg		69	47 - 92
1,4-Dichlorobenzene	3.33	2.35		mg/Kg		70	46 - 92
2,4,5-Trichlorophenol	3.33	2.54		mg/Kg		76	48 - 121
2,4,6-Trichlorophenol	3.33	2.41		mg/Kg		72	50 - 121
2,4-Dichlorophenol	3.33	2.47		mg/Kg		74	51 - 109
2,4-Dimethylphenol	3.33	2.68		mg/Kg		80	48 - 93
2,4-Dinitrophenol	6.67	2.66		mg/Kg		40	10 - 130
2,4-Dinitrotoluene	3.33	2.81		mg/Kg		84	65 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-787542/2-A
Matrix: Solid
Analysis Batch: 787646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787542

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	3.33	2.80		mg/Kg		84	66 - 117
2-Chloronaphthalene	3.33	2.56		mg/Kg		77	60 - 107
2-Chlorophenol	3.33	2.56		mg/Kg		77	50 - 102
2-Methylnaphthalene	3.33	2.20		mg/Kg		66	58 - 103
2-Methylphenol	3.33	2.46		mg/Kg		74	50 - 104
2-Nitroaniline	3.33	2.92		mg/Kg		87	61 - 126
2-Nitrophenol	3.33	2.46		mg/Kg		74	41 - 114
3,3'-Dichlorobenzidine	3.33	2.69		mg/Kg		81	36 - 131
3 & 4 Methylphenol	3.33	2.49		mg/Kg		75	49 - 109
3-Nitroaniline	3.33	2.74		mg/Kg		82	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.44		mg/Kg		67	36 - 138
4-Bromophenyl phenyl ether	3.33	2.80		mg/Kg		84	57 - 124
4-Chloro-3-methylphenol	3.33	2.66		mg/Kg		80	57 - 113
4-Chloroaniline	3.33	2.38		mg/Kg		71	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.61		mg/Kg		78	60 - 112
4-Nitroaniline	3.33	2.56		mg/Kg		77	60 - 115
4-Nitrophenol	6.67	5.00		mg/Kg		75	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.50		mg/Kg		75	54 - 102
Bis(2-chloroethyl)ether	3.33	2.54		mg/Kg		76	49 - 99
bis(chloroisopropyl) ether	3.33	2.70		mg/Kg		81	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.22		mg/Kg		96	70 - 139
Butyl benzyl phthalate	3.33	3.07		mg/Kg		92	65 - 140
Carbazole	3.33	2.87		mg/Kg		86	68 - 120
Dibenzofuran	3.33	2.60		mg/Kg		78	64 - 112
Diethyl phthalate	3.33	2.70		mg/Kg		81	66 - 115
Dimethyl phthalate	3.33	2.69		mg/Kg		81	65 - 114
Di-n-butyl phthalate	3.33	2.98		mg/Kg		89	69 - 125
Di-n-octyl phthalate	3.33	3.02		mg/Kg		91	61 - 131
Hexachlorobenzene	3.33	2.84		mg/Kg		85	52 - 126
Hexachlorobutadiene	3.33	2.24		mg/Kg		67	42 - 103
Hexachlorocyclopentadiene	3.33	1.10		mg/Kg		33	10 - 100
Hexachloroethane	3.33	2.54		mg/Kg		76	45 - 95
Isophorone	3.33	2.47		mg/Kg		74	47 - 108
Nitrobenzene	3.33	2.65		mg/Kg		80	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.52		mg/Kg		76	48 - 110
N-Nitrosodiphenylamine	3.33	2.86		mg/Kg		86	67 - 112
Pentachlorophenol	6.67	3.22		mg/Kg		48	32 - 128
Phenol	3.33	2.75		mg/Kg		83	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*79*		*31 - 166*
Phenol-d5 (Surr)	*76*		*30 - 153*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*
2-Fluorobiphenyl (Surr)	*77*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*67*		*31 - 143*
Terphenyl-d14 (Surr)	*83*		*42 - 157*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-787438/1-A
Matrix: Solid
Analysis Batch: 788611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/24/24 07:38	10/01/24 18:41	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/24/24 07:38	10/01/24 18:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*33 - 148*	*09/24/24 07:38*	*10/01/24 18:41*	*1*
DCB Decachlorobiphenyl	*97*		*33 - 148*	*09/24/24 07:38*	*10/01/24 18:41*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-787438/1-A
Matrix: Solid
Analysis Batch: 788611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787438

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		30 - 121	09/24/24 07:38	10/01/24 18:41	1
Tetrachloro-m-xylene	79		30 - 121	09/24/24 07:38	10/01/24 18:41	1

Lab Sample ID: LCS 500-787438/2-A
Matrix: Solid
Analysis Batch: 788611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0111		mg/Kg		83	47 - 137
4,4'-DDD	0.0133	0.0117		mg/Kg		88	47 - 137
4,4'-DDE	0.0133	0.0111		mg/Kg		83	50 - 130
4,4'-DDE	0.0133	0.0119		mg/Kg		89	50 - 130
4,4'-DDT	0.0133	0.0122		mg/Kg		92	46 - 143
4,4'-DDT	0.0133	0.0132		mg/Kg		99	46 - 143
Aldrin	0.0133	0.0103		mg/Kg		78	52 - 122
Aldrin	0.0133	0.0125		mg/Kg		94	52 - 122
alpha-BHC	0.0133	0.0106		mg/Kg		79	50 - 123
alpha-BHC	0.0133	0.0112		mg/Kg		84	50 - 123
beta-BHC	0.0133	0.0100		mg/Kg		75	44 - 140
beta-BHC	0.0133	0.0103		mg/Kg		77	44 - 140
delta-BHC	0.0133	0.0106		mg/Kg		80	57 - 125
delta-BHC	0.0133	0.0115		mg/Kg		86	57 - 125
Dieldrin	0.0133	0.0114		mg/Kg		86	51 - 133
Dieldrin	0.0133	0.0126		mg/Kg		94	51 - 133
Endosulfan I	0.0133	0.00939		mg/Kg		70	30 - 120
Endosulfan I	0.0133	0.00964		mg/Kg		72	30 - 120
Endosulfan II	0.0133	0.00933		mg/Kg		70	30 - 120
Endosulfan II	0.0133	0.0110		mg/Kg		82	30 - 120
Endosulfan sulfate	0.0133	0.0122		mg/Kg		92	42 - 150
Endosulfan sulfate	0.0133	0.0114		mg/Kg		86	42 - 150
Endrin	0.0133	0.0106		mg/Kg		79	43 - 144
Endrin	0.0133	0.0113		mg/Kg		85	43 - 144
Endrin aldehyde	0.0133	0.00970		mg/Kg		73	39 - 131
Endrin aldehyde	0.0133	0.0105		mg/Kg		78	39 - 131
Endrin ketone	0.0133	0.0109		mg/Kg		82	51 - 135
Endrin ketone	0.0133	0.0122		mg/Kg		91	51 - 135
gamma-BHC (Lindane)	0.0133	0.0110		mg/Kg		83	50 - 122
gamma-BHC (Lindane)	0.0133	0.0112		mg/Kg		84	50 - 122
Heptachlor	0.0133	0.0103		mg/Kg		77	53 - 129
Heptachlor	0.0133	0.0115		mg/Kg		86	53 - 129
Heptachlor epoxide	0.0133	0.0110		mg/Kg		83	50 - 139
Heptachlor epoxide	0.0133	0.0117		mg/Kg		88	50 - 139
Methoxychlor	0.0133	0.0112		mg/Kg		84	45 - 144
Methoxychlor	0.0133	0.0174		mg/Kg		130	45 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	87		33 - 148
DCB Decachlorobiphenyl	94		33 - 148

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-787438/2-A
Matrix: Solid
Analysis Batch: 788611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787438

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*68*		*30 - 121*
Tetrachloro-m-xylene	*77*		*30 - 121*

Lab Sample ID: 500-256719-8 MS
Matrix: Solid
Analysis Batch: 788611

Client Sample ID: SB90 (7.5-10)
Prep Type: Total/NA
Prep Batch: 787438

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.0095	F1	0.0146	0.0342	F1	mg/Kg	☼	233	47 - 137
4,4'-DDT	<0.0084		0.0146	0.0199		mg/Kg	☼	136	46 - 143
Aldrin	<0.012	F1	0.0146	0.0190	F1	mg/Kg	☼	130	52 - 122
alpha-BHC	<0.010	F1	0.0146	0.0110	J	mg/Kg	☼	75	50 - 123
beta-BHC	<0.014	F2	0.0146	0.0652		mg/Kg	☼	NC	44 - 140
delta-BHC	<0.0085	F1	0.0146	0.0131	J	mg/Kg	☼	89	57 - 125
Dieldrin	<0.0092	F1	0.0146	0.0196	F1	mg/Kg	☼	134	51 - 133
Endosulfan II	<0.0097	F1	0.0146	0.0226	F1	mg/Kg	☼	155	30 - 120
Endosulfan sulfate	<0.0098	F1	0.0146	0.0252	F1	mg/Kg	☼	172	42 - 150
Endrin aldehyde	<0.010	F1	0.0146	0.0358	F1	mg/Kg	☼	244	39 - 131
Endrin ketone	<0.0086	F1	0.0146	0.0208	F1	mg/Kg	☼	142	51 - 135
gamma-BHC (Lindane)	<0.0088	F1 F2	0.0146	0.0279	F1	mg/Kg	☼	191	50 - 122
Heptachlor	<0.0096	F1	0.0146	0.0121	J	mg/Kg	☼	83	53 - 129
Heptachlor epoxide	<0.0095	F1 F2	0.0146	0.0319	F1	mg/Kg	☼	218	50 - 139

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	*106*		*33 - 148*
Tetrachloro-m-xylene	*298*	*S1+*	*30 - 121*

Lab Sample ID: 500-256719-8 MSD
Matrix: Solid
Analysis Batch: 788611

Client Sample ID: SB90 (7.5-10)
Prep Type: Total/NA
Prep Batch: 787438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.0095	F1	0.0146	<0.010	F1	mg/Kg	☼	0	47 - 137	NC	30
4,4'-DDE	<0.0091	F1	0.0146	<0.0095	F1	mg/Kg	☼	0	50 - 130	NC	30
4,4'-DDT	<0.0084		0.0146	0.0200		mg/Kg	☼	137	46 - 143	0	30
Aldrin	<0.012	F1	0.0146	<0.013	F1	mg/Kg	☼	0	52 - 122	NC	30
alpha-BHC	<0.010	F1	0.0146	<0.010	F1	mg/Kg	☼	0	50 - 123	NC	30
beta-BHC	<0.014	F2	0.0146	0.0325	F2	mg/Kg	☼	NC	44 - 140	67	30
delta-BHC	<0.0085	F1	0.0146	<0.0089	F1	mg/Kg	☼	0	57 - 125	NC	30
Dieldrin	<0.0092	F1	0.0146	<0.0097	F1	mg/Kg	☼	0	51 - 133	NC	30
Endosulfan I	<0.0096	F1	0.0146	<0.010	F1	mg/Kg	☼	0	30 - 120	NC	30
Endosulfan II	<0.0097	F1	0.0146	<0.010	F1	mg/Kg	☼	0	30 - 120	NC	30
Endosulfan sulfate	<0.0098	F1	0.0146	<0.010	F1	mg/Kg	☼	0	42 - 150	NC	30
Endrin	<0.0090	F1	0.0146	<0.0095	F1	mg/Kg	☼	0	43 - 144	NC	30
Endrin aldehyde	<0.010	F1	0.0146	<0.011	F1	mg/Kg	☼	0	39 - 131	NC	30
Endrin ketone	<0.0086	F1	0.0146	<0.0090	F1	mg/Kg	☼	0	51 - 135	NC	30
gamma-BHC (Lindane)	<0.0088	F1 F2	0.0146	0.0122	J F2	mg/Kg	☼	84	50 - 122	78	30
Heptachlor	<0.0096	F1	0.0146	<0.010	F1	mg/Kg	☼	0	53 - 129	NC	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-256719-8 MSD
Matrix: Solid
Analysis Batch: 788611

Client Sample ID: SB90 (7.5-10)
Prep Type: Total/NA
Prep Batch: 787438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Heptachlor epoxide	<0.0095	F1 F2	0.0146	0.0127	J F2	mg/Kg	☼	87	50 - 139	86	30
Methoxychlor	<0.012	F1	0.0146	<0.012	F1	mg/Kg	☼	0	45 - 144	NC	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*85*		*33 - 148*
Tetrachloro-m-xylene	*273*	*S1+*	*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-787438/1-A
Matrix: Solid
Analysis Batch: 788793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/24/24 07:38	10/02/24 21:33	1
PCB-1221	<0.017		0.017		mg/Kg		09/24/24 07:38	10/02/24 21:33	1
PCB-1232	<0.017		0.017		mg/Kg		09/24/24 07:38	10/02/24 21:33	1
PCB-1242	<0.017		0.017		mg/Kg		09/24/24 07:38	10/02/24 21:33	1
PCB-1248	<0.017		0.017		mg/Kg		09/24/24 07:38	10/02/24 21:33	1
PCB-1254	<0.017		0.017		mg/Kg		09/24/24 07:38	10/02/24 21:33	1
PCB-1260	<0.017		0.017		mg/Kg		09/24/24 07:38	10/02/24 21:33	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/24/24 07:38	10/02/24 21:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*49 - 129*	*09/24/24 07:38*	*10/02/24 21:33*	*1*
DCB Decachlorobiphenyl	*85*		*37 - 121*	*09/24/24 07:38*	*10/02/24 21:33*	*1*

Lab Sample ID: LCS 500-787438/3-A
Matrix: Solid
Analysis Batch: 788793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.123		mg/Kg		74	57 - 120
PCB-1260	0.167	0.189		mg/Kg		113	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*64*		*49 - 129*
DCB Decachlorobiphenyl	*99*		*37 - 121*

Lab Sample ID: 500-256719-8 MS
Matrix: Solid
Analysis Batch: 788855

Client Sample ID: SB90 (7.5-10)
Prep Type: Total/NA
Prep Batch: 787438

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.18	F1	0.175	0.216	F1	mg/Kg	☼	123	57 - 120
PCB-1260	<0.18	F1	0.175	0.258	F1	mg/Kg	☼	147	61 - 125

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-256719-8 MS
Matrix: Solid
Analysis Batch: 788855

Client Sample ID: SB90 (7.5-10)
Prep Type: Total/NA
Prep Batch: 787438

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*49 - 129*
DCB Decachlorobiphenyl	*147*	*S1+*	*37 - 121*

Lab Sample ID: 500-256719-8 MSD
Matrix: Solid
Analysis Batch: 788855

Client Sample ID: SB90 (7.5-10)
Prep Type: Total/NA
Prep Batch: 787438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.18	F1	0.174	0.198		mg/Kg	☼	114	57 - 120	9	30
PCB-1260	<0.18	F1	0.174	0.217		mg/Kg	☼	125	61 - 125	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*63*		*49 - 129*
DCB Decachlorobiphenyl	*130*	*S1+*	*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-787683/1-A
Matrix: Solid
Analysis Batch: 788293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Antimony	<2.0		2.0		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Arsenic	<1.0		1.0		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Barium	<1.0		1.0		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Beryllium	<0.40		0.40		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Cadmium	<0.20		0.20		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Calcium	<20		20		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Chromium	<1.0		1.0		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Cobalt	<0.50		0.50		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Copper	<1.0		1.0		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Iron	<20		20		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Lead	<0.50		0.50		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Magnesium	<10		10		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Manganese	<1.0		1.0		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Nickel	<1.0		1.0		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Potassium	<50		50		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Selenium	<1.0		1.0		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Silver	<0.50		0.50		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Sodium	<100		100		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Thallium	<1.0		1.0		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Vanadium	<0.50		0.50		mg/Kg		09/25/24 10:02	09/30/24 03:17	1
Zinc	<2.0		2.0		mg/Kg		09/25/24 10:02	09/30/24 03:17	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-787683/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 788293
Prep Batch: 787683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	198		mg/Kg		99	80 - 120
Antimony	50.0	51.4		mg/Kg		103	80 - 120
Arsenic	10.0	9.67		mg/Kg		97	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Beryllium	5.00	5.07		mg/Kg		101	80 - 120
Cadmium	5.00	4.90		mg/Kg		98	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Chromium	20.0	20.2		mg/Kg		101	80 - 120
Cobalt	50.0	51.1		mg/Kg		102	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Iron	100	103		mg/Kg		103	80 - 120
Lead	10.0	10.2		mg/Kg		102	80 - 120
Magnesium	1000	973		mg/Kg		97	80 - 120
Manganese	50.0	49.9		mg/Kg		100	80 - 120
Nickel	50.0	52.0		mg/Kg		104	80 - 120
Potassium	1000	1000		mg/Kg		100	80 - 120
Selenium	10.0	8.86		mg/Kg		89	80 - 120
Silver	5.00	4.61		mg/Kg		92	80 - 120
Sodium	1000	972		mg/Kg		97	80 - 120
Thallium	10.0	9.82		mg/Kg		98	80 - 120
Vanadium	50.0	49.6		mg/Kg		99	80 - 120
Zinc	50.0	51.2		mg/Kg		102	80 - 120

Lab Sample ID: 500-256719-1 MS
Client Sample ID: SB87 (0-3)
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 788293
Prep Batch: 787683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	15000		213	16000	4	mg/Kg	☼	596	75 - 125
Antimony	<2.2	F1	53.3	9.96	F1	mg/Kg	☼	19	75 - 125
Cobalt	8.7		53.3	59.8		mg/Kg	☼	96	75 - 125
Magnesium	17000		1070	21900	4	mg/Kg	☼	485	75 - 125
Potassium	860		1070	1780		mg/Kg	☼	86	75 - 125
Sodium	610		1070	1460		mg/Kg	☼	80	75 - 125
Zinc	1000		53.3	1150	4	mg/Kg	☼	203	75 - 125

Lab Sample ID: 500-256719-1 MS
Client Sample ID: SB87 (0-3)
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 788475
Prep Batch: 787683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	6.8		10.7	17.1		mg/Kg	☼	97	75 - 125
Barium	180		213	399		mg/Kg	☼	102	75 - 125
Beryllium	3.2		5.33	8.50		mg/Kg	☼	100	75 - 125
Cadmium	4.4		5.33	9.58		mg/Kg	☼	98	75 - 125
Calcium	210000		1070	190000	4	mg/Kg	☼	-1855	75 - 125
Chromium	360		21.3	325	4	mg/Kg	☼	-157	75 - 125
Copper	160		26.7	179	4	mg/Kg	☼	75	75 - 125
Iron	87000		107	87000	4	mg/Kg	☼	412	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256719-1 MS
Matrix: Solid
Analysis Batch: 788475

Client Sample ID: SB87 (0-3)
Prep Type: Total/NA
Prep Batch: 787683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	260		10.7	284	4	mg/Kg	☼	202	75 - 125
Manganese	9400		53.3	9520	4	mg/Kg	☼	237	75 - 125
Nickel	56	F1	53.3	113		mg/Kg	☼	107	75 - 125
Selenium	<5.5	F1	10.7	7.81	F1	mg/Kg	☼	73	75 - 125
Silver	<2.7	F1	5.33	2.92	F1	mg/Kg	☼	55	75 - 125
Thallium	48		10.7	56.7	4	mg/Kg	☼	80	75 - 125
Vanadium	77		53.3	122		mg/Kg	☼	85	75 - 125

Lab Sample ID: 500-256719-1 MSD
Matrix: Solid
Analysis Batch: 788293

Client Sample ID: SB87 (0-3)
Prep Type: Total/NA
Prep Batch: 787683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	15000		223	15600	4	mg/Kg	☼	403	75 - 125	2	20
Antimony	<2.2	F1	55.8	11.8	F1	mg/Kg	☼	21	75 - 125	17	20
Cobalt	8.7		55.8	65.1		mg/Kg	☼	101	75 - 125	9	20
Magnesium	17000		1120	22400	4	mg/Kg	☼	515	75 - 125	3	20
Potassium	860		1120	1940		mg/Kg	☼	96	75 - 125	8	20
Sodium	610		1120	1610		mg/Kg	☼	90	75 - 125	9	20
Zinc	1000		55.8	1060	4	mg/Kg	☼	37	75 - 125	8	20

Lab Sample ID: 500-256719-1 MSD
Matrix: Solid
Analysis Batch: 788475

Client Sample ID: SB87 (0-3)
Prep Type: Total/NA
Prep Batch: 787683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	6.8		11.2	16.2		mg/Kg	☼	84	75 - 125	6	20
Barium	180		223	414		mg/Kg	☼	103	75 - 125	3	20
Beryllium	3.2		5.58	9.29		mg/Kg	☼	110	75 - 125	9	20
Cadmium	4.4		5.58	10.0		mg/Kg	☼	101	75 - 125	4	20
Calcium	210000		1120	210000	4	mg/Kg	☼	12	75 - 125	10	20
Chromium	360		22.3	354	4	mg/Kg	☼	-22	75 - 125	8	20
Copper	160		27.9	195	4	mg/Kg	☼	127	75 - 125	8	20
Iron	87000		112	91600	4	mg/Kg	☼	4524	75 - 125	5	20
Lead	260		11.2	278	4	mg/Kg	☼	138	75 - 125	2	20
Manganese	9400		55.8	9430	4	mg/Kg	☼	72	75 - 125	1	20
Nickel	56	F1	55.8	128	F1	mg/Kg	☼	130	75 - 125	13	20
Selenium	<5.5	F1	11.2	8.81		mg/Kg	☼	79	75 - 125	12	20
Silver	<2.7	F1	5.58	3.49	F1	mg/Kg	☼	63	75 - 125	18	20
Thallium	48		11.2	57.2	4	mg/Kg	☼	80	75 - 125	1	20
Vanadium	77		55.8	143		mg/Kg	☼	118	75 - 125	15	20

Lab Sample ID: 500-256719-1 DU
Matrix: Solid
Analysis Batch: 788293

Client Sample ID: SB87 (0-3)
Prep Type: Total/NA
Prep Batch: 787683

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	15000		16600		mg/Kg	☼	12	20
Antimony	<2.2	F1	<2.3		mg/Kg	☼	NC	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256719-1 DU
Matrix: Solid
Analysis Batch: 788293

Client Sample ID: SB87 (0-3)
Prep Type: Total/NA
Prep Batch: 787683

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cobalt	8.7		9.05		mg/Kg	☼	4	20
Magnesium	17000		19500		mg/Kg	☼	16	20
Potassium	860		1090	F3	mg/Kg	☼	24	20
Sodium	610		653		mg/Kg	☼	8	20
Zinc	1000		929		mg/Kg	☼	12	20

Lab Sample ID: 500-256719-1 DU
Matrix: Solid
Analysis Batch: 788475

Client Sample ID: SB87 (0-3)
Prep Type: Total/NA
Prep Batch: 787683

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	6.8		6.73		mg/Kg	☼	0.9	20
Barium	180		219		mg/Kg	☼	18	20
Beryllium	3.2		4.11	F5	mg/Kg	☼	26	20
Cadmium	4.4		4.26		mg/Kg	☼	3	20
Calcium	210000		193000		mg/Kg	☼	8	20
Chromium	360		233	F3	mg/Kg	☼	43	20
Copper	160		144		mg/Kg	☼	10	20
Iron	87000		99500		mg/Kg	☼	14	20
Lead	260		252		mg/Kg	☼	4	20
Manganese	9400		8980		mg/Kg	☼	4	20
Nickel	56	F1	65.2		mg/Kg	☼	15	20
Selenium	<5.5	F1	<5.6		mg/Kg	☼	NC	20
Silver	<2.7	F1	<2.8		mg/Kg	☼	NC	20
Thallium	48		45.9		mg/Kg	☼	5	20
Vanadium	77		76.0		mg/Kg	☼	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-788408/12-A
Matrix: Solid
Analysis Batch: 788533

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/30/24 18:30	10/01/24 06:40	1

Lab Sample ID: LCS 500-788408/13-A
Matrix: Solid
Analysis Batch: 788533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.172		mg/Kg		103	80 - 120

Lab Sample ID: 500-256719-9 MS
Matrix: Solid
Analysis Batch: 788533

Client Sample ID: SB91 (0-3)
Prep Type: Total/NA
Prep Batch: 788408

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.18	F1	0.0828	0.323	F1	mg/Kg	☼	175	75 - 125

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-256719-9 MSD
Matrix: Solid
Analysis Batch: 788533

Client Sample ID: SB91 (0-3)
Prep Type: Total/NA
Prep Batch: 788408

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.18	F1	0.0829	0.270		mg/Kg	☼	111	75 - 125	18	20

Lab Sample ID: 500-256719-9 DU
Matrix: Solid
Analysis Batch: 788533

Client Sample ID: SB91 (0-3)
Prep Type: Total/NA
Prep Batch: 788408

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.18	F1	0.111	F3	mg/Kg	☼	46	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-787284/1-A
Matrix: Solid
Analysis Batch: 787412

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/23/24 11:09	09/23/24 15:57	1

Lab Sample ID: LCS 500-787284/2-A
Matrix: Solid
Analysis Batch: 787412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.46		mg/Kg		103	85 - 115

Lab Sample ID: 500-256719-11 MS
Matrix: Solid
Analysis Batch: 787412

Client Sample ID: SB92 (0-3)
Prep Type: Total/NA
Prep Batch: 787284

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	6.0	F1	2.30	8.05		mg/Kg	☼	90	75 - 125

Lab Sample ID: 500-256719-11 MSD
Matrix: Solid
Analysis Batch: 787412

Client Sample ID: SB92 (0-3)
Prep Type: Total/NA
Prep Batch: 787284

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	6.0	F1	2.56	9.63	F1	mg/Kg	☼	143	75 - 125	18	20

Lab Sample ID: MB 500-787524/1-A
Matrix: Solid
Analysis Batch: 787731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/24/24 14:55	09/25/24 11:35	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: MB 500-787524/1-A
Matrix: Solid
Analysis Batch: 787889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/24/24 14:55	09/26/24 09:43	1

Lab Sample ID: LCS 500-787524/2-A
Matrix: Solid
Analysis Batch: 787731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.21		mg/Kg		92	85 - 115

Lab Sample ID: LCS 500-787524/2-A
Matrix: Solid
Analysis Batch: 787889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.45		mg/Kg		102	85 - 115

Lab Sample ID: 500-256719-3 MS
Matrix: Solid
Analysis Batch: 787731

Client Sample ID: SB88 (0-3)
Prep Type: Total/NA
Prep Batch: 787524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.25		2.42	2.05		mg/Kg	☼	85	75 - 125

Lab Sample ID: 500-256719-3 MSD
Matrix: Solid
Analysis Batch: 787731

Client Sample ID: SB88 (0-3)
Prep Type: Total/NA
Prep Batch: 787524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.25		2.31	1.90		mg/Kg	☼				

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-627726/1-A
Matrix: Solid
Analysis Batch: 627735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 627726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/19/24 15:21	09/19/24 16:10	1

Lab Sample ID: LCS 240-627726/2-A
Matrix: Solid
Analysis Batch: 627735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	72.0	60.0		mg/Kg		83	56 - 120

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Method: 9045D - pH

Lab Sample ID: 500-256719-10 DU
Client Sample ID: SB91 (12.5-15)
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 787013

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	10.69			10.69		SU				0	5

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256719-1

Client Sample ID: SB87 (0-3)
Date Collected: 09/12/24 08:01
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787013	SO	EET CHI	09/19/24 18:14
Total/NA	Analysis	Moisture		1	787099	DG	EET CHI	09/20/24 14:23

Client Sample ID: SB87 (0-3)
Date Collected: 09/12/24 08:01
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-1
Matrix: Solid
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786061		EET CHI	09/13/24 19:48
Total/NA	Analysis	8260D		1	786542	W1T	EET CHI	09/18/24 11:42
Total/NA	Prep	3546	DL		787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E	DL	50	787846	WS	EET CHI	09/26/24 13:49
Total/NA	Prep	3546			787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E		2	787646	H7CM	EET CHI	09/25/24 11:35
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788611	H7CM	EET CHI	10/01/24 20:49
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	788793	H7CM	EET CHI	10/02/24 22:04
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		1	788293	SJ	EET CHI	09/30/24 03:26
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		5	788475	SJ	EET CHI	10/01/24 02:04
Total/NA	Prep	7471B			788408	MJG	EET CHI	09/30/24 18:30
Total/NA	Analysis	7471B		1	788533	MJG	EET CHI	10/01/24 06:44
Total/NA	Prep	9010C			787524	AC	EET CHI	09/24/24 14:55 - 09/24/24 15:25 [1]
Total/NA	Analysis	9012B		1	787731	AC	EET CHI	09/25/24 12:02

Client Sample ID: SB87 (3-5)
Date Collected: 09/12/24 08:06
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787013	SO	EET CHI	09/19/24 18:16
Total/NA	Analysis	Moisture		1	787099	DG	EET CHI	09/20/24 14:23

Client Sample ID: SB87 (3-5)
Date Collected: 09/12/24 08:06
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-2
Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786061		EET CHI	09/13/24 19:48
Total/NA	Analysis	8260D		1	786542	W1T	EET CHI	09/18/24 12:07
Total/NA	Prep	3546			787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E		1	787646	H7CM	EET CHI	09/25/24 12:00

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256719-1

Client Sample ID: SB87 (3-5)

Date Collected: 09/12/24 08:06
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-2

Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788611	H7CM	EET CHI	10/01/24 21:01
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	788793	H7CM	EET CHI	10/02/24 22:19
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		1	788293	SJ	EET CHI	09/30/24 03:50
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		5	788475	SJ	EET CHI	10/01/24 02:36
Total/NA	Prep	7471B			788408	MJG	EET CHI	09/30/24 18:30
Total/NA	Analysis	7471B		1	788533	MJG	EET CHI	10/01/24 06:46
Total/NA	Prep	9010C			787524	AC	EET CHI	09/24/24 14:55 - 09/24/24 15:25 [1]
Total/NA	Analysis	9012B		5	787889	AC	EET CHI	09/26/24 10:19

Client Sample ID: SB88 (0-3)

Date Collected: 09/12/24 08:47
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786903	SO	EET CHI	09/19/24 14:44 - 09/19/24 14:52 [1]
Total/NA	Analysis	Moisture		1	787099	DG	EET CHI	09/20/24 14:23

Client Sample ID: SB88 (0-3)

Date Collected: 09/12/24 08:47
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-3

Matrix: Solid
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786061		EET CHI	09/13/24 19:48
Total/NA	Analysis	8260D		1	786542	W1T	EET CHI	09/18/24 12:33
Total/NA	Prep	3546			787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E		1	787646	H7CM	EET CHI	09/25/24 12:24
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788611	H7CM	EET CHI	10/01/24 21:13
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	788793	H7CM	EET CHI	10/02/24 22:34
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		1	788293	SJ	EET CHI	09/30/24 03:55
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		5	788475	SJ	EET CHI	10/01/24 02:40
Total/NA	Prep	7471B			788408	MJG	EET CHI	09/30/24 18:30
Total/NA	Analysis	7471B		1	788533	MJG	EET CHI	10/01/24 06:48
Total/NA	Prep	9010C			787524	AC	EET CHI	09/24/24 14:55 - 09/24/24 15:25 [1]
Total/NA	Analysis	9012B		1	787731	AC	EET CHI	09/25/24 12:05

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256719-1

Client Sample ID: SB88 (7.5-10)
Date Collected: 09/12/24 09:06
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	786903	SO	EET CHI	09/19/24 14:52 - 09/19/24 15:01 [1]
Total/NA	Analysis	Moisture		1	787099	DG	EET CHI	09/20/24 14:23

Client Sample ID: SB88 (7.5-10)
Date Collected: 09/12/24 09:06
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-4
Matrix: Solid
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786061		EET CHI	09/13/24 19:48
Total/NA	Analysis	8260D		1	786542	W1T	EET CHI	09/18/24 12:58
Total/NA	Prep	3546			787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E		1	787646	H7CM	EET CHI	09/25/24 12:48
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788611	H7CM	EET CHI	10/01/24 21:24
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	788793	H7CM	EET CHI	10/02/24 22:50
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		1	788293	SJ	EET CHI	09/30/24 03:59
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		5	788475	SJ	EET CHI	10/01/24 02:45
Total/NA	Prep	7471B			788408	MJG	EET CHI	09/30/24 18:30
Total/NA	Analysis	7471B		1	788533	MJG	EET CHI	10/01/24 06:50
Total/NA	Prep	9010C			787524	AC	EET CHI	09/24/24 14:55 - 09/24/24 15:25 [1]
Total/NA	Analysis	9012B		1	787731	AC	EET CHI	09/25/24 12:10
Total/NA	Prep	9030B			627726	C5SV	EET CLE	09/19/24 15:21
Total/NA	Analysis	9034		1	627735	C5SV	EET CLE	09/19/24 16:10

Client Sample ID: SB89 (0-3)
Date Collected: 09/12/24 09:45
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787013	SO	EET CHI	09/19/24 18:19
Total/NA	Analysis	Moisture		1	787099	DG	EET CHI	09/20/24 14:23

Client Sample ID: SB89 (0-3)
Date Collected: 09/12/24 09:45
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-5
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786061		EET CHI	09/13/24 19:48
Total/NA	Analysis	8260D		1	786542	W1T	EET CHI	09/18/24 13:23
Total/NA	Prep	3546			787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E		1	787646	H7CM	EET CHI	09/25/24 13:12

Client Sample ID: SB89 (0-3)

Lab Sample ID: 500-256719-5

Date Collected: 09/12/24 09:45

Matrix: Solid

Date Received: 09/13/24 12:00

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788611	H7CM	EET CHI	10/01/24 21:36
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	788793	H7CM	EET CHI	10/02/24 23:05
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		20	788598	SJ	EET CHI	10/01/24 13:19
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		1	788293	SJ	EET CHI	09/30/24 04:13
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		5	788475	SJ	EET CHI	10/01/24 02:50
Total/NA	Prep	7471B			788408	MJG	EET CHI	09/30/24 18:30
Total/NA	Analysis	7471B		1	788533	MJG	EET CHI	10/01/24 06:51
Total/NA	Prep	9010C			787524	AC	EET CHI	09/24/24 14:55 - 09/24/24 15:25 [1]
Total/NA	Analysis	9012B		1	787731	AC	EET CHI	09/25/24 12:12

Client Sample ID: SB89 (3-5)

Lab Sample ID: 500-256719-6

Date Collected: 09/12/24 09:51

Matrix: Solid

Date Received: 09/13/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787013	SO	EET CHI	09/19/24 18:21
Total/NA	Analysis	Moisture		1	787111	DG	EET CHI	09/20/24 15:19

Client Sample ID: SB89 (3-5)

Lab Sample ID: 500-256719-6

Date Collected: 09/12/24 09:51

Matrix: Solid

Date Received: 09/13/24 12:00

Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786061		EET CHI	09/13/24 19:48
Total/NA	Analysis	8260D		1	786542	W1T	EET CHI	09/18/24 13:48
Total/NA	Prep	3546			787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E		1	787646	H7CM	EET CHI	09/25/24 13:37
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788611	H7CM	EET CHI	10/01/24 21:47
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	788793	H7CM	EET CHI	10/02/24 23:21
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		20	788598	SJ	EET CHI	10/01/24 13:24
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		1	788293	SJ	EET CHI	09/30/24 04:18
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		5	788475	SJ	EET CHI	10/01/24 02:54
Total/NA	Prep	7471B			788408	MJG	EET CHI	09/30/24 18:30
Total/NA	Analysis	7471B		1	788533	MJG	EET CHI	10/01/24 06:53

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256719-1

Client Sample ID: SB89 (3-5)
Date Collected: 09/12/24 09:51
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-6
Matrix: Solid
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			787524	AC	EET CHI	09/24/24 14:55 - 09/24/24 15:25 [1]
Total/NA	Analysis	9012B		1	787731	AC	EET CHI	09/25/24 12:14

Client Sample ID: SB90 (0-3)
Date Collected: 09/12/24 10:47
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787013	SO	EET CHI	09/19/24 18:24
Total/NA	Analysis	Moisture		1	787363	ER	EET CHI	09/23/24 16:20

Client Sample ID: SB90 (0-3)
Date Collected: 09/12/24 10:47
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-7
Matrix: Solid
Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786061		EET CHI	09/13/24 19:48
Total/NA	Analysis	8260D		1	786988	W1T	EET CHI	09/20/24 19:15
Total/NA	Prep	3546			787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E		1	787646	H7CM	EET CHI	09/25/24 14:01
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788611	H7CM	EET CHI	10/01/24 21:59
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	788793	H7CM	EET CHI	10/02/24 23:36
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		20	788598	SJ	EET CHI	10/01/24 13:28
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		1	788293	SJ	EET CHI	09/30/24 04:22
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		5	788475	SJ	EET CHI	10/01/24 02:59
Total/NA	Prep	7471B			788408	MJG	EET CHI	09/30/24 18:30
Total/NA	Analysis	7471B		1	788533	MJG	EET CHI	10/01/24 06:55
Total/NA	Prep	9010C			787524	AC	EET CHI	09/24/24 14:55 - 09/24/24 15:25 [1]
Total/NA	Analysis	9012B		1	787889	AC	EET CHI	09/26/24 09:40

Client Sample ID: SB90 (7.5-10)
Date Collected: 09/12/24 11:11
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787013	SO	EET CHI	09/19/24 18:26
Total/NA	Analysis	Moisture		1	787363	ER	EET CHI	09/23/24 16:20

Client Sample ID: SB90 (7.5-10)
Lab Sample ID: 500-256719-8
Date Collected: 09/12/24 11:11
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786061		EET CHI	09/13/24 19:48
Total/NA	Analysis	8260D		1	786542	W1T	EET CHI	09/18/24 14:38
Total/NA	Prep	3546			787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E		1	787646	H7CM	EET CHI	09/25/24 14:25
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788611	H7CM	EET CHI	10/01/24 22:11
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	788855	H7CM	EET CHI	10/03/24 10:30
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		20	788598	SJ	EET CHI	10/01/24 13:32
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		1	788293	SJ	EET CHI	09/30/24 04:27
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		5	788475	SJ	EET CHI	10/01/24 03:04
Total/NA	Prep	7471B			788408	MJG	EET CHI	09/30/24 18:30
Total/NA	Analysis	7471B		1	788533	MJG	EET CHI	10/01/24 07:01
Total/NA	Prep	9010C			787524	AC	EET CHI	09/24/24 14:55 - 09/24/24 15:25 [1]
Total/NA	Analysis	9012B		1	787889	AC	EET CHI	09/26/24 09:41

Client Sample ID: SB91 (0-3)
Lab Sample ID: 500-256719-9
Date Collected: 09/12/24 12:30
Matrix: Solid
Date Received: 09/13/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787013	SO	EET CHI	09/19/24 18:28
Total/NA	Analysis	Moisture		1	787363	ER	EET CHI	09/23/24 16:20

Client Sample ID: SB91 (0-3)
Lab Sample ID: 500-256719-9
Date Collected: 09/12/24 12:30
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786061		EET CHI	09/13/24 19:48
Total/NA	Analysis	8260D		1	786542	W1T	EET CHI	09/18/24 15:04
Total/NA	Prep	3546			787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E		1	787646	H7CM	EET CHI	09/25/24 14:49
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788611	H7CM	EET CHI	10/01/24 22:46
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	788855	H7CM	EET CHI	10/03/24 11:14
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		20	788598	SJ	EET CHI	10/01/24 13:36
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		1	788293	SJ	EET CHI	09/30/24 04:32

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256719-1

Client Sample ID: SB91 (0-3)
Date Collected: 09/12/24 12:30
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-9
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		5	788475	SJ	EET CHI	10/01/24 03:08
Total/NA	Prep	7471B			788408	MJG	EET CHI	09/30/24 18:30
Total/NA	Analysis	7471B		1	788533	MJG	EET CHI	10/01/24 07:02
Total/NA	Prep	9010C			787284	AC	EET CHI	09/23/24 11:09 - 09/23/24 11:39 [1]
Total/NA	Analysis	9012B		1	787412	AC	EET CHI	09/23/24 17:13

Client Sample ID: SB91 (12.5-15)
Date Collected: 09/12/24 12:57
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787013	SO	EET CHI	09/19/24 18:40
Total/NA	Analysis	Moisture		1	787363	ER	EET CHI	09/23/24 16:20

Client Sample ID: SB91 (12.5-15)
Date Collected: 09/12/24 12:57
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-10
Matrix: Solid
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786061		EET CHI	09/13/24 19:48
Total/NA	Analysis	8260D		1	786542	W1T	EET CHI	09/18/24 15:29
Total/NA	Prep	3546			787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E		1	787646	H7CM	EET CHI	09/25/24 15:14
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788611	H7CM	EET CHI	10/01/24 22:57
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	788855	H7CM	EET CHI	10/03/24 11:29
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		20	788598	SJ	EET CHI	10/01/24 13:41
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		1	788293	SJ	EET CHI	09/30/24 04:36
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		5	788475	SJ	EET CHI	10/01/24 03:13
Total/NA	Prep	7471B			788408	MJG	EET CHI	09/30/24 18:30
Total/NA	Analysis	7471B		1	788533	MJG	EET CHI	10/01/24 07:11
Total/NA	Prep	9010C			787284	AC	EET CHI	09/23/24 11:09 - 09/23/24 11:39 [1]
Total/NA	Analysis	9012B		5	787412	AC	EET CHI	09/23/24 16:18

Client Sample ID: SB92 (0-3)
Date Collected: 09/12/24 13:44
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787013	SO	EET CHI	09/19/24 18:31

Client Sample ID: SB92 (0-3)
Lab Sample ID: 500-256719-11
Date Collected: 09/12/24 13:44
Matrix: Solid
Date Received: 09/13/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	787363	ER	EET CHI	09/23/24 16:20

Client Sample ID: SB92 (0-3)
Lab Sample ID: 500-256719-11
Date Collected: 09/12/24 13:44
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786061		EET CHI	09/13/24 19:48
Total/NA	Analysis	8260D		1	786542	W1T	EET CHI	09/18/24 15:54
Total/NA	Prep	3546			787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E		1	787646	H7CM	EET CHI	09/25/24 15:38
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788611	H7CM	EET CHI	10/01/24 23:09
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	788793	H7CM	EET CHI	10/03/24 01:08
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		20	788598	SJ	EET CHI	10/01/24 13:45
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		1	788293	SJ	EET CHI	09/30/24 04:41
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		5	788475	SJ	EET CHI	10/01/24 03:18
Total/NA	Prep	7471B			788408	MJG	EET CHI	09/30/24 18:30
Total/NA	Analysis	7471B		1	788533	MJG	EET CHI	10/01/24 07:13
Total/NA	Prep	9010C			787284	AC	EET CHI	09/23/24 11:09 - 09/23/24 11:39 [1]
Total/NA	Analysis	9012B		5	787412	AC	EET CHI	09/23/24 16:22
Total/NA	Prep	9030B			627726	C5SV	EET CLE	09/19/24 15:21
Total/NA	Analysis	9034		1	627735	C5SV	EET CLE	09/19/24 16:10

Client Sample ID: SB92 (3-5)
Lab Sample ID: 500-256719-12
Date Collected: 09/12/24 13:52
Matrix: Solid
Date Received: 09/13/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787013	SO	EET CHI	09/19/24 18:33
Total/NA	Analysis	Moisture		1	787363	ER	EET CHI	09/23/24 16:20

Client Sample ID: SB92 (3-5)
Lab Sample ID: 500-256719-12
Date Collected: 09/12/24 13:52
Matrix: Solid
Date Received: 09/13/24 12:00
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786061		EET CHI	09/13/24 19:48
Total/NA	Analysis	8260D		1	786542	W1T	EET CHI	09/18/24 16:19
Total/NA	Prep	3546			787542	LH	EET CHI	09/24/24 15:03
Total/NA	Analysis	8270E		1	787646	H7CM	EET CHI	09/25/24 16:02

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB92 (3-5)
Date Collected: 09/12/24 13:52
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-12
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8081B		10	788611	H7CM	EET CHI	10/01/24 23:20
Total/NA	Prep	3541			787438	FRG	EET CHI	09/24/24 07:38 - 09/24/24 12:00 [1]
Total/NA	Analysis	8082A		10	788793	H7CM	EET CHI	10/03/24 01:24
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		20	788598	SJ	EET CHI	10/01/24 13:58
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		1	788293	SJ	EET CHI	09/30/24 04:46
Total/NA	Prep	3050B			787683	BDE	EET CHI	09/25/24 10:02 - 09/25/24 16:02 [1]
Total/NA	Analysis	6010D		5	788475	SJ	EET CHI	10/01/24 03:31
Total/NA	Prep	7471B			788408	MJG	EET CHI	09/30/24 18:30
Total/NA	Analysis	7471B		1	788533	MJG	EET CHI	10/01/24 07:15
Total/NA	Prep	9010C			787284	AC	EET CHI	09/23/24 11:09 - 09/23/24 11:39 [1]
Total/NA	Analysis	9012B		1	787412	AC	EET CHI	09/23/24 16:33

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	10-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record 720438

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hamrock	Site Contact	Date	COC No
Company Name: PIONEER	Tel/Email: JHARBOUGH@PIONEER	Lab Contact:	Carrier:	1 of 1 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only.
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name: 8080 S Lake Shore Dr	☐ 1 week			
Site	☐ 2 days			Job / SDG No
P O #	☐ 1 day			500-256719

500-256719 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCE	PH	Sample Specific Notes
1	SB87 (0-3)	9/12/24	801	G	SO	4			X	X	
2	SB87 (3-5)	↓	806	↓	↓	↓			↓	↓	
3	SB88 (0-3)	↓	847	↓	↓	↓			↓	↓	
4	SB88 (7.5-10)	↓	906	↓	↓	↓			↓	↓	
5	SB89 (0-3)	↓	945	↓	↓	↓			↓	↓	
6	SB89 (3-5)	↓	951	↓	↓	↓			↓	↓	
7	SB90 (0-3)	↓	1047	↓	↓	↓			↓	↓	
8	SB90 (7.5-10)	↓	1111	↓	↓	↓			↓	↓	
9	SB91 (0-3)	↓	1230	↓	↓	↓			↓	↓	
10	SB91 (12.5-15)	↓	1257	↓	↓	↓			↓	↓	
11	SB92 (0-3)	↓	144	↓	↓	↓			↓	↓	
12	SB92 (3-5)	↓	152	↓	↓	↓			↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

3.1 → 2.8 48QT

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	9/13/24	[signature]	EETA	9/13/24 0930
[signature]	EETA 9/13/24	1200			
			Received in Laboratory by: Stephanie Hernandez	EETA	9/13/24 1200

3/11/2025 (Rev. 2)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192618.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256719-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 9/26/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

E190

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB88 (7 5-10) (500-256719-4)	9/12/24	09:06 Central	G	Solid			X	1	
SB92 (0-3) (500-256719-11)	9/12/24	13:44 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/16/24 0915		KATHARINE MARTIN	9/17/24 930	EUL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins Site Name

Cooler Received on 9/17/24 Opened on 9/17/24

Cooler unpacked by: KM

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used. (Bubble Wrap) Foam Plastic Bag None Other

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 22 (CF -0.1 °C) Observed Cooler Temp. 4.5 °C Corrected Cooler Temp 4.4 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2	(Yes) No	
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No	NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	
-Were tamper/custody seals intact and uncompromised?	(Yes) No	NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes) No	
4 Did custody papers accompany the sample(s)?	(Yes) No	
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No	
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12. Are these work share samples and all listed on the COC?	(Yes) No	
If yes, Questions 13-17 have been checked at the originating laboratory		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes No	NA pH Strip Lot# HC442471
14. Were VOAs on the COC?	Yes No	
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this	Yes No	NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No	
17 Was a LL Hg or Me Hg trip blank present?	Yes No	

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved. Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE: 18SEP25
ACTWGT: 30.00 LB MAN
CAD: 0675858/CAFE3854

BILL SENDER

TO SAMPLE RECEIVING
EUROFINS - CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396
REF: 256504 578 - 578 586 609 687 688 719 746

FedEx Express

1 of 2
MPS# 7051 7620 9115
MASTER ##

TUE - 17 SEP 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH - US CLE

eurofins | Environment Testing

Temperature Controlled

IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)

TAL-0050(1016)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193736.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256719-2
Address: 180 S. Van Buren Avenue	Due Date Requested: 10/17/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M (MOD) a) 1 element, Including prep	6020B/1311T_M (MOD) TCLP RCRA Metals	7470A/1311T_Hg TCLP Mercury	6020B/1311T_M TCLP RCRA Metals	Total Number of containers
			Preservation Code:								
SB89 (0-3) (500-256719-5)	9/12/24	09:45 Central	G	Solid			X				1
SB89 (3-5) (500-256719-6)	9/12/24	09:51 Central	G	Solid			X				1
SB90 (0-3) (500-256719-7)	9/12/24	10:47 Central	G	Solid				X	X		1
SB91 (0-3) (500-256719-9)	9/12/24	12:30 Central	G	Solid					X	X	1

Preservation Codes:
Other:
EOS4
Special Instructions/Note:

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hernandez	10/11/24 1600		KATHARINE MARTIN	10/21/24 920	EUE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler unpacked by: ICM

Cooler Received on 10/12/24 Opened on 10/12/24

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt (X) See Multiple Cooler Form

IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved. Preservative(s) added/Lot number(s).

VOA Sample Preservation - Date/Time VOAs Frozen.

Login # : _____

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: _____	2.9	3.0	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

Temperature Controlled
IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)
TAL-0090(1016)
ORIGIN ID:JOTA (708) 534-5700
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES, US
SHIP DATE: 11OCT24
ACTWGT: 67.00 LB MAN
CAD: 0675858/CAFE3854
BILL SENDER
TO SAMPLE RECEIVING
EUROFINS - CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203
(380) 497-9806
REF: 256339 423 508 578 719 930 SH
FedEx Express
3 of 4
MPS# 7051 7621 1608
0263
Mstr# 7051 7621 1182
0201
XO CAKA
SATURDAY 12:00P
PRIORITY OVERNIGHT
44203
OH-US
CLE
Environment Testing
America
2546494

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193736.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256719-2
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/17/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M (MOD) a) 1 element, including prep	6020B/1311T_M (MOD) TCLP RCRA Metals	7470A/1311T_Hg TCLP Mercury	6020B/1311T_M TCLP RCRA Metals	Total Number of containers	Special Instructions/Note: EOS4
			Preservation Code:									
SB89 (0-3) (500-256719-5)	9/12/24	09:45 Central	G	Solid			X				1	
SB89 (3-5) (500-256719-6)	9/12/24	09:51 Central	G	Solid			X				1	
SB90 (0-3) (500-256719-7)	9/12/24	10:47 Central	G	Solid				X	X		1	
SB91 (0-3) (500-256719-9)	9/12/24	12:30 Central	G	Solid					X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested. I II, III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Stephanie Hemandy	Date/Time: 10/11/24 1600	Company	Received by: KATHARINE MÄRTJN	Date/Time: ~~10/21/24~~ 10/12/24 KM 920	Company: EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:		

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - Chicago Site Name _____ Cooler unpacked by: ICM

Cooler Received on 10/12/24 Opened on 10/12/24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt [X] See Multiple Cooler Form

IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. *Did custody papers accompany the sample(s)?*	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14 *Were VOAs on the COC?*	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	No
17 Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

_____

_____

_____

_____

19 SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen _____

Login # : _____

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: _____	2.9	3.0	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

Temperature Controlled
IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)
TAL-0090(1016)
ORIGIN ID: JOTA (708) 534-5700
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES, US
TO SAMPLE RECEIVING
EUROFINS - CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203
(380) 497-8395
REF: 256339 423 508 578 719 930 SH
SHIP DATE: 11OCT24
ACTWGT: 87.00 LB MAN
CAD: 0675858/CAFE3854
BILL SENDER
FedEx Express
3 of 4
MPS# 7051 7621 1608
Mstr# 7051 7621 1182
0263
0201
XO CAKA
SATURDAY 12:00P
PRIORITY OVERNIGHT
44203
OH-US
CLE
Environment Testing
America
2546494

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256719-1

Login Number: 256719
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 10:46:13 AM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256860-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 10:46:13 AM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256860-1 — Eurofins Chicago

Job Narrative
500-256860-1

Revision
The report being provided is a revision of the original report sent on 10/10/2024. The report (revision 2) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 12/11/2024 - Reason - The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/17/2024 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

GC/MS VOA
Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: SB94 (12.5-15) (500-256860-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Surrogate recovery for the following sample was outside control limits: SB96 (7.5-10) (500-256860-8). Evidence of matrix interference is present (high sample pH); therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The laboratory control sample (LCS) for preparation batch 500-786743 and analytical batch 500-786956 recovered outside control limits for the following analytes: methyl acetate and 1,1,2,2-Tetrachloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Internal standard /surrogate responses were outside of acceptance limits for the following sample: SB93 (5-7.5) (500-256860-2). The sample(s) shows evidence of matrix interference, as sample was analyzed multiple times with concurring failures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-787842 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-787842 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB93 (0-3) (500-256860-1), SB93 (5-7.5) (500-256860-2), SB94 (0-3) (500-256860-3), SB96 (0-3) (500-256860-7) and SB97 (5-7.5) (500-256860-10). Elevated reporting limits (RLs) are provided.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB94 (0-3) (500-256860-3), SB94 (12.5-15) (500-256860-4), SB95 (0-3) (500-256860-5), SB95 (5-7.5) (500-256860-6), SB96 (0-3) (500-256860-7) and SB97 (5-7.5) (500-256860-10). These results have been reported and qualified.

Method 8270E: Surrogate 2-Fluorophenol (Surr) and 2,4,6-Tribromophenol (Surr) recovery for the following sample was outside control limits: SB96 (7.5-10) (500-256860-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-788258 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Job ID: 500-256860-1 (Continued) Eurofins Chicago

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB97 (0-3) (500-256860-9). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB93 (0-3) (500-256860-1). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: SB93 (5-7.5) (500-256860-2). Elevated reporting limits (RLs) are provided.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB94 (0-3) (500-256860-3), SB94 (12.5-15) (500-256860-4), SB96 (0-3) (500-256860-7), SB96 (7.5-10) (500-256860-8), SB97 (0-3) (500-256860-9) and SB97 (5-7.5) (500-256860-10). Elevated reporting limits (RLs) are provided.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB94 (12.5-15) (500-256860-4). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Surrogate DCB Decachlorobiphenyl and Tetrachloro-m-xylene recovery for the following Continuing Calibration Verification (CCVIS) was outside control limits: (CCVIS 500-788855/3). The recoveries of the target analytes were within the control limit; therefore, re-analysis was not performed.

Method 8082A: The following samples required a dilution due to the nature of the sample matrix: SB95 (0-3) (500-256860-5) and SB95 (5-7.5) (500-256860-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1232 for the following sample: SB95 (5-7.5) (500-256860-6). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB93 (0-3) (500-256860-1), SB94 (0-3) (500-256860-3), SB95 (0-3) (500-256860-5), SB95 (5-7.5) (500-256860-6), SB96 (0-3) (500-256860-7), SB97 (0-3) (500-256860-9) and SB97 (5-7.5) (500-256860-10). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB93 (0-3) (500-256860-1), SB93 (5-7.5) (500-256860-2), SB94 (0-3) (500-256860-3), SB94 (12.5-15) (500-256860-4), SB95 (0-3) (500-256860-5), SB95 (5-7.5) (500-256860-6), SB96 (0-3) (500-256860-7), SB96 (7.5-10) (500-256860-8), SB97 (0-3) (500-256860-9) and SB97 (5-7.5) (500-256860-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010D: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB93 (0-3) (500-256860-1), SB93 (5-7.5) (500-256860-2), SB94 (0-3) (500-256860-3), SB94 (12.5-15) (500-256860-4), SB95 (0-3) (500-256860-5), SB95 (5-7.5) (500-256860-6), SB96 (0-3) (500-256860-7), SB96 (7.5-10) (500-256860-8), SB97 (0-3) (500-256860-9) and SB97 (5-7.5) (500-256860-10). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-787881 and analytical batch 500-787952 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-787924 and analytical batch 500-788122 were outside control limits for Cyanide, Total. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SB93 (0-3) — Lab Sample ID: 500-256860-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014	J	0.023	0.0098	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0064		0.0059	0.0011	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0012	J	0.0023	0.00047	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0012	J	0.0047	0.00080	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	2.0		0.10	0.021	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.10		0.10	0.017	mg/Kg	2	☼	8270E	Total/NA
Anthracene	1.4		0.10	0.021	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	2.2		0.10	0.021	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	1.3		0.10	0.097	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	2.6		0.10	0.096	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.98		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.0		0.10	0.038	mg/Kg	2	☼	8270E	Total/NA
Chrysene	2.8		0.10	0.027	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.23		0.10	0.10	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	9.8		0.10	0.023	mg/Kg	2	☼	8270E	Total/NA
Fluorene	1.1		0.10	0.030	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.1		0.10	0.098	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	3.0		0.10	0.018	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	12		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Pyrene	7.2		0.10	0.028	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.92		0.20	0.020	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.38	J	0.51	0.040	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	1.7		0.51	0.036	mg/Kg	2	☼	8270E	Total/NA
PCB-1248	0.31		0.17		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.31		0.17		mg/Kg	10	☼	8082A	Total/NA
Aluminum	14000		18		mg/Kg	1	☼	6010D	Total/NA
Arsenic	9.1		4.6		mg/Kg	5	☼	6010D	Total/NA
Barium	330		0.91		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.4		1.8		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.3		0.91		mg/Kg	5	☼	6010D	Total/NA
Calcium	130000		91		mg/Kg	5	☼	6010D	Total/NA
Chromium	180		0.91		mg/Kg	1	☼	6010D	Total/NA
Cobalt	7.9		2.3		mg/Kg	5	☼	6010D	Total/NA
Copper	64		4.6		mg/Kg	5	☼	6010D	Total/NA
Iron	75000		91		mg/Kg	5	☼	6010D	Total/NA
Lead	460		2.3		mg/Kg	5	☼	6010D	Total/NA
Magnesium	20000		9.1		mg/Kg	1	☼	6010D	Total/NA
Manganese	9100		4.5		mg/Kg	5	☼	6010D	Total/NA
Nickel	30		4.6		mg/Kg	5	☼	6010D	Total/NA
Potassium	990		46		mg/Kg	1	☼	6010D	Total/NA
Sodium	890		460		mg/Kg	5	☼	6010D	Total/NA
Thallium	42		4.6		mg/Kg	5	☼	6010D	Total/NA
Vanadium	120		2.3		mg/Kg	5	☼	6010D	Total/NA
Zinc	360		9.1		mg/Kg	5	☼	6010D	Total/NA
Cyanide, Total	4.3		0.22		mg/Kg	1	☼	9012B	Total/NA
pH	8.08		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB93 (5-7.5) — Lab Sample ID: 500-256860-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012	J	0.022	0.0094	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB93 (5-7.5) (Continued)
Lab Sample ID: 500-256860-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0020	J	0.0022	0.00071	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0043	J	0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0025		0.0022	0.00045	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0011	J	0.0045	0.00077	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.038	J	0.11	0.022	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.036	J	0.11	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.10	J	0.11	0.023	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.17		0.11	0.10	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.076	J	0.11	0.024	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.052	J	0.11	0.042	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.20		0.11	0.029	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.23		0.11	0.025	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.13		0.11	0.020	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.50		0.11	0.024	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.19		0.11	0.030	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.11	J	0.22	0.022	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.053	J	0.55	0.039	mg/Kg	2	☼	8270E	Total/NA
Aluminum	8700		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	18		4.9		mg/Kg	5	☼	6010D	Total/NA
Barium	180		0.99		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.8		2.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	41000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	41		0.99		mg/Kg	1	☼	6010D	Total/NA
Cobalt	9.4		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	35		4.9		mg/Kg	5	☼	6010D	Total/NA
Iron	240000		98		mg/Kg	5	☼	6010D	Total/NA
Lead	66		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	8400		9.9		mg/Kg	1	☼	6010D	Total/NA
Manganese	7300		4.9		mg/Kg	5	☼	6010D	Total/NA
Nickel	10		4.9		mg/Kg	5	☼	6010D	Total/NA
Potassium	1100		49		mg/Kg	1	☼	6010D	Total/NA
Silver	4.0		2.5		mg/Kg	5	☼	6010D	Total/NA
Sodium	610		490		mg/Kg	5	☼	6010D	Total/NA
Thallium	45		4.9		mg/Kg	5	☼	6010D	Total/NA
Vanadium	53		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	210		9.8		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.050		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.9		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	8.19		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB94 (0-3)
Lab Sample ID: 500-256860-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016	J	0.017	0.0072	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0041	J	0.0043	0.00079	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.045	J	0.10	0.021	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.19		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.21		0.10	0.099	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.30		0.10	0.097	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.19		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.11		0.10	0.039	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB94 (0-3) (Continued)
Lab Sample ID: 500-256860-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.19		0.10	0.027	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.32		0.10	0.024	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.22		0.10	0.10	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.19		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.33		0.10	0.028	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.029	J	0.21	0.021	mg/Kg	2	☼	8270E	Total/NA
4,4'-DDT	0.035		0.017	0.0080	mg/Kg	10	☼	8081B	Total/NA
Aluminum	7400		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.2		4.8		mg/Kg	5	☼	6010D	Total/NA
Barium	100		0.97		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.55		0.19		mg/Kg	1	☼	6010D	Total/NA
Calcium	89000		97		mg/Kg	5	☼	6010D	Total/NA
Chromium	440		4.8		mg/Kg	5	☼	6010D	Total/NA
Cobalt	5.8		2.4		mg/Kg	5	☼	6010D	Total/NA
Copper	38		0.97		mg/Kg	1	☼	6010D	Total/NA
Iron	73000		94		mg/Kg	5	☼	6010D	Total/NA
Lead	56		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	19000		9.7		mg/Kg	1	☼	6010D	Total/NA
Manganese	12000		4.7		mg/Kg	5	☼	6010D	Total/NA
Nickel	36		4.8		mg/Kg	5	☼	6010D	Total/NA
Potassium	520		48		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.9		0.97		mg/Kg	1	☼	6010D	Total/NA
Thallium	34		4.8		mg/Kg	5	☼	6010D	Total/NA
Vanadium	110		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	230		9.4		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.21		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	6.6	F1 F2	2.3		mg/Kg	10	☼	9012B	Total/NA
pH	9.33		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB94 (12.5-15)
Lab Sample ID: 500-256860-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0017	J	0.0053	0.00097	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.041	J	0.053	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.058		0.053	0.051	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.053	0.012	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.025	J	0.053	0.020	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.043	J	0.053	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.067		0.053	0.012	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.072		0.053	0.012	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.069		0.053	0.015	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.027	J	0.11	0.011	mg/Kg	1	☼	8270E	Total/NA
4,4'-DDT	0.025		0.018	0.0086	mg/Kg	10	☼	8081B	Total/NA
Aluminum	6200		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	11		4.9		mg/Kg	5	☼	6010D	Total/NA
Barium	62		0.99		mg/Kg	1	☼	6010D	Total/NA
Calcium	39000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	54		0.99		mg/Kg	1	☼	6010D	Total/NA
Cobalt	9.8		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	47		4.9		mg/Kg	5	☼	6010D	Total/NA
Iron	160000		100		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB94 (12.5-15) (Continued)
Lab Sample ID: 500-256860-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	43		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	12000		9.9		mg/Kg	1	☼	6010D	Total/NA
Manganese	7600		5.0		mg/Kg	5	☼	6010D	Total/NA
Nickel	19		4.9		mg/Kg	5	☼	6010D	Total/NA
Potassium	510		49		mg/Kg	1	☼	6010D	Total/NA
Silver	2.6		2.5		mg/Kg	5	☼	6010D	Total/NA
Thallium	39		4.9		mg/Kg	5	☼	6010D	Total/NA
Vanadium	78		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	70		10		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.049		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.6		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	8.60		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB95 (0-3)
Lab Sample ID: 500-256860-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0025	J	0.0055	0.0024	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0064		0.0055	0.0010	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0018	J	0.0022	0.00044	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0022	J	0.0044	0.00075	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.018	J	0.053	0.0091	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.025	J	0.053	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.11		0.053	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.12		0.053	0.051	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.23		0.053	0.051	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.091		0.053	0.012	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.079		0.053	0.020	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.15		0.053	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.12		0.053	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.10		0.053	0.052	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.092		0.053	0.0097	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.11		0.053	0.012	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.24		0.053	0.015	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.13		0.11	0.011	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.042	J	0.27	0.019	mg/Kg	1	☼	8270E	Total/NA
PCB-1232	3.0		0.90		mg/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	3.0		0.90		mg/Kg	50	☼	8082A	Total/NA
Aluminum	17000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.2		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	260		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.2		2.0		mg/Kg	5	☼	6010D	Total/NA
Cadmium	0.43		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	140000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	92		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.5		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	31		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	59000		98		mg/Kg	5	☼	6010D	Total/NA
Lead	52		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	11000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	5000		4.9		mg/Kg	5	☼	6010D	Total/NA
Nickel	62		5.1		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB95 (0-3) (Continued)
Lab Sample ID: 500-256860-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1300		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.2		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	880		510		mg/Kg	5	☼	6010D	Total/NA
Thallium	28		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	59		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	180		9.8		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.057		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.0		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	9.28		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB95 (5-7.5)
Lab Sample ID: 500-256860-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0084		0.0047	0.0021	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.027		0.019	0.0080	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.00094	J	0.0019	0.00060	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0041	J	0.0047	0.00087	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0014	J	0.0019	0.00038	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0011	J	0.0038	0.00065	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.018	J	0.048	0.0098	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.065		0.048	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.082		0.048	0.046	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.16		0.048	0.046	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.094		0.048	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.050		0.048	0.018	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.086		0.048	0.013	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.072		0.048	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.086		0.048	0.047	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.083		0.048	0.0087	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.12		0.048	0.010	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.093		0.048	0.013	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.12		0.097	0.0097	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.039	J	0.24	0.017	mg/Kg	1	☼	8270E	Total/NA
PCB-1232	2.4		0.85		mg/Kg	50	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	2.4		0.85		mg/Kg	50	☼	8082A	Total/NA
Aluminum	12000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	15		4.8		mg/Kg	5	☼	6010D	Total/NA
Barium	180		0.95		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.3		1.9		mg/Kg	5	☼	6010D	Total/NA
Calcium	99000		95		mg/Kg	5	☼	6010D	Total/NA
Chromium	47		0.95		mg/Kg	1	☼	6010D	Total/NA
Cobalt	8.9		2.4		mg/Kg	5	☼	6010D	Total/NA
Copper	51		4.8		mg/Kg	5	☼	6010D	Total/NA
Iron	150000		89		mg/Kg	5	☼	6010D	Total/NA
Lead	77		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	7600		9.5		mg/Kg	1	☼	6010D	Total/NA
Manganese	11000		4.4		mg/Kg	5	☼	6010D	Total/NA
Nickel	36		4.8		mg/Kg	5	☼	6010D	Total/NA
Potassium	960		48		mg/Kg	1	☼	6010D	Total/NA
Sodium	670		480		mg/Kg	5	☼	6010D	Total/NA
Thallium	27		4.8		mg/Kg	5	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB95 (5-7.5) (Continued)
Lab Sample ID: 500-256860-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	48		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	140		8.9		mg/Kg	5	☼	6010D	Total/NA
Cyanide, Total	7.5		2.3		mg/Kg	10	☼	9012B	Total/NA
Sulfide	460		31		mg/Kg	1	☼	9034	Total/NA
pH	7.56		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB96 (0-3)
Lab Sample ID: 500-256860-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0026	J	0.0047	0.0021	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.0087	J	0.019	0.0079	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0084		0.0047	0.00086	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00040	J	0.0019	0.00038	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.032	J	0.10	0.018	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.046	J	0.10	0.021	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.22		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.30		0.10	0.099	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.50		0.10	0.098	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.29		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.17		0.10	0.039	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.28		0.10	0.027	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.29		0.10	0.024	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.32		0.10	0.10	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.033	J	0.10	0.019	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.15		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.38		0.10	0.028	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.032	J	0.21	0.021	mg/Kg	2	☼	8270E	Total/NA
Aluminum	16000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	11		5.1		mg/Kg	5	☼	6010D	Total/NA
Barium	190		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.1		2.0		mg/Kg	5	☼	6010D	Total/NA
Cadmium	0.42		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	160000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	370		5.1		mg/Kg	5	☼	6010D	Total/NA
Cobalt	6.9		2.5		mg/Kg	5	☼	6010D	Total/NA
Copper	42		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	74000		96		mg/Kg	5	☼	6010D	Total/NA
Lead	54		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	12000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	9400		4.8		mg/Kg	5	☼	6010D	Total/NA
Nickel	90		5.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	1300		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.9		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	820		510		mg/Kg	5	☼	6010D	Total/NA
Thallium	39		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	110		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	160		9.6		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.059		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	12		2.6		mg/Kg	10	☼	9012B	Total/NA
pH	10.49		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB96 (7.5-10) — Lab Sample ID: 500-256860-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0059		0.0057	0.0025	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.040		0.023	0.0095	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.011		0.0057	0.0010	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.011	J	0.050	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.054		0.050	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.076		0.050	0.048	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.13		0.050	0.048	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.078		0.050	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.035	J	0.050	0.019	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.063		0.050	0.013	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.060		0.050	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.067		0.050	0.049	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.014	J	0.050	0.0091	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.048	J	0.050	0.011	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.099		0.050	0.014	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.021	J	0.10	0.010	mg/Kg	1	☼	8270E	Total/NA
Aluminum	14000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.0		0.96		mg/Kg	1	☼	6010D	Total/NA
Barium	440		0.96		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.6		1.9		mg/Kg	5	☼	6010D	Total/NA
Cadmium	0.25		0.19		mg/Kg	1	☼	6010D	Total/NA
Calcium	170000		96		mg/Kg	5	☼	6010D	Total/NA
Chromium	43		0.96		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.4		2.4		mg/Kg	5	☼	6010D	Total/NA
Copper	19		0.96		mg/Kg	1	☼	6010D	Total/NA
Iron	27000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	24		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	21000		9.6		mg/Kg	1	☼	6010D	Total/NA
Manganese	5300		5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	10		4.8		mg/Kg	5	☼	6010D	Total/NA
Potassium	1100		48		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.2		0.96		mg/Kg	1	☼	6010D	Total/NA
Sodium	650		480		mg/Kg	5	☼	6010D	Total/NA
Thallium	30		4.8		mg/Kg	5	☼	6010D	Total/NA
Vanadium	42		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	100		10		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.030		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.3		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	13.17		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB97 (0-3) — Lab Sample ID: 500-256860-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0046		0.0040	0.0018	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.020		0.016	0.0067	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0020	J	0.0040	0.00074	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.014	J	0.050	0.010	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.016	J	0.050	0.0086	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.030	J	0.050	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.091		0.050	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.059		0.050	0.049	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB97 (0-3) (Continued)
Lab Sample ID: 500-256860-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.12		0.050	0.048	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.040	J	0.050	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.038	J	0.050	0.019	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.13		0.050	0.013	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.22		0.050	0.012	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.035	J	0.050	0.0092	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.16		0.050	0.011	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.19		0.050	0.014	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.024	J	0.10	0.010	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.019	J	0.25	0.018	mg/Kg	1	☼	8270E	Total/NA
Isophorone	0.050	J	0.25	0.026	mg/Kg	1	☼	8270E	Total/NA
Aluminum	7200		18		mg/Kg	1	☼	6010D	Total/NA
Arsenic	11		4.5		mg/Kg	5	☼	6010D	Total/NA
Barium	110		0.91		mg/Kg	1	☼	6010D	Total/NA
Calcium	40000		18		mg/Kg	1	☼	6010D	Total/NA
Chromium	120		0.91		mg/Kg	1	☼	6010D	Total/NA
Cobalt	7.6		2.3		mg/Kg	5	☼	6010D	Total/NA
Copper	190		4.5		mg/Kg	5	☼	6010D	Total/NA
Iron	120000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	80		2.3		mg/Kg	5	☼	6010D	Total/NA
Magnesium	6000		9.1		mg/Kg	1	☼	6010D	Total/NA
Manganese	10000		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	45		4.5		mg/Kg	5	☼	6010D	Total/NA
Potassium	740		45		mg/Kg	1	☼	6010D	Total/NA
Sodium	480		450		mg/Kg	5	☼	6010D	Total/NA
Thallium	33		4.5		mg/Kg	5	☼	6010D	Total/NA
Vanadium	52		2.3		mg/Kg	5	☼	6010D	Total/NA
Zinc	140		10		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.057		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.8		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	9.70		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB97 (5-7.5)
Lab Sample ID: 500-256860-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.029	J	0.099	0.020	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.034	J	0.099	0.017	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.062	J	0.099	0.020	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.22		0.099	0.021	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.21		0.099	0.096	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.37		0.099	0.095	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.19		0.099	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.13		0.099	0.038	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.26		0.099	0.026	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.40		0.099	0.023	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.17		0.099	0.097	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.051	J	0.099	0.018	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.26		0.099	0.022	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.41		0.099	0.027	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.035	J	0.20	0.020	mg/Kg	2	☼	8270E	Total/NA
Phenol	0.048	J	0.50	0.043	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB97 (5-7.5) (Continued)
Lab Sample ID: 500-256860-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7500		18		mg/Kg	1	☼	6010D	Total/NA
Arsenic	12		4.4		mg/Kg	5	☼	6010D	Total/NA
Barium	82		0.88		mg/Kg	1	☼	6010D	Total/NA
Calcium	42000		18		mg/Kg	1	☼	6010D	Total/NA
Chromium	240		4.4		mg/Kg	5	☼	6010D	Total/NA
Cobalt	8.9		2.2		mg/Kg	5	☼	6010D	Total/NA
Copper	380		4.4		mg/Kg	5	☼	6010D	Total/NA
Iron	110000		92		mg/Kg	5	☼	6010D	Total/NA
Lead	190		2.2		mg/Kg	5	☼	6010D	Total/NA
Magnesium	6700		8.8		mg/Kg	1	☼	6010D	Total/NA
Manganese	10000		4.6		mg/Kg	5	☼	6010D	Total/NA
Nickel	100		4.4		mg/Kg	5	☼	6010D	Total/NA
Potassium	560		44		mg/Kg	1	☼	6010D	Total/NA
Thallium	29		4.4		mg/Kg	5	☼	6010D	Total/NA
Vanadium	71		2.2		mg/Kg	5	☼	6010D	Total/NA
Zinc	120		9.2		mg/Kg	5	☼	6010D	Total/NA
Mercury	0.071		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	5.7		0.23		mg/Kg	1	☼	9012B	Total/NA
pH	9.16		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256860-1	SB93 (0-3)	Solid	09/16/24 09:00	09/17/24 12:30
500-256860-2	SB93 (5-7.5)	Solid	09/16/24 09:09	09/17/24 12:30
500-256860-3	SB94 (0-3)	Solid	09/16/24 10:04	09/17/24 12:30
500-256860-4	SB94 (12.5-15)	Solid	09/16/24 10:27	09/17/24 12:30
500-256860-5	SB95 (0-3)	Solid	09/16/24 11:17	09/17/24 12:30
500-256860-6	SB95 (5-7.5)	Solid	09/16/24 11:36	09/17/24 12:30
500-256860-7	SB96 (0-3)	Solid	09/16/24 13:18	09/17/24 12:30
500-256860-8	SB96 (7.5-10)	Solid	09/16/24 13:44	09/17/24 12:30
500-256860-9	SB97 (0-3)	Solid	09/16/24 14:30	09/17/24 12:30
500-256860-10	SB97 (5-7.5)	Solid	09/16/24 14:59	09/17/24 12:30

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB93 (0-3)
Lab Sample ID: 500-256860-1
Date Collected: 09/16/24 09:00
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 95.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00095		0.0023	0.00095	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
1,1,2,2-Tetrachloroethane	<0.0012	*+	0.0023	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
1,1,2-Trichloroethane	<0.00088		0.0023	0.00088	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
1,1-Dichloroethane	<0.00088		0.0023	0.00088	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
1,1-Dichloroethene	<0.00096		0.0023	0.00096	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
1,2-Dichloroethane	<0.0015		0.0059	0.0015	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
1,2-Dichloropropane	<0.00060		0.0023	0.00060	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
2-Butanone (MEK)	<0.0026		0.0059	0.0026	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
2-Hexanone	<0.0036		0.0059	0.0036	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0059	0.0042	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Acetone	**0.014**	**J**	0.023	0.0098	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Benzene	<0.00074		0.0023	0.00074	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Bromodichloromethane	<0.00075		0.0023	0.00075	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Bromoform	<0.0014		0.0023	0.0014	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Bromomethane	<0.0029		0.0059	0.0029	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Carbon disulfide	**0.0064**		0.0059	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Carbon tetrachloride	<0.00080		0.0023	0.00080	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Chlorobenzene	<0.00099		0.0023	0.00099	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Chloroethane	<0.0019		0.0059	0.0019	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Chloroform	<0.0017		0.0023	0.0017	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Chloromethane	<0.0011		0.0059	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
cis-1,2-Dichloroethene	<0.00094		0.0023	0.00094	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Methyl tert-butyl ether	<0.00076		0.0023	0.00076	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Methylene Chloride	<0.0025		0.0059	0.0025	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Styrene	<0.0011		0.0023	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Toluene	**0.0012**	**J**	0.0023	0.00047	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Xylenes, Total	**0.0012**	**J**	0.0047	0.00080	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
trans-1,2-Dichloroethene	<0.00088		0.0023	0.00088	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Trichloroethene	<0.00064		0.0023	0.00064	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1
Vinyl chloride	<0.00096		0.0023	0.00096	mg/Kg	☼	09/17/24 17:25	09/20/24 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*09/17/24 17:25*	*09/20/24 04:26*	*1*
4-Bromofluorobenzene (Surr)	*118*		*75 - 131*	*09/17/24 17:25*	*09/20/24 04:26*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*09/17/24 17:25*	*09/20/24 04:26*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*09/17/24 17:25*	*09/20/24 04:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**2.0**		0.10	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Acenaphthylene	**0.10**		0.10	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Anthracene	**1.4**		0.10	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Benzo[a]anthracene	**2.2**		0.10	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Benzo[a]pyrene	**1.3**		0.10	0.097	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Benzo[b]fluoranthene	**2.6**		0.10	0.096	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Benzo[g,h,i]perylene	**0.98**		0.10	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB93 (0-3)
Lab Sample ID: 500-256860-1
Date Collected: 09/16/24 09:00
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 95.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.0**		0.10	0.038	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Chrysene	**2.8**		0.10	0.027	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Dibenz(a,h)anthracene	**0.23**		0.10	0.10	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Fluoranthene	**9.8**		0.10	0.023	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Fluorene	**1.1**		0.10	0.030	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Indeno[1,2,3-cd]pyrene	**1.1**		0.10	0.098	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Naphthalene	**3.0**		0.10	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Phenanthrene	**12**		0.10	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Pyrene	**7.2**		0.10	0.028	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
1,2,4-Trichlorobenzene	<0.072		0.51	0.072	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
1,2-Dichlorobenzene	<0.041		0.51	0.041	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
1,3-Dichlorobenzene	<0.046		0.51	0.046	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
1,4-Dichlorobenzene	<0.048		0.51	0.048	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2,4,5-Trichlorophenol	<0.038		1.0	0.038	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2,4,6-Trichlorophenol	<0.034		1.0	0.034	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2,4-Dichlorophenol	<0.036		1.0	0.036	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2,4-Dimethylphenol	<0.23		1.0	0.23	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2,4-Dinitrophenol	<0.58		2.0	0.58	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2,4-Dinitrotoluene	<0.058		0.51	0.058	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2,6-Dinitrotoluene	<0.034		0.51	0.034	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2-Chloronaphthalene	<0.038		0.51	0.038	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2-Chlorophenol	<0.033		0.51	0.033	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2-Methylnaphthalene	**0.92**		0.20	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2-Methylphenol	<0.053		0.51	0.053	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2-Nitroaniline	<0.054		0.51	0.054	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
2-Nitrophenol	<0.069		1.0	0.069	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
3,3'-Dichlorobenzidine	<0.083		0.51	0.083	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
3 & 4 Methylphenol	<0.074		0.51	0.074	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
3-Nitroaniline	<0.046		1.0	0.046	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
4,6-Dinitro-2-methylphenol	<0.57		2.0	0.57	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
4-Bromophenyl phenyl ether	<0.069		0.51	0.069	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
4-Chloro-3-methylphenol	<0.039		1.0	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
4-Chloroaniline	<1.1		2.0	1.1	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
4-Chlorophenyl phenyl ether	<0.13		0.51	0.13	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
4-Nitroaniline	<0.075		1.0	0.075	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
4-Nitrophenol	<0.37		2.0	0.37	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Bis(2-chloroethoxy)methane	<0.038		0.51	0.038	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Bis(2-chloroethyl)ether	<0.047		0.51	0.047	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
bis(chloroisopropyl) ether	<0.072		0.51	0.072	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Bis(2-ethylhexyl) phthalate	<0.40		0.51	0.40	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Butyl benzyl phthalate	<0.050		0.51	0.050	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Carbazole	**0.38**	**J**	0.51	0.040	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Dibenzofuran	**1.7**		0.51	0.036	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Diethyl phthalate	<0.046		0.51	0.046	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Dimethyl phthalate	<0.022		0.51	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Di-n-butyl phthalate	<0.032		0.51	0.032	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Di-n-octyl phthalate	<0.71		1.0	0.71	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Hexachlorobenzene	<0.019		0.20	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Hexachlorobutadiene	<0.057		0.51	0.057	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2

Client Sample ID: SB93 (0-3) | **Lab Sample ID: 500-256860-1**
Date Collected: 09/16/24 09:00 | **Matrix: Solid**
Date Received: 09/17/24 12:30 | **Percent Solids: 95.0**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.1		2.0	1.1	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Hexachloroethane	<0.051		0.51	0.051	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Isophorone	<0.052		0.51	0.052	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Nitrobenzene	<0.032		0.10	0.032	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
N-Nitrosodi-n-propylamine	<0.020		0.20	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
N-Nitrosodiphenylamine	<0.060		0.51	0.060	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Pentachlorophenol	<0.25		2.0	0.25	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2
Phenol	<0.044		0.51	0.044	mg/Kg	☼	09/25/24 16:21	09/26/24 18:35	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*31 - 166*	*09/25/24 16:21*	*09/26/24 18:35*	*2*
Phenol-d5 (Surr)	*60*		*30 - 153*	*09/25/24 16:21*	*09/26/24 18:35*	*2*
Nitrobenzene-d5 (Surr)	*58*		*37 - 147*	*09/25/24 16:21*	*09/26/24 18:35*	*2*
2-Fluorobiphenyl (Surr)	*61*		*43 - 145*	*09/25/24 16:21*	*09/26/24 18:35*	*2*
2,4,6-Tribromophenol (Surr)	*47*		*31 - 143*	*09/25/24 16:21*	*09/26/24 18:35*	*2*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*09/25/24 16:21*	*09/26/24 18:35*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Methoxychlor	<0.012		0.086	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/24/24 15:36	10/04/24 14:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*794*	*S1+*	*33 - 148*	*09/24/24 15:36*	*10/04/24 14:52*	*10*
Tetrachloro-m-xylene	*89*		*30 - 121*	*09/24/24 15:36*	*10/04/24 14:52*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 16:29	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 16:29	10

Client Sample ID: SB93 (0-3)
Date Collected: 09/16/24 09:00
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-1
Matrix: Solid
Percent Solids: 95.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 16:29	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 16:29	10
PCB-1248	**0.31**		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 16:29	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 16:29	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 16:29	10
Polychlorinated biphenyls, Total	**0.31**		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 16:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*41*	*S1-*	*49 - 129*	*09/24/24 15:36*	*09/30/24 16:29*	*10*
DCB Decachlorobiphenyl	*94*		*37 - 121*	*09/24/24 15:36*	*09/30/24 16:29*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		18		mg/Kg	☼	09/30/24 17:14	10/01/24 18:53	1
Antimony	<9.1		9.1		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Arsenic	**9.1**		4.6		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Barium	**330**		0.91		mg/Kg	☼	09/30/24 17:14	10/01/24 18:53	1
Beryllium	**3.4**		1.8		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Cadmium	**1.3**		0.91		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Calcium	**130000**		91		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Chromium	**180**		0.91		mg/Kg	☼	09/30/24 17:14	10/01/24 18:53	1
Cobalt	**7.9**		2.3		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Copper	**64**		4.6		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Iron	**75000**		91		mg/Kg	☼	10/08/24 16:25	10/09/24 14:38	5
Lead	**460**		2.3		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Magnesium	**20000**		9.1		mg/Kg	☼	09/30/24 17:14	10/01/24 18:53	1
Manganese	**9100**		4.5		mg/Kg	☼	10/08/24 16:25	10/09/24 14:38	5
Nickel	**30**		4.6		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Potassium	**990**		46		mg/Kg	☼	09/30/24 17:14	10/01/24 18:53	1
Selenium	<4.6		4.6		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Silver	<2.3		2.3		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Sodium	**890**		460		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Thallium	**42**		4.6		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Vanadium	**120**		2.3		mg/Kg	☼	09/30/24 17:14	10/04/24 01:58	5
Zinc	**360**		9.1		mg/Kg	☼	10/08/24 16:25	10/09/24 14:38	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016		mg/Kg	☼	10/01/24 17:15	10/02/24 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**4.3**		0.22		mg/Kg	☼	09/26/24 11:10	09/26/24 14:19	1
pH (SW846 9045D)	**8.08**		0.20		SU			09/23/24 17:26	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB93 (5-7.5)
Lab Sample ID: 500-256860-2
Date Collected: 09/16/24 09:09
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 89.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00091		0.0022	0.00091	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
1,1,2,2-Tetrachloroethane	<0.0011	*3 *+	0.0022	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
1,1,2-Trichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
1,1-Dichloroethane	<0.00085		0.0022	0.00085	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
1,1-Dichloroethene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
1,2-Dichloroethane	<0.0015		0.0056	0.0015	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
1,2-Dichloropropane	<0.00058		0.0022	0.00058	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
2-Butanone (MEK)	<0.0025		0.0056	0.0025	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Acetone	**0.012**	**J**	0.022	0.0094	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Benzene	**0.0020**	**J**	0.0022	0.00071	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Bromodichloromethane	<0.00072		0.0022	0.00072	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Bromomethane	<0.0028		0.0056	0.0028	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Carbon disulfide	**0.0043**	**J**	0.0056	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Carbon tetrachloride	<0.00076		0.0022	0.00076	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Chlorobenzene	<0.00095		0.0022	0.00095	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
cis-1,2-Dichloroethene	<0.00091		0.0022	0.00091	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Methyl tert-butyl ether	<0.00072		0.0022	0.00072	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Styrene	<0.0010		0.0022	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Tetrachloroethene	<0.0013		0.0022	0.0013	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Toluene	**0.0025**		0.0022	0.00045	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Xylenes, Total	**0.0011**	**J**	0.0045	0.00077	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
trans-1,2-Dichloroethene	<0.00085		0.0022	0.00085	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Trichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1
Vinyl chloride	<0.00092		0.0022	0.00092	mg/Kg	☼	09/17/24 17:25	09/20/24 04:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*09/17/24 17:25*	*09/20/24 04:52*	*1*
4-Bromofluorobenzene (Surr)	*153*	*3 S1+	*75 - 131*	*09/17/24 17:25*	*09/20/24 04:52*	*1*
Dibromofluoromethane	*112*		*75 - 126*	*09/17/24 17:25*	*09/20/24 04:52*	*1*
Toluene-d8 (Surr)	*157*	*S1+	*75 - 124*	*09/17/24 17:25*	*09/20/24 04:52*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.038**	**J**	0.11	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Acenaphthylene	<0.019		0.11	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Anthracene	**0.036**	**J**	0.11	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Benzo[a]anthracene	**0.10**	**J**	0.11	0.023	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Benzo[a]pyrene	<0.11		0.11	0.11	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Benzo[b]fluoranthene	**0.17**		0.11	0.10	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Benzo[g,h,i]perylene	**0.076**	**J**	0.11	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2

Client Sample ID: SB93 (5-7.5)
Date Collected: 09/16/24 09:09
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-2
Matrix: Solid
Percent Solids: 89.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.052**	**J**	0.11	0.042	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Chrysene	**0.20**		0.11	0.029	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Dibenz(a,h)anthracene	<0.11		0.11	0.11	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Fluoranthene	**0.23**		0.11	0.025	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Fluorene	<0.032		0.11	0.032	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Indeno[1,2,3-cd]pyrene	<0.11		0.11	0.11	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Naphthalene	**0.13**		0.11	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Phenanthrene	**0.50**		0.11	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Pyrene	**0.19**		0.11	0.030	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
1,2,4-Trichlorobenzene	<0.078		0.55	0.078	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
1,2-Dichlorobenzene	<0.045		0.55	0.045	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
1,3-Dichlorobenzene	<0.049		0.55	0.049	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
1,4-Dichlorobenzene	<0.052		0.55	0.052	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2,4,5-Trichlorophenol	<0.041		1.1	0.041	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2,4,6-Trichlorophenol	<0.037		1.1	0.037	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2,4-Dichlorophenol	<0.039		1.1	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2,4-Dimethylphenol	<0.25		1.1	0.25	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2,4-Dinitrophenol	<0.63		2.2	0.63	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2,4-Dinitrotoluene	<0.062		0.55	0.062	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2,6-Dinitrotoluene	<0.037		0.55	0.037	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2-Chloronaphthalene	<0.041		0.55	0.041	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2-Chlorophenol	<0.035		0.55	0.035	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2-Methylnaphthalene	**0.11**	**J**	0.22	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2-Methylphenol	<0.058		0.55	0.058	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2-Nitroaniline	<0.059		0.55	0.059	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
2-Nitrophenol	<0.074		1.1	0.074	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
3,3'-Dichlorobenzidine	<0.089		0.55	0.089	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
3 & 4 Methylphenol	<0.080		0.55	0.080	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
3-Nitroaniline	<0.050		1.1	0.050	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
4,6-Dinitro-2-methylphenol	<0.62		2.2	0.62	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
4-Bromophenyl phenyl ether	<0.075		0.55	0.075	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
4-Chloro-3-methylphenol	<0.043		1.1	0.043	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
4-Chloroaniline	<1.1		2.2	1.1	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
4-Chlorophenyl phenyl ether	<0.14		0.55	0.14	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
4-Nitroaniline	<0.081		1.1	0.081	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
4-Nitrophenol	<0.41		2.2	0.41	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Bis(2-chloroethoxy)methane	<0.041		0.55	0.041	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Bis(2-chloroethyl)ether	<0.050		0.55	0.050	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
bis(chloroisopropyl) ether	<0.079		0.55	0.079	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Bis(2-ethylhexyl) phthalate	<0.43		0.55	0.43	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Butyl benzyl phthalate	<0.054		0.55	0.054	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Carbazole	<0.043		0.55	0.043	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Dibenzofuran	**0.053**	**J**	0.55	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Diethyl phthalate	<0.050		0.55	0.050	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Dimethyl phthalate	<0.024		0.55	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Di-n-butyl phthalate	<0.035		0.55	0.035	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Di-n-octyl phthalate	<0.77		1.1	0.77	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Hexachlorobenzene	<0.021		0.22	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Hexachlorobutadiene	<0.062		0.55	0.062	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2

Client Sample ID: SB93 (5-7.5)
Date Collected: 09/16/24 09:09
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-2
Matrix: Solid
Percent Solids: 89.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.2		2.2	1.2	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Hexachloroethane	<0.055		0.55	0.055	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Isophorone	<0.056		0.55	0.056	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Nitrobenzene	<0.035		0.11	0.035	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
N-Nitrosodi-n-propylamine	<0.022		0.22	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
N-Nitrosodiphenylamine	<0.065		0.55	0.065	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Pentachlorophenol	<0.27		2.2	0.27	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2
Phenol	<0.048		0.55	0.048	mg/Kg	☼	09/25/24 16:21	09/26/24 14:24	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*55*		*31 - 166*	*09/25/24 16:21*	*09/26/24 14:24*	*2*
Phenol-d5 (Surr)	*53*		*30 - 153*	*09/25/24 16:21*	*09/26/24 14:24*	*2*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*	*09/25/24 16:21*	*09/26/24 14:24*	*2*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*09/25/24 16:21*	*09/26/24 14:24*	*2*
2,4,6-Tribromophenol (Surr)	*39*		*31 - 143*	*09/25/24 16:21*	*09/26/24 14:24*	*2*
Terphenyl-d14 (Surr)	*74*		*42 - 157*	*09/25/24 16:21*	*09/26/24 14:24*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
4,4'-DDE	<0.0093		0.018	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
4,4'-DDT	<0.0086		0.018	0.0086	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
alpha-Chlordane	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Chlordane (technical)	<0.034		0.072	0.034	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
delta-BHC	<0.0087		0.018	0.0087	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Dieldrin	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Endosulfan I	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Endosulfan II	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Endrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Endrin ketone	<0.0088		0.018	0.0088	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
gamma-BHC (Lindane)	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Heptachlor	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Heptachlor epoxide	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Methoxychlor	<0.012		0.089	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/24/24 15:36	10/04/24 15:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*130*		*33 - 148*	*09/24/24 15:36*	*10/04/24 15:03*	*10*
Tetrachloro-m-xylene	*85*		*30 - 121*	*09/24/24 15:36*	*10/04/24 15:03*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 16:44	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 16:44	10

Client Sample ID: SB93 (5-7.5)
Lab Sample ID: 500-256860-2
Date Collected: 09/16/24 09:09
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 89.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 16:44	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 16:44	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 16:44	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 16:44	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 16:44	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 16:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*49 - 129*	*09/24/24 15:36*	*09/30/24 16:44*	*10*
DCB Decachlorobiphenyl	*56*		*37 - 121*	*09/24/24 15:36*	*09/30/24 16:44*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8700**		20		mg/Kg	☼	09/30/24 17:14	10/01/24 18:57	1
Antimony	<9.9		9.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Arsenic	**18**		4.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Barium	**180**		0.99		mg/Kg	☼	09/30/24 17:14	10/01/24 18:57	1
Beryllium	**2.8**		2.0		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Cadmium	<0.99		0.99		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Calcium	**41000**		20		mg/Kg	☼	09/30/24 17:14	10/01/24 18:57	1
Chromium	**41**		0.99		mg/Kg	☼	09/30/24 17:14	10/01/24 18:57	1
Cobalt	**9.4**		2.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Copper	**35**		4.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Iron	**240000**		98		mg/Kg	☼	10/08/24 16:25	10/09/24 14:43	5
Lead	**66**		2.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Magnesium	**8400**		9.9		mg/Kg	☼	09/30/24 17:14	10/01/24 18:57	1
Manganese	**7300**		4.9		mg/Kg	☼	10/08/24 16:25	10/09/24 14:43	5
Nickel	**10**		4.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Potassium	**1100**		49		mg/Kg	☼	09/30/24 17:14	10/01/24 18:57	1
Selenium	<4.9		4.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Silver	**4.0**		2.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Sodium	**610**		490		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Thallium	**45**		4.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Vanadium	**53**		2.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:03	5
Zinc	**210**		9.8		mg/Kg	☼	10/08/24 16:25	10/09/24 14:43	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.050**		0.017		mg/Kg	☼	10/01/24 17:15	10/02/24 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.9**		0.26		mg/Kg	☼	09/26/24 11:10	09/26/24 14:21	1
pH (SW846 9045D)	**8.19**		0.20		SU			09/23/24 17:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB94 (0-3)
Lab Sample ID: 500-256860-3
Date Collected: 09/16/24 10:04
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 94.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00070		0.0017	0.00070	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
1,1,2,2-Tetrachloroethane	<0.00085	*+	0.0017	0.00085	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
1,1,2-Trichloroethane	<0.00064		0.0017	0.00064	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
1,1-Dichloroethane	<0.00065		0.0017	0.00065	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
1,1-Dichloroethene	<0.00071		0.0017	0.00071	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
1,2-Dichloroethane	<0.0011		0.0043	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
1,2-Dichloropropane	<0.00044		0.0017	0.00044	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
2-Hexanone	<0.0026		0.0043	0.0026	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
4-Methyl-2-pentanone (MIBK)	<0.0031		0.0043	0.0031	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Acetone	**0.016**	**J**	0.017	0.0072	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Benzene	<0.00054		0.0017	0.00054	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Bromodichloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Bromoform	<0.0010		0.0017	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Bromomethane	<0.0021		0.0043	0.0021	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Carbon disulfide	**0.0041**	**J**	0.0043	0.00079	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Carbon tetrachloride	<0.00059		0.0017	0.00059	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Chlorobenzene	<0.00073		0.0017	0.00073	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Chloroethane	<0.0014		0.0043	0.0014	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Chloroform	<0.0012		0.0017	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Chloromethane	<0.00083		0.0043	0.00083	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
cis-1,2-Dichloroethene	<0.00069		0.0017	0.00069	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
1,3-Dichloropropene, Total	<0.00082		0.0017	0.00082	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Dibromochloromethane	<0.00080		0.0017	0.00080	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Ethylbenzene	<0.00090		0.0017	0.00090	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Methyl tert-butyl ether	<0.00056		0.0017	0.00056	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Methylene Chloride	<0.0018		0.0043	0.0018	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Styrene	<0.00077		0.0017	0.00077	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Tetrachloroethene	<0.00097		0.0017	0.00097	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Toluene	<0.00035		0.0017	0.00035	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Xylenes, Total	<0.00059		0.0034	0.00059	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
trans-1,2-Dichloroethene	<0.00065		0.0017	0.00065	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Trichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1
Vinyl chloride	<0.00070		0.0017	0.00070	mg/Kg	☼	09/17/24 17:25	09/20/24 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*09/17/24 17:25*	*09/20/24 05:17*	*1*
4-Bromofluorobenzene (Surr)	*126*		*75 - 131*	*09/17/24 17:25*	*09/20/24 05:17*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*09/17/24 17:25*	*09/20/24 05:17*	*1*
Toluene-d8 (Surr)	*110*		*75 - 124*	*09/17/24 17:25*	*09/20/24 05:17*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.021		0.10	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Acenaphthylene	<0.017		0.10	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Anthracene	**0.045**	**J**	0.10	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Benzo[a]anthracene	**0.19**		0.10	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Benzo[a]pyrene	**0.21**		0.10	0.099	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Benzo[b]fluoranthene	**0.30**		0.10	0.097	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Benzo[g,h,i]perylene	**0.19**		0.10	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB94 (0-3)
Lab Sample ID: 500-256860-3
Date Collected: 09/16/24 10:04
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 94.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.11**		0.10	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Chrysene	**0.19**		0.10	0.027	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Dibenz(a,h)anthracene	<0.10		0.10	0.10	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Fluoranthene	**0.32**		0.10	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Fluorene	<0.030		0.10	0.030	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Indeno[1,2,3-cd]pyrene	**0.22**		0.10	0.10	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Naphthalene	<0.019		0.10	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Phenanthrene	**0.19**		0.10	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Pyrene	**0.33**		0.10	0.028	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
1,2,4-Trichlorobenzene	<0.073		0.51	0.073	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
1,2-Dichlorobenzene	<0.042		0.51	0.042	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
1,3-Dichlorobenzene	<0.046		0.51	0.046	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
1,4-Dichlorobenzene	<0.048		0.51	0.048	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2,4,5-Trichlorophenol	<0.039		1.0	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2,4,6-Trichlorophenol	<0.035		1.0	0.035	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2,4-Dichlorophenol	<0.036		1.0	0.036	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2,4-Dimethylphenol	<0.23		1.0	0.23	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2,4-Dinitrophenol	<0.59		2.1	0.59	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2,4-Dinitrotoluene	<0.058		0.51	0.058	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2,6-Dinitrotoluene	<0.035		0.51	0.035	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2-Chloronaphthalene	<0.038		0.51	0.038	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2-Chlorophenol	<0.033		0.51	0.033	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2-Methylnaphthalene	**0.029**	**J**	0.21	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2-Methylphenol	<0.054		0.51	0.054	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2-Nitroaniline	<0.055		0.51	0.055	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
2-Nitrophenol	<0.069		1.0	0.069	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
3,3'-Dichlorobenzidine	<0.084		0.51	0.084	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
3 & 4 Methylphenol	<0.075		0.51	0.075	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
3-Nitroaniline	<0.047		1.0	0.047	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
4,6-Dinitro-2-methylphenol	<0.58		2.1	0.58	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
4-Bromophenyl phenyl ether	<0.070		0.51	0.070	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
4-Chloro-3-methylphenol	<0.040		1.0	0.040	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
4-Chloroaniline	<1.1		2.1	1.1	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
4-Chlorophenyl phenyl ether	<0.13		0.51	0.13	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
4-Nitroaniline	<0.076		1.0	0.076	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
4-Nitrophenol	<0.38		2.1	0.38	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Bis(2-chloroethoxy)methane	<0.038		0.51	0.038	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Bis(2-chloroethyl)ether	<0.047		0.51	0.047	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
bis(chloroisopropyl) ether	<0.073		0.51	0.073	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Bis(2-ethylhexyl) phthalate	<0.40		0.51	0.40	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Butyl benzyl phthalate	<0.051		0.51	0.051	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Carbazole	<0.040		0.51	0.040	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Dibenzofuran	<0.036		0.51	0.036	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Diethyl phthalate	<0.047		0.51	0.047	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Dimethyl phthalate	<0.022		0.51	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Di-n-butyl phthalate	<0.032		0.51	0.032	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Di-n-octyl phthalate	<0.72		1.0	0.72	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Hexachlorobenzene	<0.020		0.21	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Hexachlorobutadiene	<0.058		0.51	0.058	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2

Client Sample ID: SB94 (0-3)
Lab Sample ID: 500-256860-3
Date Collected: 09/16/24 10:04
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 94.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.1		2.1	1.1	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Hexachloroethane	<0.051		0.51	0.051	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Isophorone	<0.053		0.51	0.053	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Nitrobenzene	<0.032		0.10	0.032	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
N-Nitrosodi-n-propylamine	<0.020		0.21	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
N-Nitrosodiphenylamine	<0.061		0.51	0.061	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Pentachlorophenol	<0.26		2.1	0.26	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2
Phenol	<0.044		0.51	0.044	mg/Kg	☼	09/25/24 16:21	09/26/24 19:01	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*31 - 166*	*09/25/24 16:21*	*09/26/24 19:01*	*2*
Phenol-d5 (Surr)	*49*		*30 - 153*	*09/25/24 16:21*	*09/26/24 19:01*	*2*
Nitrobenzene-d5 (Surr)	*49*		*37 - 147*	*09/25/24 16:21*	*09/26/24 19:01*	*2*
2-Fluorobiphenyl (Surr)	*52*		*43 - 145*	*09/25/24 16:21*	*09/26/24 19:01*	*2*
2,4,6-Tribromophenol (Surr)	*18*	*S1-*	*31 - 143*	*09/25/24 16:21*	*09/26/24 19:01*	*2*
Terphenyl-d14 (Surr)	*51*		*42 - 157*	*09/25/24 16:21*	*09/26/24 19:01*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0091		0.017	0.0091	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
4,4'-DDE	<0.0087		0.017	0.0087	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
4,4'-DDT	**0.035**		0.017	0.0080	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
alpha-BHC	<0.0095		0.017	0.0095	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
alpha-Chlordane	<0.0091		0.017	0.0091	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Chlordane (technical)	<0.032		0.067	0.032	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
delta-BHC	<0.0081		0.017	0.0081	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Dieldrin	<0.0089		0.017	0.0089	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Endosulfan I	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Endosulfan II	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Endosulfan sulfate	<0.0094		0.017	0.0094	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Endrin	<0.0086		0.017	0.0086	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Endrin aldehyde	<0.0097		0.017	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Endrin ketone	<0.0082		0.017	0.0082	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
gamma-BHC (Lindane)	<0.0084		0.017	0.0084	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
gamma-Chlordane	<0.0097		0.017	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Heptachlor	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Heptachlor epoxide	<0.0091		0.017	0.0091	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Methoxychlor	<0.011		0.083	0.011	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10
Toxaphene	<0.068		0.17	0.068	mg/Kg	☼	09/24/24 15:36	10/04/24 18:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*155*	*S1+*	*33 - 148*	*09/24/24 15:36*	*10/04/24 18:16*	*10*
Tetrachloro-m-xylene	*76*		*30 - 121*	*09/24/24 15:36*	*10/04/24 18:16*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 18:16	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 18:16	10

Client Sample ID: SB94 (0-3)
Date Collected: 09/16/24 10:04
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-3
Matrix: Solid
Percent Solids: 94.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 18:16	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 18:16	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 18:16	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 18:16	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 18:16	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 18:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*49 - 129*	*09/24/24 15:36*	*09/30/24 18:16*	*10*
DCB Decachlorobiphenyl	*60*		*37 - 121*	*09/24/24 15:36*	*09/30/24 18:16*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7400**		19		mg/Kg	☼	09/30/24 17:14	10/01/24 19:02	1
Antimony	<9.7		9.7		mg/Kg	☼	09/30/24 17:14	10/04/24 02:20	5
Arsenic	**7.2**		4.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:20	5
Barium	**100**		0.97		mg/Kg	☼	09/30/24 17:14	10/01/24 19:02	1
Beryllium	<1.9		1.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:20	5
Cadmium	**0.55**		0.19		mg/Kg	☼	09/30/24 17:14	10/01/24 19:02	1
Calcium	**89000**		97		mg/Kg	☼	09/30/24 17:14	10/04/24 02:20	5
Chromium	**440**		4.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:20	5
Cobalt	**5.8**		2.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:20	5
Copper	**38**		0.97		mg/Kg	☼	09/30/24 17:14	10/01/24 19:02	1
Iron	**73000**		94		mg/Kg	☼	10/08/24 16:25	10/09/24 14:47	5
Lead	**56**		2.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:20	5
Magnesium	**19000**		9.7		mg/Kg	☼	09/30/24 17:14	10/01/24 19:02	1
Manganese	**12000**		4.7		mg/Kg	☼	10/08/24 16:25	10/09/24 14:47	5
Nickel	**36**		4.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:20	5
Potassium	**520**		48		mg/Kg	☼	09/30/24 17:14	10/01/24 19:02	1
Selenium	**2.9**		0.97		mg/Kg	☼	09/30/24 17:14	10/01/24 19:02	1
Silver	<0.48		0.48		mg/Kg	☼	09/30/24 17:14	10/01/24 19:02	1
Sodium	<480		480		mg/Kg	☼	09/30/24 17:14	10/04/24 02:20	5
Thallium	**34**		4.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:20	5
Vanadium	**110**		2.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:20	5
Zinc	**230**		9.4		mg/Kg	☼	10/08/24 16:25	10/09/24 14:47	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.017		mg/Kg	☼	10/01/24 17:15	10/02/24 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**6.6**	**F1 F2**	2.3		mg/Kg	☼	09/26/24 11:10	09/26/24 14:53	10
pH (SW846 9045D)	**9.33**		0.20		SU			09/23/24 17:31	1

Client Sample ID: SB94 (12.5-15)
Lab Sample ID: 500-256860-4
Date Collected: 09/16/24 10:27
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 91.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00085		0.0021	0.00085	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
1,1,2,2-Tetrachloroethane	<0.0010	*+	0.0021	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
1,1,2-Trichloroethane	<0.00079		0.0021	0.00079	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
1,1-Dichloroethane	<0.00079		0.0021	0.00079	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
1,1-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
1,2-Dichloroethane	<0.0014		0.0053	0.0014	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
2-Butanone (MEK)	<0.0023		0.0053	0.0023	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
2-Hexanone	<0.0032		0.0053	0.0032	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0053	0.0037	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Acetone	<0.0088		0.021	0.0088	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Benzene	<0.00066		0.0021	0.00066	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Bromodichloromethane	<0.00067		0.0021	0.00067	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Bromomethane	<0.0026		0.0053	0.0026	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Carbon disulfide	**0.0017**	**J**	0.0053	0.00097	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Carbon tetrachloride	<0.00072		0.0021	0.00072	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Chlorobenzene	<0.00089		0.0021	0.00089	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Chloroethane	<0.0017		0.0053	0.0017	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Chloromethane	<0.0010		0.0053	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
cis-1,2-Dichloroethene	<0.00085		0.0021	0.00085	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Dibromochloromethane	<0.00097		0.0021	0.00097	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Methyl tert-butyl ether	<0.00068		0.0021	0.00068	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Methylene Chloride	<0.0022		0.0053	0.0022	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Styrene	<0.00095		0.0021	0.00095	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Toluene	<0.00042		0.0021	0.00042	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Xylenes, Total	<0.00072		0.0042	0.00072	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
trans-1,2-Dichloroethene	<0.00079		0.0021	0.00079	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Trichloroethene	<0.00057		0.0021	0.00057	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1
Vinyl chloride	<0.00086		0.0021	0.00086	mg/Kg	☼	09/17/24 17:25	09/20/24 05:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/17/24 17:25*	*09/20/24 05:43*	*1*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*75 - 131*	*09/17/24 17:25*	*09/20/24 05:43*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*09/17/24 17:25*	*09/20/24 05:43*	*1*
Toluene-d8 (Surr)	*125*	*S1+*	*75 - 124*	*09/17/24 17:25*	*09/20/24 05:43*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.011		0.053	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Acenaphthylene	<0.0091		0.053	0.0091	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Anthracene	<0.011		0.053	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Benzo[a]anthracene	**0.041**	**J**	0.053	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Benzo[a]pyrene	<0.052		0.053	0.052	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Benzo[b]fluoranthene	**0.058**		0.053	0.051	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Benzo[g,h,i]perylene	**0.023**	**J**	0.053	0.012	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1

Client Sample ID: SB94 (12.5-15)
Lab Sample ID: 500-256860-4
Date Collected: 09/16/24 10:27
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 91.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.025**	**J**	0.053	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Chrysene	**0.043**	**J**	0.053	0.014	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Dibenz(a,h)anthracene	<0.053		0.053	0.053	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Fluoranthene	**0.067**		0.053	0.012	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Fluorene	<0.016		0.053	0.016	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Indeno[1,2,3-cd]pyrene	<0.052		0.053	0.052	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Naphthalene	<0.0097		0.053	0.0097	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Phenanthrene	**0.072**		0.053	0.012	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Pyrene	**0.069**		0.053	0.015	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
1,2,4-Trichlorobenzene	<0.038		0.27	0.038	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
1,2-Dichlorobenzene	<0.022		0.27	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
1,3-Dichlorobenzene	<0.024		0.27	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
1,4-Dichlorobenzene	<0.025		0.27	0.025	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2,4,5-Trichlorophenol	<0.020		0.53	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2,4,6-Trichlorophenol	<0.018		0.53	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2,4-Dichlorophenol	<0.019		0.53	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2,4-Dimethylphenol	<0.12		0.53	0.12	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2,4-Dinitrophenol	<0.31		1.1	0.31	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2,4-Dinitrotoluene	<0.031		0.27	0.031	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2,6-Dinitrotoluene	<0.018		0.27	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2-Chloronaphthalene	<0.020		0.27	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2-Chlorophenol	<0.017		0.27	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2-Methylnaphthalene	**0.027**	**J**	0.11	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2-Methylphenol	<0.028		0.27	0.028	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2-Nitroaniline	<0.029		0.27	0.029	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
2-Nitrophenol	<0.036		0.53	0.036	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
3,3'-Dichlorobenzidine	<0.044		0.27	0.044	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
3 & 4 Methylphenol	<0.039		0.27	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
3-Nitroaniline	<0.024		0.53	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
4,6-Dinitro-2-methylphenol	<0.30		1.1	0.30	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
4-Bromophenyl phenyl ether	<0.037		0.27	0.037	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
4-Chloro-3-methylphenol	<0.021		0.53	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
4-Chloroaniline	<0.56		1.1	0.56	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
4-Chlorophenyl phenyl ether	<0.070		0.27	0.070	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
4-Nitroaniline	<0.040		0.53	0.040	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
4-Nitrophenol	<0.20		1.1	0.20	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Bis(2-chloroethoxy)methane	<0.020		0.27	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Bis(2-chloroethyl)ether	<0.025		0.27	0.025	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
bis(chloroisopropyl) ether	<0.038		0.27	0.038	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Bis(2-ethylhexyl) phthalate	<0.21		0.27	0.21	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Butyl benzyl phthalate	<0.027		0.27	0.027	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Carbazole	<0.021		0.27	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Dibenzofuran	<0.019		0.27	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Diethyl phthalate	<0.025		0.27	0.025	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Dimethyl phthalate	<0.012		0.27	0.012	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Di-n-butyl phthalate	<0.017		0.27	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Di-n-octyl phthalate	<0.37		0.53	0.37	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Hexachlorobenzene	<0.010		0.11	0.010	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Hexachlorobutadiene	<0.030		0.27	0.030	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1

Client Sample ID: SB94 (12.5-15)
Lab Sample ID: 500-256860-4
Date Collected: 09/16/24 10:27
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 91.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.57		1.1	0.57	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Hexachloroethane	<0.027		0.27	0.027	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Isophorone	<0.028		0.27	0.028	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Nitrobenzene	<0.017		0.053	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
N-Nitrosodi-n-propylamine	<0.011		0.11	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
N-Nitrosodiphenylamine	<0.032		0.27	0.032	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Pentachlorophenol	<0.13		1.1	0.13	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1
Phenol	<0.023		0.27	0.023	mg/Kg	☼	09/25/24 16:21	09/26/24 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*40*		*31 - 166*	*09/25/24 16:21*	*09/26/24 14:49*	*1*
Phenol-d5 (Surr)	*40*		*30 - 153*	*09/25/24 16:21*	*09/26/24 14:49*	*1*
Nitrobenzene-d5 (Surr)	*42*		*37 - 147*	*09/25/24 16:21*	*09/26/24 14:49*	*1*
2-Fluorobiphenyl (Surr)	*42*	*S1-*	*43 - 145*	*09/25/24 16:21*	*09/26/24 14:49*	*1*
2,4,6-Tribromophenol (Surr)	*28*	*S1-*	*31 - 143*	*09/25/24 16:21*	*09/26/24 14:49*	*1*
Terphenyl-d14 (Surr)	*45*		*42 - 157*	*09/25/24 16:21*	*09/26/24 14:49*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
4,4'-DDE	<0.0093		0.018	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
4,4'-DDT	**0.025**		0.018	0.0086	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
alpha-Chlordane	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Chlordane (technical)	<0.034		0.072	0.034	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
delta-BHC	<0.0086		0.018	0.0086	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Dieldrin	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Endosulfan I	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Endosulfan II	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Endrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Endrin ketone	<0.0088		0.018	0.0088	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
gamma-BHC (Lindane)	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Heptachlor	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Heptachlor epoxide	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Methoxychlor	<0.012		0.089	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/24/24 15:36	10/04/24 16:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*124*		*33 - 148*	*09/24/24 15:36*	*10/04/24 16:20*	*10*
Tetrachloro-m-xylene	*74*		*30 - 121*	*09/24/24 15:36*	*10/04/24 16:20*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 18:31	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 18:31	10

Client Sample ID: SB94 (12.5-15)
Date Collected: 09/16/24 10:27
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-4
Matrix: Solid
Percent Solids: 91.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 18:31	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 18:31	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 18:31	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 18:31	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 18:31	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 18:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*44*	*S1-*	*49 - 129*	*09/24/24 15:36*	*09/30/24 18:31*	*10*
DCB Decachlorobiphenyl	*50*		*37 - 121*	*09/24/24 15:36*	*09/30/24 18:31*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6200**		20		mg/Kg	☼	09/30/24 17:14	10/01/24 19:06	1
Antimony	<2.0		2.0		mg/Kg	☼	09/30/24 17:14	10/01/24 19:06	1
Arsenic	**11**		4.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:25	5
Barium	**62**		0.99		mg/Kg	☼	09/30/24 17:14	10/01/24 19:06	1
Beryllium	<2.0		2.0		mg/Kg	☼	09/30/24 17:14	10/04/24 02:25	5
Cadmium	<0.99		0.99		mg/Kg	☼	09/30/24 17:14	10/04/24 02:25	5
Calcium	**39000**		20		mg/Kg	☼	09/30/24 17:14	10/01/24 19:06	1
Chromium	**54**		0.99		mg/Kg	☼	09/30/24 17:14	10/01/24 19:06	1
Cobalt	**9.8**		2.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:25	5
Copper	**47**		4.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:25	5
Iron	**160000**		100		mg/Kg	☼	10/08/24 16:25	10/09/24 14:52	5
Lead	**43**		2.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:25	5
Magnesium	**12000**		9.9		mg/Kg	☼	09/30/24 17:14	10/01/24 19:06	1
Manganese	**7600**		5.0		mg/Kg	☼	10/08/24 16:25	10/09/24 14:52	5
Nickel	**19**		4.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:25	5
Potassium	**510**		49		mg/Kg	☼	09/30/24 17:14	10/01/24 19:06	1
Selenium	<4.9		4.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:25	5
Silver	**2.6**		2.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:25	5
Sodium	<490		490		mg/Kg	☼	09/30/24 17:14	10/04/24 02:25	5
Thallium	**39**		4.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:25	5
Vanadium	**78**		2.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:25	5
Zinc	**70**		10		mg/Kg	☼	10/08/24 16:25	10/09/24 14:52	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.049**		0.017		mg/Kg	☼	10/01/24 17:15	10/02/24 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.6**		0.26		mg/Kg	☼	09/26/24 11:10	09/26/24 14:31	1
pH (SW846 9045D)	**8.60**		0.20		SU			09/23/24 17:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB95 (0-3)
Lab Sample ID: 500-256860-5
Date Collected: 09/16/24 11:17
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 92.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00089		0.0022	0.00089	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
1,1,2,2-Tetrachloroethane	<0.0011	*+	0.0022	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
1,1,2-Trichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
1,1-Dichloroethane	<0.00083		0.0022	0.00083	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
1,1-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
1,2-Dichloroethane	<0.0014		0.0055	0.0014	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
2-Butanone (MEK)	**0.0025**	**J**	0.0055	0.0024	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
2-Hexanone	<0.0033		0.0055	0.0033	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0055	0.0039	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Acetone	<0.0092		0.022	0.0092	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Benzene	<0.00069		0.0022	0.00069	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Bromodichloromethane	<0.00070		0.0022	0.00070	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Bromomethane	<0.0027		0.0055	0.0027	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Carbon disulfide	**0.0064**		0.0055	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Carbon tetrachloride	<0.00075		0.0022	0.00075	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Chlorobenzene	<0.00093		0.0022	0.00093	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Chloroethane	<0.0018		0.0055	0.0018	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
cis-1,2-Dichloroethene	<0.00088		0.0022	0.00088	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Methyl tert-butyl ether	<0.00071		0.0022	0.00071	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Methylene Chloride	<0.0023		0.0055	0.0023	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Styrene	<0.00099		0.0022	0.00099	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Toluene	**0.0018**	**J**	0.0022	0.00044	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Xylenes, Total	**0.0022**	**J**	0.0044	0.00075	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
trans-1,2-Dichloroethene	<0.00083		0.0022	0.00083	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Trichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1
Vinyl chloride	<0.00090		0.0022	0.00090	mg/Kg	☼	09/17/24 17:25	09/20/24 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/17/24 17:25*	*09/20/24 06:08*	*1*
4-Bromofluorobenzene (Surr)	*117*		*75 - 131*	*09/17/24 17:25*	*09/20/24 06:08*	*1*
Dibromofluoromethane	*92*		*75 - 126*	*09/17/24 17:25*	*09/20/24 06:08*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*09/17/24 17:25*	*09/20/24 06:08*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.011		0.053	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Acenaphthylene	**0.018**	**J**	0.053	0.0091	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Anthracene	**0.025**	**J**	0.053	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Benzo[a]anthracene	**0.11**		0.053	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Benzo[a]pyrene	**0.12**		0.053	0.051	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Benzo[b]fluoranthene	**0.23**		0.053	0.051	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Benzo[g,h,i]perylene	**0.091**		0.053	0.012	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB95 (0-3)
Lab Sample ID: 500-256860-5
Date Collected: 09/16/24 11:17
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 92.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.079**		0.053	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Chrysene	**0.15**		0.053	0.014	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Dibenz(a,h)anthracene	<0.053		0.053	0.053	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Fluoranthene	**0.12**		0.053	0.012	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Fluorene	<0.016		0.053	0.016	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Indeno[1,2,3-cd]pyrene	**0.10**		0.053	0.052	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Naphthalene	**0.092**		0.053	0.0097	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Phenanthrene	**0.11**		0.053	0.012	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Pyrene	**0.24**		0.053	0.015	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
1,2,4-Trichlorobenzene	<0.038		0.27	0.038	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
1,2-Dichlorobenzene	<0.022		0.27	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
1,3-Dichlorobenzene	<0.024		0.27	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
1,4-Dichlorobenzene	<0.025		0.27	0.025	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2,4,5-Trichlorophenol	<0.020		0.53	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2,4,6-Trichlorophenol	<0.018		0.53	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2,4-Dichlorophenol	<0.019		0.53	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2,4-Dimethylphenol	<0.12		0.53	0.12	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2,4-Dinitrophenol	<0.31		1.1	0.31	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2,4-Dinitrotoluene	<0.030		0.27	0.030	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2,6-Dinitrotoluene	<0.018		0.27	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2-Chloronaphthalene	<0.020		0.27	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2-Chlorophenol	<0.017		0.27	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2-Methylnaphthalene	**0.13**		0.11	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2-Methylphenol	<0.028		0.27	0.028	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2-Nitroaniline	<0.029		0.27	0.029	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
2-Nitrophenol	<0.036		0.53	0.036	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
3,3'-Dichlorobenzidine	<0.044		0.27	0.044	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
3 & 4 Methylphenol	<0.039		0.27	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
3-Nitroaniline	<0.024		0.53	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
4,6-Dinitro-2-methylphenol	<0.30		1.1	0.30	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
4-Bromophenyl phenyl ether	<0.037		0.27	0.037	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
4-Chloro-3-methylphenol	<0.021		0.53	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
4-Chloroaniline	<0.56		1.1	0.56	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
4-Chlorophenyl phenyl ether	<0.070		0.27	0.070	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
4-Nitroaniline	<0.039		0.53	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
4-Nitrophenol	<0.20		1.1	0.20	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Bis(2-chloroethoxy)methane	<0.020		0.27	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Bis(2-chloroethyl)ether	<0.025		0.27	0.025	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
bis(chloroisopropyl) ether	<0.038		0.27	0.038	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Bis(2-ethylhexyl) phthalate	<0.21		0.27	0.21	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Butyl benzyl phthalate	<0.027		0.27	0.027	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Carbazole	<0.021		0.27	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Dibenzofuran	**0.042**	**J**	0.27	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Diethyl phthalate	<0.024		0.27	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Dimethyl phthalate	<0.012		0.27	0.012	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Di-n-butyl phthalate	<0.017		0.27	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Di-n-octyl phthalate	<0.37		0.53	0.37	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Hexachlorobenzene	<0.010		0.11	0.010	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Hexachlorobutadiene	<0.030		0.27	0.030	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1

Client Sample ID: SB95 (0-3)
Date Collected: 09/16/24 11:17
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-5
Matrix: Solid
Percent Solids: 92.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.57		1.1	0.57	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Hexachloroethane	<0.027		0.27	0.027	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Isophorone	<0.028		0.27	0.028	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Nitrobenzene	<0.017		0.053	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
N-Nitrosodi-n-propylamine	<0.011		0.11	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
N-Nitrosodiphenylamine	<0.032		0.27	0.032	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Pentachlorophenol	<0.13		1.1	0.13	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1
Phenol	<0.023		0.27	0.023	mg/Kg	☼	09/25/24 16:21	09/26/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*51*		*31 - 166*	*09/25/24 16:21*	*09/26/24 15:15*	*1*
Phenol-d5 (Surr)	*53*		*30 - 153*	*09/25/24 16:21*	*09/26/24 15:15*	*1*
Nitrobenzene-d5 (Surr)	*51*		*37 - 147*	*09/25/24 16:21*	*09/26/24 15:15*	*1*
2-Fluorobiphenyl (Surr)	*56*		*43 - 145*	*09/25/24 16:21*	*09/26/24 15:15*	*1*
2,4,6-Tribromophenol (Surr)	*19*	*S1-*	*31 - 143*	*09/25/24 16:21*	*09/26/24 15:15*	*1*
Terphenyl-d14 (Surr)	*60*		*42 - 157*	*09/25/24 16:21*	*09/26/24 15:15*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
4,4'-DDE	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
4,4'-DDT	<0.0087		0.018	0.0087	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
alpha-Chlordane	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
delta-BHC	<0.0087		0.018	0.0087	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Dieldrin	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Endosulfan I	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Endosulfan II	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Endrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Endrin ketone	<0.0089		0.018	0.0089	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
gamma-BHC (Lindane)	<0.0091		0.018	0.0091	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
gamma-Chlordane	<0.011		0.018	0.011	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Heptachlor	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Heptachlor epoxide	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Methoxychlor	<0.012		0.090	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10
Toxaphene	<0.073		0.18	0.073	mg/Kg	☼	09/24/24 15:36	10/04/24 16:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*236*	*S1+*	*33 - 148*	*09/24/24 15:36*	*10/04/24 16:31*	*10*
Tetrachloro-m-xylene	*47*		*30 - 121*	*09/24/24 15:36*	*10/04/24 16:31*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.90		0.90		mg/Kg	☼	09/24/24 15:36	10/03/24 13:17	50
PCB-1221	<0.90		0.90		mg/Kg	☼	09/24/24 15:36	10/03/24 13:17	50

Client Sample ID: SB95 (0-3)
Lab Sample ID: 500-256860-5

Date Collected: 09/16/24 11:17
Matrix: Solid

Date Received: 09/17/24 12:30
Percent Solids: 92.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	**3.0**		0.90		mg/Kg	☼	09/24/24 15:36	10/03/24 13:17	50
PCB-1242	<0.90		0.90		mg/Kg	☼	09/24/24 15:36	10/03/24 13:17	50
PCB-1248	<0.90		0.90		mg/Kg	☼	09/24/24 15:36	10/03/24 13:17	50
PCB-1254	<0.90		0.90		mg/Kg	☼	09/24/24 15:36	10/03/24 13:17	50
PCB-1260	<0.90		0.90		mg/Kg	☼	09/24/24 15:36	10/03/24 13:17	50
Polychlorinated biphenyls, Total	**3.0**		0.90		mg/Kg	☼	09/24/24 15:36	10/03/24 13:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/24/24 15:36*	*10/03/24 13:17*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/24/24 15:36*	*10/03/24 13:17*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17000**		20		mg/Kg	☼	09/30/24 17:14	10/01/24 19:11	1
Antimony	<2.0		2.0		mg/Kg	☼	09/30/24 17:14	10/01/24 19:11	1
Arsenic	**6.2**		1.0		mg/Kg	☼	09/30/24 17:14	10/01/24 19:11	1
Barium	**260**		1.0		mg/Kg	☼	09/30/24 17:14	10/01/24 19:11	1
Beryllium	**4.2**		2.0		mg/Kg	☼	09/30/24 17:14	10/04/24 02:29	5
Cadmium	**0.43**		0.20		mg/Kg	☼	09/30/24 17:14	10/01/24 19:11	1
Calcium	**140000**		100		mg/Kg	☼	09/30/24 17:14	10/04/24 02:29	5
Chromium	**92**		1.0		mg/Kg	☼	09/30/24 17:14	10/01/24 19:11	1
Cobalt	**5.5**		2.6		mg/Kg	☼	09/30/24 17:14	10/04/24 02:29	5
Copper	**31**		1.0		mg/Kg	☼	09/30/24 17:14	10/01/24 19:11	1
Iron	**59000**		98		mg/Kg	☼	10/08/24 16:25	10/09/24 14:56	5
Lead	**52**		2.6		mg/Kg	☼	09/30/24 17:14	10/04/24 02:29	5
Magnesium	**11000**		10		mg/Kg	☼	09/30/24 17:14	10/01/24 19:11	1
Manganese	**5000**		4.9		mg/Kg	☼	10/08/24 16:25	10/09/24 14:56	5
Nickel	**62**		5.1		mg/Kg	☼	09/30/24 17:14	10/04/24 02:29	5
Potassium	**1300**		51		mg/Kg	☼	09/30/24 17:14	10/01/24 19:11	1
Selenium	**3.2**		1.0		mg/Kg	☼	09/30/24 17:14	10/01/24 19:11	1
Silver	<2.6		2.6		mg/Kg	☼	09/30/24 17:14	10/04/24 02:29	5
Sodium	**880**		510		mg/Kg	☼	09/30/24 17:14	10/04/24 02:29	5
Thallium	**28**		5.1		mg/Kg	☼	09/30/24 17:14	10/04/24 02:29	5
Vanadium	**59**		2.6		mg/Kg	☼	09/30/24 17:14	10/04/24 02:29	5
Zinc	**180**		9.8		mg/Kg	☼	10/08/24 16:25	10/09/24 14:56	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.057**		0.017		mg/Kg	☼	10/01/24 17:15	10/02/24 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.0**		0.24		mg/Kg	☼	09/26/24 11:10	09/26/24 14:33	1
pH (SW846 9045D)	**9.28**		0.20		SU			09/23/24 17:36	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB95 (5-7.5)
Lab Sample ID: 500-256860-6
Date Collected: 09/16/24 11:36
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 95.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00077		0.0019	0.00077	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
1,1,2,2-Tetrachloroethane	<0.00094	*+	0.0019	0.00094	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
1,1,2-Trichloroethane	<0.00071		0.0019	0.00071	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
1,1-Dichloroethane	<0.00071		0.0019	0.00071	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
1,1-Dichloroethene	<0.00078		0.0019	0.00078	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
1,2-Dichloroethane	<0.0012		0.0047	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
2-Butanone (MEK)	**0.0084**		0.0047	0.0021	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
2-Hexanone	<0.0029		0.0047	0.0029	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0047	0.0034	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Acetone	**0.027**		0.019	0.0080	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Benzene	**0.00094**	**J**	0.0019	0.00060	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Bromodichloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Bromoform	<0.0011		0.0019	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Bromomethane	<0.0023		0.0047	0.0023	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Carbon disulfide	**0.0041**	**J**	0.0047	0.00087	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Carbon tetrachloride	<0.00065		0.0019	0.00065	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Chlorobenzene	<0.00080		0.0019	0.00080	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Chloroethane	<0.0016		0.0047	0.0016	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Chloroform	<0.0014		0.0019	0.0014	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Chloromethane	<0.00092		0.0047	0.00092	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
cis-1,2-Dichloroethene	<0.00076		0.0019	0.00076	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
1,3-Dichloropropene, Total	<0.00091		0.0019	0.00091	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Dibromochloromethane	<0.00088		0.0019	0.00088	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Ethylbenzene	<0.0010		0.0019	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Methyl tert-butyl ether	<0.00061		0.0019	0.00061	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Methylene Chloride	<0.0020		0.0047	0.0020	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Styrene	<0.00085		0.0019	0.00085	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Tetrachloroethene	<0.0011		0.0019	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Toluene	**0.0014**	**J**	0.0019	0.00038	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Xylenes, Total	**0.0011**	**J**	0.0038	0.00065	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
trans-1,2-Dichloroethene	<0.00072		0.0019	0.00072	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Trichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1
Vinyl chloride	<0.00077		0.0019	0.00077	mg/Kg	☼	09/17/24 17:25	09/20/24 06:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*09/17/24 17:25*	*09/20/24 06:33*	*1*
4-Bromofluorobenzene (Surr)	*118*		*75 - 131*	*09/17/24 17:25*	*09/20/24 06:33*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*09/17/24 17:25*	*09/20/24 06:33*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/17/24 17:25*	*09/20/24 06:33*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0098		0.048	0.0098	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Acenaphthylene	<0.0082		0.048	0.0082	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Anthracene	**0.018**	**J**	0.048	0.0098	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Benzo[a]anthracene	**0.065**		0.048	0.010	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Benzo[a]pyrene	**0.082**		0.048	0.046	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Benzo[b]fluoranthene	**0.16**		0.048	0.046	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Benzo[g,h,i]perylene	**0.094**		0.048	0.010	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB95 (5-7.5)
Lab Sample ID: 500-256860-6
Date Collected: 09/16/24 11:36
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 95.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.050**		0.048	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Chrysene	**0.086**		0.048	0.013	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Dibenz(a,h)anthracene	<0.048		0.048	0.048	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Fluoranthene	**0.072**		0.048	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Fluorene	<0.014		0.048	0.014	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Indeno[1,2,3-cd]pyrene	**0.086**		0.048	0.047	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Naphthalene	**0.083**		0.048	0.0087	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Phenanthrene	**0.12**		0.048	0.010	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Pyrene	**0.093**		0.048	0.013	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
1,2,4-Trichlorobenzene	<0.034		0.24	0.034	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
1,2-Dichlorobenzene	<0.020		0.24	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
1,3-Dichlorobenzene	<0.022		0.24	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
1,4-Dichlorobenzene	<0.023		0.24	0.023	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2,4,5-Trichlorophenol	<0.018		0.48	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2,4,6-Trichlorophenol	<0.016		0.48	0.016	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2,4-Dichlorophenol	<0.017		0.48	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2,4-Dimethylphenol	<0.11		0.48	0.11	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2,4-Dinitrophenol	<0.28		0.97	0.28	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2,4-Dinitrotoluene	<0.027		0.24	0.027	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2,6-Dinitrotoluene	<0.016		0.24	0.016	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2-Chloronaphthalene	<0.018		0.24	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2-Chlorophenol	<0.016		0.24	0.016	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2-Methylnaphthalene	**0.12**		0.097	0.0097	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2-Methylphenol	<0.025		0.24	0.025	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2-Nitroaniline	<0.026		0.24	0.026	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
2-Nitrophenol	<0.033		0.48	0.033	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
3,3'-Dichlorobenzidine	<0.039		0.24	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
3 & 4 Methylphenol	<0.035		0.24	0.035	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
3-Nitroaniline	<0.022		0.48	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
4,6-Dinitro-2-methylphenol	<0.27		0.97	0.27	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
4-Bromophenyl phenyl ether	<0.033		0.24	0.033	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
4-Chloro-3-methylphenol	<0.019		0.48	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
4-Chloroaniline	<0.50		0.97	0.50	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
4-Chlorophenyl phenyl ether	<0.063		0.24	0.063	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
4-Nitroaniline	<0.036		0.48	0.036	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
4-Nitrophenol	<0.18		0.97	0.18	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Bis(2-chloroethoxy)methane	<0.018		0.24	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Bis(2-chloroethyl)ether	<0.022		0.24	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
bis(chloroisopropyl) ether	<0.035		0.24	0.035	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.24	0.19	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Butyl benzyl phthalate	<0.024		0.24	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Carbazole	<0.019		0.24	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Dibenzofuran	**0.039**	**J**	0.24	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Diethyl phthalate	<0.022		0.24	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Dimethyl phthalate	<0.010		0.24	0.010	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Di-n-butyl phthalate	<0.015		0.24	0.015	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Di-n-octyl phthalate	<0.34		0.48	0.34	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Hexachlorobenzene	<0.0092		0.097	0.0092	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Hexachlorobutadiene	<0.027		0.24	0.027	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB95 (5-7.5)
Lab Sample ID: 500-256860-6
Date Collected: 09/16/24 11:36
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 95.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.51		0.97	0.51	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Hexachloroethane	<0.024		0.24	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Isophorone	<0.025		0.24	0.025	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Nitrobenzene	<0.015		0.048	0.015	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
N-Nitrosodi-n-propylamine	<0.0095		0.097	0.0095	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
N-Nitrosodiphenylamine	<0.029		0.24	0.029	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Pentachlorophenol	<0.12		0.97	0.12	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1
Phenol	<0.021		0.24	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*55*		*31 - 166*	*09/25/24 16:21*	*09/26/24 15:40*	*1*
Phenol-d5 (Surr)	*58*		*30 - 153*	*09/25/24 16:21*	*09/26/24 15:40*	*1*
Nitrobenzene-d5 (Surr)	*55*		*37 - 147*	*09/25/24 16:21*	*09/26/24 15:40*	*1*
2-Fluorobiphenyl (Surr)	*63*		*43 - 145*	*09/25/24 16:21*	*09/26/24 15:40*	*1*
2,4,6-Tribromophenol (Surr)	*26*	*S1-*	*31 - 143*	*09/25/24 16:21*	*09/26/24 15:40*	*1*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*09/25/24 16:21*	*09/26/24 15:40*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
4,4'-DDE	<0.0088		0.017	0.0088	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Chlordane (technical)	<0.033		0.068	0.033	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
delta-BHC	<0.0082		0.017	0.0082	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Endosulfan II	<0.0094		0.017	0.0094	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Endosulfan sulfate	<0.0095		0.017	0.0095	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Endrin aldehyde	<0.0098		0.017	0.0098	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Heptachlor	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Methoxychlor	<0.011		0.084	0.011	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/24/24 15:36	10/04/24 16:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*158*	*S1+*	*33 - 148*	*09/24/24 15:36*	*10/04/24 16:43*	*10*
Tetrachloro-m-xylene	*67*		*30 - 121*	*09/24/24 15:36*	*10/04/24 16:43*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.85		0.85		mg/Kg	☼	09/24/24 15:36	10/03/24 13:32	50
PCB-1221	<0.85		0.85		mg/Kg	☼	09/24/24 15:36	10/03/24 13:32	50

Client Sample ID: SB95 (5-7.5)
Date Collected: 09/16/24 11:36
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-6
Matrix: Solid
Percent Solids: 95.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	**2.4**		0.85		mg/Kg	☼	09/24/24 15:36	10/03/24 13:32	50
PCB-1242	<0.85		0.85		mg/Kg	☼	09/24/24 15:36	10/03/24 13:32	50
PCB-1248	<0.85		0.85		mg/Kg	☼	09/24/24 15:36	10/03/24 13:32	50
PCB-1254	<0.85		0.85		mg/Kg	☼	09/24/24 15:36	10/03/24 13:32	50
PCB-1260	<0.85		0.85		mg/Kg	☼	09/24/24 15:36	10/03/24 13:32	50
Polychlorinated biphenyls, Total	**2.4**		0.85		mg/Kg	☼	09/24/24 15:36	10/03/24 13:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/24/24 15:36*	*10/03/24 13:32*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/24/24 15:36*	*10/03/24 13:32*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		19		mg/Kg	☼	09/30/24 17:14	10/01/24 19:15	1
Antimony	<1.9		1.9		mg/Kg	☼	09/30/24 17:14	10/01/24 19:15	1
Arsenic	**15**		4.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:34	5
Barium	**180**		0.95		mg/Kg	☼	09/30/24 17:14	10/01/24 19:15	1
Beryllium	**3.3**		1.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:34	5
Cadmium	<0.95		0.95		mg/Kg	☼	09/30/24 17:14	10/04/24 02:34	5
Calcium	**99000**		95		mg/Kg	☼	09/30/24 17:14	10/04/24 02:34	5
Chromium	**47**		0.95		mg/Kg	☼	09/30/24 17:14	10/01/24 19:15	1
Cobalt	**8.9**		2.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:34	5
Copper	**51**		4.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:34	5
Iron	**150000**		89		mg/Kg	☼	10/08/24 16:25	10/09/24 15:01	5
Lead	**77**		2.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:34	5
Magnesium	**7600**		9.5		mg/Kg	☼	09/30/24 17:14	10/01/24 19:15	1
Manganese	**11000**		4.4		mg/Kg	☼	10/08/24 16:25	10/09/24 15:01	5
Nickel	**36**		4.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:34	5
Potassium	**960**		48		mg/Kg	☼	09/30/24 17:14	10/01/24 19:15	1
Selenium	<4.8		4.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:34	5
Silver	<0.48		0.48		mg/Kg	☼	09/30/24 17:14	10/01/24 19:15	1
Sodium	**670**		480		mg/Kg	☼	09/30/24 17:14	10/04/24 02:34	5
Thallium	**27**		4.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:34	5
Vanadium	**48**		2.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:34	5
Zinc	**140**		8.9		mg/Kg	☼	10/08/24 16:25	10/09/24 15:01	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	10/01/24 17:15	10/02/24 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**7.5**		2.3		mg/Kg	☼	09/26/24 11:10	09/26/24 15:07	10
Sulfide (SW846 9034)	**460**		31		mg/Kg	☼	09/23/24 10:33	09/23/24 11:24	1
pH (SW846 9045D)	**7.56**		0.20		SU			09/23/24 17:38	1

Client Sample ID: SB96 (0-3)
Date Collected: 09/16/24 13:18
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-7
Matrix: Solid
Percent Solids: 90.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00076		0.0019	0.00076	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
1,1,2,2-Tetrachloroethane	<0.00093	*+	0.0019	0.00093	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
1,1,2-Trichloroethane	<0.00070		0.0019	0.00070	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
1,1-Dichloroethane	<0.00071		0.0019	0.00071	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
1,1-Dichloroethene	<0.00077		0.0019	0.00077	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
1,2-Dichloroethane	<0.0012		0.0047	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
1,2-Dichloropropane	<0.00048		0.0019	0.00048	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
2-Butanone (MEK)	**0.0026**	**J**	0.0047	0.0021	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
2-Hexanone	<0.0028		0.0047	0.0028	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
4-Methyl-2-pentanone (MIBK)	<0.0033		0.0047	0.0033	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Acetone	**0.0087**	**J**	0.019	0.0079	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Benzene	<0.00059		0.0019	0.00059	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Bromodichloromethane	<0.00060		0.0019	0.00060	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Bromoform	<0.0011		0.0019	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Bromomethane	<0.0023		0.0047	0.0023	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Carbon disulfide	**0.0084**		0.0047	0.00086	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Carbon tetrachloride	<0.00064		0.0019	0.00064	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Chlorobenzene	<0.00079		0.0019	0.00079	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Chloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Chloroform	<0.0013		0.0019	0.0013	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Chloromethane	<0.00091		0.0047	0.00091	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
cis-1,2-Dichloroethene	<0.00076		0.0019	0.00076	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
1,3-Dichloropropene, Total	<0.00090		0.0019	0.00090	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Dibromochloromethane	<0.00087		0.0019	0.00087	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Ethylbenzene	<0.00098		0.0019	0.00098	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Methyl tert-butyl ether	<0.00060		0.0019	0.00060	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Methylene Chloride	<0.0020		0.0047	0.0020	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Styrene	<0.00084		0.0019	0.00084	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Tetrachloroethene	<0.0011		0.0019	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Toluene	**0.00040**	**J**	0.0019	0.00038	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Xylenes, Total	<0.00064		0.0037	0.00064	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
trans-1,2-Dichloroethene	<0.00071		0.0019	0.00071	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Trichloroethene	<0.00051		0.0019	0.00051	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1
Vinyl chloride	<0.00077		0.0019	0.00077	mg/Kg	☼	09/17/24 17:25	09/20/24 06:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*09/17/24 17:25*	*09/20/24 06:59*	*1*
4-Bromofluorobenzene (Surr)	*122*		*75 - 131*	*09/17/24 17:25*	*09/20/24 06:59*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*09/17/24 17:25*	*09/20/24 06:59*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*	*09/17/24 17:25*	*09/20/24 06:59*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.021		0.10	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Acenaphthylene	**0.032**	**J**	0.10	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Anthracene	**0.046**	**J**	0.10	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Benzo[a]anthracene	**0.22**		0.10	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Benzo[a]pyrene	**0.30**		0.10	0.099	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Benzo[b]fluoranthene	**0.50**		0.10	0.098	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Benzo[g,h,i]perylene	**0.29**		0.10	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2

Client Sample ID: SB96 (0-3)
Date Collected: 09/16/24 13:18
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-7
Matrix: Solid
Percent Solids: 90.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.17**		0.10	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Chrysene	**0.28**		0.10	0.027	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Dibenz(a,h)anthracene	<0.10		0.10	0.10	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Fluoranthene	**0.29**		0.10	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Fluorene	<0.031		0.10	0.031	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Indeno[1,2,3-cd]pyrene	**0.32**		0.10	0.10	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Naphthalene	**0.033**	J	0.10	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Phenanthrene	**0.15**		0.10	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Pyrene	**0.38**		0.10	0.028	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
1,2,4-Trichlorobenzene	<0.074		0.52	0.074	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
1,2-Dichlorobenzene	<0.042		0.52	0.042	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
1,3-Dichlorobenzene	<0.047		0.52	0.047	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
1,4-Dichlorobenzene	<0.049		0.52	0.049	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2,4,5-Trichlorophenol	<0.039		1.0	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2,4,6-Trichlorophenol	<0.035		1.0	0.035	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2,4-Dichlorophenol	<0.036		1.0	0.036	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2,4-Dimethylphenol	<0.23		1.0	0.23	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2,4-Dinitrophenol	<0.60		2.1	0.60	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2,4-Dinitrotoluene	<0.059		0.52	0.059	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2,6-Dinitrotoluene	<0.035		0.52	0.035	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2-Chloronaphthalene	<0.039		0.52	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2-Chlorophenol	<0.033		0.52	0.033	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2-Methylnaphthalene	**0.032**	J	0.21	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2-Methylphenol	<0.054		0.52	0.054	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2-Nitroaniline	<0.055		0.52	0.055	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
2-Nitrophenol	<0.070		1.0	0.070	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
3,3'-Dichlorobenzidine	<0.084		0.52	0.084	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
3 & 4 Methylphenol	<0.076		0.52	0.076	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
3-Nitroaniline	<0.047		1.0	0.047	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
4,6-Dinitro-2-methylphenol	<0.58		2.1	0.58	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
4-Bromophenyl phenyl ether	<0.071		0.52	0.071	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
4-Chloro-3-methylphenol	<0.040		1.0	0.040	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
4-Chloroaniline	<1.1		2.1	1.1	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
4-Chlorophenyl phenyl ether	<0.14		0.52	0.14	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
4-Nitroaniline	<0.076		1.0	0.076	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
4-Nitrophenol	<0.38		2.1	0.38	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Bis(2-chloroethoxy)methane	<0.039		0.52	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Bis(2-chloroethyl)ether	<0.048		0.52	0.048	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
bis(chloroisopropyl) ether	<0.074		0.52	0.074	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Bis(2-ethylhexyl) phthalate	<0.40		0.52	0.40	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Butyl benzyl phthalate	<0.051		0.52	0.051	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Carbazole	<0.041		0.52	0.041	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Dibenzofuran	<0.037		0.52	0.037	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Diethyl phthalate	<0.047		0.52	0.047	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Dimethyl phthalate	<0.022		0.52	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Di-n-butyl phthalate	<0.033		0.52	0.033	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Di-n-octyl phthalate	<0.72		1.0	0.72	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Hexachlorobenzene	<0.020		0.21	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Hexachlorobutadiene	<0.058		0.52	0.058	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB96 (0-3)
Lab Sample ID: 500-256860-7
Date Collected: 09/16/24 13:18
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 90.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.1		2.1	1.1	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Hexachloroethane	<0.052		0.52	0.052	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Isophorone	<0.053		0.52	0.053	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Nitrobenzene	<0.033		0.10	0.033	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
N-Nitrosodi-n-propylamine	<0.020		0.21	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
N-Nitrosodiphenylamine	<0.061		0.52	0.061	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Pentachlorophenol	<0.26		2.1	0.26	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2
Phenol	<0.045		0.52	0.045	mg/Kg	☼	09/25/24 16:21	09/26/24 19:26	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*43*		*31 - 166*	*09/25/24 16:21*	*09/26/24 19:26*	*2*
Phenol-d5 (Surr)	*47*		*30 - 153*	*09/25/24 16:21*	*09/26/24 19:26*	*2*
Nitrobenzene-d5 (Surr)	*46*		*37 - 147*	*09/25/24 16:21*	*09/26/24 19:26*	*2*
2-Fluorobiphenyl (Surr)	*49*		*43 - 145*	*09/25/24 16:21*	*09/26/24 19:26*	*2*
2,4,6-Tribromophenol (Surr)	*8*	*S1-*	*31 - 143*	*09/25/24 16:21*	*09/26/24 19:26*	*2*
Terphenyl-d14 (Surr)	*50*		*42 - 157*	*09/25/24 16:21*	*09/26/24 19:26*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
alpha-Chlordane	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Chlordane (technical)	<0.034		0.070	0.034	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
delta-BHC	<0.0085		0.018	0.0085	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Dieldrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Endosulfan I	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Endosulfan sulfate	<0.0098		0.018	0.0098	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Heptachlor	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/24/24 15:36	10/04/24 16:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*290*	*S1+*	*33 - 148*	*09/24/24 15:36*	*10/04/24 16:55*	*10*
Tetrachloro-m-xylene	*78*		*30 - 121*	*09/24/24 15:36*	*10/04/24 16:55*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:17	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:17	10

Client Sample ID: SB96 (0-3)
Lab Sample ID: 500-256860-7
Date Collected: 09/16/24 13:18
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 90.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:17	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:17	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:17	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:17	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:17	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*53*		*49 - 129*	*09/24/24 15:36*	*09/30/24 19:17*	*10*
DCB Decachlorobiphenyl	*67*		*37 - 121*	*09/24/24 15:36*	*09/30/24 19:17*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		20		mg/Kg	☼	09/30/24 17:14	10/01/24 19:20	1
Antimony	<2.0		2.0		mg/Kg	☼	09/30/24 17:14	10/01/24 19:20	1
Arsenic	**11**		5.1		mg/Kg	☼	09/30/24 17:14	10/04/24 02:39	5
Barium	**190**		1.0		mg/Kg	☼	09/30/24 17:14	10/01/24 19:20	1
Beryllium	**4.1**		2.0		mg/Kg	☼	09/30/24 17:14	10/04/24 02:39	5
Cadmium	**0.42**		0.20		mg/Kg	☼	09/30/24 17:14	10/01/24 19:20	1
Calcium	**160000**		100		mg/Kg	☼	09/30/24 17:14	10/04/24 02:39	5
Chromium	**370**		5.1		mg/Kg	☼	09/30/24 17:14	10/04/24 02:39	5
Cobalt	**6.9**		2.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:39	5
Copper	**42**		1.0		mg/Kg	☼	09/30/24 17:14	10/01/24 19:20	1
Iron	**74000**		96		mg/Kg	☼	10/08/24 16:25	10/09/24 15:05	5
Lead	**54**		2.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:39	5
Magnesium	**12000**		10		mg/Kg	☼	09/30/24 17:14	10/01/24 19:20	1
Manganese	**9400**		4.8		mg/Kg	☼	10/08/24 16:25	10/09/24 15:05	5
Nickel	**90**		5.1		mg/Kg	☼	09/30/24 17:14	10/04/24 02:39	5
Potassium	**1300**		51		mg/Kg	☼	09/30/24 17:14	10/01/24 19:20	1
Selenium	**3.9**		1.0		mg/Kg	☼	09/30/24 17:14	10/01/24 19:20	1
Silver	<0.51		0.51		mg/Kg	☼	09/30/24 17:14	10/01/24 19:20	1
Sodium	**820**		510		mg/Kg	☼	09/30/24 17:14	10/04/24 02:39	5
Thallium	**39**		5.1		mg/Kg	☼	09/30/24 17:14	10/04/24 02:39	5
Vanadium	**110**		2.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:39	5
Zinc	**160**		9.6		mg/Kg	☼	10/08/24 16:25	10/09/24 15:05	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.059**		0.018		mg/Kg	☼	10/01/24 17:15	10/02/24 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**12**		2.6		mg/Kg	☼	09/26/24 14:50	09/27/24 13:22	10
pH (SW846 9045D)	**10.49**		0.20		SU			09/23/24 17:41	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB96 (7.5-10)
Lab Sample ID: 500-256860-8
Date Collected: 09/16/24 13:44
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 90.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00092		0.0023	0.00092	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
1,1,2,2-Tetrachloroethane	<0.0011	*+	0.0023	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
1,1,2-Trichloroethane	<0.00085		0.0023	0.00085	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
1,1-Dichloroethane	<0.00085		0.0023	0.00085	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
1,1-Dichloroethene	<0.00093		0.0023	0.00093	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
1,2-Dichloroethane	<0.0015		0.0057	0.0015	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
1,2-Dichloropropane	<0.00059		0.0023	0.00059	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
2-Butanone (MEK)	**0.0059**		0.0057	0.0025	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
2-Hexanone	<0.0034		0.0057	0.0034	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0057	0.0040	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Acetone	**0.040**		0.023	0.0095	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Benzene	<0.00071		0.0023	0.00071	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Bromodichloromethane	<0.00073		0.0023	0.00073	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Bromomethane	<0.0028		0.0057	0.0028	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Carbon disulfide	**0.011**		0.0057	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Carbon tetrachloride	<0.00077		0.0023	0.00077	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Chlorobenzene	<0.00096		0.0023	0.00096	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Chloroethane	<0.0019		0.0057	0.0019	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Chloroform	<0.0016		0.0023	0.0016	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Chloromethane	<0.0011		0.0057	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
cis-1,2-Dichloroethene	<0.00091		0.0023	0.00091	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Methyl tert-butyl ether	<0.00073		0.0023	0.00073	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Methylene Chloride	<0.0024		0.0057	0.0024	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Toluene	<0.00046		0.0023	0.00046	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Xylenes, Total	<0.00078		0.0045	0.00078	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
trans-1,2-Dichloroethene	<0.00086		0.0023	0.00086	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Trichloroethene	<0.00062		0.0023	0.00062	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1
Vinyl chloride	<0.00093		0.0023	0.00093	mg/Kg	☼	09/17/24 17:25	09/20/24 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*09/17/24 17:25*	*09/20/24 07:24*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*09/17/24 17:25*	*09/20/24 07:24*	*1*
Dibromofluoromethane	*55*	*S1-*	*75 - 126*	*09/17/24 17:25*	*09/20/24 07:24*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*09/17/24 17:25*	*09/20/24 07:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.050	0.010	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Acenaphthylene	<0.0085		0.050	0.0085	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Anthracene	**0.011**	**J**	0.050	0.010	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Benzo[a]anthracene	**0.054**		0.050	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Benzo[a]pyrene	**0.076**		0.050	0.048	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Benzo[b]fluoranthene	**0.13**		0.050	0.048	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Benzo[g,h,i]perylene	**0.078**		0.050	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB96 (7.5-10)
Lab Sample ID: 500-256860-8
Date Collected: 09/16/24 13:44
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 90.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.035**	**J**	0.050	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Chrysene	**0.063**		0.050	0.013	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Dibenz(a,h)anthracene	<0.050		0.050	0.050	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Fluoranthene	**0.060**		0.050	0.012	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Fluorene	<0.015		0.050	0.015	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Indeno[1,2,3-cd]pyrene	**0.067**		0.050	0.049	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Naphthalene	**0.014**	**J**	0.050	0.0091	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Phenanthrene	**0.048**	**J**	0.050	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Pyrene	**0.099**		0.050	0.014	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
1,2,4-Trichlorobenzene	<0.036		0.25	0.036	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
1,2-Dichlorobenzene	<0.020		0.25	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
1,3-Dichlorobenzene	<0.023		0.25	0.023	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
1,4-Dichlorobenzene	<0.024		0.25	0.024	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2,4,5-Trichlorophenol	<0.019		0.50	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2,4,6-Trichlorophenol	<0.017		0.50	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2,4-Dichlorophenol	<0.018		0.50	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2,4-Dimethylphenol	<0.11		0.50	0.11	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2,4-Dinitrophenol	<0.29		1.0	0.29	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2,4-Dinitrotoluene	<0.029		0.25	0.029	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2,6-Dinitrotoluene	<0.017		0.25	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2-Chloronaphthalene	<0.019		0.25	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2-Chlorophenol	<0.016		0.25	0.016	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2-Methylnaphthalene	**0.021**	**J**	0.10	0.010	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2-Methylphenol	<0.026		0.25	0.026	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2-Nitroaniline	<0.027		0.25	0.027	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
2-Nitrophenol	<0.034		0.50	0.034	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
3,3'-Dichlorobenzidine	<0.041		0.25	0.041	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
3 & 4 Methylphenol	<0.037		0.25	0.037	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
3-Nitroaniline	<0.023		0.50	0.023	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
4,6-Dinitro-2-methylphenol	<0.28		1.0	0.28	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
4-Bromophenyl phenyl ether	<0.034		0.25	0.034	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
4-Chloro-3-methylphenol	<0.019		0.50	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
4-Chloroaniline	<0.53		1.0	0.53	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
4-Chlorophenyl phenyl ether	<0.066		0.25	0.066	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
4-Nitroaniline	<0.037		0.50	0.037	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
4-Nitrophenol	<0.19		1.0	0.19	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Bis(2-chloroethoxy)methane	<0.019		0.25	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Bis(2-chloroethyl)ether	<0.023		0.25	0.023	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
bis(chloroisopropyl) ether	<0.036		0.25	0.036	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.25	0.20	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Butyl benzyl phthalate	<0.025		0.25	0.025	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Carbazole	<0.020		0.25	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Dibenzofuran	<0.018		0.25	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Diethyl phthalate	<0.023		0.25	0.023	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Dimethyl phthalate	<0.011		0.25	0.011	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Di-n-butyl phthalate	<0.016		0.25	0.016	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Di-n-octyl phthalate	<0.35		0.50	0.35	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Hexachlorobenzene	<0.0096		0.10	0.0096	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Hexachlorobutadiene	<0.028		0.25	0.028	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB96 (7.5-10)
Lab Sample ID: 500-256860-8
Date Collected: 09/16/24 13:44
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 90.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.53		1.0	0.53	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Hexachloroethane	<0.025		0.25	0.025	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Isophorone	<0.026		0.25	0.026	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Nitrobenzene	<0.016		0.050	0.016	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
N-Nitrosodi-n-propylamine	<0.0099		0.10	0.0099	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
N-Nitrosodiphenylamine	<0.030		0.25	0.030	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Pentachlorophenol	<0.13		1.0	0.13	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1
Phenol	<0.022		0.25	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*18*	*S1-*	*31 - 166*	*09/25/24 16:21*	*09/26/24 16:05*	*1*
Phenol-d5 (Surr)	*56*		*30 - 153*	*09/25/24 16:21*	*09/26/24 16:05*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*09/25/24 16:21*	*09/26/24 16:05*	*1*
2-Fluorobiphenyl (Surr)	*70*		*43 - 145*	*09/25/24 16:21*	*09/26/24 16:05*	*1*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/25/24 16:21*	*09/26/24 16:05*	*1*
Terphenyl-d14 (Surr)	*71*		*42 - 157*	*09/25/24 16:21*	*09/26/24 16:05*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
4,4'-DDE	<0.0093		0.018	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
4,4'-DDT	<0.0085		0.018	0.0085	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
alpha-Chlordane	<0.0096		0.018	0.0096	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
delta-BHC	<0.0086		0.018	0.0086	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Dieldrin	<0.0094		0.018	0.0094	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Endosulfan I	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Endosulfan II	<0.0099		0.018	0.0099	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Endrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Endrin ketone	<0.0088		0.018	0.0088	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
gamma-BHC (Lindane)	<0.0090		0.018	0.0090	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Heptachlor	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Heptachlor epoxide	<0.0097		0.018	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Methoxychlor	<0.012		0.089	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/24/24 15:36	10/04/24 17:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*143*		*33 - 148*	*09/24/24 15:36*	*10/04/24 17:06*	*10*
Tetrachloro-m-xylene	*67*		*30 - 121*	*09/24/24 15:36*	*10/04/24 17:06*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:32	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:32	10

Client Sample ID: SB96 (7.5-10)
Lab Sample ID: 500-256860-8
Date Collected: 09/16/24 13:44
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 90.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:32	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:32	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:32	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:32	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:32	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/24/24 15:36	09/30/24 19:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*09/24/24 15:36*	*09/30/24 19:32*	*10*
DCB Decachlorobiphenyl	*62*		*37 - 121*	*09/24/24 15:36*	*09/30/24 19:32*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		19		mg/Kg	☼	09/30/24 17:14	10/01/24 19:24	1
Antimony	<1.9		1.9		mg/Kg	☼	09/30/24 17:14	10/01/24 19:24	1
Arsenic	**4.0**		0.96		mg/Kg	☼	09/30/24 17:14	10/01/24 19:24	1
Barium	**440**		0.96		mg/Kg	☼	09/30/24 17:14	10/01/24 19:24	1
Beryllium	**3.6**		1.9		mg/Kg	☼	09/30/24 17:14	10/04/24 02:43	5
Cadmium	**0.25**		0.19		mg/Kg	☼	09/30/24 17:14	10/01/24 19:24	1
Calcium	**170000**		96		mg/Kg	☼	09/30/24 17:14	10/04/24 02:43	5
Chromium	**43**		0.96		mg/Kg	☼	09/30/24 17:14	10/01/24 19:24	1
Cobalt	**3.4**		2.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:43	5
Copper	**19**		0.96		mg/Kg	☼	09/30/24 17:14	10/01/24 19:24	1
Iron	**27000**		100		mg/Kg	☼	10/08/24 16:25	10/09/24 15:19	5
Lead	**24**		2.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:43	5
Magnesium	**21000**		9.6		mg/Kg	☼	09/30/24 17:14	10/01/24 19:24	1
Manganese	**5300**		5.2		mg/Kg	☼	10/08/24 16:25	10/09/24 15:19	5
Nickel	**10**		4.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:43	5
Potassium	**1100**		48		mg/Kg	☼	09/30/24 17:14	10/01/24 19:24	1
Selenium	**3.2**		0.96		mg/Kg	☼	09/30/24 17:14	10/01/24 19:24	1
Silver	<0.48		0.48		mg/Kg	☼	09/30/24 17:14	10/01/24 19:24	1
Sodium	**650**		480		mg/Kg	☼	09/30/24 17:14	10/04/24 02:43	5
Thallium	**30**		4.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:43	5
Vanadium	**42**		2.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:43	5
Zinc	**100**		10		mg/Kg	☼	10/08/24 16:25	10/09/24 15:19	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.030**		0.017		mg/Kg	☼	10/01/24 17:15	10/02/24 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.3**		0.26		mg/Kg	☼	09/26/24 14:50	09/27/24 12:07	1
pH (SW846 9045D)	**13.17**		0.20		SU			09/23/24 18:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB97 (0-3)
Lab Sample ID: 500-256860-9
Date Collected: 09/16/24 14:30
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 95.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00065		0.0016	0.00065	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
1,1,2,2-Tetrachloroethane	<0.00080	*+	0.0016	0.00080	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
1,1,2-Trichloroethane	<0.00060		0.0016	0.00060	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
1,1-Dichloroethane	<0.00060		0.0016	0.00060	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
1,1-Dichloroethene	<0.00066		0.0016	0.00066	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
1,2-Dichloroethane	<0.0010		0.0040	0.0010	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
1,2-Dichloropropane	<0.00041		0.0016	0.00041	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
2-Butanone (MEK)	**0.0046**		0.0040	0.0018	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
2-Hexanone	<0.0024		0.0040	0.0024	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
4-Methyl-2-pentanone (MIBK)	<0.0028		0.0040	0.0028	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Acetone	**0.020**		0.016	0.0067	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Benzene	<0.00050		0.0016	0.00050	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Bromodichloromethane	<0.00051		0.0016	0.00051	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Bromoform	<0.00094		0.0016	0.00094	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Bromomethane	<0.0020		0.0040	0.0020	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Carbon disulfide	**0.0020**	**J**	0.0040	0.00074	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Carbon tetrachloride	<0.00055		0.0016	0.00055	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Chlorobenzene	<0.00068		0.0016	0.00068	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Chloroethane	<0.0013		0.0040	0.0013	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Chloroform	<0.0012		0.0016	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Chloromethane	<0.00078		0.0040	0.00078	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
cis-1,2-Dichloroethene	<0.00065		0.0016	0.00065	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
1,3-Dichloropropene, Total	<0.00077		0.0016	0.00077	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Dibromochloromethane	<0.00074		0.0016	0.00074	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Ethylbenzene	<0.00084		0.0016	0.00084	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Methyl tert-butyl ether	<0.00052		0.0016	0.00052	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Methylene Chloride	<0.0017		0.0040	0.0017	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Styrene	<0.00072		0.0016	0.00072	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Tetrachloroethene	<0.00090		0.0016	0.00090	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Toluene	<0.00032		0.0016	0.00032	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Xylenes, Total	<0.00055		0.0032	0.00055	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
trans-1,2-Dichloroethene	<0.00061		0.0016	0.00061	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Trichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1
Vinyl chloride	<0.00065		0.0016	0.00065	mg/Kg	☼	09/17/24 17:25	09/20/24 07:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*09/17/24 17:25*	*09/20/24 07:50*	*1*
4-Bromofluorobenzene (Surr)	*122*		*75 - 131*	*09/17/24 17:25*	*09/20/24 07:50*	*1*
Dibromofluoromethane	*92*		*75 - 126*	*09/17/24 17:25*	*09/20/24 07:50*	*1*
Toluene-d8 (Surr)	*111*		*75 - 124*	*09/17/24 17:25*	*09/20/24 07:50*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.014**	**J**	0.050	0.010	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Acenaphthylene	**0.016**	**J**	0.050	0.0086	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Anthracene	**0.030**	**J**	0.050	0.010	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Benzo[a]anthracene	**0.091**		0.050	0.011	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Benzo[a]pyrene	**0.059**		0.050	0.049	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Benzo[b]fluoranthene	**0.12**		0.050	0.048	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Benzo[g,h,i]perylene	**0.040**	**J**	0.050	0.011	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1

Client Sample ID: SB97 (0-3)
Date Collected: 09/16/24 14:30
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-9
Matrix: Solid
Percent Solids: 95.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.038**	**J**	0.050	0.019	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Chrysene	**0.13**		0.050	0.013	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Dibenz(a,h)anthracene	<0.050		0.050	0.050	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Fluoranthene	**0.22**		0.050	0.012	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Fluorene	<0.015		0.050	0.015	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Indeno[1,2,3-cd]pyrene	<0.049		0.050	0.049	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Naphthalene	**0.035**	**J**	0.050	0.0092	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Phenanthrene	**0.16**		0.050	0.011	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Pyrene	**0.19**		0.050	0.014	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
1,2,4-Trichlorobenzene	<0.036		0.25	0.036	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
1,2-Dichlorobenzene	<0.021		0.25	0.021	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
1,3-Dichlorobenzene	<0.023		0.25	0.023	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
1,4-Dichlorobenzene	<0.024		0.25	0.024	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2,4,5-Trichlorophenol	<0.019		0.50	0.019	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2,4,6-Trichlorophenol	<0.017		0.50	0.017	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2,4-Dichlorophenol	<0.018		0.50	0.018	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2,4-Dimethylphenol	<0.11		0.50	0.11	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2,4-Dinitrophenol	<0.29		1.0	0.29	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2,4-Dinitrotoluene	<0.029		0.25	0.029	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2,6-Dinitrotoluene	<0.017		0.25	0.017	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2-Chloronaphthalene	<0.019		0.25	0.019	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2-Chlorophenol	<0.016		0.25	0.016	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2-Methylnaphthalene	**0.024**	**J**	0.10	0.010	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2-Methylphenol	<0.027		0.25	0.027	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2-Nitroaniline	<0.027		0.25	0.027	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
2-Nitrophenol	<0.034		0.50	0.034	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
3,3'-Dichlorobenzidine	<0.041		0.25	0.041	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
3 & 4 Methylphenol	<0.037		0.25	0.037	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
3-Nitroaniline	<0.023		0.50	0.023	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
4,6-Dinitro-2-methylphenol	<0.29		1.0	0.29	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
4-Bromophenyl phenyl ether	<0.035		0.25	0.035	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
4-Chloro-3-methylphenol	<0.020		0.50	0.020	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
4-Chloroaniline	<0.53		1.0	0.53	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
4-Chlorophenyl phenyl ether	<0.066		0.25	0.066	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
4-Nitroaniline	<0.037		0.50	0.037	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
4-Nitrophenol	<0.19		1.0	0.19	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Bis(2-chloroethoxy)methane	<0.019		0.25	0.019	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Bis(2-chloroethyl)ether	<0.023		0.25	0.023	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
bis(chloroisopropyl) ether	<0.036		0.25	0.036	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.25	0.20	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Butyl benzyl phthalate	<0.025		0.25	0.025	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Carbazole	<0.020		0.25	0.020	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Dibenzofuran	**0.019**	**J**	0.25	0.018	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Diethyl phthalate	<0.023		0.25	0.023	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Dimethyl phthalate	<0.011		0.25	0.011	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Di-n-butyl phthalate	<0.016		0.25	0.016	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Di-n-octyl phthalate	<0.35		0.50	0.35	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Hexachlorobenzene	<0.0097		0.10	0.0097	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Hexachlorobutadiene	<0.029		0.25	0.029	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1

Client Sample ID: SB97 (0-3)
Date Collected: 09/16/24 14:30
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-9
Matrix: Solid
Percent Solids: 95.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.54		1.0	0.54	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Hexachloroethane	<0.025		0.25	0.025	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Isophorone	**0.050**	**J**	0.25	0.026	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Nitrobenzene	<0.016		0.050	0.016	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
N-Nitrosodi-n-propylamine	<0.010		0.10	0.010	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
N-Nitrosodiphenylamine	<0.030		0.25	0.030	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Pentachlorophenol	<0.13		1.0	0.13	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1
Phenol	<0.022		0.25	0.022	mg/Kg	☼	09/25/24 16:21	09/30/24 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*31 - 166*	*09/25/24 16:21*	*09/30/24 22:45*	*1*
Phenol-d5 (Surr)	*53*		*30 - 153*	*09/25/24 16:21*	*09/30/24 22:45*	*1*
Nitrobenzene-d5 (Surr)	*55*		*37 - 147*	*09/25/24 16:21*	*09/30/24 22:45*	*1*
2-Fluorobiphenyl (Surr)	*63*		*43 - 145*	*09/25/24 16:21*	*09/30/24 22:45*	*1*
2,4,6-Tribromophenol (Surr)	*9*	*S1-*	*31 - 143*	*09/25/24 16:21*	*09/30/24 22:45*	*1*
Terphenyl-d14 (Surr)	*61*		*42 - 157*	*09/25/24 16:21*	*09/30/24 22:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
alpha-BHC	<0.0098		0.017	0.0098	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
alpha-Chlordane	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
delta-BHC	<0.0083		0.017	0.0083	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Dieldrin	<0.0091		0.017	0.0091	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Endosulfan I	<0.0094		0.017	0.0094	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Endosulfan II	<0.0095		0.017	0.0095	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Endosulfan sulfate	<0.0096		0.017	0.0096	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Endrin aldehyde	<0.0099		0.017	0.0099	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
gamma-Chlordane	<0.010		0.017	0.010	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Heptachlor	<0.0094		0.017	0.0094	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/24/24 15:36	10/04/24 17:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*171*	*S1+*	*33 - 148*	*09/24/24 15:36*	*10/04/24 17:18*	*10*
Tetrachloro-m-xylene	*104*		*30 - 121*	*09/24/24 15:36*	*10/04/24 17:18*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 19:48	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 19:48	10

Client Sample ID: SB97 (0-3)
Date Collected: 09/16/24 14:30
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-9
Matrix: Solid
Percent Solids: 95.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 19:48	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 19:48	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 19:48	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 19:48	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 19:48	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 19:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*54*		*49 - 129*	*09/24/24 15:36*	*09/30/24 19:48*	*10*
DCB Decachlorobiphenyl	*65*		*37 - 121*	*09/24/24 15:36*	*09/30/24 19:48*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7200**		18		mg/Kg	☼	09/30/24 17:14	10/01/24 19:38	1
Antimony	<1.8		1.8		mg/Kg	☼	09/30/24 17:14	10/01/24 19:38	1
Arsenic	**11**		4.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:48	5
Barium	**110**		0.91		mg/Kg	☼	09/30/24 17:14	10/01/24 19:38	1
Beryllium	<1.8		1.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:48	5
Cadmium	<0.91		0.91		mg/Kg	☼	09/30/24 17:14	10/04/24 02:48	5
Calcium	**40000**		18		mg/Kg	☼	09/30/24 17:14	10/01/24 19:38	1
Chromium	**120**		0.91		mg/Kg	☼	09/30/24 17:14	10/01/24 19:38	1
Cobalt	**7.6**		2.3		mg/Kg	☼	09/30/24 17:14	10/04/24 02:48	5
Copper	**190**		4.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:48	5
Iron	**120000**		100		mg/Kg	☼	10/08/24 16:25	10/09/24 15:23	5
Lead	**80**		2.3		mg/Kg	☼	09/30/24 17:14	10/04/24 02:48	5
Magnesium	**6000**		9.1		mg/Kg	☼	09/30/24 17:14	10/01/24 19:38	1
Manganese	**10000**		5.1		mg/Kg	☼	10/08/24 16:25	10/09/24 15:23	5
Nickel	**45**		4.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:48	5
Potassium	**740**		45		mg/Kg	☼	09/30/24 17:14	10/01/24 19:38	1
Selenium	<4.5		4.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:48	5
Silver	<0.45		0.45		mg/Kg	☼	09/30/24 17:14	10/01/24 19:38	1
Sodium	**480**		450		mg/Kg	☼	09/30/24 17:14	10/04/24 02:48	5
Thallium	**33**		4.5		mg/Kg	☼	09/30/24 17:14	10/04/24 02:48	5
Vanadium	**52**		2.3		mg/Kg	☼	09/30/24 17:14	10/04/24 02:48	5
Zinc	**140**		10		mg/Kg	☼	10/08/24 16:25	10/09/24 15:23	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.057**		0.017		mg/Kg	☼	10/01/24 17:15	10/02/24 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.8**		0.24		mg/Kg	☼	09/26/24 14:50	09/27/24 12:09	1
pH (SW846 9045D)	**9.70**		0.20		SU			09/23/24 18:03	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB97 (5-7.5)
Lab Sample ID: 500-256860-10
Date Collected: 09/16/24 14:59
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 96.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0012		0.0028	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
1,1,2,2-Tetrachloroethane	<0.0014	*+	0.0028	0.0014	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
1,1,2-Trichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
1,1-Dichloroethane	<0.0011		0.0028	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
1,1-Dichloroethene	<0.0012		0.0028	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
1,2-Dichloroethane	<0.0018		0.0071	0.0018	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
1,2-Dichloropropane	<0.00073		0.0028	0.00073	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
2-Butanone (MEK)	<0.0031		0.0071	0.0031	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
2-Hexanone	<0.0043		0.0071	0.0043	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0071	0.0051	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Acetone	<0.012		0.028	0.012	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Benzene	<0.00089		0.0028	0.00089	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Bromodichloromethane	<0.00091		0.0028	0.00091	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Bromoform	<0.0017		0.0028	0.0017	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Bromomethane	<0.0035		0.0071	0.0035	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Carbon disulfide	<0.0013		0.0071	0.0013	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Carbon tetrachloride	<0.00097		0.0028	0.00097	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Chlorobenzene	<0.0012		0.0028	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Chloroethane	<0.0023		0.0071	0.0023	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Chloroform	<0.0020		0.0028	0.0020	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Chloromethane	<0.0014		0.0071	0.0014	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
cis-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
1,3-Dichloropropene, Total	<0.0014		0.0028	0.0014	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Dibromochloromethane	<0.0013		0.0028	0.0013	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Ethylbenzene	<0.0015		0.0028	0.0015	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Methyl tert-butyl ether	<0.00092		0.0028	0.00092	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Methylene Chloride	<0.0030		0.0071	0.0030	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Styrene	<0.0013		0.0028	0.0013	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Tetrachloroethene	<0.0016		0.0028	0.0016	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Toluene	<0.00057		0.0028	0.00057	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Xylenes, Total	<0.00097		0.0057	0.00097	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
trans-1,2-Dichloroethene	<0.0011		0.0028	0.0011	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Trichloroethene	<0.00077		0.0028	0.00077	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1
Vinyl chloride	<0.0012		0.0028	0.0012	mg/Kg	☼	09/17/24 17:25	09/20/24 08:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*09/17/24 17:25*	*09/20/24 08:15*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*09/17/24 17:25*	*09/20/24 08:15*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*09/17/24 17:25*	*09/20/24 08:15*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*09/17/24 17:25*	*09/20/24 08:15*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.029**	**J**	0.099	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Acenaphthylene	**0.034**	**J**	0.099	0.017	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Anthracene	**0.062**	**J**	0.099	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Benzo[a]anthracene	**0.22**		0.099	0.021	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Benzo[a]pyrene	**0.21**		0.099	0.096	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Benzo[b]fluoranthene	**0.37**		0.099	0.095	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Benzo[g,h,i]perylene	**0.19**		0.099	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB97 (5-7.5)
Lab Sample ID: 500-256860-10
Date Collected: 09/16/24 14:59
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 96.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.13**		0.099	0.038	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Chrysene	**0.26**		0.099	0.026	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Dibenz(a,h)anthracene	<0.099		0.099	0.099	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Fluoranthene	**0.40**		0.099	0.023	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Fluorene	<0.030		0.099	0.030	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Indeno[1,2,3-cd]pyrene	**0.17**		0.099	0.097	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Naphthalene	**0.051**	J	0.099	0.018	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Phenanthrene	**0.26**		0.099	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Pyrene	**0.41**		0.099	0.027	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
1,2,4-Trichlorobenzene	<0.071		0.50	0.071	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
1,2-Dichlorobenzene	<0.041		0.50	0.041	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
1,3-Dichlorobenzene	<0.045		0.50	0.045	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
1,4-Dichlorobenzene	<0.047		0.50	0.047	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2,4,5-Trichlorophenol	<0.038		0.99	0.038	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2,4,6-Trichlorophenol	<0.034		0.99	0.034	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2,4-Dichlorophenol	<0.035		0.99	0.035	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2,4-Dimethylphenol	<0.22		0.99	0.22	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2,4-Dinitrophenol	<0.58		2.0	0.58	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2,4-Dinitrotoluene	<0.057		0.50	0.057	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2,6-Dinitrotoluene	<0.034		0.50	0.034	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2-Chloronaphthalene	<0.037		0.50	0.037	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2-Chlorophenol	<0.032		0.50	0.032	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2-Methylnaphthalene	**0.035**	J	0.20	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2-Methylphenol	<0.053		0.50	0.053	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2-Nitroaniline	<0.054		0.50	0.054	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
2-Nitrophenol	<0.068		0.99	0.068	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
3,3'-Dichlorobenzidine	<0.082		0.50	0.082	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
3 & 4 Methylphenol	<0.073		0.50	0.073	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
3-Nitroaniline	<0.046		0.99	0.046	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
4,6-Dinitro-2-methylphenol	<0.56		2.0	0.56	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
4-Bromophenyl phenyl ether	<0.068		0.50	0.068	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
4-Chloro-3-methylphenol	<0.039		0.99	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
4-Chloroaniline	<1.0		2.0	1.0	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
4-Chlorophenyl phenyl ether	<0.13		0.50	0.13	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
4-Nitroaniline	<0.074		0.99	0.074	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
4-Nitrophenol	<0.37		2.0	0.37	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Bis(2-chloroethoxy)methane	<0.037		0.50	0.037	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Bis(2-chloroethyl)ether	<0.046		0.50	0.046	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
bis(chloroisopropyl) ether	<0.072		0.50	0.072	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Bis(2-ethylhexyl) phthalate	<0.39		0.50	0.39	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Butyl benzyl phthalate	<0.050		0.50	0.050	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Carbazole	<0.039		0.50	0.039	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Dibenzofuran	<0.036		0.50	0.036	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Diethyl phthalate	<0.046		0.50	0.046	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Dimethyl phthalate	<0.022		0.50	0.022	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Di-n-butyl phthalate	<0.032		0.50	0.032	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Di-n-octyl phthalate	<0.70		0.99	0.70	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Hexachlorobenzene	<0.019		0.20	0.019	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Hexachlorobutadiene	<0.056		0.50	0.056	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2

Client Sample ID: SB97 (5-7.5)
Date Collected: 09/16/24 14:59
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-10
Matrix: Solid
Percent Solids: 96.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.1		2.0	1.1	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Hexachloroethane	<0.050		0.50	0.050	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Isophorone	<0.052		0.50	0.052	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Nitrobenzene	<0.032		0.099	0.032	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
N-Nitrosodi-n-propylamine	<0.020		0.20	0.020	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
N-Nitrosodiphenylamine	<0.059		0.50	0.059	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Pentachlorophenol	<0.25		2.0	0.25	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2
Phenol	**0.048**	**J**	0.50	0.043	mg/Kg	☼	09/25/24 16:21	09/26/24 19:51	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*45*		*31 - 166*	*09/25/24 16:21*	*09/26/24 19:51*	*2*
Phenol-d5 (Surr)	*50*		*30 - 153*	*09/25/24 16:21*	*09/26/24 19:51*	*2*
Nitrobenzene-d5 (Surr)	*50*		*37 - 147*	*09/25/24 16:21*	*09/26/24 19:51*	*2*
2-Fluorobiphenyl (Surr)	*52*		*43 - 145*	*09/25/24 16:21*	*09/26/24 19:51*	*2*
2,4,6-Tribromophenol (Surr)	*13*	*S1-*	*31 - 143*	*09/25/24 16:21*	*09/26/24 19:51*	*2*
Terphenyl-d14 (Surr)	*53*		*42 - 157*	*09/25/24 16:21*	*09/26/24 19:51*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
delta-BHC	<0.0083		0.017	0.0083	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Endosulfan II	<0.0095		0.017	0.0095	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Endosulfan sulfate	<0.0096		0.017	0.0096	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Endrin aldehyde	<0.0099		0.017	0.0099	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Heptachlor	<0.0094		0.017	0.0094	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/24/24 15:36	10/04/24 17:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*207*	*S1+*	*33 - 148*	*09/24/24 15:36*	*10/04/24 17:29*	*10*
Tetrachloro-m-xylene	*95*		*30 - 121*	*09/24/24 15:36*	*10/04/24 17:29*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 20:03	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 20:03	10

Client Sample ID: SB97 (5-7.5)
Lab Sample ID: 500-256860-10
Date Collected: 09/16/24 14:59
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 96.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 20:03	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 20:03	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 20:03	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 20:03	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 20:03	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/24/24 15:36	09/30/24 20:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*49*		*49 - 129*	*09/24/24 15:36*	*09/30/24 20:03*	*10*
DCB Decachlorobiphenyl	*61*		*37 - 121*	*09/24/24 15:36*	*09/30/24 20:03*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7500**		18		mg/Kg	☼	09/30/24 17:14	10/01/24 19:42	1
Antimony	<8.8		8.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Arsenic	**12**		4.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Barium	**82**		0.88		mg/Kg	☼	09/30/24 17:14	10/01/24 19:42	1
Beryllium	<1.8		1.8		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Cadmium	<0.88		0.88		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Calcium	**42000**		18		mg/Kg	☼	09/30/24 17:14	10/01/24 19:42	1
Chromium	**240**		4.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Cobalt	**8.9**		2.2		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Copper	**380**		4.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Iron	**110000**		92		mg/Kg	☼	10/08/24 16:25	10/09/24 15:28	5
Lead	**190**		2.2		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Magnesium	**6700**		8.8		mg/Kg	☼	09/30/24 17:14	10/01/24 19:42	1
Manganese	**10000**		4.6		mg/Kg	☼	10/08/24 16:25	10/09/24 15:28	5
Nickel	**100**		4.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Potassium	**560**		44		mg/Kg	☼	09/30/24 17:14	10/01/24 19:42	1
Selenium	<4.4		4.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Silver	<0.44		0.44		mg/Kg	☼	09/30/24 17:14	10/01/24 19:42	1
Sodium	<440		440		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Thallium	**29**		4.4		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Vanadium	**71**		2.2		mg/Kg	☼	09/30/24 17:14	10/04/24 02:52	5
Zinc	**120**		9.2		mg/Kg	☼	10/08/24 16:25	10/09/24 15:28	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.071**		0.016		mg/Kg	☼	10/01/24 17:15	10/02/24 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**5.7**		0.23		mg/Kg	☼	09/26/24 14:50	09/27/24 12:10	1
pH (SW846 9045D)	**9.16**		0.20		SU			09/23/24 17:48	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 786743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	5035	
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	5035	
500-256860-3	SB94 (0-3)	Total/NA	Solid	5035	
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	5035	
500-256860-5	SB95 (0-3)	Total/NA	Solid	5035	
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	5035	
500-256860-7	SB96 (0-3)	Total/NA	Solid	5035	
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	5035	
500-256860-9	SB97 (0-3)	Total/NA	Solid	5035	
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	5035	

Analysis Batch: 786956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	8260D	786743
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	8260D	786743
500-256860-3	SB94 (0-3)	Total/NA	Solid	8260D	786743
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	8260D	786743
500-256860-5	SB95 (0-3)	Total/NA	Solid	8260D	786743
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	8260D	786743
500-256860-7	SB96 (0-3)	Total/NA	Solid	8260D	786743
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	8260D	786743
500-256860-9	SB97 (0-3)	Total/NA	Solid	8260D	786743
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	8260D	786743
MB 500-786956/5	Method Blank	Total/NA	Solid	8260D	
LCS 500-786956/3	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 787759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	3546	
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	3546	
500-256860-3	SB94 (0-3)	Total/NA	Solid	3546	
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	3546	
500-256860-5	SB95 (0-3)	Total/NA	Solid	3546	
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	3546	
500-256860-7	SB96 (0-3)	Total/NA	Solid	3546	
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	3546	
500-256860-9	SB97 (0-3)	Total/NA	Solid	3546	
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	3546	
MB 500-787759/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-787759/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 787842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	8270E	787759
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	8270E	787759
500-256860-3	SB94 (0-3)	Total/NA	Solid	8270E	787759
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	8270E	787759
500-256860-5	SB95 (0-3)	Total/NA	Solid	8270E	787759
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	8270E	787759

GC/MS Semi VOA (Continued)

Analysis Batch: 787842 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-7	SB96 (0-3)	Total/NA	Solid	8270E	787759
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	8270E	787759
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	8270E	787759
MB 500-787759/1-A	Method Blank	Total/NA	Solid	8270E	787759
LCS 500-787759/2-A	Lab Control Sample	Total/NA	Solid	8270E	787759

Analysis Batch: 788258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-9	SB97 (0-3)	Total/NA	Solid	8270E	787759

GC Semi VOA

Prep Batch: 787548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	3541	
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	3541	
500-256860-3	SB94 (0-3)	Total/NA	Solid	3541	
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	3541	
500-256860-5	SB95 (0-3)	Total/NA	Solid	3541	
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	3541	
500-256860-7	SB96 (0-3)	Total/NA	Solid	3541	
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	3541	
500-256860-9	SB97 (0-3)	Total/NA	Solid	3541	
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	3541	
MB 500-787548/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-787548/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-787548/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 788279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	8082A	787548
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	8082A	787548
MB 500-787548/1-A	Method Blank	Total/NA	Solid	8082A	787548
LCS 500-787548/3-A	Lab Control Sample	Total/NA	Solid	8082A	787548

Analysis Batch: 788367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-3	SB94 (0-3)	Total/NA	Solid	8082A	787548
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	8082A	787548
500-256860-7	SB96 (0-3)	Total/NA	Solid	8082A	787548
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	8082A	787548
500-256860-9	SB97 (0-3)	Total/NA	Solid	8082A	787548
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	8082A	787548

Analysis Batch: 788855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-5	SB95 (0-3)	Total/NA	Solid	8082A	787548
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	8082A	787548

GC Semi VOA

Analysis Batch: 789114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	8081B	787548
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	8081B	787548
500-256860-3	SB94 (0-3)	Total/NA	Solid	8081B	787548
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	8081B	787548
500-256860-5	SB95 (0-3)	Total/NA	Solid	8081B	787548
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	8081B	787548
500-256860-7	SB96 (0-3)	Total/NA	Solid	8081B	787548
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	8081B	787548
500-256860-9	SB97 (0-3)	Total/NA	Solid	8081B	787548
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	8081B	787548

Analysis Batch: 789720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-787548/1-A	Method Blank	Total/NA	Solid	8081B	787548
LCS 500-787548/2-A	Lab Control Sample	Total/NA	Solid	8081B	787548

Metals

Prep Batch: 788415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	3050B	
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	3050B	
500-256860-3	SB94 (0-3)	Total/NA	Solid	3050B	
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	3050B	
500-256860-5	SB95 (0-3)	Total/NA	Solid	3050B	
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	3050B	
500-256860-7	SB96 (0-3)	Total/NA	Solid	3050B	
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	3050B	
500-256860-9	SB97 (0-3)	Total/NA	Solid	3050B	
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	3050B	
MB 500-788415/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-788415/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 788571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	7471B	
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	7471B	
500-256860-3	SB94 (0-3)	Total/NA	Solid	7471B	
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	7471B	
500-256860-5	SB95 (0-3)	Total/NA	Solid	7471B	
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	7471B	
500-256860-7	SB96 (0-3)	Total/NA	Solid	7471B	
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	7471B	
500-256860-9	SB97 (0-3)	Total/NA	Solid	7471B	
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	7471B	
MB 500-788571/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-788571/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 788665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	6010D	788415

Metals (Continued)

Analysis Batch: 788665 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	6010D	788415
500-256860-3	SB94 (0-3)	Total/NA	Solid	6010D	788415
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	6010D	788415
500-256860-5	SB95 (0-3)	Total/NA	Solid	6010D	788415
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	6010D	788415
500-256860-7	SB96 (0-3)	Total/NA	Solid	6010D	788415
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	6010D	788415
500-256860-9	SB97 (0-3)	Total/NA	Solid	6010D	788415
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	6010D	788415
MB 500-788415/1-A	Method Blank	Total/NA	Solid	6010D	788415
LCS 500-788415/2-A	Lab Control Sample	Total/NA	Solid	6010D	788415

Analysis Batch: 788733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	7471B	788571
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	7471B	788571
500-256860-3	SB94 (0-3)	Total/NA	Solid	7471B	788571
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	7471B	788571
500-256860-5	SB95 (0-3)	Total/NA	Solid	7471B	788571
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	7471B	788571
500-256860-7	SB96 (0-3)	Total/NA	Solid	7471B	788571
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	7471B	788571
500-256860-9	SB97 (0-3)	Total/NA	Solid	7471B	788571
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	7471B	788571
MB 500-788571/12-A	Method Blank	Total/NA	Solid	7471B	788571
LCS 500-788571/13-A	Lab Control Sample	Total/NA	Solid	7471B	788571

Analysis Batch: 789070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	6010D	788415
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	6010D	788415
500-256860-3	SB94 (0-3)	Total/NA	Solid	6010D	788415
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	6010D	788415
500-256860-5	SB95 (0-3)	Total/NA	Solid	6010D	788415
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	6010D	788415
500-256860-7	SB96 (0-3)	Total/NA	Solid	6010D	788415
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	6010D	788415
500-256860-9	SB97 (0-3)	Total/NA	Solid	6010D	788415
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	6010D	788415
MB 500-788415/1-A	Method Blank	Total/NA	Solid	6010D	788415
LCS 500-788415/2-A	Lab Control Sample	Total/NA	Solid	6010D	788415

Prep Batch: 789647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	3050B	
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	3050B	
500-256860-3	SB94 (0-3)	Total/NA	Solid	3050B	
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	3050B	
500-256860-5	SB95 (0-3)	Total/NA	Solid	3050B	
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	3050B	
500-256860-7	SB96 (0-3)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 789647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	3050B	
500-256860-9	SB97 (0-3)	Total/NA	Solid	3050B	
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	3050B	
MB 500-789647/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-789647/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 789834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	6010D	789647
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	6010D	789647
500-256860-3	SB94 (0-3)	Total/NA	Solid	6010D	789647
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	6010D	789647
500-256860-5	SB95 (0-3)	Total/NA	Solid	6010D	789647
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	6010D	789647
500-256860-7	SB96 (0-3)	Total/NA	Solid	6010D	789647
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	6010D	789647
500-256860-9	SB97 (0-3)	Total/NA	Solid	6010D	789647
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	6010D	789647
MB 500-789647/1-A	Method Blank	Total/NA	Solid	6010D	789647
LCS 500-789647/2-A	Lab Control Sample	Total/NA	Solid	6010D	789647

General Chemistry

Prep Batch: 628030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	9030B	
MB 240-628030/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-628030/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 628058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	9034	628030
MB 240-628030/1-A	Method Blank	Total/NA	Solid	9034	628030
LCS 240-628030/2-A	Lab Control Sample	Total/NA	Solid	9034	628030

Analysis Batch: 787463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	9045D	
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	9045D	
500-256860-3	SB94 (0-3)	Total/NA	Solid	9045D	
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	9045D	
500-256860-5	SB95 (0-3)	Total/NA	Solid	9045D	
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	9045D	
500-256860-7	SB96 (0-3)	Total/NA	Solid	9045D	
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	9045D	
500-256860-9	SB97 (0-3)	Total/NA	Solid	9045D	
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-787463/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-787463/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

General Chemistry

Analysis Batch: 787498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	Moisture	
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	Moisture	
500-256860-3	SB94 (0-3)	Total/NA	Solid	Moisture	
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	Moisture	
500-256860-5	SB95 (0-3)	Total/NA	Solid	Moisture	
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	Moisture	
500-256860-7	SB96 (0-3)	Total/NA	Solid	Moisture	
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	Moisture	
500-256860-9	SB97 (0-3)	Total/NA	Solid	Moisture	
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	Moisture	
500-256860-1 DU	SB93 (0-3)	Total/NA	Solid	Moisture	

Prep Batch: 787881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	9010C	
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	9010C	
500-256860-3	SB94 (0-3)	Total/NA	Solid	9010C	
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	9010C	
500-256860-5	SB95 (0-3)	Total/NA	Solid	9010C	
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	9010C	
MB 500-787881/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-787881/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256860-3 MS	SB94 (0-3)	Total/NA	Solid	9010C	
500-256860-3 MSD	SB94 (0-3)	Total/NA	Solid	9010C	

Prep Batch: 787924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-7	SB96 (0-3)	Total/NA	Solid	9010C	
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	9010C	
500-256860-9	SB97 (0-3)	Total/NA	Solid	9010C	
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	9010C	
MB 500-787924/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-787924/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-256860-7 MS	SB96 (0-3)	Total/NA	Solid	9010C	
500-256860-7 MSD	SB96 (0-3)	Total/NA	Solid	9010C	

Analysis Batch: 787952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	Total/NA	Solid	9012B	787881
500-256860-2	SB93 (5-7.5)	Total/NA	Solid	9012B	787881
500-256860-3	SB94 (0-3)	Total/NA	Solid	9012B	787881
500-256860-4	SB94 (12.5-15)	Total/NA	Solid	9012B	787881
500-256860-5	SB95 (0-3)	Total/NA	Solid	9012B	787881
500-256860-6	SB95 (5-7.5)	Total/NA	Solid	9012B	787881
MB 500-787881/1-A	Method Blank	Total/NA	Solid	9012B	787881
LCS 500-787881/2-A	Lab Control Sample	Total/NA	Solid	9012B	787881
500-256860-3 MS	SB94 (0-3)	Total/NA	Solid	9012B	787881
500-256860-3 MSD	SB94 (0-3)	Total/NA	Solid	9012B	787881

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

General Chemistry

Analysis Batch: 788122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-7	SB96 (0-3)	Total/NA	Solid	9012B	787924
500-256860-8	SB96 (7.5-10)	Total/NA	Solid	9012B	787924
500-256860-9	SB97 (0-3)	Total/NA	Solid	9012B	787924
500-256860-10	SB97 (5-7.5)	Total/NA	Solid	9012B	787924
MB 500-787924/1-A	Method Blank	Total/NA	Solid	9012B	787924
LCS 500-787924/2-A	Lab Control Sample	Total/NA	Solid	9012B	787924
500-256860-7 MS	SB96 (0-3)	Total/NA	Solid	9012B	787924
500-256860-7 MSD	SB96 (0-3)	Total/NA	Solid	9012B	787924

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-256860-1	SB93 (0-3)	97	118	95	106
500-256860-2	SB93 (5-7.5)	96	153 *3 S1+	112	157 S1+
500-256860-3	SB94 (0-3)	99	126	93	110
500-256860-4	SB94 (12.5-15)	102	136 S1+	104	125 S1+
500-256860-5	SB95 (0-3)	98	117	92	107
500-256860-6	SB95 (5-7.5)	101	118	100	105
500-256860-7	SB96 (0-3)	95	122	94	109
500-256860-8	SB96 (7.5-10)	102	100	55 S1-	100
500-256860-9	SB97 (0-3)	100	122	92	111
500-256860-10	SB97 (5-7.5)	100	110	101	102
LCS 500-786956/3	Lab Control Sample	94	95	97	99
MB 500-786956/5	Method Blank	99	98	96	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256860-1	SB93 (0-3)	58	60	58	61	47	66
500-256860-2	SB93 (5-7.5)	55	53	69	68	39	74
500-256860-3	SB94 (0-3)	46	49	49	52	18 S1-	51
500-256860-4	SB94 (12.5-15)	40	40	42	42 S1-	28 S1-	45
500-256860-5	SB95 (0-3)	51	53	51	56	19 S1-	60
500-256860-6	SB95 (5-7.5)	55	58	55	63	26 S1-	66
500-256860-7	SB96 (0-3)	43	47	46	49	8 S1-	50
500-256860-8	SB96 (7.5-10)	18 S1-	56	67	70	0 S1-	71
500-256860-9	SB97 (0-3)	46	53	55	63	9 S1-	61
500-256860-10	SB97 (5-7.5)	45	50	50	52	13 S1-	53
LCS 500-787759/2-A	Lab Control Sample	82	82	82	86	76	92
MB 500-787759/1-A	Method Blank	88	84	86	86	68	92

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(33-148)	(30-121)
500-256860-1	SB93 (0-3)	794 S1+	89
500-256860-2	SB93 (5-7.5)	130	85
500-256860-3	SB94 (0-3)	155 S1+	76
500-256860-4	SB94 (12.5-15)	124	74
500-256860-5	SB95 (0-3)	236 S1+	47
500-256860-6	SB95 (5-7.5)	158 S1+	67
500-256860-7	SB96 (0-3)	290 S1+	78
500-256860-8	SB96 (7.5-10)	143	67
500-256860-9	SB97 (0-3)	171 S1+	104
500-256860-10	SB97 (5-7.5)	207 S1+	95
LCS 500-787548/2-A	Lab Control Sample	93	82
MB 500-787548/1-A	Method Blank	92	78

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-256860-1	SB93 (0-3)	41 S1-	94
500-256860-2	SB93 (5-7.5)	51	56
500-256860-3	SB94 (0-3)	51	60
500-256860-4	SB94 (12.5-15)	44 S1-	50
500-256860-7	SB96 (0-3)	53	67
500-256860-8	SB96 (7.5-10)	60	62
500-256860-9	SB97 (0-3)	54	65
500-256860-10	SB97 (5-7.5)	49	61
LCS 500-787548/3-A	Lab Control Sample	62	55
MB 500-787548/1-A	Method Blank	66	67

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-256860-5	SB95 (0-3)	0 S1-	0 S1-
500-256860-6	SB95 (5-7.5)	0 S1-	0 S1-

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256860-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-786956/5
Matrix: Solid
Analysis Batch: 786956

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/19/24 22:54	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/19/24 22:54	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/19/24 22:54	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/19/24 22:54	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/19/24 22:54	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/19/24 22:54	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/19/24 22:54	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/19/24 22:54	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/19/24 22:54	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/19/24 22:54	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/19/24 22:54	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/19/24 22:54	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/19/24 22:54	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/19/24 22:54	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/19/24 22:54	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/19/24 22:54	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/19/24 22:54	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/19/24 22:54	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/19/24 22:54	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/19/24 22:54	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/19/24 22:54	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/19/24 22:54	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/19/24 22:54	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/19/24 22:54	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/19/24 22:54	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/19/24 22:54	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/19/24 22:54	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/19/24 22:54	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/19/24 22:54	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/19/24 22:54	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/19/24 22:54	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/19/24 22:54	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/19/24 22:54	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/19/24 22:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*09/19/24 22:54*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*		*09/19/24 22:54*	*1*
Dibromofluoromethane	*96*		*75 - 126*		*09/19/24 22:54*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*		*09/19/24 22:54*	*1*

Lab Sample ID: LCS 500-786956/3
Matrix: Solid
Analysis Batch: 786956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0503		mg/Kg		101	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0622	*+	mg/Kg		124	70 - 122

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256860-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786956/3
Matrix: Solid
Analysis Batch: 786956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0586		mg/Kg		117	70 - 125
1,1-Dichloroethane	0.0500	0.0538		mg/Kg		108	70 - 125
1,1-Dichloroethene	0.0500	0.0543		mg/Kg		109	70 - 120
1,2-Dichloroethane	0.0500	0.0506		mg/Kg		101	70 - 130
1,2-Dichloropropane	0.0500	0.0589		mg/Kg		118	70 - 125
2-Butanone (MEK)	0.0500	0.0625		mg/Kg		125	47 - 138
2-Hexanone	0.0500	0.0675		mg/Kg		135	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0686		mg/Kg		137	50 - 148
Acetone	0.0500	0.0646		mg/Kg		129	40 - 150
Benzene	0.0500	0.0571		mg/Kg		114	70 - 125
Bromodichloromethane	0.0500	0.0560		mg/Kg		112	67 - 129
Bromoform	0.0500	0.0612		mg/Kg		122	68 - 136
Bromomethane	0.0500	0.0477		mg/Kg		95	70 - 130
Carbon disulfide	0.0500	0.0537		mg/Kg		107	70 - 129
Carbon tetrachloride	0.0500	0.0508		mg/Kg		102	75 - 125
Chlorobenzene	0.0500	0.0560		mg/Kg		112	50 - 150
Chloroethane	0.0500	0.0531		mg/Kg		106	75 - 125
Chloroform	0.0500	0.0525		mg/Kg		105	57 - 135
Chloromethane	0.0500	0.0488		mg/Kg		98	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0570		mg/Kg		114	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0572		mg/Kg		114	70 - 125
Dibromochloromethane	0.0500	0.0577		mg/Kg		115	69 - 125
Ethylbenzene	0.0500	0.0565		mg/Kg		113	61 - 136
Methyl tert-butyl ether	0.0500	0.0571		mg/Kg		114	50 - 140
Methylene Chloride	0.0500	0.0488		mg/Kg		98	70 - 126
Styrene	0.0500	0.0603		mg/Kg		121	70 - 125
Tetrachloroethene	0.0500	0.0543		mg/Kg		109	70 - 124
Toluene	0.0500	0.0567		mg/Kg		113	70 - 125
Xylenes, Total	0.100	0.112		mg/Kg		112	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0557		mg/Kg		111	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0569		mg/Kg		114	70 - 125
Trichloroethene	0.0500	0.0539		mg/Kg		108	70 - 125
Vinyl chloride	0.0500	0.0475		mg/Kg		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*
Dibromofluoromethane	*97*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 124*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-787759/1-A
Matrix: Solid
Analysis Batch: 787842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/25/24 16:21	09/26/24 12:44	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-787759/1-A
Matrix: Solid
Analysis Batch: 787842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/25/24 16:21	09/26/24 12:44	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-787759/1-A
Matrix: Solid
Analysis Batch: 787842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/25/24 16:21	09/26/24 12:44	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/25/24 16:21	09/26/24 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*88*		*31 - 166*	*09/25/24 16:21*	*09/26/24 12:44*	*1*
Phenol-d5 (Surr)	*84*		*30 - 153*	*09/25/24 16:21*	*09/26/24 12:44*	*1*
Nitrobenzene-d5 (Surr)	*86*		*37 - 147*	*09/25/24 16:21*	*09/26/24 12:44*	*1*
2-Fluorobiphenyl (Surr)	*86*		*43 - 145*	*09/25/24 16:21*	*09/26/24 12:44*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*31 - 143*	*09/25/24 16:21*	*09/26/24 12:44*	*1*
Terphenyl-d14 (Surr)	*92*		*42 - 157*	*09/25/24 16:21*	*09/26/24 12:44*	*1*

Lab Sample ID: LCS 500-787759/2-A
Matrix: Solid
Analysis Batch: 787842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.94		mg/Kg		88	63 - 109
Acenaphthylene	3.33	3.21		mg/Kg		96	61 - 115
Anthracene	3.33	3.17		mg/Kg		95	68 - 120
Benzo[a]anthracene	3.33	3.14		mg/Kg		94	70 - 121
Benzo[a]pyrene	3.33	3.48		mg/Kg		104	73 - 132
Benzo[b]fluoranthene	3.33	3.42		mg/Kg		103	68 - 123
Benzo[g,h,i]perylene	3.33	3.40		mg/Kg		102	65 - 126
Benzo[k]fluoranthene	3.33	3.44		mg/Kg		103	64 - 128
Chrysene	3.33	3.01		mg/Kg		90	70 - 123
Dibenz(a,h)anthracene	3.33	3.55		mg/Kg		107	66 - 125
Fluoranthene	3.33	3.07		mg/Kg		92	66 - 123
Fluorene	3.33	2.88		mg/Kg		86	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.47		mg/Kg		104	66 - 131
Naphthalene	3.33	2.64		mg/Kg		79	54 - 98
Phenanthrene	3.33	3.12		mg/Kg		93	65 - 115
Pyrene	3.33	3.49		mg/Kg		105	71 - 128
1,2,4-Trichlorobenzene	3.33	2.53		mg/Kg		76	49 - 100
1,2-Dichlorobenzene	3.33	2.46		mg/Kg		74	47 - 94
1,3-Dichlorobenzene	3.33	2.41		mg/Kg		72	47 - 92
1,4-Dichlorobenzene	3.33	2.39		mg/Kg		72	46 - 92
2,4,5-Trichlorophenol	3.33	3.01		mg/Kg		90	48 - 121

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-787759/2-A
Matrix: Solid
Analysis Batch: 787842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	3.33	2.87		mg/Kg		86	50 - 121
2,4-Dichlorophenol	3.33	2.75		mg/Kg		83	51 - 109
2,4-Dimethylphenol	3.33	3.02		mg/Kg		91	48 - 93
2,4-Dinitrophenol	6.67	3.85		mg/Kg		58	10 - 130
2,4-Dinitrotoluene	3.33	3.19		mg/Kg		96	65 - 120
2,6-Dinitrotoluene	3.33	3.20		mg/Kg		96	66 - 117
2-Chloronaphthalene	3.33	2.98		mg/Kg		90	60 - 107
2-Chlorophenol	3.33	2.69		mg/Kg		81	50 - 102
2-Methylnaphthalene	3.33	2.40		mg/Kg		72	58 - 103
2-Methylphenol	3.33	2.69		mg/Kg		81	50 - 104
2-Nitroaniline	3.33	3.26		mg/Kg		98	61 - 126
2-Nitrophenol	3.33	2.80		mg/Kg		84	41 - 114
3,3'-Dichlorobenzidine	3.33	2.91		mg/Kg		87	36 - 131
3 & 4 Methylphenol	3.33	2.56		mg/Kg		77	49 - 109
3-Nitroaniline	3.33	2.90		mg/Kg		87	44 - 124
4,6-Dinitro-2-methylphenol	6.67	5.16		mg/Kg		77	36 - 138
4-Bromophenyl phenyl ether	3.33	3.21		mg/Kg		96	57 - 124
4-Chloro-3-methylphenol	3.33	2.80		mg/Kg		84	57 - 113
4-Chloroaniline	3.33	2.56		mg/Kg		77	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.75		mg/Kg		82	60 - 112
4-Nitroaniline	3.33	2.65		mg/Kg		79	60 - 115
4-Nitrophenol	6.67	5.10		mg/Kg		76	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.84		mg/Kg		85	54 - 102
Bis(2-chloroethyl)ether	3.33	2.66		mg/Kg		80	49 - 99
bis(chloroisopropyl) ether	3.33	2.73		mg/Kg		82	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.30		mg/Kg		99	70 - 139
Butyl benzyl phthalate	3.33	3.49		mg/Kg		105	65 - 140
Carbazole	3.33	3.05		mg/Kg		91	68 - 120
Dibenzofuran	3.33	2.89		mg/Kg		87	64 - 112
Diethyl phthalate	3.33	3.00		mg/Kg		90	66 - 115
Dimethyl phthalate	3.33	2.99		mg/Kg		90	65 - 114
Di-n-butyl phthalate	3.33	3.28		mg/Kg		99	69 - 125
Di-n-octyl phthalate	3.33	3.13		mg/Kg		94	61 - 131
Hexachlorobenzene	3.33	3.15		mg/Kg		94	52 - 126
Hexachlorobutadiene	3.33	2.52		mg/Kg		76	42 - 103
Hexachlorocyclopentadiene	3.33	1.71		mg/Kg		51	10 - 100
Hexachloroethane	3.33	2.57		mg/Kg		77	45 - 95
Isophorone	3.33	2.81		mg/Kg		84	47 - 108
Nitrobenzene	3.33	2.84		mg/Kg		85	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.68		mg/Kg		80	48 - 110
N-Nitrosodiphenylamine	3.33	3.17		mg/Kg		95	67 - 112
Pentachlorophenol	6.67	4.00		mg/Kg		60	32 - 128
Phenol	3.33	2.94		mg/Kg		88	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*82*		*31 - 166*
Phenol-d5 (Surr)	*82*		*30 - 153*
Nitrobenzene-d5 (Surr)	*82*		*37 - 147*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-787759/2-A
Matrix: Solid
Analysis Batch: 787842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787759

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	86		43 - 145
2,4,6-Tribromophenol (Surr)	76		31 - 143
Terphenyl-d14 (Surr)	92		42 - 157

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-787548/1-A
Matrix: Solid
Analysis Batch: 789720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/24/24 15:36	10/09/24 11:10	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/24/24 15:36	10/09/24 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		33 - 148	09/24/24 15:36	10/09/24 11:10	1
Tetrachloro-m-xylene	78		30 - 121	09/24/24 15:36	10/09/24 11:10	1

Lab Sample ID: LCS 500-787548/2-A
Matrix: Solid
Analysis Batch: 789720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0126		mg/Kg		95	47 - 137
4,4'-DDE	0.0133	0.0134		mg/Kg		100	50 - 130
4,4'-DDT	0.0133	0.0150		mg/Kg		112	46 - 143
Aldrin	0.0133	0.0141		mg/Kg		106	52 - 122
alpha-BHC	0.0133	0.0135		mg/Kg		101	50 - 123

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-787548/2-A
Matrix: Solid
Analysis Batch: 789720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
beta-BHC	0.0133	0.0122		mg/Kg		92	44 - 140
delta-BHC	0.0133	0.0136		mg/Kg		102	57 - 125
Dieldrin	0.0133	0.0144		mg/Kg		108	51 - 133
Endosulfan I	0.0133	0.0136		mg/Kg		102	30 - 120
Endosulfan II	0.0133	0.0139		mg/Kg		104	30 - 120
Endosulfan sulfate	0.0133	0.0128		mg/Kg		96	42 - 150
Endrin	0.0133	0.0133		mg/Kg		100	43 - 144
Endrin aldehyde	0.0133	0.0114		mg/Kg		86	39 - 131
Endrin ketone	0.0133	0.0134		mg/Kg		101	51 - 135
gamma-BHC (Lindane)	0.0133	0.0136		mg/Kg		102	50 - 122
Heptachlor	0.0133	0.0136		mg/Kg		102	53 - 129
Heptachlor epoxide	0.0133	0.0138		mg/Kg		103	50 - 139
Methoxychlor	0.0133	0.0146		mg/Kg		110	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*93*		*33 - 148*
Tetrachloro-m-xylene	*82*		*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-787548/1-A
Matrix: Solid
Analysis Batch: 788279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/24/24 15:36	09/30/24 10:36	1
PCB-1221	<0.017		0.017		mg/Kg		09/24/24 15:36	09/30/24 10:36	1
PCB-1232	<0.017		0.017		mg/Kg		09/24/24 15:36	09/30/24 10:36	1
PCB-1242	<0.017		0.017		mg/Kg		09/24/24 15:36	09/30/24 10:36	1
PCB-1248	<0.017		0.017		mg/Kg		09/24/24 15:36	09/30/24 10:36	1
PCB-1254	<0.017		0.017		mg/Kg		09/24/24 15:36	09/30/24 10:36	1
PCB-1260	<0.017		0.017		mg/Kg		09/24/24 15:36	09/30/24 10:36	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/24/24 15:36	09/30/24 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*49 - 129*	*09/24/24 15:36*	*09/30/24 10:36*	*1*
DCB Decachlorobiphenyl	*67*		*37 - 121*	*09/24/24 15:36*	*09/30/24 10:36*	*1*

Lab Sample ID: LCS 500-787548/3-A
Matrix: Solid
Analysis Batch: 788279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.107		mg/Kg		64	57 - 120
PCB-1260	0.167	0.109		mg/Kg		66	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*62*		*49 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-787548/3-A
Matrix: Solid
Analysis Batch: 788279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787548

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-788415/1-A
Matrix: Solid
Analysis Batch: 788665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Antimony	<2.0		2.0		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Arsenic	<1.0		1.0		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Barium	<1.0		1.0		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Cadmium	<0.20		0.20		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Calcium	<20		20		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Chromium	<1.0		1.0		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Cobalt	<0.50		0.50		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Copper	<1.0		1.0		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Lead	<0.50		0.50		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Magnesium	<10		10		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Nickel	<1.0		1.0		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Potassium	<50		50		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Selenium	<1.0		1.0		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Silver	<0.50		0.50		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Sodium	<100		100		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Thallium	<1.0		1.0		mg/Kg		09/30/24 17:14	10/01/24 14:03	1
Vanadium	<0.50		0.50		mg/Kg		09/30/24 17:14	10/01/24 14:03	1

Lab Sample ID: MB 500-788415/1-A
Matrix: Solid
Analysis Batch: 789070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.40		0.40		mg/Kg		09/30/24 17:14	10/04/24 01:49	1

Lab Sample ID: LCS 500-788415/2-A
Matrix: Solid
Analysis Batch: 788665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	181		mg/Kg		91	80 - 120
Antimony	50.0	44.1		mg/Kg		88	80 - 120
Arsenic	10.0	8.92		mg/Kg		89	80 - 120
Barium	200	171		mg/Kg		86	80 - 120
Cadmium	5.00	4.39		mg/Kg		88	80 - 120
Calcium	1000	916		mg/Kg		92	80 - 120
Chromium	20.0	17.9		mg/Kg		90	80 - 120
Cobalt	50.0	42.5		mg/Kg		85	80 - 120
Copper	25.0	22.6		mg/Kg		90	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-788415/2-A
Matrix: Solid
Analysis Batch: 788665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	10.0	9.94		mg/Kg		99	80 - 120
Magnesium	1000	866		mg/Kg		87	80 - 120
Nickel	50.0	43.4		mg/Kg		87	80 - 120
Potassium	1000	876		mg/Kg		88	80 - 120
Selenium	10.0	8.53		mg/Kg		85	80 - 120
Silver	5.00	4.07		mg/Kg		81	80 - 120
Sodium	1000	902		mg/Kg		90	80 - 120
Thallium	10.0	8.73		mg/Kg		87	80 - 120
Vanadium	50.0	43.6		mg/Kg		87	80 - 120

Lab Sample ID: LCS 500-788415/2-A
Matrix: Solid
Analysis Batch: 789070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	5.00	4.70		mg/Kg		94	80 - 120

Lab Sample ID: MB 500-789647/1-A
Matrix: Solid
Analysis Batch: 789834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<20		20		mg/Kg		10/08/24 16:25	10/09/24 14:30	1
Manganese	<1.0		1.0		mg/Kg		10/08/24 16:25	10/09/24 14:30	1
Zinc	<2.0		2.0		mg/Kg		10/08/24 16:25	10/09/24 14:30	1

Lab Sample ID: LCS 500-789647/2-A
Matrix: Solid
Analysis Batch: 789834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	100	102		mg/Kg		102	80 - 120
Manganese	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	47.1		mg/Kg		94	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-788571/12-A
Matrix: Solid
Analysis Batch: 788733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		10/01/24 17:15	10/02/24 10:44	1

Lab Sample ID: LCS 500-788571/13-A
Matrix: Solid
Analysis Batch: 788733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.174		mg/Kg		104	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-787881/1-A
Matrix: Solid
Analysis Batch: 787952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/26/24 11:10	09/26/24 13:29	1

Lab Sample ID: LCS 500-787881/2-A
Matrix: Solid
Analysis Batch: 787952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.29		mg/Kg		96	85 - 115

Lab Sample ID: 500-256860-3 MS
Matrix: Solid
Analysis Batch: 787952

Client Sample ID: SB94 (0-3)
Prep Type: Total/NA
Prep Batch: 787881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	6.6	F1 F2	2.22	5.13	F1	mg/Kg	☼	-68	75 - 125

Lab Sample ID: 500-256860-3 MSD
Matrix: Solid
Analysis Batch: 787952

Client Sample ID: SB94 (0-3)
Prep Type: Total/NA
Prep Batch: 787881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	6.6	F1 F2	2.40	9.55	F2	mg/Kg	☼	121	75 - 125	60	20

Lab Sample ID: MB 500-787924/1-A
Matrix: Solid
Analysis Batch: 788122

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/26/24 14:50	09/27/24 11:12	1

Lab Sample ID: LCS 500-787924/2-A
Matrix: Solid
Analysis Batch: 788122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.34		mg/Kg		98	85 - 115

Lab Sample ID: 500-256860-7 MS
Matrix: Solid
Analysis Batch: 788122

Client Sample ID: SB96 (0-3)
Prep Type: Total/NA
Prep Batch: 787924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	12		2.41	14.4	4	mg/Kg	☼	117	75 - 125

Lab Sample ID: 500-256860-7 MSD
Matrix: Solid
Analysis Batch: 788122

Client Sample ID: SB96 (0-3)
Prep Type: Total/NA
Prep Batch: 787924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	12		2.43	13.2	4	mg/Kg	☼	70	75 - 125	8	20

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-628030/1-A
Matrix: Solid
Analysis Batch: 628058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/23/24 10:33	09/23/24 11:24	1

Lab Sample ID: LCS 240-628030/2-A
Matrix: Solid
Analysis Batch: 628058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628030

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			80.3	60.2		mg/Kg		75	56 - 120		

Client Sample ID: SB93 (0-3)

Lab Sample ID: 500-256860-1

Date Collected: 09/16/24 09:00

Matrix: Solid

Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787463	ST	EET CHI	09/23/24 17:26
Total/NA	Analysis	Moisture		1	787498	ER	EET CHI	09/24/24 11:25

Client Sample ID: SB93 (0-3)

Lab Sample ID: 500-256860-1

Date Collected: 09/16/24 09:00

Matrix: Solid

Date Received: 09/17/24 12:30

Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786743		EET CHI	09/17/24 17:25
Total/NA	Analysis	8260D		1	786956	EA	EET CHI	09/20/24 04:26
Total/NA	Prep	3546			787759	LH	EET CHI	09/25/24 16:21
Total/NA	Analysis	8270E		2	787842	WS	EET CHI	09/26/24 18:35
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8081B		10	789114	H7CM	EET CHI	10/04/24 14:52
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8082A		10	788279	H7CM	EET CHI	09/30/24 16:29
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		1	788665	SJ	EET CHI	10/01/24 18:53
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		5	789070	SJ	EET CHI	10/04/24 01:58
Total/NA	Prep	3050B			789647	S1Z	EET CHI	10/08/24 16:25 - 10/08/24 21:25 [1]
Total/NA	Analysis	6010D		5	789834	SJ	EET CHI	10/09/24 14:38
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:17
Total/NA	Prep	9010C			787881	AC	EET CHI	09/26/24 11:10 - 09/26/24 11:40 [1]
Total/NA	Analysis	9012B		1	787952	AC	EET CHI	09/26/24 14:19

Client Sample ID: SB93 (5-7.5)

Lab Sample ID: 500-256860-2

Date Collected: 09/16/24 09:09

Matrix: Solid

Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787463	ST	EET CHI	09/23/24 17:29
Total/NA	Analysis	Moisture		1	787498	ER	EET CHI	09/24/24 11:25

Client Sample ID: SB93 (5-7.5)

Lab Sample ID: 500-256860-2

Date Collected: 09/16/24 09:09

Matrix: Solid

Date Received: 09/17/24 12:30

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786743		EET CHI	09/17/24 17:25
Total/NA	Analysis	8260D		1	786956	EA	EET CHI	09/20/24 04:52
Total/NA	Prep	3546			787759	LH	EET CHI	09/25/24 16:21
Total/NA	Analysis	8270E		2	787842	WS	EET CHI	09/26/24 14:24

Client Sample ID: SB93 (5-7.5)
Lab Sample ID: 500-256860-2

Date Collected: 09/16/24 09:09
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8081B		10	789114	H7CM	EET CHI	10/04/24 15:03
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8082A		10	788279	H7CM	EET CHI	09/30/24 16:44
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		1	788665	SJ	EET CHI	10/01/24 18:57
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		5	789070	SJ	EET CHI	10/04/24 02:03
Total/NA	Prep	3050B			789647	S1Z	EET CHI	10/08/24 16:25 - 10/08/24 21:25 [1]
Total/NA	Analysis	6010D		5	789834	SJ	EET CHI	10/09/24 14:43
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:23
Total/NA	Prep	9010C			787881	AC	EET CHI	09/26/24 11:10 - 09/26/24 11:40 [1]
Total/NA	Analysis	9012B		1	787952	AC	EET CHI	09/26/24 14:21

Client Sample ID: SB94 (0-3)
Lab Sample ID: 500-256860-3

Date Collected: 09/16/24 10:04
Matrix: Solid
Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787463	ST	EET CHI	09/23/24 17:31
Total/NA	Analysis	Moisture		1	787498	ER	EET CHI	09/24/24 11:25

Client Sample ID: SB94 (0-3)
Lab Sample ID: 500-256860-3

Date Collected: 09/16/24 10:04
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786743		EET CHI	09/17/24 17:25
Total/NA	Analysis	8260D		1	786956	EA	EET CHI	09/20/24 05:17
Total/NA	Prep	3546			787759	LH	EET CHI	09/25/24 16:21
Total/NA	Analysis	8270E		2	787842	WS	EET CHI	09/26/24 19:01
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8081B		10	789114	H7CM	EET CHI	10/04/24 18:16
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8082A		10	788367	H7CM	EET CHI	09/30/24 18:16
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		1	788665	SJ	EET CHI	10/01/24 19:02
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		5	789070	SJ	EET CHI	10/04/24 02:20
Total/NA	Prep	3050B			789647	S1Z	EET CHI	10/08/24 16:25 - 10/08/24 21:25 [1]
Total/NA	Analysis	6010D		5	789834	SJ	EET CHI	10/09/24 14:47
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:24

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB94 (0-3)
Lab Sample ID: 500-256860-3
Date Collected: 09/16/24 10:04
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			787881	AC	EET CHI	09/26/24 11:10 - 09/26/24 11:40 [1]
Total/NA	Analysis	9012B		10	787952	AC	EET CHI	09/26/24 14:53

Client Sample ID: SB94 (12.5-15)
Lab Sample ID: 500-256860-4
Date Collected: 09/16/24 10:27
Matrix: Solid
Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787463	ST	EET CHI	09/23/24 17:34
Total/NA	Analysis	Moisture		1	787498	ER	EET CHI	09/24/24 11:25

Client Sample ID: SB94 (12.5-15)
Lab Sample ID: 500-256860-4
Date Collected: 09/16/24 10:27
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786743		EET CHI	09/17/24 17:25
Total/NA	Analysis	8260D		1	786956	EA	EET CHI	09/20/24 05:43
Total/NA	Prep	3546			787759	LH	EET CHI	09/25/24 16:21
Total/NA	Analysis	8270E		1	787842	WS	EET CHI	09/26/24 14:49
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8081B		10	789114	H7CM	EET CHI	10/04/24 16:20
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8082A		10	788367	H7CM	EET CHI	09/30/24 18:31
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		1	788665	SJ	EET CHI	10/01/24 19:06
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		5	789070	SJ	EET CHI	10/04/24 02:25
Total/NA	Prep	3050B			789647	S1Z	EET CHI	10/08/24 16:25 - 10/08/24 21:25 [1]
Total/NA	Analysis	6010D		5	789834	SJ	EET CHI	10/09/24 14:52
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:26
Total/NA	Prep	9010C			787881	AC	EET CHI	09/26/24 11:10 - 09/26/24 11:40 [1]
Total/NA	Analysis	9012B		1	787952	AC	EET CHI	09/26/24 14:31

Client Sample ID: SB95 (0-3)
Lab Sample ID: 500-256860-5
Date Collected: 09/16/24 11:17
Matrix: Solid
Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787463	ST	EET CHI	09/23/24 17:36
Total/NA	Analysis	Moisture		1	787498	ER	EET CHI	09/24/24 11:25

Client Sample ID: SB95 (0-3)
Lab Sample ID: 500-256860-5

Date Collected: 09/16/24 11:17
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786743		EET CHI	09/17/24 17:25
Total/NA	Analysis	8260D		1	786956	EA	EET CHI	09/20/24 06:08
Total/NA	Prep	3546			787759	LH	EET CHI	09/25/24 16:21
Total/NA	Analysis	8270E		1	787842	WS	EET CHI	09/26/24 15:15
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8081B		10	789114	H7CM	EET CHI	10/04/24 16:31
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8082A		50	788855	H7CM	EET CHI	10/03/24 13:17
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		1	788665	SJ	EET CHI	10/01/24 19:11
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		5	789070	SJ	EET CHI	10/04/24 02:29
Total/NA	Prep	3050B			789647	S1Z	EET CHI	10/08/24 16:25 - 10/08/24 21:25 [1]
Total/NA	Analysis	6010D		5	789834	SJ	EET CHI	10/09/24 14:56
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:29
Total/NA	Prep	9010C			787881	AC	EET CHI	09/26/24 11:10 - 09/26/24 11:40 [1]
Total/NA	Analysis	9012B		1	787952	AC	EET CHI	09/26/24 14:33

Client Sample ID: SB95 (5-7.5)
Lab Sample ID: 500-256860-6

Date Collected: 09/16/24 11:36
Matrix: Solid
Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787463	ST	EET CHI	09/23/24 17:38
Total/NA	Analysis	Moisture		1	787498	ER	EET CHI	09/24/24 11:25

Client Sample ID: SB95 (5-7.5)
Lab Sample ID: 500-256860-6

Date Collected: 09/16/24 11:36
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786743		EET CHI	09/17/24 17:25
Total/NA	Analysis	8260D		1	786956	EA	EET CHI	09/20/24 06:33
Total/NA	Prep	3546			787759	LH	EET CHI	09/25/24 16:21
Total/NA	Analysis	8270E		1	787842	WS	EET CHI	09/26/24 15:40
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8081B		10	789114	H7CM	EET CHI	10/04/24 16:43
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8082A		50	788855	H7CM	EET CHI	10/03/24 13:32
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		1	788665	SJ	EET CHI	10/01/24 19:15
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		5	789070	SJ	EET CHI	10/04/24 02:34

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256860-1

Client Sample ID: SB95 (5-7.5)

Lab Sample ID: 500-256860-6
Date Collected: 09/16/24 11:36
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			789647	S1Z	EET CHI	10/08/24 16:25 - 10/08/24 21:25 [1]
Total/NA	Analysis	6010D		5	789834	SJ	EET CHI	10/09/24 15:01
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:31
Total/NA	Prep	9010C			787881	AC	EET CHI	09/26/24 11:10 - 09/26/24 11:40 [1]
Total/NA	Analysis	9012B		10	787952	AC	EET CHI	09/26/24 15:07
Total/NA	Prep	9030B			628030	BLW	EET CLE	09/23/24 10:33
Total/NA	Analysis	9034		1	628058	BLW	EET CLE	09/23/24 11:24

Client Sample ID: SB96 (0-3)

Lab Sample ID: 500-256860-7
Date Collected: 09/16/24 13:18
Matrix: Solid
Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787463	ST	EET CHI	09/23/24 17:41
Total/NA	Analysis	Moisture		1	787498	ER	EET CHI	09/24/24 11:25

Client Sample ID: SB96 (0-3)

Lab Sample ID: 500-256860-7
Date Collected: 09/16/24 13:18
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786743		EET CHI	09/17/24 17:25
Total/NA	Analysis	8260D		1	786956	EA	EET CHI	09/20/24 06:59
Total/NA	Prep	3546			787759	LH	EET CHI	09/25/24 16:21
Total/NA	Analysis	8270E		2	787842	WS	EET CHI	09/26/24 19:26
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8081B		10	789114	H7CM	EET CHI	10/04/24 16:55
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8082A		10	788367	H7CM	EET CHI	09/30/24 19:17
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		1	788665	SJ	EET CHI	10/01/24 19:20
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		5	789070	SJ	EET CHI	10/04/24 02:39
Total/NA	Prep	3050B			789647	S1Z	EET CHI	10/08/24 16:25 - 10/08/24 21:25 [1]
Total/NA	Analysis	6010D		5	789834	SJ	EET CHI	10/09/24 15:05
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:33
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		10	788122	AC	EET CHI	09/27/24 13:22

Client Sample ID: SB96 (7.5-10)

Lab Sample ID: 500-256860-8

Date Collected: 09/16/24 13:44

Matrix: Solid

Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787463	ST	EET CHI	09/23/24 18:01
Total/NA	Analysis	Moisture		1	787498	ER	EET CHI	09/24/24 11:25

Client Sample ID: SB96 (7.5-10)

Lab Sample ID: 500-256860-8

Date Collected: 09/16/24 13:44

Matrix: Solid

Date Received: 09/17/24 12:30

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786743		EET CHI	09/17/24 17:25
Total/NA	Analysis	8260D		1	786956	EA	EET CHI	09/20/24 07:24
Total/NA	Prep	3546			787759	LH	EET CHI	09/25/24 16:21
Total/NA	Analysis	8270E		1	787842	WS	EET CHI	09/26/24 16:05
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8081B		10	789114	H7CM	EET CHI	10/04/24 17:06
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8082A		10	788367	H7CM	EET CHI	09/30/24 19:32
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		1	788665	SJ	EET CHI	10/01/24 19:24
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		5	789070	SJ	EET CHI	10/04/24 02:43
Total/NA	Prep	3050B			789647	S1Z	EET CHI	10/08/24 16:25 - 10/08/24 21:25 [1]
Total/NA	Analysis	6010D		5	789834	SJ	EET CHI	10/09/24 15:19
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:34
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		1	788122	AC	EET CHI	09/27/24 12:07

Client Sample ID: SB97 (0-3)

Lab Sample ID: 500-256860-9

Date Collected: 09/16/24 14:30

Matrix: Solid

Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787463	ST	EET CHI	09/23/24 18:03
Total/NA	Analysis	Moisture		1	787498	ER	EET CHI	09/24/24 11:25

Client Sample ID: SB97 (0-3)

Lab Sample ID: 500-256860-9

Date Collected: 09/16/24 14:30

Matrix: Solid

Date Received: 09/17/24 12:30

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786743		EET CHI	09/17/24 17:25
Total/NA	Analysis	8260D		1	786956	EA	EET CHI	09/20/24 07:50
Total/NA	Prep	3546			787759	LH	EET CHI	09/25/24 16:21
Total/NA	Analysis	8270E		1	788258	H7CM	EET CHI	09/30/24 22:45

Client Sample ID: SB97 (0-3)

Lab Sample ID: 500-256860-9

Date Collected: 09/16/24 14:30

Matrix: Solid

Date Received: 09/17/24 12:30

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8081B		10	789114	H7CM	EET CHI	10/04/24 17:18
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8082A		10	788367	H7CM	EET CHI	09/30/24 19:48
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		1	788665	SJ	EET CHI	10/01/24 19:38
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		5	789070	SJ	EET CHI	10/04/24 02:48
Total/NA	Prep	3050B			789647	S1Z	EET CHI	10/08/24 16:25 - 10/08/24 21:25 [1]
Total/NA	Analysis	6010D		5	789834	SJ	EET CHI	10/09/24 15:23
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:36
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		1	788122	AC	EET CHI	09/27/24 12:09

Client Sample ID: SB97 (5-7.5)

Lab Sample ID: 500-256860-10

Date Collected: 09/16/24 14:59

Matrix: Solid

Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787463	ST	EET CHI	09/23/24 17:48
Total/NA	Analysis	Moisture		1	787498	ER	EET CHI	09/24/24 11:25

Client Sample ID: SB97 (5-7.5)

Lab Sample ID: 500-256860-10

Date Collected: 09/16/24 14:59

Matrix: Solid

Date Received: 09/17/24 12:30

Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786743		EET CHI	09/17/24 17:25
Total/NA	Analysis	8260D		1	786956	EA	EET CHI	09/20/24 08:15
Total/NA	Prep	3546			787759	LH	EET CHI	09/25/24 16:21
Total/NA	Analysis	8270E		2	787842	WS	EET CHI	09/26/24 19:51
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8081B		10	789114	H7CM	EET CHI	10/04/24 17:29
Total/NA	Prep	3541			787548	SV	EET CHI	09/24/24 15:36 - 09/24/24 21:18 [1]
Total/NA	Analysis	8082A		10	788367	H7CM	EET CHI	09/30/24 20:03
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		1	788665	SJ	EET CHI	10/01/24 19:42
Total/NA	Prep	3050B			788415	S1Z	EET CHI	09/30/24 17:14 - 09/30/24 22:14 [1]
Total/NA	Analysis	6010D		5	789070	SJ	EET CHI	10/04/24 02:52
Total/NA	Prep	3050B			789647	S1Z	EET CHI	10/08/24 16:25 - 10/08/24 21:25 [1]
Total/NA	Analysis	6010D		5	789834	SJ	EET CHI	10/09/24 15:28
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:38

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB97 (5-7.5)
Lab Sample ID: 500-256860-10

Date Collected: 09/16/24 14:59
Matrix: Solid
Date Received: 09/17/24 12:30
Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		1	788122	AC	EET CHI	09/27/24 12:10

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	02-13-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record

670142 eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARTSOCK	Site Contact:	Date:	COC No 1 of 1 COCs
Company Name PIONEER	Tel/Email: JHARTSOCK@PIONEER...	Lab Contact:	Carrier:	Sampler
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below _____			Lab Sampling
Fax	☒ 2 weeks			
Project Name: 3080 S LAKE SHORE DR	☐ 1 week			Job / SDG No
Site	☐ 2 days			500-256860
PO# 24-0124-103	☐ 1 day			

500-256860 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL	PH	SULFIDE	Sample Specific Notes
1	SB93 (0-3)	9/16/24	900	G	SO	4			XX			
2	SB93 (5-7.5)		909									
3	SB94 (0-3)		1004									
4	SB94 (10.5-15)		1027									
5	SB95 (0-3)		1117									
6	SB95 (5-7.5)		1136								X	
7	SB96 (0-7)		118									
8	SB96 (7.5-10)		144									
9	SB97 (0-3)		230									
10	SB97 (5-7.5)		259									

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 3.5 Corr'd 3.2 | Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	9/17/24	Received by	EETA	9/17/24 1130
Relinquished by	EETA	9/17/24 1230	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by Stephanie Hernandez	EETA	9/17/24 1230

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192759 1
Client Contact: Shipping/Receiving	Phone:	E-Mai Jim Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256860-1
Address: 180 S. Van Buren Avenue	Due Date Requested: 9/30/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

E005

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB95 (5-7.5) (500-256860-6)	9/16/24	11 36 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: David Kunnerdorf	Date/Time: 9/17/24 15:15	Company: EET	Received by: JESSICA RIGDON	Date/Time: 9-18-24 0930	Company: EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:		

Ver: 05/06/2024

Eurofins - Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - CHI Site Name

Cooler unpacked by: JESSICA RIGDON

Cooler Received on 9-18-24 Opened on 9-18-24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used. (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 19 (CF +1.0 °C) Observed Cooler Temp 0.8 °C Corrected Cooler Temp. 1.8 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes) No	
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No	NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	
-Were tamper/custody seals intact and uncompromised?	(Yes) No	NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes) No	
4. Did custody papers accompany the sample(s)?	(Yes) No	
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No	
9 For each sample, does the COC specify preservatives (Y/(N)), # of containers (Y/N), and sample type of grab/comp(Y/(N))?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12. Are these work share samples and all listed on the COC?	(Yes) No	
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes No	NA pH Strip Lot# HC442471
14 Were VOAs on the COC?	Yes No	
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes No	NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No	
17 Was a LL Hg or Me Hg trip blank present?	Yes No	

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved. Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen.

ORIGIN [illegible] (708) 534-5200
SHIPPING DEPT
EUROFINS CP/CA03
2417 [illegible]

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE: [illegible]
ACTWGT: [illegible] LB CAN
CAD: [illegible]

BILL SENDER

TO SAMPLE RECEIVING
EUROFINS - CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203

[illegible]
REF: [illegible] 60 SS

FedEx Express

E

TRK# 0201 7051 7620 9229

WED - 18 SEP 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US CLE

164
6
10:30
A
9229
09.18

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256860-1

Login Number: 256860
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 11:07:54 AM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256930-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
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Revision 2

Authorized for release by
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Job ID: 500-256930-1 — Eurofins Chicago

Job Narrative
500-256930-1

Revision
The report being provided is a revision of the original report sent on 10/8/2024. The report (revision 1) is being revised due to: The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/18/2024 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1º C.

GC/MS VOA
Method 8260D: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: SB98 (7.5-10) (500-256930-2). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantized with this internal standard.

Method 8260D: Surrogate recovery for the following samples were outside control limits: SB99 (10-12.5) (500-256930-4), SB101 (0-3) (500-256930-7), SB101 (12.5-15) (500-256930-8) and SB102 (0-3) (500-256930-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: SB102 (7.5-10) (500-256930-10). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-788023 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 500-788023 recovered above the upper control limit for 2-Nitroaniline, bis(chloroisopropyl) ether and N-Nitrosodi-n-propylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB99 (10-12.5) (500-256930-4) and SB101 (12.5-15) (500-256930-8). These results have been reported and qualified.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: SB102 (7.5-10) (500-256930-10). Elevated reporting limits (RLs) are provided.

Method 8270E: Surrogate recovery for the following samples were outside control limits: SB101 (0-3) (500-256930-7) and SB102 (0-3) (500-256930-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB99 (10-12.5) (500-256930-4), SB101 (12.5-15) (500-256930-8) and SB102 (7.5-10) (500-256930-10). Elevated reporting limits (RLs) are provided.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB99 (10-12.5) (500-256930-4). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside control limits: SB101 (12.5-15) (500-256930-8). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-787618 and analytical batch 500-788962 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected

because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB99 (0-3) (500-256930-3), SB100 (0-3) (500-256930-5), SB100 (3-5) (500-256930-6), SB102 (0-3) (500-256930-9), (500-256930-D-5-C MS) and (500-256930-D-5-D MSD). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB98 (0-3) (500-256930-1), SB98 (7.5-10) (500-256930-2), SB99 (0-3) (500-256930-3), SB99 (10-12.5) (500-256930-4), SB100 (0-3) (500-256930-5), SB100 (3-5) (500-256930-6), SB101 (0-3) (500-256930-7), SB101 (12.5-15) (500-256930-8), SB102 (0-3) (500-256930-9), SB102 (7.5-10) (500-256930-10), (500-256930-D-5-C MS) and (500-256930-D-5-D MSD). Elevated reporting limits (RLs) are provided.

Method 8082A: The following samples required a dilution due to the nature of the sample matrix: SB98 (0-3) (500-256930-1), SB98 (7.5-10) (500-256930-2), SB99 (0-3) (500-256930-3), SB100 (0-3) (500-256930-5), SB100 (3-5) (500-256930-6) and SB101 (0-3) (500-256930-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: (500-256930-D-5-E MS) and (500-256930-D-5-F MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: SB98 (0-3) (500-256930-1), SB98 (7.5-10) (500-256930-2), SB99 (0-3) (500-256930-3), SB100 (0-3) (500-256930-5), SB100 (3-5) (500-256930-6) and SB101 (0-3) (500-256930-7).

Method 8082A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: SB99 (0-3) (500-256930-3).

Method 8082A: The laboratory control sample (LCS) for preparation batch 500-787618 and analytical batch 500-788966 recovered outside control limits for the following analytes: PCB-1260. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 9045D: The following pH sample was analyzed outside of analytical holding time due to QC failure during initial analysis. Reanalysis confirms initial results. Initial result has been reported as Primary: SB99 (0-3) (500-256930-3), SB100 (0-3) (500-256930-5), SB100 (3-5) (500-256930-6), SB101 (0-3) (500-256930-7), SB101 (12.5-15) (500-256930-8), SB102 (0-3) (500-256930-9) and SB102 (7.5-10) (500-256930-10).

Method 9045D: CCV is outside control limits.Samples were reanalyzed outside of hold with non-confirming results.Both sets of data have been reported.

SB100 (0-3) (500-256930-5), SB100 (3-5) (500-256930-6), SB101 (0-3) (500-256930-7), SB101 (12.5-15) (500-256930-8), SB102 (0-3) (500-256930-9) and SB102 (7.5-10) (500-256930-10)

Method 9012B: Reanalysis of the following sample was performed outside of the analytical holding time due to over cal range in initial data : SB99 (0-3) (500-256930-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SB98 (0-3) — Lab Sample ID: 500-256930-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0013	J	0.0053	0.00098	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.0099	J	0.033	0.0056	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.012	J	0.033	0.0068	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.076		0.033	0.0070	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.090		0.033	0.032	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.16		0.033	0.032	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.11		0.033	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.061		0.033	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.10		0.033	0.0088	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.12		0.033	0.0077	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.096		0.033	0.032	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.0094	J	0.033	0.0060	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.082		0.033	0.0072	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.11		0.033	0.0091	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.0097	J	0.067	0.0067	mg/Kg	1	☼	8270E	Total/NA
Aluminum	18000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.0	F1	0.97		mg/Kg	1	☼	6010D	Total/NA
Barium	180	F1	0.97		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.9	F1	0.39		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.30	F1	0.19		mg/Kg	1	☼	6010D	Total/NA
Calcium	130000		97		mg/Kg	5	☼	6010D	Total/NA
Chromium	54	F1 F2	0.97		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.9		0.48		mg/Kg	1	☼	6010D	Total/NA
Copper	39	F1	0.97		mg/Kg	1	☼	6010D	Total/NA
Iron	40000	F2	97		mg/Kg	5	☼	6010D	Total/NA
Lead	53		0.48		mg/Kg	1	☼	6010D	Total/NA
Magnesium	15000	F2	9.7		mg/Kg	1	☼	6010D	Total/NA
Manganese	4600		4.8		mg/Kg	5	☼	6010D	Total/NA
Nickel	22		0.97		mg/Kg	1	☼	6010D	Total/NA
Potassium	1200	F1	48		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.5	F1	0.97		mg/Kg	1	☼	6010D	Total/NA
Sodium	660	F1	97		mg/Kg	1	☼	6010D	Total/NA
Thallium	22	F1	4.8		mg/Kg	5	☼	6010D	Total/NA
Vanadium	26	F1 F2	0.48		mg/Kg	1	☼	6010D	Total/NA
Zinc	100	F1	1.9		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	15		2.4		mg/Kg	10	☼	9012B	Total/NA
pH	8.65		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB98 (7.5-10) — Lab Sample ID: 500-256930-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0023	J	0.0052	0.00096	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0022		0.0021	0.00042	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.021	J	0.036	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.061		0.036	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.050		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.097		0.036	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.051		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.068		0.036	0.0095	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.079		0.036	0.0083	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.041		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB98 (7.5-10) (Continued)
Lab Sample ID: 500-256930-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.011	J	0.036	0.0065	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.35		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.072		0.036	0.0098	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.035	J	0.073	0.0072	mg/Kg	1	☼	8270E	Total/NA
Aluminum	22000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.6		4.7		mg/Kg	5	☼	6010D	Total/NA
Barium	290		4.7		mg/Kg	5	☼	6010D	Total/NA
Beryllium	4.2		1.9		mg/Kg	5	☼	6010D	Total/NA
Calcium	220000		94		mg/Kg	5	☼	6010D	Total/NA
Chromium	170		0.94		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.8		0.47		mg/Kg	1	☼	6010D	Total/NA
Copper	28		4.7		mg/Kg	5	☼	6010D	Total/NA
Iron	82000		94		mg/Kg	5	☼	6010D	Total/NA
Lead	29		2.3		mg/Kg	5	☼	6010D	Total/NA
Magnesium	14000		9.4		mg/Kg	1	☼	6010D	Total/NA
Manganese	21000		19		mg/Kg	20	☼	6010D	Total/NA
Nickel	9.6		4.7		mg/Kg	5	☼	6010D	Total/NA
Potassium	1400		47		mg/Kg	1	☼	6010D	Total/NA
Selenium	11		4.7		mg/Kg	5	☼	6010D	Total/NA
Sodium	660		94		mg/Kg	1	☼	6010D	Total/NA
Thallium	95		19		mg/Kg	20	☼	6010D	Total/NA
Vanadium	250		2.3		mg/Kg	5	☼	6010D	Total/NA
Zinc	76		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.035		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	11		2.3		mg/Kg	10	☼	9012B	Total/NA
pH	9.95		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB99 (0-3)
Lab Sample ID: 500-256930-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0072		0.0061	0.0011	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.098		0.036	0.0073	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.043		0.036	0.0061	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.31		0.036	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	1.9		0.036	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	2.0		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	3.3		0.036	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.1		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.2		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	2.1		0.036	0.0094	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.36		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	3.0		0.036	0.0083	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.077		0.036	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.1		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.021	J	0.036	0.0065	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.98		0.036	0.0078	mg/Kg	1	☼	8270E	Total/NA
Pyrene	3.2		0.036	0.0098	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.021	J	0.072	0.0072	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.14	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.042	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	22000		20		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB99 (0-3) (Continued)
Lab Sample ID: 500-256930-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	340		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.9		0.41		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.38		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	220000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	430		5.1		mg/Kg	5	☼	6010D	Total/NA
Cobalt	4.6		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	23		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	49000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	57		0.51		mg/Kg	1	☼	6010D	Total/NA
Magnesium	26000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	11000		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	14		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1400		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.9		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	800		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	48		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	73		0.51		mg/Kg	1	☼	6010D	Total/NA
Zinc	110		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.075		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	60	H	24		mg/Kg	100	☼	9012B	Total/NA
pH	10.15		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB99 (10-12.5)
Lab Sample ID: 500-256930-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0020	J	0.0099	0.0018	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.013	J	0.050	0.010	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.13		0.050	0.0085	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.016	J	0.050	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.023	J	0.050	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.025	J	0.050	0.011	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.028	J	0.050	0.013	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.042	J	0.050	0.012	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.21		0.050	0.0090	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.054		0.050	0.011	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.057		0.050	0.014	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.018	J	0.10	0.010	mg/Kg	1	☼	8270E	Total/NA
Aluminum	36000		30		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.4		1.5		mg/Kg	1	☼	6010D	Total/NA
Barium	480		1.5		mg/Kg	1	☼	6010D	Total/NA
Beryllium	5.6		0.60		mg/Kg	1	☼	6010D	Total/NA
Calcium	270000		150		mg/Kg	5	☼	6010D	Total/NA
Chromium	150		1.5		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.9		0.75		mg/Kg	1	☼	6010D	Total/NA
Copper	15		1.5		mg/Kg	1	☼	6010D	Total/NA
Iron	27000		150		mg/Kg	5	☼	6010D	Total/NA
Lead	16		0.75		mg/Kg	1	☼	6010D	Total/NA
Magnesium	48000		15		mg/Kg	1	☼	6010D	Total/NA
Manganese	11000		7.5		mg/Kg	5	☼	6010D	Total/NA
Nickel	9.3		1.5		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB99 (10-12.5) (Continued)
Lab Sample ID: 500-256930-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1300		75		mg/Kg	1	☼	6010D	Total/NA
Selenium	4.2		1.5		mg/Kg	1	☼	6010D	Total/NA
Sodium	1000		150		mg/Kg	1	☼	6010D	Total/NA
Thallium	50		7.5		mg/Kg	5	☼	6010D	Total/NA
Vanadium	73		0.75		mg/Kg	1	☼	6010D	Total/NA
Zinc	32		3.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	4.9		0.32		mg/Kg	1	☼	9012B	Total/NA
pH	11.88		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB100 (0-3)
Lab Sample ID: 500-256930-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0015	J	0.0020	0.00063	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0046	J	0.0050	0.00092	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.012	J	0.033	0.0067	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.12		0.033	0.0056	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.090		0.033	0.0068	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.51		0.033	0.0070	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.54		0.033	0.032	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.1		0.033	0.032	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.55		0.033	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.38		0.033	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.69		0.033	0.0087	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.16		0.033	0.033	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.89		0.033	0.0077	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.012	J	0.033	0.0098	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.51		0.033	0.032	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.014	J	0.033	0.0060	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.15		0.033	0.0072	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.83		0.033	0.0091	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.051	J	0.17	0.013	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.016	J	0.17	0.012	mg/Kg	1	☼	8270E	Total/NA
Aluminum	18000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.1		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	270		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	3.6		0.41		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.77		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	180000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	190		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.1		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	85		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	76000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	130		0.51		mg/Kg	1	☼	6010D	Total/NA
Magnesium	25000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	8800		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	23		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1200		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	980		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	40		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	78		0.51		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB100 (0-3) (Continued)
Lab Sample ID: 500-256930-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	260		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.018		0.015		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.7		0.23		mg/Kg	1	☼	9012B	Total/NA
Sulfide	110		32		mg/Kg	1	☼	9034	Total/NA
pH	9.73	H	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB100 (3-5)
Lab Sample ID: 500-256930-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0060	J	0.012	0.0021	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.0075	J	0.034	0.0070	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.096		0.034	0.0058	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.067		0.034	0.0070	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.36		0.034	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.38		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.79		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.40		0.034	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.27		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.46		0.034	0.0091	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.12		0.034	0.034	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.63		0.034	0.0080	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.36		0.034	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.011	J	0.034	0.0062	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.10		0.034	0.0075	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.55		0.034	0.0094	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.038	J	0.17	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	16000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.0		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	210		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.9		0.42		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.54		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	170000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	300		5.3		mg/Kg	5	☼	6010D	Total/NA
Cobalt	6.0		0.53		mg/Kg	1	☼	6010D	Total/NA
Copper	130		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	75000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	75		0.53		mg/Kg	1	☼	6010D	Total/NA
Magnesium	21000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	8100		5.3		mg/Kg	5	☼	6010D	Total/NA
Nickel	27		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1100		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	810		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	36		5.3		mg/Kg	5	☼	6010D	Total/NA
Vanadium	87		0.53		mg/Kg	1	☼	6010D	Total/NA
Zinc	170		2.1		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	3.4		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	9.75	H	0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB101 (0-3)
Lab Sample ID: 500-256930-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0066		0.0054	0.0010	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.0077	J	0.035	0.0060	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.0092	J	0.035	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.074		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.065		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.17		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.085		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.053		0.035	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.11		0.035	0.0094	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.13		0.035	0.0083	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.069		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.044		0.035	0.0078	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.13		0.035	0.0097	mg/Kg	1	☼	8270E	Total/NA
Butyl benzyl phthalate	0.082	J	0.18	0.018	mg/Kg	1	☼	8270E	Total/NA
Aluminum	16000		21		mg/Kg	1	☼	6010D	Total/NA
Antimony	5.3		2.1		mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.7		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	210		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.8		0.43		mg/Kg	1	☼	6010D	Total/NA
Cadmium	5.4		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	210000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	310		21		mg/Kg	20	☼	6010D	Total/NA
Cobalt	6.7		0.53		mg/Kg	1	☼	6010D	Total/NA
Copper	110		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	74000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	120		0.53		mg/Kg	1	☼	6010D	Total/NA
Magnesium	39000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	8700		21		mg/Kg	20	☼	6010D	Total/NA
Nickel	63		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	340		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	6.4		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	290		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	42		21		mg/Kg	20	☼	6010D	Total/NA
Vanadium	310		0.53		mg/Kg	1	☼	6010D	Total/NA
Zinc	290		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.15		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	14		2.5		mg/Kg	10	☼	9012B	Total/NA
pH	11.58	H	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB101 (12.5-15)
Lab Sample ID: 500-256930-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0036	J	0.0079	0.0015	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.025	J	0.041	0.0084	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.021	J	0.041	0.0084	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.13		0.041	0.0087	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.27		0.041	0.040	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.33		0.041	0.039	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.23		0.041	0.0089	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.12		0.041	0.016	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.16		0.041	0.011	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB101 (12.5-15) (Continued)
Lab Sample ID: 500-256930-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.069		0.041	0.041	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.15		0.041	0.0096	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.22		0.041	0.040	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.0076	J	0.041	0.0074	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.087		0.041	0.0090	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.16		0.041	0.011	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.017	J	0.21	0.016	mg/Kg	1	☼	8270E	Total/NA
Aluminum	28000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	280		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.7		0.43		mg/Kg	1	☼	6010D	Total/NA
Calcium	220000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	83		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.8		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	6.0		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	28000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	8.8		0.54		mg/Kg	1	☼	6010D	Total/NA
Magnesium	30000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	5700		5.4		mg/Kg	5	☼	6010D	Total/NA
Nickel	3.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	930		54		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.5		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	590		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	26		5.4		mg/Kg	5	☼	6010D	Total/NA
Vanadium	19		0.54		mg/Kg	1	☼	6010D	Total/NA
Zinc	12		2.1		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	49		5.9		mg/Kg	20	☼	9012B	Total/NA
pH	11.32	H	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB102 (0-3)
Lab Sample ID: 500-256930-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.013		0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.014	J	0.035	0.0073	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.029	J	0.035	0.0061	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.040		0.035	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.45		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.28		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.73		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.35		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.25		0.035	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.73		0.035	0.0094	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.088		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	1.3		0.035	0.0083	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.33		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.048		0.035	0.0064	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.25		0.035	0.0078	mg/Kg	1	☼	8270E	Total/NA
Pyrene	1.5		0.035	0.0097	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.021	J	0.072	0.0072	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.027	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.032	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB102 (0-3) (Continued)
Lab Sample ID: 500-256930-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	0.33		0.18		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.33		0.18		mg/Kg	10	☼	8082A	Total/NA
Aluminum	14000		21		mg/Kg	1	☼	6010D	Total/NA
Barium	210		5.2		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.3		2.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	2.7		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	240000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	980		21		mg/Kg	20	☼	6010D	Total/NA
Cobalt	6.1		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	29		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	98000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	77		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	32000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	27000		21		mg/Kg	20	☼	6010D	Total/NA
Nickel	41		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	300		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	15		5.2		mg/Kg	5	☼	6010D	Total/NA
Sodium	530		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	120		21		mg/Kg	20	☼	6010D	Total/NA
Vanadium	720		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	96		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.18		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	7.0		2.3		mg/Kg	10	☼	9012B	Total/NA
pH	11.78	H	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB102 (7.5-10)
Lab Sample ID: 500-256930-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.048	J	0.069	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.12		0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.28		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.25		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.37		0.069	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.66		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.12		0.069	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.35		0.069	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.69		0.069	0.016	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.024	J	0.069	0.020	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.21		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.034	J	0.069	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.76		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.72		0.069	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.088	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.085	J	0.35	0.027	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.050	J	0.35	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	7600		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.0		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	130		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.4		0.41		mg/Kg	1	☼	6010D	Total/NA
Calcium	56000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	200		1.0		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB102 (7.5-10) (Continued)
Lab Sample ID: 500-256930-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	3.7		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	16		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	54000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	23		0.51		mg/Kg	1	☼	6010D	Total/NA
Magnesium	19000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	5900		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	7.6		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	470		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Silver	1.2		0.51		mg/Kg	1	☼	6010D	Total/NA
Sodium	260		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	26		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	65		0.51		mg/Kg	1	☼	6010D	Total/NA
Zinc	54		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	6.9		2.3		mg/Kg	10	☼	9012B	Total/NA
pH	8.87	H	0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256930-1	SB98 (0-3)	Solid	09/17/24 09:11	09/18/24 13:30
500-256930-2	SB98 (7.5-10)	Solid	09/17/24 09:37	09/18/24 13:30
500-256930-3	SB99 (0-3)	Solid	09/17/24 10:29	09/18/24 13:30
500-256930-4	SB99 (10-12.5)	Solid	09/17/24 11:00	09/18/24 13:30
500-256930-5	SB100 (0-3)	Solid	09/17/24 12:05	09/18/24 13:30
500-256930-6	SB100 (3-5)	Solid	09/17/24 12:10	09/18/24 13:30
500-256930-7	SB101 (0-3)	Solid	09/17/24 13:27	09/18/24 13:30
500-256930-8	SB101 (12.5-15)	Solid	09/17/24 13:54	09/18/24 13:30
500-256930-9	SB102 (0-3)	Solid	09/17/24 14:37	09/18/24 13:30
500-256930-10	SB102 (7.5-10)	Solid	09/17/24 14:57	09/18/24 13:30

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB98 (0-3)
Lab Sample ID: 500-256930-1
Date Collected: 09/17/24 09:11
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 94.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00086		0.0021	0.00086	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0021	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
1,1,2-Trichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
1,1-Dichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
1,1-Dichloroethene	<0.00087		0.0021	0.00087	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
1,2-Dichloroethane	<0.0014		0.0053	0.0014	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
2-Butanone (MEK)	<0.0023		0.0053	0.0023	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
2-Hexanone	<0.0032		0.0053	0.0032	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0053	0.0038	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Acetone	<0.0089		0.021	0.0089	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Benzene	<0.00067		0.0021	0.00067	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Bromodichloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Bromomethane	<0.0026		0.0053	0.0026	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Carbon disulfide	**0.0013**	**J**	0.0053	0.00098	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Carbon tetrachloride	<0.00072		0.0021	0.00072	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Chlorobenzene	<0.00090		0.0021	0.00090	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Chloroethane	<0.0017		0.0053	0.0017	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Chloromethane	<0.0010		0.0053	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
cis-1,2-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Dibromochloromethane	<0.00098		0.0021	0.00098	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Methyl tert-butyl ether	<0.00069		0.0021	0.00069	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Methylene Chloride	<0.0023		0.0053	0.0023	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Styrene	<0.00096		0.0021	0.00096	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Toluene	<0.00043		0.0021	0.00043	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Xylenes, Total	<0.00073		0.0042	0.00073	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
trans-1,2-Dichloroethene	<0.00080		0.0021	0.00080	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Trichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1
Vinyl chloride	<0.00087		0.0021	0.00087	mg/Kg	☼	09/18/24 17:20	09/20/24 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*09/18/24 17:20*	*09/20/24 15:36*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*09/18/24 17:20*	*09/20/24 15:36*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/18/24 17:20*	*09/20/24 15:36*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*09/18/24 17:20*	*09/20/24 15:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Acenaphthylene	**0.0099**	**J**	0.033	0.0056	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Anthracene	**0.012**	**J**	0.033	0.0068	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Benzo[a]anthracene	**0.076**		0.033	0.0070	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Benzo[a]pyrene	**0.090**		0.033	0.032	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Benzo[b]fluoranthene	**0.16**		0.033	0.032	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Benzo[g,h,i]perylene	**0.11**		0.033	0.0072	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB98 (0-3)
Lab Sample ID: 500-256930-1
Date Collected: 09/17/24 09:11
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 94.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.061**		0.033	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Chrysene	**0.10**		0.033	0.0088	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Fluoranthene	**0.12**		0.033	0.0077	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Indeno[1,2,3-cd]pyrene	**0.096**		0.033	0.032	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Naphthalene	**0.0094**	**J**	0.033	0.0060	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Phenanthrene	**0.082**		0.033	0.0072	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Pyrene	**0.11**		0.033	0.0091	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2-Methylnaphthalene	**0.0097**	**J**	0.067	0.0067	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Carbazole	<0.013		0.17	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1

Client Sample ID: SB98 (0-3)
Lab Sample ID: 500-256930-1
Date Collected: 09/17/24 09:11
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 94.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Isophorone	<0.017		0.17	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1
Phenol	<0.014		0.17	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*52*		*31 - 166*	*09/26/24 11:11*	*09/27/24 12:49*	*1*
Phenol-d5 (Surr)	*55*		*30 - 153*	*09/26/24 11:11*	*09/27/24 12:49*	*1*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*09/26/24 11:11*	*09/27/24 12:49*	*1*
2-Fluorobiphenyl (Surr)	*52*		*43 - 145*	*09/26/24 11:11*	*09/27/24 12:49*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*31 - 143*	*09/26/24 11:11*	*09/27/24 12:49*	*1*
Terphenyl-d14 (Surr)	*58*		*42 - 157*	*09/26/24 11:11*	*09/27/24 12:49*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0096		0.018	0.0096	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
4,4'-DDE	<0.0092		0.018	0.0092	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
alpha-Chlordane	<0.0095		0.018	0.0095	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Chlordane (technical)	<0.034		0.071	0.034	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
delta-BHC	<0.0085		0.018	0.0085	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Dieldrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Endosulfan I	<0.0096		0.018	0.0096	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Endosulfan sulfate	<0.0098		0.018	0.0098	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Endrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Heptachlor	<0.0096		0.018	0.0096	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Heptachlor epoxide	<0.0096		0.018	0.0096	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*		*33 - 148*	*09/25/24 07:25*	*10/03/24 18:20*	*10*
Tetrachloro-m-xylene	*57*		*30 - 121*	*09/25/24 07:25*	*10/03/24 18:20*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.88		0.88		mg/Kg	☼	09/25/24 07:25	10/04/24 11:54	50
PCB-1221	<0.88		0.88		mg/Kg	☼	09/25/24 07:25	10/04/24 11:54	50

Client Sample ID: SB98 (0-3)
Date Collected: 09/17/24 09:11
Date Received: 09/18/24 13:30

Lab Sample ID: 500-256930-1
Matrix: Solid
Percent Solids: 94.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.88		0.88		mg/Kg	☼	09/25/24 07:25	10/04/24 11:54	50
PCB-1242	<0.88		0.88		mg/Kg	☼	09/25/24 07:25	10/04/24 11:54	50
PCB-1248	<0.88		0.88		mg/Kg	☼	09/25/24 07:25	10/04/24 11:54	50
PCB-1254	<0.88		0.88		mg/Kg	☼	09/25/24 07:25	10/04/24 11:54	50
PCB-1260	<0.88	*+	0.88		mg/Kg	☼	09/25/24 07:25	10/04/24 11:54	50
Polychlorinated biphenyls, Total	<0.88		0.88		mg/Kg	☼	09/25/24 07:25	10/04/24 11:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/25/24 07:25*	*10/04/24 11:54*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/25/24 07:25*	*10/04/24 11:54*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18000**		19		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Antimony	<1.9	F1	1.9		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Arsenic	**6.0**	**F1**	0.97		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Barium	**180**	**F1**	0.97		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Beryllium	**2.9**	**F1**	0.39		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Cadmium	**0.30**	**F1**	0.19		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Calcium	**130000**		97		mg/Kg	☼	10/01/24 14:01	10/05/24 02:06	5
Chromium	**54**	**F1 F2**	0.97		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Cobalt	**4.9**		0.48		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Copper	**39**	**F1**	0.97		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Iron	**40000**	**F2**	97		mg/Kg	☼	10/01/24 14:01	10/05/24 02:06	5
Lead	**53**		0.48		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Magnesium	**15000**	**F2**	9.7		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Manganese	**4600**		4.8		mg/Kg	☼	10/01/24 14:01	10/05/24 02:06	5
Nickel	**22**		0.97		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Potassium	**1200**	**F1**	48		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Selenium	**2.5**	**F1**	0.97		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Silver	<2.4	F1	2.4		mg/Kg	☼	10/01/24 14:01	10/05/24 02:06	5
Sodium	**660**	**F1**	97		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Thallium	**22**	**F1**	4.8		mg/Kg	☼	10/01/24 14:01	10/05/24 02:06	5
Vanadium	**26**	**F1 F2**	0.48		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1
Zinc	**100**	**F1**	1.9		mg/Kg	☼	10/01/24 14:01	10/04/24 03:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016		mg/Kg	☼	10/01/24 17:15	10/02/24 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**15**		2.4		mg/Kg	☼	09/26/24 14:50	09/27/24 14:01	10
pH (SW846 9045D)	**8.65**		0.20		SU			09/24/24 15:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB98 (7.5-10)
Lab Sample ID: 500-256930-2
Date Collected: 09/17/24 09:37
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 90.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00085		0.0021	0.00085	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
1,1,2,2-Tetrachloroethane	<0.0010	*3	0.0021	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
1,1,2-Trichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
1,1-Dichloroethane	<0.00079		0.0021	0.00079	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
1,1-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
1,2-Dichloroethane	<0.0014		0.0052	0.0014	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
2-Hexanone	<0.0032		0.0052	0.0032	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0052	0.0037	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Acetone	<0.0088		0.021	0.0088	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Benzene	<0.00066		0.0021	0.00066	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Bromodichloromethane	<0.00067		0.0021	0.00067	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Bromomethane	<0.0026		0.0052	0.0026	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Carbon disulfide	**0.0023**	**J**	0.0052	0.00096	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Carbon tetrachloride	<0.00071		0.0021	0.00071	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Chlorobenzene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Chloroethane	<0.0017		0.0052	0.0017	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Chloromethane	<0.0010		0.0052	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
cis-1,2-Dichloroethene	<0.00084		0.0021	0.00084	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Dibromochloromethane	<0.00097		0.0021	0.00097	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Methyl tert-butyl ether	<0.00067		0.0021	0.00067	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Methylene Chloride	<0.0022		0.0052	0.0022	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Styrene	<0.00094		0.0021	0.00094	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Toluene	**0.0022**		0.0021	0.00042	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Xylenes, Total	<0.00072		0.0042	0.00072	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
trans-1,2-Dichloroethene	<0.00079		0.0021	0.00079	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Trichloroethene	<0.00057		0.0021	0.00057	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1
Vinyl chloride	<0.00085		0.0021	0.00085	mg/Kg	☼	09/18/24 17:20	09/20/24 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*74*		*70 - 134*	*09/18/24 17:20*	*09/20/24 16:01*	*1*
4-Bromofluorobenzene (Surr)	*119*	*3*	*75 - 131*	*09/18/24 17:20*	*09/20/24 16:01*	*1*
Dibromofluoromethane	*86*		*75 - 126*	*09/18/24 17:20*	*09/20/24 16:01*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*09/18/24 17:20*	*09/20/24 16:01*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.036	0.0073	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Acenaphthylene	<0.0061		0.036	0.0061	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Anthracene	**0.021**	**J**	0.036	0.0073	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Benzo[a]anthracene	**0.061**		0.036	0.0076	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Benzo[a]pyrene	**0.050**		0.036	0.035	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Benzo[b]fluoranthene	**0.097**		0.036	0.034	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Benzo[g,h,i]perylene	**0.051**		0.036	0.0078	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB98 (7.5-10)
Lab Sample ID: 500-256930-2
Date Collected: 09/17/24 09:37
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 90.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.014		0.036	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Chrysene	**0.068**		0.036	0.0095	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Fluoranthene	**0.079**		0.036	0.0083	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Fluorene	<0.011		0.036	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Indeno[1,2,3-cd]pyrene	**0.041**		0.036	0.035	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Naphthalene	**0.011**	**J**	0.036	0.0065	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Phenanthrene	**0.35**		0.036	0.0078	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Pyrene	**0.072**		0.036	0.0098	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2,4-Dimethylphenol	<0.080		0.36	0.080	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2,4-Dinitrophenol	<0.21		0.73	0.21	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2-Methylnaphthalene	**0.035**	**J**	0.073	0.0072	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
2-Nitrophenol	<0.024		0.36	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
3-Nitroaniline	<0.016		0.36	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
4,6-Dinitro-2-methylphenol	<0.20		0.73	0.20	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
4-Chloroaniline	<0.38		0.73	0.38	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
4-Nitrophenol	<0.13		0.73	0.13	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Dimethyl phthalate	<0.0078		0.18	0.0078	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Hexachlorobenzene	<0.0069		0.073	0.0069	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB98 (7.5-10)
Lab Sample ID: 500-256930-2
Date Collected: 09/17/24 09:37
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 90.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.73	0.38	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
N-Nitrosodi-n-propylamine	<0.0071		0.073	0.0071	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Pentachlorophenol	<0.090		0.73	0.090	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*64*		*31 - 166*	*09/26/24 11:11*	*09/27/24 13:14*	*1*
Phenol-d5 (Surr)	*71*		*30 - 153*	*09/26/24 11:11*	*09/27/24 13:14*	*1*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*	*09/26/24 11:11*	*09/27/24 13:14*	*1*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*09/26/24 11:11*	*09/27/24 13:14*	*1*
2,4,6-Tribromophenol (Surr)	*40*		*31 - 143*	*09/26/24 11:11*	*09/27/24 13:14*	*1*
Terphenyl-d14 (Surr)	*85*		*42 - 157*	*09/26/24 11:11*	*09/27/24 13:14*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0099		0.019	0.0099	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
4,4'-DDE	<0.0095		0.019	0.0095	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
delta-BHC	<0.0088		0.019	0.0088	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Dieldrin	<0.0096		0.019	0.0096	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Endrin	<0.0094		0.019	0.0094	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Heptachlor epoxide	<0.0099		0.019	0.0099	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/25/24 07:25	10/03/24 18:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*130*		*33 - 148*	*09/25/24 07:25*	*10/03/24 18:32*	*10*
Tetrachloro-m-xylene	*84*		*30 - 121*	*09/25/24 07:25*	*10/03/24 18:32*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.91		0.91		mg/Kg	☼	09/25/24 07:25	10/04/24 12:09	50
PCB-1221	<0.91		0.91		mg/Kg	☼	09/25/24 07:25	10/04/24 12:09	50

Client Sample ID: SB98 (7.5-10)
Lab Sample ID: 500-256930-2
Date Collected: 09/17/24 09:37
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 90.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.91		0.91		mg/Kg	☼	09/25/24 07:25	10/04/24 12:09	50
PCB-1242	<0.91		0.91		mg/Kg	☼	09/25/24 07:25	10/04/24 12:09	50
PCB-1248	<0.91		0.91		mg/Kg	☼	09/25/24 07:25	10/04/24 12:09	50
PCB-1254	<0.91		0.91		mg/Kg	☼	09/25/24 07:25	10/04/24 12:09	50
PCB-1260	<0.91	*+	0.91		mg/Kg	☼	09/25/24 07:25	10/04/24 12:09	50
Polychlorinated biphenyls, Total	<0.91		0.91		mg/Kg	☼	09/25/24 07:25	10/04/24 12:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/25/24 07:25*	*10/04/24 12:09*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/25/24 07:25*	*10/04/24 12:09*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22000**		19		mg/Kg	☼	10/01/24 14:01	10/04/24 03:44	1
Antimony	<1.9		1.9		mg/Kg	☼	10/01/24 14:01	10/04/24 03:44	1
Arsenic	**5.6**		4.7		mg/Kg	☼	10/01/24 14:01	10/05/24 02:29	5
Barium	**290**		4.7		mg/Kg	☼	10/01/24 14:01	10/05/24 02:29	5
Beryllium	**4.2**		1.9		mg/Kg	☼	10/01/24 14:01	10/05/24 02:29	5
Cadmium	<0.94		0.94		mg/Kg	☼	10/01/24 14:01	10/05/24 02:29	5
Calcium	**220000**		94		mg/Kg	☼	10/01/24 14:01	10/05/24 02:29	5
Chromium	**170**		0.94		mg/Kg	☼	10/01/24 14:01	10/04/24 03:44	1
Cobalt	**5.8**		0.47		mg/Kg	☼	10/01/24 14:01	10/04/24 03:44	1
Copper	**28**		4.7		mg/Kg	☼	10/01/24 14:01	10/05/24 02:29	5
Iron	**82000**		94		mg/Kg	☼	10/01/24 14:01	10/05/24 02:29	5
Lead	**29**		2.3		mg/Kg	☼	10/01/24 14:01	10/05/24 02:29	5
Magnesium	**14000**		9.4		mg/Kg	☼	10/01/24 14:01	10/04/24 03:44	1
Manganese	**21000**		19		mg/Kg	☼	10/01/24 14:01	10/05/24 02:42	20
Nickel	**9.6**		4.7		mg/Kg	☼	10/01/24 14:01	10/05/24 02:29	5
Potassium	**1400**		47		mg/Kg	☼	10/01/24 14:01	10/04/24 03:44	1
Selenium	**11**		4.7		mg/Kg	☼	10/01/24 14:01	10/05/24 02:29	5
Silver	<2.3		2.3		mg/Kg	☼	10/01/24 14:01	10/05/24 02:29	5
Sodium	**660**		94		mg/Kg	☼	10/01/24 14:01	10/04/24 03:44	1
Thallium	**95**		19		mg/Kg	☼	10/01/24 14:01	10/05/24 02:42	20
Vanadium	**250**		2.3		mg/Kg	☼	10/01/24 14:01	10/05/24 02:29	5
Zinc	**76**		1.9		mg/Kg	☼	10/01/24 14:01	10/04/24 03:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**		0.018		mg/Kg	☼	10/01/24 17:15	10/02/24 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**11**		2.3		mg/Kg	☼	09/26/24 14:50	09/27/24 14:06	10
pH (SW846 9045D)	**9.95**		0.20		SU			09/24/24 15:09	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB99 (0-3)
Lab Sample ID: 500-256930-3
Date Collected: 09/17/24 10:29
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 90.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00098		0.0024	0.00098	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
1,1,2-Trichloroethane	<0.00091		0.0024	0.00091	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
1,1-Dichloroethane	<0.00092		0.0024	0.00092	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
1,1-Dichloroethene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
1,2-Dichloroethane	<0.0016		0.0061	0.0016	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
1,2-Dichloropropane	<0.00063		0.0024	0.00063	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
2-Butanone (MEK)	<0.0027		0.0061	0.0027	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
2-Hexanone	<0.0037		0.0061	0.0037	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0061	0.0043	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Acetone	<0.010		0.024	0.010	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Benzene	<0.00076		0.0024	0.00076	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Bromodichloromethane	<0.00078		0.0024	0.00078	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Bromomethane	<0.0030		0.0061	0.0030	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Carbon disulfide	**0.0072**		0.0061	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Carbon tetrachloride	<0.00083		0.0024	0.00083	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Chloroethane	<0.0020		0.0061	0.0020	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Chloroform	<0.0017		0.0024	0.0017	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Chloromethane	<0.0012		0.0061	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
cis-1,2-Dichloroethene	<0.00098		0.0024	0.00098	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
1,3-Dichloropropene, Total	<0.0012		0.0024	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Ethylbenzene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Methyl tert-butyl ether	<0.00078		0.0024	0.00078	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Methylene Chloride	<0.0026		0.0061	0.0026	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Styrene	<0.0011		0.0024	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Tetrachloroethene	<0.0014		0.0024	0.0014	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Toluene	<0.00049		0.0024	0.00049	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Xylenes, Total	<0.00083		0.0049	0.00083	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
trans-1,2-Dichloroethene	<0.00092		0.0024	0.00092	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Trichloroethene	<0.00066		0.0024	0.00066	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1
Vinyl chloride	<0.00099		0.0024	0.00099	mg/Kg	☼	09/18/24 17:20	09/20/24 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*09/18/24 17:20*	*09/20/24 16:25*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*09/18/24 17:20*	*09/20/24 16:25*	*1*
Dibromofluoromethane	*85*		*75 - 126*	*09/18/24 17:20*	*09/20/24 16:25*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/18/24 17:20*	*09/20/24 16:25*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.098**		0.036	0.0073	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Acenaphthylene	**0.043**		0.036	0.0061	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Anthracene	**0.31**		0.036	0.0073	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Benzo[a]anthracene	**1.9**		0.036	0.0076	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Benzo[a]pyrene	**2.0**		0.036	0.035	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Benzo[b]fluoranthene	**3.3**		0.036	0.034	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Benzo[g,h,i]perylene	**1.1**		0.036	0.0078	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB99 (0-3)
Lab Sample ID: 500-256930-3
Date Collected: 09/17/24 10:29
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 90.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.2**		0.036	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Chrysene	**2.1**		0.036	0.0094	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Dibenz(a,h)anthracene	**0.36**		0.036	0.036	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Fluoranthene	**3.0**		0.036	0.0083	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Fluorene	**0.077**		0.036	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Indeno[1,2,3-cd]pyrene	**1.1**		0.036	0.035	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Naphthalene	**0.021**	**J**	0.036	0.0065	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Phenanthrene	**0.98**		0.036	0.0078	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Pyrene	**3.2**		0.036	0.0098	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2,4,5-Trichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2,4-Dimethylphenol	<0.080		0.36	0.080	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2,4-Dinitrophenol	<0.21		0.72	0.21	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2-Methylnaphthalene	**0.021**	**J**	0.072	0.0072	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
2-Nitrophenol	<0.024		0.36	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
3-Nitroaniline	<0.016		0.36	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
4,6-Dinitro-2-methylphenol	<0.20		0.72	0.20	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
4-Chloroaniline	<0.38		0.72	0.38	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
4-Nitroaniline	<0.026		0.36	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
4-Nitrophenol	<0.13		0.72	0.13	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Carbazole	**0.14**	**J**	0.18	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Dibenzofuran	**0.042**	**J**	0.18	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Dimethyl phthalate	<0.0078		0.18	0.0078	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Hexachlorobenzene	<0.0069		0.072	0.0069	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB99 (0-3)
Lab Sample ID: 500-256930-3
Date Collected: 09/17/24 10:29
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 90.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.72	0.38	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Nitrobenzene	<0.011		0.036	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
N-Nitrosodi-n-propylamine	<0.0071		0.072	0.0071	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Pentachlorophenol	<0.090		0.72	0.090	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*69*		*31 - 166*	*09/26/24 11:11*	*09/27/24 13:39*	*1*
Phenol-d5 (Surr)	*73*		*30 - 153*	*09/26/24 11:11*	*09/27/24 13:39*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*09/26/24 11:11*	*09/27/24 13:39*	*1*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*09/26/24 11:11*	*09/27/24 13:39*	*1*
2,4,6-Tribromophenol (Surr)	*37*		*31 - 143*	*09/26/24 11:11*	*09/27/24 13:39*	*1*
Terphenyl-d14 (Surr)	*76*		*42 - 157*	*09/26/24 11:11*	*09/27/24 13:39*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
alpha-BHC	<0.0098		0.018	0.0098	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
alpha-Chlordane	<0.0093		0.018	0.0093	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
delta-BHC	<0.0083		0.018	0.0083	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Endosulfan I	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Endosulfan II	<0.0095		0.018	0.0095	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Endosulfan sulfate	<0.0096		0.018	0.0096	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Endrin aldehyde	<0.0099		0.018	0.0099	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Heptachlor	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Methoxychlor	<0.011		0.086	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/25/24 07:25	10/03/24 18:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*935*	*S1+*	*33 - 148*	*09/25/24 07:25*	*10/03/24 18:43*	*10*
Tetrachloro-m-xylene	*44*		*30 - 121*	*09/25/24 07:25*	*10/03/24 18:43*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10

Client Sample ID: SB99 (0-3)
Date Collected: 09/17/24 10:29
Date Received: 09/18/24 13:30

Lab Sample ID: 500-256930-3
Matrix: Solid
Percent Solids: 90.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
PCB-1260	<0.17	*+	0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 18:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*140*	*S1+*	*49 - 129*	*09/25/24 07:25*	*10/03/24 18:20*	*10*
DCB Decachlorobiphenyl	*92*		*37 - 121*	*09/25/24 07:25*	*10/03/24 18:20*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**22000**		20		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Antimony	<2.0		2.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Arsenic	**3.3**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Barium	**340**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Beryllium	**3.9**		0.41		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Cadmium	**0.38**		0.20		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Calcium	**220000**		100		mg/Kg	☼	10/01/24 14:01	10/05/24 02:47	5
Chromium	**430**		5.1		mg/Kg	☼	10/01/24 14:01	10/05/24 02:47	5
Cobalt	**4.6**		0.51		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Copper	**23**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Iron	**49000**		100		mg/Kg	☼	10/01/24 14:01	10/05/24 02:47	5
Lead	**57**		0.51		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Magnesium	**26000**		10		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Manganese	**11000**		5.1		mg/Kg	☼	10/01/24 14:01	10/05/24 02:47	5
Nickel	**14**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Potassium	**1400**		51		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Selenium	**3.9**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Silver	<2.5		2.5		mg/Kg	☼	10/01/24 14:01	10/05/24 02:47	5
Sodium	**800**		100		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Thallium	**48**		5.1		mg/Kg	☼	10/01/24 14:01	10/05/24 02:47	5
Vanadium	**73**		0.51		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1
Zinc	**110**		2.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.075**		0.017		mg/Kg	☼	10/01/24 17:15	10/02/24 10:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**60**	**H**	24		mg/Kg	☼	09/26/24 14:50	10/07/24 15:04	100
pH (SW846 9045D)	**10.15**		0.20		SU			09/24/24 15:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB99 (10-12.5)
Lab Sample ID: 500-256930-4
Date Collected: 09/17/24 11:00
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 66.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0039	0.0016	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0039	0.0020	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
1,1,2-Trichloroethane	<0.0015		0.0039	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
1,1-Dichloroethane	<0.0015		0.0039	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
1,1-Dichloroethene	<0.0016		0.0039	0.0016	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
1,2-Dichloroethane	<0.0026		0.0099	0.0026	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
1,2-Dichloropropane	<0.0010		0.0039	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
2-Butanone (MEK)	<0.0043		0.0099	0.0043	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
2-Hexanone	<0.0060		0.0099	0.0060	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
4-Methyl-2-pentanone (MIBK)	<0.0070		0.0099	0.0070	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Acetone	<0.017		0.039	0.017	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Benzene	<0.0012		0.0039	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Bromodichloromethane	<0.0013		0.0039	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Bromoform	<0.0023		0.0039	0.0023	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Bromomethane	<0.0049		0.0099	0.0049	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Carbon disulfide	**0.0020**	**J**	0.0099	0.0018	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Carbon tetrachloride	<0.0013		0.0039	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Chlorobenzene	<0.0017		0.0039	0.0017	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Chloroethane	<0.0032		0.0099	0.0032	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Chloroform	<0.0028		0.0039	0.0028	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Chloromethane	<0.0019		0.0099	0.0019	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
cis-1,2-Dichloroethene	<0.0016		0.0039	0.0016	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
1,3-Dichloropropene, Total	<0.0019		0.0039	0.0019	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Dibromochloromethane	<0.0018		0.0039	0.0018	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Ethylbenzene	<0.0021		0.0039	0.0021	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Methyl tert-butyl ether	<0.0013		0.0039	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Methylene Chloride	<0.0042		0.0099	0.0042	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Styrene	<0.0018		0.0039	0.0018	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Tetrachloroethene	<0.0022		0.0039	0.0022	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Toluene	<0.00079		0.0039	0.00079	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Xylenes, Total	<0.0014		0.0079	0.0014	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
trans-1,2-Dichloroethene	<0.0015		0.0039	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Trichloroethene	<0.0011		0.0039	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1
Vinyl chloride	<0.0016		0.0039	0.0016	mg/Kg	☼	09/18/24 17:20	09/20/24 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 134*	*09/18/24 17:20*	*09/20/24 16:49*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*09/18/24 17:20*	*09/20/24 16:49*	*1*
Dibromofluoromethane	*63*	*S1-*	*75 - 126*	*09/18/24 17:20*	*09/20/24 16:49*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/18/24 17:20*	*09/20/24 16:49*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.013**	**J**	0.050	0.010	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Acenaphthylene	**0.13**		0.050	0.0085	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Anthracene	**0.016**	**J**	0.050	0.010	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Benzo[a]anthracene	**0.023**	**J**	0.050	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Benzo[a]pyrene	<0.048		0.050	0.048	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Benzo[b]fluoranthene	<0.048		0.050	0.048	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Benzo[g,h,i]perylene	**0.025**	**J**	0.050	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB99 (10-12.5)
Lab Sample ID: 500-256930-4
Date Collected: 09/17/24 11:00
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 66.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.019		0.050	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Chrysene	**0.028**	**J**	0.050	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Dibenz(a,h)anthracene	<0.050		0.050	0.050	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Fluoranthene	**0.042**	**J**	0.050	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Fluorene	<0.015		0.050	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Indeno[1,2,3-cd]pyrene	<0.049		0.050	0.049	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Naphthalene	**0.21**		0.050	0.0090	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Phenanthrene	**0.054**		0.050	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Pyrene	**0.057**		0.050	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
1,2,4-Trichlorobenzene	<0.036		0.25	0.036	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
1,2-Dichlorobenzene	<0.020		0.25	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
1,3-Dichlorobenzene	<0.023		0.25	0.023	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
1,4-Dichlorobenzene	<0.024		0.25	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2,4,5-Trichlorophenol	<0.019		0.50	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2,4,6-Trichlorophenol	<0.017		0.50	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2,4-Dichlorophenol	<0.018		0.50	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2,4-Dimethylphenol	<0.11		0.50	0.11	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2,4-Dinitrophenol	<0.29		1.0	0.29	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2,4-Dinitrotoluene	<0.028		0.25	0.028	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2,6-Dinitrotoluene	<0.017		0.25	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2-Chloronaphthalene	<0.019		0.25	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2-Chlorophenol	<0.016		0.25	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2-Methylnaphthalene	**0.018**	**J**	0.10	0.010	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2-Methylphenol	<0.026		0.25	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2-Nitroaniline	<0.027		0.25	0.027	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
2-Nitrophenol	<0.034		0.50	0.034	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
3,3'-Dichlorobenzidine	<0.041		0.25	0.041	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
3 & 4 Methylphenol	<0.037		0.25	0.037	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
3-Nitroaniline	<0.023		0.50	0.023	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
4,6-Dinitro-2-methylphenol	<0.28		1.0	0.28	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
4-Bromophenyl phenyl ether	<0.034		0.25	0.034	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
4-Chloro-3-methylphenol	<0.019		0.50	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
4-Chloroaniline	<0.52		1.0	0.52	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
4-Chlorophenyl phenyl ether	<0.066		0.25	0.066	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
4-Nitroaniline	<0.037		0.50	0.037	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
4-Nitrophenol	<0.19		1.0	0.19	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Bis(2-chloroethoxy)methane	<0.019		0.25	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Bis(2-chloroethyl)ether	<0.023		0.25	0.023	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
bis(chloroisopropyl) ether	<0.036		0.25	0.036	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.25	0.20	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Butyl benzyl phthalate	<0.025		0.25	0.025	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Carbazole	<0.020		0.25	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Dibenzofuran	<0.018		0.25	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Diethyl phthalate	<0.023		0.25	0.023	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Dimethyl phthalate	<0.011		0.25	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Di-n-butyl phthalate	<0.016		0.25	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Di-n-octyl phthalate	<0.35		0.50	0.35	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Hexachlorobenzene	<0.0096		0.10	0.0096	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Hexachlorobutadiene	<0.028		0.25	0.028	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB99 (10-12.5)
Lab Sample ID: 500-256930-4
Date Collected: 09/17/24 11:00
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 66.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.53		1.0	0.53	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Hexachloroethane	<0.025		0.25	0.025	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Isophorone	<0.026		0.25	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Nitrobenzene	<0.016		0.050	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
N-Nitrosodi-n-propylamine	<0.0099		0.10	0.0099	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
N-Nitrosodiphenylamine	<0.030		0.25	0.030	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Pentachlorophenol	<0.13		1.0	0.13	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1
Phenol	<0.022		0.25	0.022	mg/Kg	☼	09/26/24 11:11	09/27/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*45*		*31 - 166*	*09/26/24 11:11*	*09/27/24 14:29*	*1*
Phenol-d5 (Surr)	*56*		*30 - 153*	*09/26/24 11:11*	*09/27/24 14:29*	*1*
Nitrobenzene-d5 (Surr)	*80*		*37 - 147*	*09/26/24 11:11*	*09/27/24 14:29*	*1*
2-Fluorobiphenyl (Surr)	*73*		*43 - 145*	*09/26/24 11:11*	*09/27/24 14:29*	*1*
2,4,6-Tribromophenol (Surr)	*28*	*S1-*	*31 - 143*	*09/26/24 11:11*	*09/27/24 14:29*	*1*
Terphenyl-d14 (Surr)	*79*		*42 - 157*	*09/26/24 11:11*	*09/27/24 14:29*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.013		0.025	0.013	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
4,4'-DDE	<0.013		0.025	0.013	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
4,4'-DDT	<0.012		0.025	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Aldrin	<0.017		0.025	0.017	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
alpha-BHC	<0.014		0.025	0.014	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
alpha-Chlordane	<0.013		0.025	0.013	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
beta-BHC	<0.020		0.025	0.020	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Chlordane (technical)	<0.047		0.099	0.047	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
delta-BHC	<0.012		0.025	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Dieldrin	<0.013		0.025	0.013	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Endosulfan I	<0.013		0.025	0.013	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Endosulfan II	<0.014		0.025	0.014	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Endosulfan sulfate	<0.014		0.025	0.014	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Endrin	<0.013		0.025	0.013	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Endrin aldehyde	<0.014		0.025	0.014	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Endrin ketone	<0.012		0.025	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
gamma-BHC (Lindane)	<0.012		0.025	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
gamma-Chlordane	<0.014		0.025	0.014	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Heptachlor	<0.013		0.025	0.013	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Heptachlor epoxide	<0.013		0.025	0.013	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Methoxychlor	<0.016		0.12	0.016	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10
Toxaphene	<0.099		0.25	0.099	mg/Kg	☼	09/25/24 07:25	10/03/24 18:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*33 - 148*	*09/25/24 07:25*	*10/03/24 18:55*	*10*
Tetrachloro-m-xylene	*59*		*30 - 121*	*09/25/24 07:25*	*10/03/24 18:55*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.25		0.25		mg/Kg	☼	09/25/24 07:25	10/03/24 18:35	10
PCB-1221	<0.25		0.25		mg/Kg	☼	09/25/24 07:25	10/03/24 18:35	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB99 (10-12.5)
Lab Sample ID: 500-256930-4

Date Collected: 09/17/24 11:00
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 66.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.25		0.25		mg/Kg	☼	09/25/24 07:25	10/03/24 18:35	10
PCB-1242	<0.25		0.25		mg/Kg	☼	09/25/24 07:25	10/03/24 18:35	10
PCB-1248	<0.25		0.25		mg/Kg	☼	09/25/24 07:25	10/03/24 18:35	10
PCB-1254	<0.25		0.25		mg/Kg	☼	09/25/24 07:25	10/03/24 18:35	10
PCB-1260	<0.25		0.25		mg/Kg	☼	09/25/24 07:25	10/03/24 18:35	10
Polychlorinated biphenyls, Total	<0.25		0.25		mg/Kg	☼	09/25/24 07:25	10/03/24 18:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*35*	*S1-*	*49 - 129*	*09/25/24 07:25*	*10/03/24 18:35*	*10*
DCB Decachlorobiphenyl	*66*		*37 - 121*	*09/25/24 07:25*	*10/03/24 18:35*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**36000**		30		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Antimony	<3.0		3.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Arsenic	**3.4**		1.5		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Barium	**480**		1.5		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Beryllium	**5.6**		0.60		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Cadmium	<0.30		0.30		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Calcium	**270000**		150		mg/Kg	☼	10/01/24 14:01	10/05/24 02:51	5
Chromium	**150**		1.5		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Cobalt	**4.9**		0.75		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Copper	**15**		1.5		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Iron	**27000**		150		mg/Kg	☼	10/01/24 14:01	10/05/24 02:51	5
Lead	**16**		0.75		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Magnesium	**48000**		15		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Manganese	**11000**		7.5		mg/Kg	☼	10/01/24 14:01	10/05/24 02:51	5
Nickel	**9.3**		1.5		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Potassium	**1300**		75		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Selenium	**4.2**		1.5		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Silver	<3.8		3.8		mg/Kg	☼	10/01/24 14:01	10/05/24 02:51	5
Sodium	**1000**		150		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Thallium	**50**		7.5		mg/Kg	☼	10/01/24 14:01	10/05/24 02:51	5
Vanadium	**73**		0.75		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1
Zinc	**32**		3.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.024		0.024		mg/Kg	☼	10/01/24 17:15	10/02/24 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**4.9**		0.32		mg/Kg	☼	09/26/24 14:50	09/27/24 12:36	1
pH (SW846 9045D)	**11.88**		0.20		SU			09/24/24 15:13	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB100 (0-3)
Lab Sample ID: 500-256930-5
Date Collected: 09/17/24 12:05
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 95.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Acetone	<0.0084		0.020	0.0084	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Benzene	**0.0015**	**J**	0.0020	0.00063	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Carbon disulfide	**0.0046**	**J**	0.0050	0.00092	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg	☼	09/18/24 17:20	09/20/24 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*09/18/24 17:20*	*09/20/24 17:14*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*09/18/24 17:20*	*09/20/24 17:14*	*1*
Dibromofluoromethane	*97*		*75 - 126*	*09/18/24 17:20*	*09/20/24 17:14*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*09/18/24 17:20*	*09/20/24 17:14*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.012**	**J**	0.033	0.0067	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Acenaphthylene	**0.12**		0.033	0.0056	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Anthracene	**0.090**		0.033	0.0068	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Benzo[a]anthracene	**0.51**		0.033	0.0070	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Benzo[a]pyrene	**0.54**		0.033	0.032	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Benzo[b]fluoranthene	**1.1**		0.033	0.032	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Benzo[g,h,i]perylene	**0.55**		0.033	0.0072	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB100 (0-3)
Lab Sample ID: 500-256930-5
Date Collected: 09/17/24 12:05
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 95.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.38**		0.033	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Chrysene	**0.69**		0.033	0.0087	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Dibenz(a,h)anthracene	**0.16**		0.033	0.033	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Fluoranthene	**0.89**		0.033	0.0077	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Fluorene	**0.012**	**J**	0.033	0.0098	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Indeno[1,2,3-cd]pyrene	**0.51**		0.033	0.032	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Naphthalene	**0.014**	**J**	0.033	0.0060	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Phenanthrene	**0.15**		0.033	0.0072	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Pyrene	**0.83**		0.033	0.0091	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
1,2-Dichlorobenzene	<0.013		0.17	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2,4,5-Trichlorophenol	<0.012		0.33	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2-Methylphenol	<0.017		0.17	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
2-Nitrophenol	<0.022		0.33	0.022	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
4-Chlorophenyl phenyl ether	<0.043		0.17	0.043	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
4-Nitroaniline	<0.024		0.33	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Butyl benzyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Carbazole	**0.051**	**J**	0.17	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Dibenzofuran	**0.016**	**J**	0.17	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Di-n-butyl phthalate	<0.010		0.17	0.010	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1

Client Sample ID: SB100 (0-3)
Lab Sample ID: 500-256930-5
Date Collected: 09/17/24 12:05
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 95.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Isophorone	<0.017		0.17	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Nitrobenzene	<0.010		0.033	0.010	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
N-Nitrosodi-n-propylamine	<0.0065		0.067	0.0065	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1
Phenol	<0.014		0.17	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*70*		*31 - 166*	*09/26/24 11:11*	*09/27/24 14:54*	*1*
Phenol-d5 (Surr)	*73*		*30 - 153*	*09/26/24 11:11*	*09/27/24 14:54*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*09/26/24 11:11*	*09/27/24 14:54*	*1*
2-Fluorobiphenyl (Surr)	*70*		*43 - 145*	*09/26/24 11:11*	*09/27/24 14:54*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*31 - 143*	*09/26/24 11:11*	*09/27/24 14:54*	*1*
Terphenyl-d14 (Surr)	*80*		*42 - 157*	*09/26/24 11:11*	*09/27/24 14:54*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0090	F2	0.017	0.0090	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
4,4'-DDE	<0.0086		0.017	0.0086	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
4,4'-DDT	<0.0079	F1	0.017	0.0079	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Aldrin	<0.012	F1 F2	0.017	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
alpha-BHC	<0.0094	F2	0.017	0.0094	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
alpha-Chlordane	<0.0089	F1	0.017	0.0089	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
beta-BHC	<0.013	F2	0.017	0.013	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Chlordane (technical)	<0.032		0.066	0.032	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
delta-BHC	<0.0080	F1 F2	0.017	0.0080	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Dieldrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Endosulfan I	<0.0090	F1 F2	0.017	0.0090	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Endosulfan II	<0.0091		0.017	0.0091	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Endosulfan sulfate	<0.0092	F2	0.017	0.0092	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Endrin	<0.0085		0.017	0.0085	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Endrin aldehyde	<0.0095		0.017	0.0095	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Endrin ketone	<0.0081		0.017	0.0081	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
gamma-BHC (Lindane)	<0.0083	F2	0.017	0.0083	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
gamma-Chlordane	<0.0096	F1	0.017	0.0096	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Heptachlor	<0.0090	F1 F2	0.017	0.0090	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Heptachlor epoxide	<0.0090	F1	0.017	0.0090	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Methoxychlor	<0.011	F1	0.082	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10
Toxaphene	<0.067		0.17	0.067	mg/Kg	☼	09/25/24 07:25	10/03/24 19:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*386*	*S1+*	*33 - 148*	*09/25/24 07:25*	*10/03/24 19:06*	*10*
Tetrachloro-m-xylene	*49*		*30 - 121*	*09/25/24 07:25*	*10/03/24 19:06*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 12:39	50
PCB-1221	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 12:39	50

Client Sample ID: SB100 (0-3)
Lab Sample ID: 500-256930-5
Date Collected: 09/17/24 12:05
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 95.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 12:39	50
PCB-1242	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 12:39	50
PCB-1248	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 12:39	50
PCB-1254	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 12:39	50
PCB-1260	<0.83	*+	0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 12:39	50
Polychlorinated biphenyls, Total	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 12:39	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/25/24 07:25*	*10/04/24 12:39*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/25/24 07:25*	*10/04/24 12:39*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18000**		21		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Antimony	<2.1		2.1		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Arsenic	**4.1**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Barium	**270**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Beryllium	**3.6**		0.41		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Cadmium	**0.77**		0.21		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Calcium	**180000**		100		mg/Kg	☼	10/01/24 14:01	10/05/24 02:56	5
Chromium	**190**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Cobalt	**5.1**		0.51		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Copper	**85**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Iron	**76000**		100		mg/Kg	☼	10/01/24 14:01	10/05/24 02:56	5
Lead	**130**		0.51		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Magnesium	**25000**		10		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Manganese	**8800**		5.1		mg/Kg	☼	10/01/24 14:01	10/05/24 02:56	5
Nickel	**23**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Potassium	**1200**		51		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Selenium	**3.3**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Silver	<2.6		2.6		mg/Kg	☼	10/01/24 14:01	10/05/24 02:56	5
Sodium	**980**		100		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Thallium	**40**		5.1		mg/Kg	☼	10/01/24 14:01	10/05/24 02:56	5
Vanadium	**78**		0.51		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1
Zinc	**260**		2.1		mg/Kg	☼	10/01/24 14:01	10/04/24 03:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.015		mg/Kg	☼	10/01/24 17:15	10/02/24 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.7**		0.23		mg/Kg	☼	09/26/24 14:50	09/27/24 12:41	1
Sulfide (SW846 9034)	**110**		32		mg/Kg	☼	09/23/24 10:33	09/23/24 11:24	1
pH (SW846 9045D)	**9.73**	**H**	0.20		SU			09/25/24 13:55	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB100 (3-5)
Lab Sample ID: 500-256930-6
Date Collected: 09/17/24 12:10
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 94.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0046	0.0019	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0046	0.0023	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
1,1,2-Trichloroethane	<0.0017		0.0046	0.0017	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
1,1-Dichloroethane	<0.0017		0.0046	0.0017	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
1,1-Dichloroethene	<0.0019		0.0046	0.0019	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
1,2-Dichloroethane	<0.0030		0.012	0.0030	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
1,2-Dichloropropane	<0.0012		0.0046	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
2-Butanone (MEK)	<0.0051		0.012	0.0051	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
2-Hexanone	<0.0070		0.012	0.0070	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
4-Methyl-2-pentanone (MIBK)	<0.0082		0.012	0.0082	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Acetone	<0.019		0.046	0.019	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Benzene	<0.0015		0.0046	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Bromodichloromethane	<0.0015		0.0046	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Bromoform	<0.0027		0.0046	0.0027	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Bromomethane	<0.0057		0.012	0.0057	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Carbon disulfide	**0.0060**	**J**	0.012	0.0021	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Carbon tetrachloride	<0.0016		0.0046	0.0016	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Chlorobenzene	<0.0020		0.0046	0.0020	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Chloroethane	<0.0038		0.012	0.0038	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Chloroform	<0.0033		0.0046	0.0033	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Chloromethane	<0.0022		0.012	0.0022	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
cis-1,2-Dichloroethene	<0.0019		0.0046	0.0019	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
1,3-Dichloropropene, Total	<0.0022		0.0046	0.0022	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Dibromochloromethane	<0.0021		0.0046	0.0021	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Ethylbenzene	<0.0024		0.0046	0.0024	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Methyl tert-butyl ether	<0.0015		0.0046	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Methylene Chloride	<0.0050		0.012	0.0050	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Styrene	<0.0021		0.0046	0.0021	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Tetrachloroethene	<0.0026		0.0046	0.0026	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Toluene	<0.00093		0.0046	0.00093	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Xylenes, Total	<0.0016		0.0093	0.0016	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
trans-1,2-Dichloroethene	<0.0018		0.0046	0.0018	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Trichloroethene	<0.0013		0.0046	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1
Vinyl chloride	<0.0019		0.0046	0.0019	mg/Kg	☼	09/18/24 17:20	09/20/24 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 134*	*09/18/24 17:20*	*09/20/24 17:38*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*09/18/24 17:20*	*09/20/24 17:38*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*09/18/24 17:20*	*09/20/24 17:38*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*09/18/24 17:20*	*09/20/24 17:38*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0075**	**J**	0.034	0.0070	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Acenaphthylene	**0.096**		0.034	0.0058	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Anthracene	**0.067**		0.034	0.0070	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Benzo[a]anthracene	**0.36**		0.034	0.0073	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Benzo[a]pyrene	**0.38**		0.034	0.033	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Benzo[b]fluoranthene	**0.79**		0.034	0.033	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Benzo[g,h,i]perylene	**0.40**		0.034	0.0075	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB100 (3-5)
Lab Sample ID: 500-256930-6
Date Collected: 09/17/24 12:10
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 94.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.27**		0.034	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Chrysene	**0.46**		0.034	0.0091	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Dibenz(a,h)anthracene	**0.12**		0.034	0.034	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Fluoranthene	**0.63**		0.034	0.0080	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Fluorene	<0.010		0.034	0.010	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Indeno[1,2,3-cd]pyrene	**0.36**		0.034	0.034	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Naphthalene	**0.011**	**J**	0.034	0.0062	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Phenanthrene	**0.10**		0.034	0.0075	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Pyrene	**0.55**		0.034	0.0094	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
1,2,4-Trichlorobenzene	<0.025		0.17	0.025	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
1,3-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2,4-Dimethylphenol	<0.077		0.34	0.077	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2,4-Dinitrophenol	<0.20		0.70	0.20	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2,4-Dinitrotoluene	<0.020		0.17	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2-Methylnaphthalene	<0.0069		0.070	0.0069	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
2-Nitrophenol	<0.023		0.34	0.023	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
3-Nitroaniline	<0.016		0.34	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
4,6-Dinitro-2-methylphenol	<0.19		0.70	0.19	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
4-Bromophenyl phenyl ether	<0.024		0.17	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
4-Chloroaniline	<0.36		0.70	0.36	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
4-Nitroaniline	<0.025		0.34	0.025	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
4-Nitrophenol	<0.13		0.70	0.13	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
bis(chloroisopropyl) ether	<0.025		0.17	0.025	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Bis(2-ethylhexyl) phthalate	<0.14		0.17	0.14	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Carbazole	**0.038**	**J**	0.17	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Dimethyl phthalate	<0.0075		0.17	0.0075	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Hexachlorobenzene	<0.0066		0.070	0.0066	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1

Client Sample ID: SB100 (3-5)
Lab Sample ID: 500-256930-6
Date Collected: 09/17/24 12:10
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 94.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.70	0.37	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
N-Nitrosodi-n-propylamine	<0.0068		0.070	0.0068	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Pentachlorophenol	<0.086		0.70	0.086	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*71*		*31 - 166*	*09/26/24 11:11*	*09/27/24 15:19*	*1*
Phenol-d5 (Surr)	*75*		*30 - 153*	*09/26/24 11:11*	*09/27/24 15:19*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*09/26/24 11:11*	*09/27/24 15:19*	*1*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/26/24 11:11*	*09/27/24 15:19*	*1*
2,4,6-Tribromophenol (Surr)	*52*		*31 - 143*	*09/26/24 11:11*	*09/27/24 15:19*	*1*
Terphenyl-d14 (Surr)	*79*		*42 - 157*	*09/26/24 11:11*	*09/27/24 15:19*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0090		0.017	0.0090	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
4,4'-DDE	<0.0086		0.017	0.0086	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
4,4'-DDT	<0.0079		0.017	0.0079	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
alpha-BHC	<0.0094		0.017	0.0094	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
alpha-Chlordane	<0.0089		0.017	0.0089	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
beta-BHC	<0.013		0.017	0.013	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Chlordane (technical)	<0.032		0.066	0.032	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
delta-BHC	<0.0080		0.017	0.0080	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Dieldrin	<0.0087		0.017	0.0087	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Endosulfan I	<0.0090		0.017	0.0090	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Endosulfan II	<0.0092		0.017	0.0092	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Endosulfan sulfate	<0.0093		0.017	0.0093	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Endrin	<0.0085		0.017	0.0085	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Endrin aldehyde	<0.0095		0.017	0.0095	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Endrin ketone	<0.0081		0.017	0.0081	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
gamma-BHC (Lindane)	<0.0083		0.017	0.0083	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
gamma-Chlordane	<0.0096		0.017	0.0096	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Heptachlor	<0.0091		0.017	0.0091	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Heptachlor epoxide	<0.0090		0.017	0.0090	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Methoxychlor	<0.011		0.082	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10
Toxaphene	<0.067		0.17	0.067	mg/Kg	☼	09/25/24 07:25	10/03/24 19:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*261*	*S1+*	*33 - 148*	*09/25/24 07:25*	*10/03/24 19:41*	*10*
Tetrachloro-m-xylene	*56*		*30 - 121*	*09/25/24 07:25*	*10/03/24 19:41*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 14:43	50
PCB-1221	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 14:43	50

Client Sample ID: SB100 (3-5)
Date Collected: 09/17/24 12:10
Date Received: 09/18/24 13:30

Lab Sample ID: 500-256930-6
Matrix: Solid
Percent Solids: 94.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 14:43	50
PCB-1242	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 14:43	50
PCB-1248	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 14:43	50
PCB-1254	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 14:43	50
PCB-1260	<0.83	*+	0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 14:43	50
Polychlorinated biphenyls, Total	<0.83		0.83		mg/Kg	☼	09/25/24 07:25	10/04/24 14:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/25/24 07:25*	*10/04/24 14:43*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/25/24 07:25*	*10/04/24 14:43*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		21		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Antimony	<2.1		2.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Arsenic	**5.0**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Barium	**210**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Beryllium	**2.9**		0.42		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Cadmium	**0.54**		0.21		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Calcium	**170000**		110		mg/Kg	☼	10/01/24 14:01	10/05/24 03:00	5
Chromium	**300**		5.3		mg/Kg	☼	10/01/24 14:01	10/05/24 03:00	5
Cobalt	**6.0**		0.53		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Copper	**130**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Iron	**75000**		110		mg/Kg	☼	10/01/24 14:01	10/05/24 03:00	5
Lead	**75**		0.53		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Magnesium	**21000**		11		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Manganese	**8100**		5.3		mg/Kg	☼	10/01/24 14:01	10/05/24 03:00	5
Nickel	**27**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Potassium	**1100**		53		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Selenium	**2.9**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Silver	<2.6		2.6		mg/Kg	☼	10/01/24 14:01	10/05/24 03:00	5
Sodium	**810**		110		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Thallium	**36**		5.3		mg/Kg	☼	10/01/24 14:01	10/05/24 03:00	5
Vanadium	**87**		0.53		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1
Zinc	**170**		2.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.015		0.015		mg/Kg	☼	10/01/24 17:15	10/02/24 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**3.4**		0.24		mg/Kg	☼	09/26/24 14:50	09/27/24 12:43	1
pH (SW846 9045D)	**9.75**	**H**	0.20		SU			09/25/24 13:59	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB101 (0-3)
Lab Sample ID: 500-256930-7
Date Collected: 09/17/24 13:27
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 90.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00088		0.0022	0.00088	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
1,1,2-Trichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
1,1-Dichloroethane	<0.00081		0.0022	0.00081	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
1,1-Dichloroethene	<0.00089		0.0022	0.00089	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
1,2-Dichloroethane	<0.0014		0.0054	0.0014	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
2-Butanone (MEK)	<0.0024		0.0054	0.0024	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
2-Hexanone	<0.0033		0.0054	0.0033	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0054	0.0038	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Acetone	<0.0091		0.022	0.0091	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Benzene	<0.00068		0.0022	0.00068	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Bromodichloromethane	<0.00069		0.0022	0.00069	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Bromomethane	<0.0027		0.0054	0.0027	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Carbon disulfide	**0.0066**		0.0054	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Carbon tetrachloride	<0.00074		0.0022	0.00074	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Chlorobenzene	<0.00091		0.0022	0.00091	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Chloroethane	<0.0018		0.0054	0.0018	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Chloromethane	<0.0010		0.0054	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
cis-1,2-Dichloroethene	<0.00087		0.0022	0.00087	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Methyl tert-butyl ether	<0.00070		0.0022	0.00070	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Methylene Chloride	<0.0023		0.0054	0.0023	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Styrene	<0.00097		0.0022	0.00097	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Xylenes, Total	<0.00074		0.0043	0.00074	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
trans-1,2-Dichloroethene	<0.00082		0.0022	0.00082	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Trichloroethene	<0.00059		0.0022	0.00059	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1
Vinyl chloride	<0.00088		0.0022	0.00088	mg/Kg	☼	09/18/24 17:20	09/20/24 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*09/18/24 17:20*	*09/20/24 18:02*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*09/18/24 17:20*	*09/20/24 18:02*	*1*
Dibromofluoromethane	*64*	*S1-*	*75 - 126*	*09/18/24 17:20*	*09/20/24 18:02*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*09/18/24 17:20*	*09/20/24 18:02*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.035	0.0073	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Acenaphthylene	**0.0077**	**J**	0.035	0.0060	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Anthracene	**0.0092**	**J**	0.035	0.0073	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Benzo[a]anthracene	**0.074**		0.035	0.0076	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Benzo[a]pyrene	**0.065**		0.035	0.034	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Benzo[b]fluoranthene	**0.17**		0.035	0.034	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Benzo[g,h,i]perylene	**0.085**		0.035	0.0077	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB101 (0-3)
Lab Sample ID: 500-256930-7
Date Collected: 09/17/24 13:27
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 90.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.053**		0.035	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Chrysene	**0.11**		0.035	0.0094	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Fluoranthene	**0.13**		0.035	0.0083	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Fluorene	<0.011		0.035	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Indeno[1,2,3-cd]pyrene	**0.069**		0.035	0.035	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Naphthalene	<0.0064		0.035	0.0064	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Phenanthrene	**0.044**		0.035	0.0078	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Pyrene	**0.13**		0.035	0.0097	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2,4-Dichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2,4-Dimethylphenol	<0.080		0.35	0.080	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2,4-Dinitrophenol	<0.21		0.72	0.21	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2-Methylnaphthalene	<0.0072		0.072	0.0072	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
4,6-Dinitro-2-methylphenol	<0.20		0.72	0.20	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
4-Chloroaniline	<0.37		0.72	0.37	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
4-Nitrophenol	<0.13		0.72	0.13	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Butyl benzyl phthalate	**0.082**	**J**	0.18	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Hexachlorobenzene	<0.0068		0.072	0.0068	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB101 (0-3)
Lab Sample ID: 500-256930-7
Date Collected: 09/17/24 13:27
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 90.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.72	0.38	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
N-Nitrosodi-n-propylamine	<0.0070		0.072	0.0070	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Pentachlorophenol	<0.089		0.72	0.089	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*17*	*S1-*	*31 - 166*	*09/26/24 11:11*	*09/27/24 15:44*	*1*
Phenol-d5 (Surr)	*39*		*30 - 153*	*09/26/24 11:11*	*09/27/24 15:44*	*1*
Nitrobenzene-d5 (Surr)	*39*		*37 - 147*	*09/26/24 11:11*	*09/27/24 15:44*	*1*
2-Fluorobiphenyl (Surr)	*42*	*S1-*	*43 - 145*	*09/26/24 11:11*	*09/27/24 15:44*	*1*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/26/24 11:11*	*09/27/24 15:44*	*1*
Terphenyl-d14 (Surr)	*59*		*42 - 157*	*09/26/24 11:11*	*09/27/24 15:44*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Methoxychlor	<0.012		0.086	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/25/24 07:25	10/03/24 19:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*136*		*33 - 148*	*09/25/24 07:25*	*10/03/24 19:53*	*10*
Tetrachloro-m-xylene	*99*		*30 - 121*	*09/25/24 07:25*	*10/03/24 19:53*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.87		0.87		mg/Kg	☼	09/25/24 07:25	10/04/24 14:58	50
PCB-1221	<0.87		0.87		mg/Kg	☼	09/25/24 07:25	10/04/24 14:58	50

Client Sample ID: SB101 (0-3)
Lab Sample ID: 500-256930-7
Date Collected: 09/17/24 13:27
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 90.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.87		0.87		mg/Kg	☼	09/25/24 07:25	10/04/24 14:58	50
PCB-1242	<0.87		0.87		mg/Kg	☼	09/25/24 07:25	10/04/24 14:58	50
PCB-1248	<0.87		0.87		mg/Kg	☼	09/25/24 07:25	10/04/24 14:58	50
PCB-1254	<0.87		0.87		mg/Kg	☼	09/25/24 07:25	10/04/24 14:58	50
PCB-1260	<0.87	*+	0.87		mg/Kg	☼	09/25/24 07:25	10/04/24 14:58	50
Polychlorinated biphenyls, Total	<0.87		0.87		mg/Kg	☼	09/25/24 07:25	10/04/24 14:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*	*09/25/24 07:25*	*10/04/24 14:58*	*50*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*	*09/25/24 07:25*	*10/04/24 14:58*	*50*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16000**		21		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Antimony	**5.3**		2.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Arsenic	**6.7**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Barium	**210**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Beryllium	**1.8**		0.43		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Cadmium	**5.4**		0.21		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Calcium	**210000**		110		mg/Kg	☼	10/01/24 14:01	10/05/24 03:05	5
Chromium	**310**		21		mg/Kg	☼	10/01/24 14:01	10/07/24 13:53	20
Cobalt	**6.7**		0.53		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Copper	**110**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Iron	**74000**		110		mg/Kg	☼	10/01/24 14:01	10/05/24 03:05	5
Lead	**120**		0.53		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Magnesium	**39000**		11		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Manganese	**8700**		21		mg/Kg	☼	10/01/24 14:01	10/07/24 13:53	20
Nickel	**63**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Potassium	**340**		53		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Selenium	**6.4**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Silver	<2.7		2.7		mg/Kg	☼	10/01/24 14:01	10/05/24 03:05	5
Sodium	**290**		110		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Thallium	**42**		21		mg/Kg	☼	10/01/24 14:01	10/07/24 13:53	20
Vanadium	**310**		0.53		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1
Zinc	**290**		2.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**		0.017		mg/Kg	☼	10/01/24 17:15	10/02/24 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**14**		2.5		mg/Kg	☼	09/26/24 14:50	09/27/24 14:11	10
pH (SW846 9045D)	**11.58**	**H**	0.20		SU			09/25/24 14:03	1

Client Sample ID: SB101 (12.5-15)
Date Collected: 09/17/24 13:54
Date Received: 09/18/24 13:30

Lab Sample ID: 500-256930-8
Matrix: Solid
Percent Solids: 78.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0013		0.0032	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0032	0.0016	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
1,1,2-Trichloroethane	<0.0012		0.0032	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
1,1-Dichloroethane	<0.0012		0.0032	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
1,1-Dichloroethene	<0.0013		0.0032	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
1,2-Dichloroethane	<0.0021		0.0079	0.0021	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
1,2-Dichloropropane	<0.00082		0.0032	0.00082	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
2-Butanone (MEK)	<0.0035		0.0079	0.0035	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
2-Hexanone	<0.0048		0.0079	0.0048	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0079	0.0057	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Acetone	<0.013		0.032	0.013	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Benzene	<0.0010		0.0032	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Bromodichloromethane	<0.0010		0.0032	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Bromoform	<0.0019		0.0032	0.0019	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Bromomethane	<0.0039		0.0079	0.0039	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Carbon disulfide	**0.0036**	**J**	0.0079	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Carbon tetrachloride	<0.0011		0.0032	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Chlorobenzene	<0.0013		0.0032	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Chloroethane	<0.0026		0.0079	0.0026	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Chloroform	<0.0023		0.0032	0.0023	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Chloromethane	<0.0015		0.0079	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
cis-1,2-Dichloroethene	<0.0013		0.0032	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
1,3-Dichloropropene, Total	<0.0015		0.0032	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Dibromochloromethane	<0.0015		0.0032	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Ethylbenzene	<0.0017		0.0032	0.0017	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Methyl tert-butyl ether	<0.0010		0.0032	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Methylene Chloride	<0.0034		0.0079	0.0034	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Styrene	<0.0014		0.0032	0.0014	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Tetrachloroethene	<0.0018		0.0032	0.0018	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Toluene	<0.00064		0.0032	0.00064	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Xylenes, Total	<0.0011		0.0064	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
trans-1,2-Dichloroethene	<0.0012		0.0032	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Trichloroethene	<0.00086		0.0032	0.00086	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1
Vinyl chloride	<0.0013		0.0032	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*09/18/24 17:20*	*09/20/24 18:27*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*	*09/18/24 17:20*	*09/20/24 18:27*	*1*
Dibromofluoromethane	*74*	*S1-*	*75 - 126*	*09/18/24 17:20*	*09/20/24 18:27*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*09/18/24 17:20*	*09/20/24 18:27*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.025**	**J**	0.041	0.0084	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Acenaphthylene	<0.0070		0.041	0.0070	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Anthracene	**0.021**	**J**	0.041	0.0084	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Benzo[a]anthracene	**0.13**		0.041	0.0087	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Benzo[a]pyrene	**0.27**		0.041	0.040	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Benzo[b]fluoranthene	**0.33**		0.041	0.039	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Benzo[g,h,i]perylene	**0.23**		0.041	0.0089	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB101 (12.5-15)
Lab Sample ID: 500-256930-8
Date Collected: 09/17/24 13:54
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 78.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.12**		0.041	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Chrysene	**0.16**		0.041	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Dibenz(a,h)anthracene	**0.069**		0.041	0.041	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Fluoranthene	**0.15**		0.041	0.0096	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Fluorene	<0.012		0.041	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Indeno[1,2,3-cd]pyrene	**0.22**		0.041	0.040	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Naphthalene	**0.0076**	**J**	0.041	0.0074	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Phenanthrene	**0.087**		0.041	0.0090	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Pyrene	**0.16**		0.041	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
1,2,4-Trichlorobenzene	<0.029		0.21	0.029	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
1,2-Dichlorobenzene	<0.017		0.21	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
1,3-Dichlorobenzene	<0.019		0.21	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
1,4-Dichlorobenzene	<0.019		0.21	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2,4,5-Trichlorophenol	<0.016		0.41	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2,4,6-Trichlorophenol	<0.014		0.41	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2,4-Dichlorophenol	<0.015		0.41	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2,4-Dimethylphenol	<0.092		0.41	0.092	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2,4-Dinitrophenol	<0.24		0.83	0.24	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2,4-Dinitrotoluene	<0.023		0.21	0.023	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2,6-Dinitrotoluene	<0.014		0.21	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2-Chloronaphthalene	<0.015		0.21	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2-Chlorophenol	<0.013		0.21	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2-Methylnaphthalene	<0.0083		0.083	0.0083	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2-Methylphenol	<0.022		0.21	0.022	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2-Nitroaniline	<0.022		0.21	0.022	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
2-Nitrophenol	<0.028		0.41	0.028	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
3,3'-Dichlorobenzidine	<0.034		0.21	0.034	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
3 & 4 Methylphenol	<0.030		0.21	0.030	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
3-Nitroaniline	<0.019		0.41	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
4,6-Dinitro-2-methylphenol	<0.23		0.83	0.23	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
4-Bromophenyl phenyl ether	<0.028		0.21	0.028	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
4-Chloro-3-methylphenol	<0.016		0.41	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
4-Chloroaniline	<0.43		0.83	0.43	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
4-Chlorophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
4-Nitroaniline	<0.030		0.41	0.030	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
4-Nitrophenol	<0.15		0.83	0.15	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Bis(2-chloroethoxy)methane	<0.015		0.21	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Bis(2-chloroethyl)ether	<0.019		0.21	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
bis(chloroisopropyl) ether	<0.030		0.21	0.030	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Bis(2-ethylhexyl) phthalate	<0.16		0.21	0.16	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Butyl benzyl phthalate	<0.020		0.21	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Carbazole	**0.017**	**J**	0.21	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Dibenzofuran	<0.015		0.21	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Diethyl phthalate	<0.019		0.21	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Dimethyl phthalate	<0.0089		0.21	0.0089	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Di-n-butyl phthalate	<0.013		0.21	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Di-n-octyl phthalate	<0.29		0.41	0.29	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Hexachlorobenzene	<0.0079		0.083	0.0079	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Hexachlorobutadiene	<0.023		0.21	0.023	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB101 (12.5-15)
Lab Sample ID: 500-256930-8
Date Collected: 09/17/24 13:54
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 78.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.44		0.83	0.44	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Hexachloroethane	<0.021		0.21	0.021	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Isophorone	<0.021		0.21	0.021	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Nitrobenzene	<0.013		0.041	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
N-Nitrosodi-n-propylamine	<0.0081		0.083	0.0081	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
N-Nitrosodiphenylamine	<0.024		0.21	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Pentachlorophenol	<0.10		0.83	0.10	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1
Phenol	<0.018		0.21	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*59*		*31 - 166*	*09/26/24 11:11*	*09/27/24 16:09*	*1*
Phenol-d5 (Surr)	*72*		*30 - 153*	*09/26/24 11:11*	*09/27/24 16:09*	*1*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*09/26/24 11:11*	*09/27/24 16:09*	*1*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*09/26/24 11:11*	*09/27/24 16:09*	*1*
2,4,6-Tribromophenol (Surr)	*29*	*S1-*	*31 - 143*	*09/26/24 11:11*	*09/27/24 16:09*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*09/26/24 11:11*	*09/27/24 16:09*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
4,4'-DDE	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
4,4'-DDT	<0.0099		0.021	0.0099	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Aldrin	<0.014		0.021	0.014	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
alpha-BHC	<0.012		0.021	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
alpha-Chlordane	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
beta-BHC	<0.017		0.021	0.017	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Chlordane (technical)	<0.039		0.082	0.039	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
delta-BHC	<0.0099		0.021	0.0099	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Dieldrin	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Endosulfan I	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Endosulfan II	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Endosulfan sulfate	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Endrin	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Endrin aldehyde	<0.012		0.021	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Endrin ketone	<0.010		0.021	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
gamma-BHC (Lindane)	<0.010		0.021	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
gamma-Chlordane	<0.012		0.021	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Heptachlor	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Heptachlor epoxide	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Methoxychlor	<0.014		0.10	0.014	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10
Toxaphene	<0.083		0.21	0.083	mg/Kg	☼	09/25/24 07:25	10/03/24 20:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*117*		*33 - 148*	*09/25/24 07:25*	*10/03/24 20:05*	*10*
Tetrachloro-m-xylene	*79*		*30 - 121*	*09/25/24 07:25*	*10/03/24 20:05*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.21		0.21		mg/Kg	☼	09/25/24 07:25	10/03/24 20:07	10
PCB-1221	<0.21		0.21		mg/Kg	☼	09/25/24 07:25	10/03/24 20:07	10

Client Sample ID: SB101 (12.5-15)
Lab Sample ID: 500-256930-8

Date Collected: 09/17/24 13:54
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 78.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.21		0.21		mg/Kg	☼	09/25/24 07:25	10/03/24 20:07	10
PCB-1242	<0.21		0.21		mg/Kg	☼	09/25/24 07:25	10/03/24 20:07	10
PCB-1248	<0.21		0.21		mg/Kg	☼	09/25/24 07:25	10/03/24 20:07	10
PCB-1254	<0.21		0.21		mg/Kg	☼	09/25/24 07:25	10/03/24 20:07	10
PCB-1260	<0.21		0.21		mg/Kg	☼	09/25/24 07:25	10/03/24 20:07	10
Polychlorinated biphenyls, Total	<0.21		0.21		mg/Kg	☼	09/25/24 07:25	10/03/24 20:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*49 - 129*	*09/25/24 07:25*	*10/03/24 20:07*	*10*
DCB Decachlorobiphenyl	*17*	*S1-*	*37 - 121*	*09/25/24 07:25*	*10/03/24 20:07*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**28000**		21		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Antimony	<2.1		2.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Arsenic	**2.9**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Barium	**280**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Beryllium	**4.7**		0.43		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Cadmium	<0.21		0.21		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Calcium	**220000**		110		mg/Kg	☼	10/01/24 14:01	10/05/24 03:10	5
Chromium	**83**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Cobalt	**3.8**		0.54		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Copper	**6.0**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Iron	**28000**		110		mg/Kg	☼	10/01/24 14:01	10/05/24 03:10	5
Lead	**8.8**		0.54		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Magnesium	**30000**		11		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Manganese	**5700**		5.4		mg/Kg	☼	10/01/24 14:01	10/05/24 03:10	5
Nickel	**3.9**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Potassium	**930**		54		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Selenium	**2.5**		1.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Silver	<2.7		2.7		mg/Kg	☼	10/01/24 14:01	10/05/24 03:10	5
Sodium	**590**		110		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Thallium	**26**		5.4		mg/Kg	☼	10/01/24 14:01	10/05/24 03:10	5
Vanadium	**19**		0.54		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1
Zinc	**12**		2.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	10/01/24 17:15	10/02/24 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**49**		5.9		mg/Kg	☼	09/26/24 14:50	09/27/24 14:15	20
pH (SW846 9045D)	**11.32**	**H**	0.20		SU			09/25/24 14:07	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB102 (0-3)
Lab Sample ID: 500-256930-9
Date Collected: 09/17/24 14:37
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 89.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00091		0.0022	0.00091	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
1,1,2-Trichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
1,1-Dichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
1,1-Dichloroethene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
1,2-Dichloroethane	<0.0015		0.0056	0.0015	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
1,2-Dichloropropane	<0.00058		0.0022	0.00058	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
2-Butanone (MEK)	<0.0025		0.0056	0.0025	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Acetone	<0.0094		0.022	0.0094	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Benzene	<0.00070		0.0022	0.00070	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Bromodichloromethane	<0.00072		0.0022	0.00072	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Bromomethane	<0.0028		0.0056	0.0028	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Carbon disulfide	**0.013**		0.0056	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Carbon tetrachloride	<0.00076		0.0022	0.00076	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Chlorobenzene	<0.00095		0.0022	0.00095	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
cis-1,2-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Methyl tert-butyl ether	<0.00072		0.0022	0.00072	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Styrene	<0.0010		0.0022	0.0010	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Tetrachloroethene	<0.0013		0.0022	0.0013	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Toluene	<0.00045		0.0022	0.00045	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Xylenes, Total	<0.00077		0.0045	0.00077	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
trans-1,2-Dichloroethene	<0.00085		0.0022	0.00085	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Trichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1
Vinyl chloride	<0.00091		0.0022	0.00091	mg/Kg	☼	09/18/24 17:20	09/20/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*09/18/24 17:20*	*09/20/24 18:51*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*09/18/24 17:20*	*09/20/24 18:51*	*1*
Dibromofluoromethane	*42*	*S1-*	*75 - 126*	*09/18/24 17:20*	*09/20/24 18:51*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*09/18/24 17:20*	*09/20/24 18:51*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.014**	**J**	0.035	0.0073	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Acenaphthylene	**0.029**	**J**	0.035	0.0061	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Anthracene	**0.040**		0.035	0.0073	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Benzo[a]anthracene	**0.45**		0.035	0.0076	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Benzo[a]pyrene	**0.28**		0.035	0.034	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Benzo[b]fluoranthene	**0.73**		0.035	0.034	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Benzo[g,h,i]perylene	**0.35**		0.035	0.0077	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB102 (0-3)
Lab Sample ID: 500-256930-9
Date Collected: 09/17/24 14:37
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.25**		0.035	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Chrysene	**0.73**		0.035	0.0094	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Dibenz(a,h)anthracene	**0.088**		0.035	0.035	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Fluoranthene	**1.3**		0.035	0.0083	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Fluorene	<0.011		0.035	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Indeno[1,2,3-cd]pyrene	**0.33**		0.035	0.035	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Naphthalene	**0.048**		0.035	0.0064	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Phenanthrene	**0.25**		0.035	0.0078	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Pyrene	**1.5**		0.035	0.0097	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2,4-Dichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2,4-Dimethylphenol	<0.080		0.35	0.080	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2,4-Dinitrophenol	<0.21		0.72	0.21	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2-Methylnaphthalene	**0.021**	**J**	0.072	0.0072	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
4,6-Dinitro-2-methylphenol	<0.20		0.72	0.20	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
4-Chloroaniline	<0.37		0.72	0.37	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
4-Nitrophenol	<0.13		0.72	0.13	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Carbazole	**0.027**	**J**	0.18	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Dibenzofuran	**0.032**	**J**	0.18	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Hexachlorobenzene	<0.0068		0.072	0.0068	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB102 (0-3)
Lab Sample ID: 500-256930-9
Date Collected: 09/17/24 14:37
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 89.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.72	0.38	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
N-Nitrosodi-n-propylamine	<0.0070		0.072	0.0070	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Pentachlorophenol	<0.089		0.72	0.089	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*16*	*S1-*	*31 - 166*	*09/26/24 11:11*	*09/27/24 16:34*	*1*
Phenol-d5 (Surr)	*46*		*30 - 153*	*09/26/24 11:11*	*09/27/24 16:34*	*1*
Nitrobenzene-d5 (Surr)	*63*		*37 - 147*	*09/26/24 11:11*	*09/27/24 16:34*	*1*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*09/26/24 11:11*	*09/27/24 16:34*	*1*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/26/24 11:11*	*09/27/24 16:34*	*1*
Terphenyl-d14 (Surr)	*75*		*42 - 157*	*09/26/24 11:11*	*09/27/24 16:34*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0099		0.018	0.0099	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
4,4'-DDE	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
4,4'-DDT	<0.0087		0.018	0.0087	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
alpha-Chlordane	<0.0098		0.018	0.0098	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
delta-BHC	<0.0088		0.018	0.0088	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Dieldrin	<0.0096		0.018	0.0096	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Endosulfan I	<0.0099		0.018	0.0099	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Endosulfan II	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Endrin	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Endrin ketone	<0.0089		0.018	0.0089	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
gamma-BHC (Lindane)	<0.0091		0.018	0.0091	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
gamma-Chlordane	<0.011		0.018	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Heptachlor	<0.0099		0.018	0.0099	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Heptachlor epoxide	<0.0099		0.018	0.0099	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Methoxychlor	<0.012		0.090	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10
Toxaphene	<0.073		0.18	0.073	mg/Kg	☼	09/25/24 07:25	10/03/24 20:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*211*	*S1+*	*33 - 148*	*09/25/24 07:25*	*10/03/24 20:16*	*10*
Tetrachloro-m-xylene	*103*		*30 - 121*	*09/25/24 07:25*	*10/03/24 20:16*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/25/24 07:25	10/04/24 11:39	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/25/24 07:25	10/04/24 11:39	10

Client Sample ID: SB102 (0-3)
Date Collected: 09/17/24 14:37
Date Received: 09/18/24 13:30

Lab Sample ID: 500-256930-9
Matrix: Solid
Percent Solids: 89.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/25/24 07:25	10/04/24 11:39	10
PCB-1242	**0.33**		0.18		mg/Kg	☼	09/25/24 07:25	10/04/24 11:39	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/25/24 07:25	10/04/24 11:39	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/25/24 07:25	10/04/24 11:39	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/25/24 07:25	10/04/24 11:39	10
Polychlorinated biphenyls, Total	**0.33**		0.18		mg/Kg	☼	09/25/24 07:25	10/04/24 11:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*49 - 129*	*09/25/24 07:25*	*10/04/24 11:39*	*10*
DCB Decachlorobiphenyl	*112*		*37 - 121*	*09/25/24 07:25*	*10/04/24 11:39*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		21		mg/Kg	☼	10/01/24 14:01	10/04/24 04:27	1
Antimony	<2.1		2.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:27	1
Arsenic	<21		21		mg/Kg	☼	10/01/24 14:01	10/05/24 03:19	20
Barium	**210**		5.2		mg/Kg	☼	10/01/24 14:01	10/05/24 03:14	5
Beryllium	**2.3**		2.1		mg/Kg	☼	10/01/24 14:01	10/05/24 03:14	5
Cadmium	**2.7**		1.0		mg/Kg	☼	10/01/24 14:01	10/05/24 03:14	5
Calcium	**240000**		100		mg/Kg	☼	10/01/24 14:01	10/05/24 03:14	5
Chromium	**980**		21		mg/Kg	☼	10/01/24 14:01	10/05/24 03:19	20
Cobalt	**6.1**		0.52		mg/Kg	☼	10/01/24 14:01	10/04/24 04:27	1
Copper	**29**		5.2		mg/Kg	☼	10/01/24 14:01	10/05/24 03:14	5
Iron	**98000**		100		mg/Kg	☼	10/01/24 14:01	10/05/24 03:14	5
Lead	**77**		2.6		mg/Kg	☼	10/01/24 14:01	10/05/24 03:14	5
Magnesium	**32000**		10		mg/Kg	☼	10/01/24 14:01	10/04/24 04:27	1
Manganese	**27000**		21		mg/Kg	☼	10/01/24 14:01	10/05/24 03:19	20
Nickel	**41**		5.2		mg/Kg	☼	10/01/24 14:01	10/05/24 03:14	5
Potassium	**300**		52		mg/Kg	☼	10/01/24 14:01	10/04/24 04:27	1
Selenium	**15**		5.2		mg/Kg	☼	10/01/24 14:01	10/05/24 03:14	5
Silver	<2.6		2.6		mg/Kg	☼	10/01/24 14:01	10/05/24 03:14	5
Sodium	**530**		100		mg/Kg	☼	10/01/24 14:01	10/04/24 04:27	1
Thallium	**120**		21		mg/Kg	☼	10/01/24 14:01	10/05/24 03:19	20
Vanadium	**720**		2.6		mg/Kg	☼	10/01/24 14:01	10/05/24 03:14	5
Zinc	**96**		2.1		mg/Kg	☼	10/01/24 14:01	10/04/24 04:27	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**		0.017		mg/Kg	☼	10/01/24 17:15	10/02/24 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**7.0**		2.3		mg/Kg	☼	09/26/24 14:50	09/27/24 14:20	10
pH (SW846 9045D)	**11.78**	**H**	0.20		SU			09/25/24 14:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB102 (7.5-10)
Date Collected: 09/17/24 14:57
Date Received: 09/18/24 13:30

Lab Sample ID: 500-256930-10
Matrix: Solid
Percent Solids: 94.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00083		0.0020	0.00083	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0020	0.0010	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
1,1,2-Trichloroethane	<0.00077		0.0020	0.00077	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
1,1-Dichloroethane	<0.00077		0.0020	0.00077	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
1,1-Dichloroethene	<0.00084		0.0020	0.00084	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
1,2-Dichloroethane	<0.0013		0.0051	0.0013	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
1,2-Dichloropropane	<0.00053		0.0020	0.00053	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
2-Butanone (MEK)	<0.0022		0.0051	0.0022	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
2-Hexanone	<0.0031		0.0051	0.0031	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0051	0.0036	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Acetone	<0.0086		0.020	0.0086	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Benzene	<0.00064		0.0020	0.00064	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Bromodichloromethane	<0.00066		0.0020	0.00066	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Bromomethane	<0.0025		0.0051	0.0025	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Carbon disulfide	<0.00094		0.0051	0.00094	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Carbon tetrachloride	<0.00070		0.0020	0.00070	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Chlorobenzene	<0.00086		0.0020	0.00086	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Chloroethane	<0.0017		0.0051	0.0017	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Chloroform	<0.0015		0.0020	0.0015	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Chloromethane	<0.00099		0.0051	0.00099	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
cis-1,2-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
1,3-Dichloropropene, Total	<0.00098		0.0020	0.00098	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Dibromochloromethane	<0.00095		0.0020	0.00095	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Methyl tert-butyl ether	<0.00066		0.0020	0.00066	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Methylene Chloride	<0.0022		0.0051	0.0022	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Styrene	<0.00092		0.0020	0.00092	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Toluene	<0.00041		0.0020	0.00041	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Xylenes, Total	<0.00070		0.0041	0.00070	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
trans-1,2-Dichloroethene	<0.00077		0.0020	0.00077	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Trichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1
Vinyl chloride	<0.00083		0.0020	0.00083	mg/Kg	☼	09/18/24 17:20	09/23/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*09/18/24 17:20*	*09/23/24 14:29*	*1*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*75 - 131*	*09/18/24 17:20*	*09/23/24 14:29*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*09/18/24 17:20*	*09/23/24 14:29*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*09/18/24 17:20*	*09/23/24 14:29*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.014		0.069	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Acenaphthylene	**0.048**	**J**	0.069	0.012	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Anthracene	**0.12**		0.069	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Benzo[a]anthracene	**0.28**		0.069	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Benzo[a]pyrene	**0.25**		0.069	0.067	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Benzo[b]fluoranthene	**0.37**		0.069	0.066	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Benzo[g,h,i]perylene	**0.66**		0.069	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB102 (7.5-10)
Lab Sample ID: 500-256930-10
Date Collected: 09/17/24 14:57
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 94.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.12**		0.069	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Chrysene	**0.35**		0.069	0.018	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Dibenz(a,h)anthracene	<0.069		0.069	0.069	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Fluoranthene	**0.69**		0.069	0.016	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Fluorene	**0.024**	**J**	0.069	0.020	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Indeno[1,2,3-cd]pyrene	**0.21**		0.069	0.067	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Naphthalene	**0.034**	**J**	0.069	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Phenanthrene	**0.76**		0.069	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Pyrene	**0.72**		0.069	0.019	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
1,2,4-Trichlorobenzene	<0.049		0.35	0.049	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
1,3-Dichlorobenzene	<0.031		0.35	0.031	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2,4,5-Trichlorophenol	<0.026		0.69	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2,4,6-Trichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2,4-Dichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2,4-Dimethylphenol	<0.15		0.69	0.15	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2,4-Dinitrotoluene	<0.039		0.35	0.039	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2-Chlorophenol	<0.022		0.35	0.022	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2-Methylnaphthalene	**0.088**	**J**	0.14	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2-Methylphenol	<0.036		0.35	0.036	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
2-Nitrophenol	<0.047		0.69	0.047	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
3,3'-Dichlorobenzidine	<0.057		0.35	0.057	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
3-Nitroaniline	<0.031		0.69	0.031	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
4-Bromophenyl phenyl ether	<0.047		0.35	0.047	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
4-Chloro-3-methylphenol	<0.027		0.69	0.027	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
4-Chloroaniline	<0.73		1.4	0.73	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
4-Chlorophenyl phenyl ether	<0.091		0.35	0.091	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
4-Nitroaniline	<0.051		0.69	0.051	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Butyl benzyl phthalate	<0.034		0.35	0.034	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Carbazole	**0.085**	**J**	0.35	0.027	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Dibenzofuran	**0.050**	**J**	0.35	0.025	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Di-n-octyl phthalate	<0.48		0.69	0.48	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2

Client Sample ID: SB102 (7.5-10)
Lab Sample ID: 500-256930-10
Date Collected: 09/17/24 14:57
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 94.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.73		1.4	0.73	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Nitrobenzene	<0.022		0.069	0.022	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/26/24 11:11	09/27/24 16:59	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*74*		*31 - 166*	*09/26/24 11:11*	*09/27/24 16:59*	*2*
Phenol-d5 (Surr)	*78*		*30 - 153*	*09/26/24 11:11*	*09/27/24 16:59*	*2*
Nitrobenzene-d5 (Surr)	*73*		*37 - 147*	*09/26/24 11:11*	*09/27/24 16:59*	*2*
2-Fluorobiphenyl (Surr)	*70*		*43 - 145*	*09/26/24 11:11*	*09/27/24 16:59*	*2*
2,4,6-Tribromophenol (Surr)	*75*		*31 - 143*	*09/26/24 11:11*	*09/27/24 16:59*	*2*
Terphenyl-d14 (Surr)	*78*		*42 - 157*	*09/26/24 11:11*	*09/27/24 16:59*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0093		0.017	0.0093	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
4,4'-DDE	<0.0089		0.017	0.0089	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
4,4'-DDT	<0.0082		0.017	0.0082	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Aldrin	<0.012		0.017	0.012	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
alpha-BHC	<0.0097		0.017	0.0097	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
alpha-Chlordane	<0.0092		0.017	0.0092	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
beta-BHC	<0.014		0.017	0.014	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
delta-BHC	<0.0083		0.017	0.0083	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Dieldrin	<0.0090		0.017	0.0090	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Endosulfan I	<0.0093		0.017	0.0093	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Endosulfan II	<0.0095		0.017	0.0095	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Endosulfan sulfate	<0.0096		0.017	0.0096	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Endrin	<0.0088		0.017	0.0088	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Endrin aldehyde	<0.0098		0.017	0.0098	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Endrin ketone	<0.0084		0.017	0.0084	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
gamma-BHC (Lindane)	<0.0086		0.017	0.0086	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
gamma-Chlordane	<0.0099		0.017	0.0099	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Heptachlor	<0.0093		0.017	0.0093	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Heptachlor epoxide	<0.0093		0.017	0.0093	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Methoxychlor	<0.011		0.085	0.011	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/25/24 07:25	10/03/24 20:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*33 - 148*	*09/25/24 07:25*	*10/03/24 20:28*	*10*
Tetrachloro-m-xylene	*44*		*30 - 121*	*09/25/24 07:25*	*10/03/24 20:28*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 20:38	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 20:38	10

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256930-1

Client Sample ID: SB102 (7.5-10)

Date Collected: 09/17/24 14:57
Date Received: 09/18/24 13:30

Lab Sample ID: 500-256930-10

Matrix: Solid
Percent Solids: 94.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 20:38	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 20:38	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 20:38	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 20:38	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 20:38	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/25/24 07:25	10/03/24 20:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*49 - 129*	*09/25/24 07:25*	*10/03/24 20:38*	*10*
DCB Decachlorobiphenyl	*51*		*37 - 121*	*09/25/24 07:25*	*10/03/24 20:38*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7600**		20		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Antimony	<2.0		2.0		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Arsenic	**4.0**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Barium	**130**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Beryllium	**1.4**		0.41		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Cadmium	<0.20		0.20		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Calcium	**56000**		20		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Chromium	**200**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Cobalt	**3.7**		0.51		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Copper	**16**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Iron	**54000**		100		mg/Kg	☼	10/01/24 14:01	10/05/24 03:23	5
Lead	**23**		0.51		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Magnesium	**19000**		10		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Manganese	**5900**		5.1		mg/Kg	☼	10/01/24 14:01	10/05/24 03:23	5
Nickel	**7.6**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Potassium	**470**		51		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Selenium	**2.3**		1.0		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Silver	**1.2**		0.51		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Sodium	**260**		100		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Thallium	**26**		5.1		mg/Kg	☼	10/01/24 14:01	10/05/24 03:23	5
Vanadium	**65**		0.51		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1
Zinc	**54**		2.0		mg/Kg	☼	10/01/24 14:01	10/04/24 04:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	10/01/24 17:15	10/02/24 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**6.9**		2.3		mg/Kg	☼	09/26/24 14:50	09/27/24 14:28	10
pH (SW846 9045D)	**8.87**	**H**	0.20		SU			09/25/24 14:15	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 786752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	5035	
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	5035	
500-256930-3	SB99 (0-3)	Total/NA	Solid	5035	
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	5035	
500-256930-5	SB100 (0-3)	Total/NA	Solid	5035	
500-256930-6	SB100 (3-5)	Total/NA	Solid	5035	
500-256930-7	SB101 (0-3)	Total/NA	Solid	5035	

Prep Batch: 786753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	5035	
500-256930-9	SB102 (0-3)	Total/NA	Solid	5035	
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	5035	

Analysis Batch: 786988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	8260D	786752
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	8260D	786752
500-256930-3	SB99 (0-3)	Total/NA	Solid	8260D	786752
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	8260D	786752
500-256930-5	SB100 (0-3)	Total/NA	Solid	8260D	786752
500-256930-6	SB100 (3-5)	Total/NA	Solid	8260D	786752
500-256930-7	SB101 (0-3)	Total/NA	Solid	8260D	786752
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	8260D	786753
500-256930-9	SB102 (0-3)	Total/NA	Solid	8260D	786753
MB 500-786988/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-786988/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-786988/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 787235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	8260D	786753
MB 500-787235/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-787235/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-787235/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 787895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	3546	
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	3546	
500-256930-3	SB99 (0-3)	Total/NA	Solid	3546	
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	3546	
500-256930-5	SB100 (0-3)	Total/NA	Solid	3546	
500-256930-6	SB100 (3-5)	Total/NA	Solid	3546	
500-256930-7	SB101 (0-3)	Total/NA	Solid	3546	
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	3546	
500-256930-9	SB102 (0-3)	Total/NA	Solid	3546	
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	3546	
MB 500-787895/1-A	Method Blank	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 787895 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-787895/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 788023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	8270E	787895
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	8270E	787895
500-256930-3	SB99 (0-3)	Total/NA	Solid	8270E	787895
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	8270E	787895
500-256930-5	SB100 (0-3)	Total/NA	Solid	8270E	787895
500-256930-6	SB100 (3-5)	Total/NA	Solid	8270E	787895
500-256930-7	SB101 (0-3)	Total/NA	Solid	8270E	787895
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	8270E	787895
500-256930-9	SB102 (0-3)	Total/NA	Solid	8270E	787895
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	8270E	787895
MB 500-787895/1-A	Method Blank	Total/NA	Solid	8270E	787895
LCS 500-787895/2-A	Lab Control Sample	Total/NA	Solid	8270E	787895

GC Semi VOA

Prep Batch: 787618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	3541	
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	3541	
500-256930-3	SB99 (0-3)	Total/NA	Solid	3541	
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	3541	
500-256930-5	SB100 (0-3)	Total/NA	Solid	3541	
500-256930-6	SB100 (3-5)	Total/NA	Solid	3541	
500-256930-7	SB101 (0-3)	Total/NA	Solid	3541	
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	3541	
500-256930-9	SB102 (0-3)	Total/NA	Solid	3541	
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	3541	
MB 500-787618/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-787618/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-787618/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-256930-5 MS	SB100 (0-3)	Total/NA	Solid	3541	
500-256930-5 MS	SB100 (0-3)	Total/NA	Solid	3541	
500-256930-5 MSD	SB100 (0-3)	Total/NA	Solid	3541	
500-256930-5 MSD	SB100 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 788962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	8081B	787618
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	8081B	787618
500-256930-3	SB99 (0-3)	Total/NA	Solid	8081B	787618
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	8081B	787618
500-256930-5	SB100 (0-3)	Total/NA	Solid	8081B	787618
500-256930-6	SB100 (3-5)	Total/NA	Solid	8081B	787618
500-256930-7	SB101 (0-3)	Total/NA	Solid	8081B	787618
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	8081B	787618
500-256930-9	SB102 (0-3)	Total/NA	Solid	8081B	787618
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	8081B	787618

GC Semi VOA (Continued)

Analysis Batch: 788962 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-787618/1-A	Method Blank	Total/NA	Solid	8081B	787618
LCS 500-787618/2-A	Lab Control Sample	Total/NA	Solid	8081B	787618
500-256930-5 MS	SB100 (0-3)	Total/NA	Solid	8081B	787618
500-256930-5 MSD	SB100 (0-3)	Total/NA	Solid	8081B	787618

Analysis Batch: 788966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-3	SB99 (0-3)	Total/NA	Solid	8082A	787618
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	8082A	787618
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	8082A	787618
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	8082A	787618
MB 500-787618/1-A	Method Blank	Total/NA	Solid	8082A	787618
LCS 500-787618/3-A	Lab Control Sample	Total/NA	Solid	8082A	787618

Analysis Batch: 789072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	8082A	787618
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	8082A	787618
500-256930-5	SB100 (0-3)	Total/NA	Solid	8082A	787618
500-256930-6	SB100 (3-5)	Total/NA	Solid	8082A	787618
500-256930-7	SB101 (0-3)	Total/NA	Solid	8082A	787618
500-256930-9	SB102 (0-3)	Total/NA	Solid	8082A	787618
500-256930-5 MS	SB100 (0-3)	Total/NA	Solid	8082A	787618
500-256930-5 MSD	SB100 (0-3)	Total/NA	Solid	8082A	787618

Metals

Prep Batch: 788571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	7471B	
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	7471B	
500-256930-3	SB99 (0-3)	Total/NA	Solid	7471B	
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	7471B	
500-256930-5	SB100 (0-3)	Total/NA	Solid	7471B	
500-256930-6	SB100 (3-5)	Total/NA	Solid	7471B	
500-256930-7	SB101 (0-3)	Total/NA	Solid	7471B	
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	7471B	
500-256930-9	SB102 (0-3)	Total/NA	Solid	7471B	
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	7471B	

Prep Batch: 788574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	3050B	
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	3050B	
500-256930-3	SB99 (0-3)	Total/NA	Solid	3050B	
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	3050B	
500-256930-5	SB100 (0-3)	Total/NA	Solid	3050B	
500-256930-6	SB100 (3-5)	Total/NA	Solid	3050B	
500-256930-7	SB101 (0-3)	Total/NA	Solid	3050B	
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	3050B	
500-256930-9	SB102 (0-3)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 788574 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	3050B	
MB 500-788574/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-788574/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 500-788574/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
500-256930-1 MS	SB98 (0-3)	Total/NA	Solid	3050B	
500-256930-1 MSD	SB98 (0-3)	Total/NA	Solid	3050B	
500-256930-1 DU	SB98 (0-3)	Total/NA	Solid	3050B	

Analysis Batch: 788733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	7471B	788571
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	7471B	788571
500-256930-3	SB99 (0-3)	Total/NA	Solid	7471B	788571
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	7471B	788571
500-256930-5	SB100 (0-3)	Total/NA	Solid	7471B	788571
500-256930-6	SB100 (3-5)	Total/NA	Solid	7471B	788571
500-256930-7	SB101 (0-3)	Total/NA	Solid	7471B	788571
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	7471B	788571
500-256930-9	SB102 (0-3)	Total/NA	Solid	7471B	788571
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	7471B	788571

Analysis Batch: 789070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	6010D	788574
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	6010D	788574
500-256930-3	SB99 (0-3)	Total/NA	Solid	6010D	788574
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	6010D	788574
500-256930-5	SB100 (0-3)	Total/NA	Solid	6010D	788574
500-256930-6	SB100 (3-5)	Total/NA	Solid	6010D	788574
500-256930-7	SB101 (0-3)	Total/NA	Solid	6010D	788574
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	6010D	788574
500-256930-9	SB102 (0-3)	Total/NA	Solid	6010D	788574
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	6010D	788574
MB 500-788574/1-A	Method Blank	Total/NA	Solid	6010D	788574
LCS 500-788574/2-A ^2	Lab Control Sample	Total/NA	Solid	6010D	788574
500-256930-1 MS	SB98 (0-3)	Total/NA	Solid	6010D	788574
500-256930-1 MSD	SB98 (0-3)	Total/NA	Solid	6010D	788574
500-256930-1 DU	SB98 (0-3)	Total/NA	Solid	6010D	788574

Analysis Batch: 789332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	6010D	788574
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	6010D	788574
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	6010D	788574
500-256930-3	SB99 (0-3)	Total/NA	Solid	6010D	788574
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	6010D	788574
500-256930-5	SB100 (0-3)	Total/NA	Solid	6010D	788574
500-256930-6	SB100 (3-5)	Total/NA	Solid	6010D	788574
500-256930-7	SB101 (0-3)	Total/NA	Solid	6010D	788574
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	6010D	788574
500-256930-9	SB102 (0-3)	Total/NA	Solid	6010D	788574

Metals (Continued)

Analysis Batch: 789332 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-9	SB102 (0-3)	Total/NA	Solid	6010D	788574
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	6010D	788574
MB 500-788574/1-A	Method Blank	Total/NA	Solid	6010D	788574
LCS 500-788574/2-A	Lab Control Sample	Total/NA	Solid	6010D	788574
500-256930-1 MS	SB98 (0-3)	Total/NA	Solid	6010D	788574
500-256930-1 MSD	SB98 (0-3)	Total/NA	Solid	6010D	788574
500-256930-1 DU	SB98 (0-3)	Total/NA	Solid	6010D	788574

Analysis Batch: 789437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-7	SB101 (0-3)	Total/NA	Solid	6010D	788574

General Chemistry

Prep Batch: 628030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-5	SB100 (0-3)	Total/NA	Solid	9030B	
MB 240-628030/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-628030/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 628058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-5	SB100 (0-3)	Total/NA	Solid	9034	628030
MB 240-628030/1-A	Method Blank	Total/NA	Solid	9034	628030
LCS 240-628030/2-A	Lab Control Sample	Total/NA	Solid	9034	628030

Analysis Batch: 787512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	Moisture	
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	Moisture	
500-256930-3	SB99 (0-3)	Total/NA	Solid	Moisture	
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	Moisture	
500-256930-5	SB100 (0-3)	Total/NA	Solid	Moisture	
500-256930-6	SB100 (3-5)	Total/NA	Solid	Moisture	
500-256930-7	SB101 (0-3)	Total/NA	Solid	Moisture	
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	Moisture	
500-256930-9	SB102 (0-3)	Total/NA	Solid	Moisture	
500-256930-1 DU	SB98 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 787518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	Moisture	
500-256930-10 DU	SB102 (7.5-10)	Total/NA	Solid	Moisture	

Analysis Batch: 787629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	9045D	
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	9045D	
500-256930-3	SB99 (0-3)	Total/NA	Solid	9045D	
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	9045D	
500-256930-5	SB100 (0-3)	Total/NA	Solid	9045D	

General Chemistry (Continued)

Analysis Batch: 787629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-6	SB100 (3-5)	Total/NA	Solid	9045D	
500-256930-7	SB101 (0-3)	Total/NA	Solid	9045D	
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	9045D	
500-256930-9	SB102 (0-3)	Total/NA	Solid	9045D	
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	9045D	
LCS 500-787629/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-787629/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 787715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-5	SB100 (0-3)	Total/NA	Solid	9045D	
500-256930-6	SB100 (3-5)	Total/NA	Solid	9045D	
500-256930-7	SB101 (0-3)	Total/NA	Solid	9045D	
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	9045D	
500-256930-9	SB102 (0-3)	Total/NA	Solid	9045D	
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	9045D	
LCS 500-787715/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-787715/6	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 787924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	9010C	
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	9010C	
500-256930-3	SB99 (0-3)	Total/NA	Solid	9010C	
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	9010C	
500-256930-5	SB100 (0-3)	Total/NA	Solid	9010C	
500-256930-6	SB100 (3-5)	Total/NA	Solid	9010C	
500-256930-7	SB101 (0-3)	Total/NA	Solid	9010C	
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	9010C	
500-256930-9	SB102 (0-3)	Total/NA	Solid	9010C	
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	9010C	
MB 500-787924/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-787924/2-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 788122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	Total/NA	Solid	9012B	787924
500-256930-2	SB98 (7.5-10)	Total/NA	Solid	9012B	787924
500-256930-4	SB99 (10-12.5)	Total/NA	Solid	9012B	787924
500-256930-5	SB100 (0-3)	Total/NA	Solid	9012B	787924
500-256930-6	SB100 (3-5)	Total/NA	Solid	9012B	787924
500-256930-7	SB101 (0-3)	Total/NA	Solid	9012B	787924
500-256930-8	SB101 (12.5-15)	Total/NA	Solid	9012B	787924
500-256930-9	SB102 (0-3)	Total/NA	Solid	9012B	787924
500-256930-10	SB102 (7.5-10)	Total/NA	Solid	9012B	787924
MB 500-787924/1-A	Method Blank	Total/NA	Solid	9012B	787924
LCS 500-787924/2-A	Lab Control Sample	Total/NA	Solid	9012B	787924

Prep Batch: 789244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-789244/1-A	Method Blank	Total/NA	Solid	9010C	

General Chemistry (Continued)

Prep Batch: 789244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-789244/2-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 789432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-789244/1-A	Method Blank	Total/NA	Solid	9012B	789244
LCS 500-789244/2-A	Lab Control Sample	Total/NA	Solid	9012B	789244

Analysis Batch: 789443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-3	SB99 (0-3)	Total/NA	Solid	9012B	787924

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-256930-1	SB98 (0-3)	109	110	99	103
500-256930-2	SB98 (7.5-10)	74	119 *3	86	108
500-256930-3	SB99 (0-3)	110	104	85	105
500-256930-4	SB99 (10-12.5)	112	107	63 S1-	101
500-256930-5	SB100 (0-3)	110	105	97	100
500-256930-6	SB100 (3-5)	112	108	98	104
500-256930-7	SB101 (0-3)	109	106	64 S1-	102
500-256930-8	SB101 (12.5-15)	103	109	74 S1-	101
500-256930-9	SB102 (0-3)	105	108	42 S1-	98
500-256930-10	SB102 (7.5-10)	96	146 S1+	98	99
LCS 500-786988/4	Lab Control Sample	103	98	96	104
LCS 500-787235/4	Lab Control Sample	88	103	91	105
LCSD 500-786988/5	Lab Control Sample Dup	99	99	94	102
LCSD 500-787235/5	Lab Control Sample Dup	90	102	93	105
MB 500-786988/7	Method Blank	102	107	99	102
MB 500-787235/7	Method Blank	92	112	95	113

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256930-1	SB98 (0-3)	52	55	57	52	48	58
500-256930-2	SB98 (7.5-10)	64	71	69	68	40	85
500-256930-3	SB99 (0-3)	69	73	74	68	37	76
500-256930-4	SB99 (10-12.5)	45	56	80	73	28 S1-	79
500-256930-5	SB100 (0-3)	70	73	74	70	57	80
500-256930-6	SB100 (3-5)	71	75	74	69	52	79
500-256930-7	SB101 (0-3)	17 S1-	39	39	42 S1-	0 S1-	59
500-256930-8	SB101 (12.5-15)	59	72	72	68	29 S1-	86
500-256930-9	SB102 (0-3)	16 S1-	46	63	62	0 S1-	75
500-256930-10	SB102 (7.5-10)	74	78	73	70	75	78
LCS 500-787895/2-A	Lab Control Sample	85	89	87	80	91	93
MB 500-787895/1-A	Method Blank	85	87	89	79	79	83

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCBP2	TCX2								
Lab Sample ID	Client Sample ID	(33-148)	(30-121)								
500-256930-1	SB98 (0-3)	127	57								
500-256930-2	SB98 (7.5-10)	130	84								
500-256930-3	SB99 (0-3)	935 S1+	44								
500-256930-4	SB99 (10-12.5)	111	59								
500-256930-5	SB100 (0-3)	386 S1+	49								
500-256930-5 MS	SB100 (0-3)	401 S1+	69								
500-256930-5 MSD	SB100 (0-3)	302 S1+	63								
500-256930-6	SB100 (3-5)	261 S1+	56								
500-256930-7	SB101 (0-3)	136	99								
500-256930-8	SB101 (12.5-15)	117	79								
500-256930-9	SB102 (0-3)	211 S1+	103								
500-256930-10	SB102 (7.5-10)	61	44								
LCS 500-787618/2-A	Lab Control Sample	90	66								
MB 500-787618/1-A	Method Blank	72	49								

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	TCX2	DCBP1	DCBP2						
Lab Sample ID	Client Sample ID	(49-129)	(49-129)	(37-121)	(37-121)						
500-256930-1	SB98 (0-3)	0 S1-		0 S1-							
500-256930-2	SB98 (7.5-10)	0 S1-		0 S1-							
500-256930-3	SB99 (0-3)	140 S1+		92							
500-256930-4	SB99 (10-12.5)		35 S1-		66						
500-256930-5	SB100 (0-3)	0 S1-		0 S1-							
500-256930-5 MS	SB100 (0-3)	0 S1-		0 S1-							
500-256930-5 MSD	SB100 (0-3)	0 S1-		0 S1-							
500-256930-6	SB100 (3-5)	0 S1-		0 S1-							
500-256930-7	SB101 (0-3)	0 S1-		0 S1-							
500-256930-8	SB101 (12.5-15)		67		17 S1-						
500-256930-9	SB102 (0-3)	86		112							
500-256930-10	SB102 (7.5-10)		50		51						
LCS 500-787618/3-A	Lab Control Sample	106	94	60	46						
MB 500-787618/1-A	Method Blank	83	76	61	57						

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256930-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-786988/7
Matrix: Solid
Analysis Batch: 786988

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/20/24 11:32	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/20/24 11:32	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/20/24 11:32	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/20/24 11:32	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/20/24 11:32	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/20/24 11:32	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/20/24 11:32	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/20/24 11:32	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/20/24 11:32	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/20/24 11:32	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/20/24 11:32	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/20/24 11:32	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/20/24 11:32	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/20/24 11:32	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/20/24 11:32	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/20/24 11:32	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/20/24 11:32	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/20/24 11:32	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/20/24 11:32	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/20/24 11:32	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/20/24 11:32	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/20/24 11:32	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/20/24 11:32	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/20/24 11:32	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/20/24 11:32	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/20/24 11:32	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/20/24 11:32	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/20/24 11:32	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/20/24 11:32	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/20/24 11:32	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/20/24 11:32	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/20/24 11:32	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/20/24 11:32	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/20/24 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*09/20/24 11:32*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*		*09/20/24 11:32*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*09/20/24 11:32*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*		*09/20/24 11:32*	*1*

Lab Sample ID: LCS 500-786988/4
Matrix: Solid
Analysis Batch: 786988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0533		mg/Kg		107	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0401		mg/Kg		80	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-786988/4
Matrix: Solid
Analysis Batch: 786988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0439		mg/Kg		88	70 - 125
1,1-Dichloroethane	0.0500	0.0432		mg/Kg		86	70 - 125
1,1-Dichloroethene	0.0500	0.0461		mg/Kg		92	70 - 120
1,2-Dichloroethane	0.0500	0.0471		mg/Kg		94	70 - 130
1,2-Dichloropropane	0.0500	0.0449		mg/Kg		90	70 - 125
2-Butanone (MEK)	0.0500	0.0357		mg/Kg		71	47 - 138
2-Hexanone	0.0500	0.0363		mg/Kg		73	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0358		mg/Kg		72	50 - 148
Acetone	0.0500	0.0315		mg/Kg		63	40 - 150
Benzene	0.0500	0.0520		mg/Kg		104	70 - 125
Bromodichloromethane	0.0500	0.0508		mg/Kg		102	67 - 129
Bromoform	0.0500	0.0456		mg/Kg		91	68 - 136
Bromomethane	0.0500	0.0489		mg/Kg		98	70 - 130
Carbon disulfide	0.0500	0.0501		mg/Kg		100	70 - 129
Carbon tetrachloride	0.0500	0.0555		mg/Kg		111	75 - 125
Chlorobenzene	0.0500	0.0474		mg/Kg		95	50 - 150
Chloroethane	0.0500	0.0450		mg/Kg		90	75 - 125
Chloroform	0.0500	0.0481		mg/Kg		96	57 - 135
Chloromethane	0.0500	0.0381		mg/Kg		76	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0419		mg/Kg		84	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0527		mg/Kg		105	70 - 125
Dibromochloromethane	0.0500	0.0462		mg/Kg		92	69 - 125
Ethylbenzene	0.0500	0.0516		mg/Kg		103	61 - 136
Methyl tert-butyl ether	0.0500	0.0485		mg/Kg		97	50 - 140
Methylene Chloride	0.0500	0.0397		mg/Kg		79	70 - 126
Styrene	0.0500	0.0513		mg/Kg		103	70 - 125
Tetrachloroethene	0.0500	0.0539		mg/Kg		108	70 - 124
Toluene	0.0500	0.0498		mg/Kg		100	70 - 125
Xylenes, Total	0.100	0.104		mg/Kg		104	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0451		mg/Kg		90	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0520		mg/Kg		104	70 - 125
Trichloroethene	0.0500	0.0482		mg/Kg		96	70 - 125
Vinyl chloride	0.0500	0.0492		mg/Kg		98	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*
Dibromofluoromethane	*96*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 124*

Lab Sample ID: LCSD 500-786988/5
Matrix: Solid
Analysis Batch: 786988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 128	7	30
1,1,2,2-Tetrachloroethane	0.0500	0.0408		mg/Kg		82	70 - 122	2	30
1,1,2-Trichloroethane	0.0500	0.0415		mg/Kg		83	70 - 125	6	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-786988/5
Matrix: Solid
Analysis Batch: 786988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0407		mg/Kg		81	70 - 125	6	30
1,1-Dichloroethene			0.0500	0.0427		mg/Kg		85	70 - 120	8	30
1,2-Dichloroethane			0.0500	0.0449		mg/Kg		90	70 - 130	5	30
1,2-Dichloropropane			0.0500	0.0412		mg/Kg		82	70 - 125	9	30
2-Butanone (MEK)			0.0500	0.0335		mg/Kg		67	47 - 138	6	30
2-Hexanone			0.0500	0.0355		mg/Kg		71	48 - 146	2	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0335		mg/Kg		67	50 - 148	7	30
Acetone			0.0500	0.0293		mg/Kg		59	40 - 150	7	30
Benzene			0.0500	0.0492		mg/Kg		98	70 - 125	5	30
Bromodichloromethane			0.0500	0.0484		mg/Kg		97	67 - 129	5	30
Bromoform			0.0500	0.0417		mg/Kg		83	68 - 136	9	30
Bromomethane			0.0500	0.0465		mg/Kg		93	70 - 130	5	30
Carbon disulfide			0.0500	0.0482		mg/Kg		96	70 - 129	4	30
Carbon tetrachloride			0.0500	0.0510		mg/Kg		102	75 - 125	8	30
Chlorobenzene			0.0500	0.0458		mg/Kg		92	50 - 150	3	30
Chloroethane			0.0500	0.0435		mg/Kg		87	75 - 125	3	30
Chloroform			0.0500	0.0460		mg/Kg		92	57 - 135	5	30
Chloromethane			0.0500	0.0354		mg/Kg		71	70 - 125	7	30
cis-1,2-Dichloroethene			0.0500	0.0414		mg/Kg		83	70 - 125	1	30
cis-1,3-Dichloropropene			0.0500	0.0510		mg/Kg		102	70 - 125	3	30
Dibromochloromethane			0.0500	0.0424		mg/Kg		85	69 - 125	9	30
Ethylbenzene			0.0500	0.0482		mg/Kg		96	61 - 136	7	30
Methyl tert-butyl ether			0.0500	0.0442		mg/Kg		88	50 - 140	9	30
Methylene Chloride			0.0500	0.0373		mg/Kg		75	70 - 126	6	30
Styrene			0.0500	0.0494		mg/Kg		99	70 - 125	4	30
Tetrachloroethene			0.0500	0.0530		mg/Kg		106	70 - 124	2	30
Toluene			0.0500	0.0496		mg/Kg		99	70 - 125	0	30
Xylenes, Total			0.100	0.0997		mg/Kg		100	53 - 147	4	30
trans-1,2-Dichloroethene			0.0500	0.0421		mg/Kg		84	70 - 125	7	30
trans-1,3-Dichloropropene			0.0500	0.0494		mg/Kg		99	70 - 125	5	30
Trichloroethene			0.0500	0.0455		mg/Kg		91	70 - 125	6	30
Vinyl chloride			0.0500	0.0448		mg/Kg		90	70 - 125	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*
Dibromofluoromethane	*94*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 124*

Lab Sample ID: MB 500-787235/7
Matrix: Solid
Analysis Batch: 787235

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/23/24 11:39	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/23/24 11:39	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/23/24 11:39	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/23/24 11:39	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-787235/7
Matrix: Solid
Analysis Batch: 787235

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/23/24 11:39	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/23/24 11:39	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/23/24 11:39	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/23/24 11:39	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/23/24 11:39	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/23/24 11:39	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/23/24 11:39	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/23/24 11:39	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/23/24 11:39	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/23/24 11:39	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/23/24 11:39	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/23/24 11:39	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/23/24 11:39	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/23/24 11:39	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/23/24 11:39	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/23/24 11:39	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/23/24 11:39	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/23/24 11:39	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/23/24 11:39	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/23/24 11:39	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/23/24 11:39	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/23/24 11:39	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/23/24 11:39	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/23/24 11:39	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/23/24 11:39	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/23/24 11:39	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/23/24 11:39	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/23/24 11:39	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/23/24 11:39	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/23/24 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*		*09/23/24 11:39*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 131*		*09/23/24 11:39*	*1*
Dibromofluoromethane	*95*		*75 - 126*		*09/23/24 11:39*	*1*
Toluene-d8 (Surr)	*113*		*75 - 124*		*09/23/24 11:39*	*1*

Lab Sample ID: LCS 500-787235/4
Matrix: Solid
Analysis Batch: 787235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0463		mg/Kg		93	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0407		mg/Kg		81	70 - 122
1,1,2-Trichloroethane	0.0500	0.0414		mg/Kg		83	70 - 125
1,1-Dichloroethane	0.0500	0.0412		mg/Kg		82	70 - 125
1,1-Dichloroethene	0.0500	0.0417		mg/Kg		83	70 - 120
1,2-Dichloroethane	0.0500	0.0394		mg/Kg		79	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-787235/4
Matrix: Solid
Analysis Batch: 787235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0438		mg/Kg		88	70 - 125
2-Butanone (MEK)	0.0500	0.0325		mg/Kg		65	47 - 138
2-Hexanone	0.0500	0.0369		mg/Kg		74	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0349		mg/Kg		70	50 - 148
Acetone	0.0500	0.0324		mg/Kg		65	40 - 150
Benzene	0.0500	0.0505		mg/Kg		101	70 - 125
Bromodichloromethane	0.0500	0.0444		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0403		mg/Kg		81	68 - 136
Bromomethane	0.0500	0.0506		mg/Kg		101	70 - 130
Carbon disulfide	0.0500	0.0457		mg/Kg		91	70 - 129
Carbon tetrachloride	0.0500	0.0457		mg/Kg		91	75 - 125
Chlorobenzene	0.0500	0.0456		mg/Kg		91	50 - 150
Chloroethane	0.0500	0.0497		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0426		mg/Kg		85	57 - 135
Chloromethane	0.0500	0.0450		mg/Kg		90	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0411		mg/Kg		82	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0499		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0407		mg/Kg		81	69 - 125
Ethylbenzene	0.0500	0.0497		mg/Kg		99	61 - 136
Methyl tert-butyl ether	0.0500	0.0422		mg/Kg		84	50 - 140
Methylene Chloride	0.0500	0.0372		mg/Kg		74	70 - 126
Styrene	0.0500	0.0487		mg/Kg		97	70 - 125
Tetrachloroethene	0.0500	0.0496		mg/Kg		99	70 - 124
Toluene	0.0500	0.0508		mg/Kg		102	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0426		mg/Kg		85	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0476		mg/Kg		95	70 - 125
Trichloroethene	0.0500	0.0431		mg/Kg		86	70 - 125
Vinyl chloride	0.0500	0.0532		mg/Kg		106	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*
Dibromofluoromethane	*91*		*75 - 126*
Toluene-d8 (Surr)	*105*		*75 - 124*

Lab Sample ID: LCSD 500-787235/5
Matrix: Solid
Analysis Batch: 787235

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0477		mg/Kg		95	70 - 128	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0432		mg/Kg		86	70 - 122	6	30
1,1,2-Trichloroethane	0.0500	0.0441		mg/Kg		88	70 - 125	6	30
1,1-Dichloroethane	0.0500	0.0425		mg/Kg		85	70 - 125	3	30
1,1-Dichloroethene	0.0500	0.0428		mg/Kg		86	70 - 120	3	30
1,2-Dichloroethane	0.0500	0.0394		mg/Kg		79	70 - 130	0	30
1,2-Dichloropropane	0.0500	0.0456		mg/Kg		91	70 - 125	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-787235/5
Matrix: Solid
Analysis Batch: 787235

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			0.0500	0.0365		mg/Kg		73	47 - 138	11	30
2-Hexanone			0.0500	0.0366		mg/Kg		73	48 - 146	1	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0354		mg/Kg		71	50 - 148	1	30
Acetone			0.0500	0.0315		mg/Kg		63	40 - 150	3	30
Benzene			0.0500	0.0515		mg/Kg		103	70 - 125	2	30
Bromodichloromethane			0.0500	0.0466		mg/Kg		93	67 - 129	5	30
Bromoform			0.0500	0.0406		mg/Kg		81	68 - 136	1	30
Bromomethane			0.0500	0.0504		mg/Kg		101	70 - 130	0	30
Carbon disulfide			0.0500	0.0471		mg/Kg		94	70 - 129	3	30
Carbon tetrachloride			0.0500	0.0461		mg/Kg		92	75 - 125	1	30
Chlorobenzene			0.0500	0.0470		mg/Kg		94	50 - 150	3	30
Chloroethane			0.0500	0.0509		mg/Kg		102	75 - 125	2	30
Chloroform			0.0500	0.0445		mg/Kg		89	57 - 135	4	30
Chloromethane			0.0500	0.0411		mg/Kg		82	70 - 125	9	30
cis-1,2-Dichloroethene			0.0500	0.0426		mg/Kg		85	70 - 125	3	30
cis-1,3-Dichloropropene			0.0500	0.0517		mg/Kg		103	70 - 125	3	30
Dibromochloromethane			0.0500	0.0421		mg/Kg		84	69 - 125	3	30
Ethylbenzene			0.0500	0.0518		mg/Kg		104	61 - 136	4	30
Methyl tert-butyl ether			0.0500	0.0431		mg/Kg		86	50 - 140	2	30
Methylene Chloride			0.0500	0.0385		mg/Kg		77	70 - 126	3	30
Styrene			0.0500	0.0510		mg/Kg		102	70 - 125	4	30
Tetrachloroethene			0.0500	0.0520		mg/Kg		104	70 - 124	5	30
Toluene			0.0500	0.0517		mg/Kg		103	70 - 125	2	30
Xylenes, Total			0.100	0.103		mg/Kg		103	53 - 147	2	30
trans-1,2-Dichloroethene			0.0500	0.0437		mg/Kg		87	70 - 125	2	30
trans-1,3-Dichloropropene			0.0500	0.0483		mg/Kg		97	70 - 125	1	30
Trichloroethene			0.0500	0.0461		mg/Kg		92	70 - 125	7	30
Vinyl chloride			0.0500	0.0515		mg/Kg		103	70 - 125	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
Toluene-d8 (Surr)	*105*		*75 - 124*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-787895/1-A
Matrix: Solid
Analysis Batch: 788023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/26/24 11:11	09/27/24 09:30	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-787895/1-A
Matrix: Solid
Analysis Batch: 788023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/26/24 11:11	09/27/24 09:30	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256930-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-787895/1-A
Matrix: Solid
Analysis Batch: 788023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/26/24 11:11	09/27/24 09:30	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/26/24 11:11	09/27/24 09:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*85*		*31 - 166*	*09/26/24 11:11*	*09/27/24 09:30*	*1*
Phenol-d5 (Surr)	*87*		*30 - 153*	*09/26/24 11:11*	*09/27/24 09:30*	*1*
Nitrobenzene-d5 (Surr)	*89*		*37 - 147*	*09/26/24 11:11*	*09/27/24 09:30*	*1*
2-Fluorobiphenyl (Surr)	*79*		*43 - 145*	*09/26/24 11:11*	*09/27/24 09:30*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*31 - 143*	*09/26/24 11:11*	*09/27/24 09:30*	*1*
Terphenyl-d14 (Surr)	*83*		*42 - 157*	*09/26/24 11:11*	*09/27/24 09:30*	*1*

Lab Sample ID: LCS 500-787895/2-A
Matrix: Solid
Analysis Batch: 788023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.96		mg/Kg		89	63 - 109
Acenaphthylene	3.33	3.05		mg/Kg		92	61 - 115
Anthracene	3.33	3.03		mg/Kg		91	68 - 120
Benzo[a]anthracene	3.33	2.98		mg/Kg		89	70 - 121
Benzo[a]pyrene	3.33	3.21		mg/Kg		96	73 - 132
Benzo[b]fluoranthene	3.33	3.17		mg/Kg		95	68 - 123
Benzo[g,h,i]perylene	3.33	3.22		mg/Kg		97	65 - 126
Benzo[k]fluoranthene	3.33	3.45		mg/Kg		104	64 - 128
Chrysene	3.33	3.04		mg/Kg		91	70 - 123
Dibenz(a,h)anthracene	3.33	3.18		mg/Kg		95	66 - 125
Fluoranthene	3.33	2.96		mg/Kg		89	66 - 123
Fluorene	3.33	2.86		mg/Kg		86	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.76		mg/Kg		113	66 - 131
Naphthalene	3.33	2.60		mg/Kg		78	54 - 98
Phenanthrene	3.33	2.96		mg/Kg		89	65 - 115
Pyrene	3.33	3.23		mg/Kg		97	71 - 128
1,2,4-Trichlorobenzene	3.33	2.30		mg/Kg		69	49 - 100
1,2-Dichlorobenzene	3.33	2.48		mg/Kg		74	47 - 94
1,3-Dichlorobenzene	3.33	2.42		mg/Kg		73	47 - 92
1,4-Dichlorobenzene	3.33	2.40		mg/Kg		72	46 - 92
2,4,5-Trichlorophenol	3.33	2.81		mg/Kg		84	48 - 121
2,4,6-Trichlorophenol	3.33	2.69		mg/Kg		81	50 - 121
2,4-Dichlorophenol	3.33	2.58		mg/Kg		77	51 - 109
2,4-Dimethylphenol	3.33	3.00		mg/Kg		90	48 - 93
2,4-Dinitrophenol	6.67	3.58		mg/Kg		54	10 - 130
2,4-Dinitrotoluene	3.33	2.99		mg/Kg		90	65 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-787895/2-A
Matrix: Solid
Analysis Batch: 788023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	3.33	2.85		mg/Kg		85	66 - 117
2-Chloronaphthalene	3.33	2.80		mg/Kg		84	60 - 107
2-Chlorophenol	3.33	2.77		mg/Kg		83	50 - 102
2-Methylnaphthalene	3.33	2.38		mg/Kg		72	58 - 103
2-Methylphenol	3.33	2.92		mg/Kg		88	50 - 104
2-Nitroaniline	3.33	3.77		mg/Kg		113	61 - 126
2-Nitrophenol	3.33	2.54		mg/Kg		76	41 - 114
3,3'-Dichlorobenzidine	3.33	2.77		mg/Kg		83	36 - 131
3 & 4 Methylphenol	3.33	2.86		mg/Kg		86	49 - 109
3-Nitroaniline	3.33	2.83		mg/Kg		85	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.83		mg/Kg		72	36 - 138
4-Bromophenyl phenyl ether	3.33	3.07		mg/Kg		92	57 - 124
4-Chloro-3-methylphenol	3.33	3.07		mg/Kg		92	57 - 113
4-Chloroaniline	3.33	2.52		mg/Kg		76	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.83		mg/Kg		85	60 - 112
4-Nitroaniline	3.33	2.98		mg/Kg		89	60 - 115
4-Nitrophenol	6.67	6.11		mg/Kg		92	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.88		mg/Kg		86	54 - 102
Bis(2-chloroethyl)ether	3.33	2.84		mg/Kg		85	49 - 99
bis(chloroisopropyl) ether	3.33	3.13		mg/Kg		94	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.43		mg/Kg		103	70 - 139
Butyl benzyl phthalate	3.33	3.56		mg/Kg		107	65 - 140
Carbazole	3.33	3.04		mg/Kg		91	68 - 120
Dibenzofuran	3.33	2.83		mg/Kg		85	64 - 112
Diethyl phthalate	3.33	3.28		mg/Kg		99	66 - 115
Dimethyl phthalate	3.33	3.06		mg/Kg		92	65 - 114
Di-n-butyl phthalate	3.33	3.35		mg/Kg		100	69 - 125
Di-n-octyl phthalate	3.33	3.09		mg/Kg		93	61 - 131
Hexachlorobenzene	3.33	3.13		mg/Kg		94	52 - 126
Hexachlorobutadiene	3.33	2.31		mg/Kg		69	42 - 103
Hexachlorocyclopentadiene	3.33	1.77		mg/Kg		53	10 - 100
Hexachloroethane	3.33	2.70		mg/Kg		81	45 - 95
Isophorone	3.33	2.95		mg/Kg		88	47 - 108
Nitrobenzene	3.33	2.97		mg/Kg		89	52 - 105
N-Nitrosodi-n-propylamine	3.33	3.13		mg/Kg		94	48 - 110
N-Nitrosodiphenylamine	3.33	3.04		mg/Kg		91	67 - 112
Pentachlorophenol	6.67	5.56		mg/Kg		83	32 - 128
Phenol	3.33	2.86		mg/Kg		86	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*85*		*31 - 166*
Phenol-d5 (Surr)	*89*		*30 - 153*
Nitrobenzene-d5 (Surr)	*87*		*37 - 147*
2-Fluorobiphenyl (Surr)	*80*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*91*		*31 - 143*
Terphenyl-d14 (Surr)	*93*		*42 - 157*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-787618/1-A
Matrix: Solid
Analysis Batch: 788962

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/25/24 07:25	10/03/24 17:45	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/25/24 07:25	10/03/24 17:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*33 - 148*	*09/25/24 07:25*	*10/03/24 17:45*	*1*
Tetrachloro-m-xylene	*49*		*30 - 121*	*09/25/24 07:25*	*10/03/24 17:45*	*1*

Lab Sample ID: LCS 500-787618/2-A
Matrix: Solid
Analysis Batch: 788962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0109		mg/Kg		82	47 - 137
4,4'-DDE	0.0133	0.0110		mg/Kg		82	50 - 130
4,4'-DDT	0.0133	0.0128		mg/Kg		96	46 - 143
Aldrin	0.0133	0.0110		mg/Kg		82	52 - 122
alpha-BHC	0.0133	0.0103		mg/Kg		77	50 - 123
beta-BHC	0.0133	0.00953		mg/Kg		71	44 - 140
delta-BHC	0.0133	0.0106		mg/Kg		79	57 - 125
Dieldrin	0.0133	0.0116		mg/Kg		87	51 - 133
Endosulfan I	0.0133	0.00879		mg/Kg		66	30 - 120
Endosulfan II	0.0133	0.0100		mg/Kg		75	30 - 120
Endosulfan sulfate	0.0133	0.0106		mg/Kg		80	42 - 150
Endrin	0.0133	0.0107		mg/Kg		80	43 - 144
Endrin aldehyde	0.0133	0.0105		mg/Kg		79	39 - 131
Endrin ketone	0.0133	0.0114		mg/Kg		85	51 - 135
gamma-BHC (Lindane)	0.0133	0.0102		mg/Kg		77	50 - 122
Heptachlor	0.0133	0.0107		mg/Kg		80	53 - 129

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-787618/2-A
Matrix: Solid
Analysis Batch: 788962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787618

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Heptachlor epoxide			0.0133	0.0107		mg/Kg		80	50 - 139		
Methoxychlor			0.0133	0.0175		mg/Kg		131	45 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*33 - 148*
Tetrachloro-m-xylene	*66*		*30 - 121*

Lab Sample ID: 500-256930-5 MS
Matrix: Solid
Analysis Batch: 788962

Client Sample ID: SB100 (0-3)
Prep Type: Total/NA
Prep Batch: 787618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDE	<0.0086		0.0137	0.0110	J	mg/Kg	☼	80	50 - 130		
4,4'-DDT	<0.0079	F1	0.0137	0.0257	F1	mg/Kg	☼	188	46 - 143		
Aldrin	<0.012	F1 F2	0.0137	0.159	F1	mg/Kg	☼	1162	52 - 122		
beta-BHC	<0.013	F2	0.0137	0.0409		mg/Kg	☼	NC	44 - 140		
delta-BHC	<0.0080	F1 F2	0.0137	0.0644	F1	mg/Kg	☼	470	57 - 125		
Dieldrin	<0.0087		0.0137	0.0151	J	mg/Kg	☼	110	51 - 133		
Endosulfan I	<0.0090	F1 F2	0.0137	0.0218	F1	mg/Kg	☼	159	30 - 120		
Endosulfan II	<0.0091		0.0137	0.0116	J	mg/Kg	☼	84	30 - 120		
Endosulfan sulfate	<0.0092	F2	0.0137	0.0148	J	mg/Kg	☼	108	42 - 150		
Endrin	<0.0085		0.0137	0.0137	J	mg/Kg	☼	100	43 - 144		
Endrin aldehyde	<0.0095		0.0137	0.0173		mg/Kg	☼	126	39 - 131		
Endrin ketone	<0.0081		0.0137	0.0137	J	mg/Kg	☼	100	51 - 135		
Heptachlor	<0.0090	F1 F2	0.0137	0.129	F1	mg/Kg	☼	940	53 - 129		
Heptachlor epoxide	<0.0090	F1	0.0137	<0.0093	F1	mg/Kg	☼	0	50 - 139		
Methoxychlor	<0.011	F1	0.0137	0.0849	J F1	mg/Kg	☼	619	45 - 144		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*401*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*69*		*30 - 121*

Lab Sample ID: 500-256930-5 MSD
Matrix: Solid
Analysis Batch: 788962

Client Sample ID: SB100 (0-3)
Prep Type: Total/NA
Prep Batch: 787618

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDE	<0.0086		0.0132	0.0104	J	mg/Kg	☼	79	50 - 130	6	30
4,4'-DDT	<0.0079	F1	0.0132	0.0245	F1	mg/Kg	☼	185	46 - 143	5	30
Aldrin	<0.012	F1 F2	0.0132	0.219	F1 F2	mg/Kg	☼	1656	52 - 122	32	30
delta-BHC	<0.0080	F1 F2	0.0132	0.0466	F1 F2	mg/Kg	☼	352	57 - 125	32	30
Dieldrin	<0.0087		0.0132	0.0132	J	mg/Kg	☼	100	51 - 133	13	30
Endosulfan I	<0.0090	F1 F2	0.0132	0.0312	F1 F2	mg/Kg	☼	236	30 - 120	35	30
Endosulfan II	<0.0091		0.0132	0.0135	J	mg/Kg	☼	102	30 - 120	15	30
Endrin	<0.0085		0.0132	0.0122	J	mg/Kg	☼	93	43 - 144	11	30
Endrin ketone	<0.0081		0.0132	0.0122	J	mg/Kg	☼	92	51 - 135	12	30
Heptachlor	<0.0090	F1 F2	0.0132	0.0886	F1 F2	mg/Kg	☼	670	53 - 129	37	30
Heptachlor epoxide	<0.0090	F1	0.0132	<0.0090	F1	mg/Kg	☼	0	50 - 139	NC	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-256930-5 MSD
Matrix: Solid
Analysis Batch: 788962

Client Sample ID: SB100 (0-3)
Prep Type: Total/NA
Prep Batch: 787618

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methoxychlor	<0.011	F1	0.0132	0.0649	J F1	mg/Kg	☼	490	45 - 144	27	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*302*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*63*		*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-787618/1-A
Matrix: Solid
Analysis Batch: 788966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1016	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1221	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1221	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1232	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1232	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1242	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1242	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1248	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1248	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1254	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1254	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1260	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
PCB-1260	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/25/24 07:25	10/03/24 17:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*49 - 129*	*09/25/24 07:25*	*10/03/24 17:03*	*1*
Tetrachloro-m-xylene	*83*		*49 - 129*	*09/25/24 07:25*	*10/03/24 17:03*	*1*
DCB Decachlorobiphenyl	*57*		*37 - 121*	*09/25/24 07:25*	*10/03/24 17:03*	*1*
DCB Decachlorobiphenyl	*61*		*37 - 121*	*09/25/24 07:25*	*10/03/24 17:03*	*1*

Lab Sample ID: LCS 500-787618/3-A
Matrix: Solid
Analysis Batch: 788966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.154		mg/Kg		92	57 - 120
PCB-1016	0.167	0.188		mg/Kg		113	57 - 120
PCB-1260	0.167	0.207		mg/Kg		124	61 - 125
PCB-1260	0.167	0.275	*+	mg/Kg		165	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*94*		*49 - 129*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-787618/3-A
Matrix: Solid
Analysis Batch: 788966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787618

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*106*		*49 - 129*
DCB Decachlorobiphenyl	*46*		*37 - 121*
DCB Decachlorobiphenyl	*60*		*37 - 121*

Lab Sample ID: 500-256930-5 MS
Matrix: Solid
Analysis Batch: 789072

Client Sample ID: SB100 (0-3)
Prep Type: Total/NA
Prep Batch: 787618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.83		0.166	<0.83		mg/Kg	☼	NC	57 - 120
PCB-1260	<0.83	*+	0.166	<0.83		mg/Kg	☼	NC	61 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*

Lab Sample ID: 500-256930-5 MSD
Matrix: Solid
Analysis Batch: 789072

Client Sample ID: SB100 (0-3)
Prep Type: Total/NA
Prep Batch: 787618

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.83		0.174	<0.87		mg/Kg	☼	NC	57 - 120	NC	30
PCB-1260	<0.83	*+	0.174	<0.87		mg/Kg	☼	NC	61 - 125	NC	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*S1-*	*49 - 129*
DCB Decachlorobiphenyl	*0*	*S1-*	*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-788574/1-A
Matrix: Solid
Analysis Batch: 789070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788574

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Antimony	<2.0		2.0		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Arsenic	<1.0		1.0		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Barium	<1.0		1.0		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Beryllium	<0.40		0.40		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Cadmium	<0.20		0.20		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Calcium	<20		20		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Chromium	<1.0		1.0		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Cobalt	<0.50		0.50		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Copper	<1.0		1.0		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Lead	<0.50		0.50		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Magnesium	<10		10		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Manganese	<1.0		1.0		mg/Kg		10/01/24 14:01	10/04/24 02:59	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-788574/1-A
Matrix: Solid
Analysis Batch: 789070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788574

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<1.0		1.0		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Potassium	<50		50		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Selenium	<1.0		1.0		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Silver	<0.50		0.50		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Sodium	<100		100		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Thallium	<1.0		1.0		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Vanadium	<0.50		0.50		mg/Kg		10/01/24 14:01	10/04/24 02:59	1
Zinc	<2.0		2.0		mg/Kg		10/01/24 14:01	10/04/24 02:59	1

Lab Sample ID: MB 500-788574/1-A
Matrix: Solid
Analysis Batch: 789332

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788574

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<20		20		mg/Kg		10/01/24 14:01	10/05/24 01:58	1

Lab Sample ID: LCS 500-788574/2-A
Matrix: Solid
Analysis Batch: 789332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788574

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	100	117		mg/Kg		117	80 - 120

Lab Sample ID: LCS 500-788574/2-A ^2
Matrix: Solid
Analysis Batch: 789070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788574

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	188		mg/Kg		94	80 - 120
Antimony	50.0	50.8		mg/Kg		102	80 - 120
Arsenic	10.0	9.61		mg/Kg		96	80 - 120
Barium	200	210		mg/Kg		105	80 - 120
Beryllium	5.00	4.68		mg/Kg		94	80 - 120
Cadmium	5.00	4.96		mg/Kg		99	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Chromium	20.0	20.6		mg/Kg		103	80 - 120
Cobalt	50.0	49.3		mg/Kg		99	80 - 120
Copper	25.0	26.0		mg/Kg		104	80 - 120
Lead	10.0	10.3		mg/Kg		103	80 - 120
Magnesium	1000	944		mg/Kg		94	80 - 120
Manganese	50.0	49.8		mg/Kg		100	80 - 120
Nickel	50.0	50.3		mg/Kg		101	80 - 120
Potassium	1000	981		mg/Kg		98	80 - 120
Selenium	10.0	9.34		mg/Kg		93	80 - 120
Silver	5.00	4.74		mg/Kg		95	80 - 120
Sodium	1000	982		mg/Kg		98	80 - 120
Thallium	10.0	9.82		mg/Kg		98	80 - 120
Vanadium	50.0	50.9		mg/Kg		102	80 - 120
Zinc	50.0	53.6		mg/Kg		107	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256930-1 MS
Matrix: Solid
Analysis Batch: 789070

Client Sample ID: SB98 (0-3)
Prep Type: Total/NA
Prep Batch: 788574

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	18000		186	18400	4	mg/Kg	☼	245	75 - 125
Antimony	<1.9	F1	46.6	9.02	F1	mg/Kg	☼	19	75 - 125
Arsenic	6.0	F1	9.32	12.1	F1	mg/Kg	☼	65	75 - 125
Barium	180	F1	186	322		mg/Kg	☼	76	75 - 125
Beryllium	2.9	F1	4.66	6.17	F1	mg/Kg	☼	69	75 - 125
Cadmium	0.30	F1	4.66	3.67	F1	mg/Kg	☼	72	75 - 125
Chromium	54	F1 F2	18.6	55.2	F1	mg/Kg	☼	7	75 - 125
Cobalt	4.9		46.6	48.5		mg/Kg	☼	94	75 - 125
Copper	39	F1	23.3	48.4	F1	mg/Kg	☼	40	75 - 125
Lead	53		9.32	56.5	4	mg/Kg	☼	36	75 - 125
Magnesium	15000	F2	932	15100	4	mg/Kg	☼	17	75 - 125
Nickel	22		46.6	59.3		mg/Kg	☼	80	75 - 125
Potassium	1200	F1	932	1890	F1	mg/Kg	☼	72	75 - 125
Selenium	2.5	F1	9.32	8.64	F1	mg/Kg	☼	66	75 - 125
Sodium	660	F1	932	1310	F1	mg/Kg	☼	69	75 - 125
Vanadium	26	F1 F2	46.6	75.7		mg/Kg	☼	106	75 - 125
Zinc	100	F1	46.6	159	F1	mg/Kg	☼	127	75 - 125

Lab Sample ID: 500-256930-1 MS
Matrix: Solid
Analysis Batch: 789332

Client Sample ID: SB98 (0-3)
Prep Type: Total/NA
Prep Batch: 788574

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	130000		932	149000	4	mg/Kg	☼	2108	75 - 125
Iron	40000	F2	93.2	44100	4	mg/Kg	☼	4118	75 - 125
Manganese	4600		46.6	6060	4	mg/Kg	☼	3208	75 - 125
Silver	<2.4	F1	4.66	<2.3	F1	mg/Kg	☼	19	75 - 125
Thallium	22	F1	9.32	35.4	F1	mg/Kg	☼	149	75 - 125

Lab Sample ID: 500-256930-1 MSD
Matrix: Solid
Analysis Batch: 789070

Client Sample ID: SB98 (0-3)
Prep Type: Total/NA
Prep Batch: 788574

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	18000		182	17100	4	mg/Kg	☼	-491	75 - 125	8	20
Antimony	<1.9	F1	45.5	10.6	F1	mg/Kg	☼	23	75 - 125	16	20
Arsenic	6.0	F1	9.10	13.3		mg/Kg	☼	80	75 - 125	10	20
Barium	180	F1	182	307	F1	mg/Kg	☼	69	75 - 125	5	20
Beryllium	2.9	F1	4.55	6.03	F1	mg/Kg	☼	68	75 - 125	2	20
Cadmium	0.30	F1	4.55	3.75		mg/Kg	☼	76	75 - 125	2	20
Chromium	54	F1 F2	18.2	75.1	F2	mg/Kg	☼	117	75 - 125	31	20
Cobalt	4.9		45.5	48.6		mg/Kg	☼	96	75 - 125	0	20
Copper	39	F1	22.7	56.9		mg/Kg	☼	78	75 - 125	16	20
Lead	53		9.10	62.3	4	mg/Kg	☼	100	75 - 125	10	20
Magnesium	15000	F2	910	19500	4 F2	mg/Kg	☼	502	75 - 125	25	20
Nickel	22		45.5	63.8		mg/Kg	☼	92	75 - 125	7	20
Potassium	1200	F1	910	2120		mg/Kg	☼	99	75 - 125	11	20
Selenium	2.5	F1	9.10	8.82	F1	mg/Kg	☼	70	75 - 125	2	20
Sodium	660	F1	910	1380		mg/Kg	☼	79	75 - 125	5	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256930-1 MSD
Matrix: Solid
Analysis Batch: 789070

Client Sample ID: SB98 (0-3)
Prep Type: Total/NA
Prep Batch: 788574

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vanadium	26	F1 F2	45.5	101	F1 F2	mg/Kg	☼	165	75 - 125	29	20
Zinc	100	F1	45.5	151		mg/Kg	☼	113	75 - 125	5	20

Lab Sample ID: 500-256930-1 MSD
Matrix: Solid
Analysis Batch: 789332

Client Sample ID: SB98 (0-3)
Prep Type: Total/NA
Prep Batch: 788574

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	130000		910	137000	4	mg/Kg	☼	841	75 - 125	8	20
Iron	40000	F2	91.0	54800	4 F2	mg/Kg	☼	16002	75 - 125	22	20
Manganese	4600		45.5	7360	4	mg/Kg	☼	6144	75 - 125	19	20
Silver	<2.4	F1	4.55	<2.3	F1	mg/Kg	☼	0	75 - 125	NC	20
Thallium	22	F1	9.10	42.0	F1	mg/Kg	☼	225	75 - 125	17	20

Lab Sample ID: 500-256930-1 DU
Matrix: Solid
Analysis Batch: 789070

Client Sample ID: SB98 (0-3)
Prep Type: Total/NA
Prep Batch: 788574

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	18000			18400		mg/Kg	☼			2	20
Antimony	<1.9	F1		<2.0		mg/Kg	☼			NC	20
Arsenic	6.0	F1		4.86	F3	mg/Kg	☼			21	20
Barium	180	F1		177		mg/Kg	☼			2	20
Beryllium	2.9	F1		2.71		mg/Kg	☼			8	20
Cadmium	0.30	F1		0.269		mg/Kg	☼			11	20
Chromium	54	F1 F2		61.8		mg/Kg	☼			14	20
Cobalt	4.9			4.13		mg/Kg	☼			17	20
Copper	39	F1		31.7	F3	mg/Kg	☼			21	20
Lead	53			50.2		mg/Kg	☼			6	20
Magnesium	15000	F2		19400	F3	mg/Kg	☼			26	20
Nickel	22			9.64	F3	mg/Kg	☼			78	20
Potassium	1200	F1		1270		mg/Kg	☼			4	20
Selenium	2.5	F1		3.80	F3	mg/Kg	☼			41	20
Sodium	660	F1		669		mg/Kg	☼			0.8	20
Vanadium	26	F1 F2		100	F3	mg/Kg	☼			117	20
Zinc	100	F1		87.4		mg/Kg	☼			13	20

Lab Sample ID: 500-256930-1 DU
Matrix: Solid
Analysis Batch: 789332

Client Sample ID: SB98 (0-3)
Prep Type: Total/NA
Prep Batch: 788574

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Calcium	130000			167000	F3	mg/Kg	☼			26	20
Iron	40000	F2		50400	F3	mg/Kg	☼			22	20
Manganese	4600			12100	F3	mg/Kg	☼			90	20
Silver	<2.4	F1		<2.4		mg/Kg	☼			NC	20
Thallium	22	F1		52.1	F3	mg/Kg	☼			83	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-787924/1-A
Matrix: Solid
Analysis Batch: 788122

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/26/24 14:50	09/27/24 11:12	1

Lab Sample ID: LCS 500-787924/2-A
Matrix: Solid
Analysis Batch: 788122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.34		mg/Kg		98	85 - 115

Lab Sample ID: MB 500-789244/1-A
Matrix: Solid
Analysis Batch: 789432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		10/06/24 13:03	10/07/24 12:50	1

Lab Sample ID: LCS 500-789244/2-A
Matrix: Solid
Analysis Batch: 789432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.42		mg/Kg		101	85 - 115

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-628030/1-A
Matrix: Solid
Analysis Batch: 628058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/23/24 10:33	09/23/24 11:24	1

Lab Sample ID: LCS 240-628030/2-A
Matrix: Solid
Analysis Batch: 628058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	80.3	60.2		mg/Kg		75	56 - 120

Client Sample ID: SB98 (0-3)
Lab Sample ID: 500-256930-1
Date Collected: 09/17/24 09:11
Matrix: Solid
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787629	ST	EET CHI	09/24/24 15:06
Total/NA	Analysis	Moisture		1	787512	ER	EET CHI	09/24/24 12:52

Client Sample ID: SB98 (0-3)
Lab Sample ID: 500-256930-1
Date Collected: 09/17/24 09:11
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786752		EET CHI	09/18/24 17:20
Total/NA	Analysis	8260D		1	786988	W1T	EET CHI	09/20/24 15:36
Total/NA	Prep	3546			787895	EK	EET CHI	09/26/24 11:11
Total/NA	Analysis	8270E		1	788023	H7CM	EET CHI	09/27/24 12:49
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8081B		10	788962	H7CM	EET CHI	10/03/24 18:20
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8082A		50	789072	MS	EET CHI	10/04/24 11:54
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/04/24 03:21
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 02:06
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 10:48
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		10	788122	AC	EET CHI	09/27/24 14:01

Client Sample ID: SB98 (7.5-10)
Lab Sample ID: 500-256930-2
Date Collected: 09/17/24 09:37
Matrix: Solid
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787629	ST	EET CHI	09/24/24 15:09
Total/NA	Analysis	Moisture		1	787512	ER	EET CHI	09/24/24 12:52

Client Sample ID: SB98 (7.5-10)
Lab Sample ID: 500-256930-2
Date Collected: 09/17/24 09:37
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786752		EET CHI	09/18/24 17:20
Total/NA	Analysis	8260D		1	786988	W1T	EET CHI	09/20/24 16:01
Total/NA	Prep	3546			787895	EK	EET CHI	09/26/24 11:11
Total/NA	Analysis	8270E		1	788023	H7CM	EET CHI	09/27/24 13:14
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8081B		10	788962	H7CM	EET CHI	10/03/24 18:32

Client Sample ID: SB98 (7.5-10)

Lab Sample ID: 500-256930-2

Date Collected: 09/17/24 09:37

Matrix: Solid

Date Received: 09/18/24 13:30

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8082A		50	789072	MS	EET CHI	10/04/24 12:09
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/04/24 03:44
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 02:29
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		20	789332	SJ	EET CHI	10/05/24 02:42
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 10:50
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		10	788122	AC	EET CHI	09/27/24 14:06

Client Sample ID: SB99 (0-3)

Lab Sample ID: 500-256930-3

Date Collected: 09/17/24 10:29

Matrix: Solid

Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787629	ST	EET CHI	09/24/24 15:11
Total/NA	Analysis	Moisture		1	787512	ER	EET CHI	09/24/24 12:52

Client Sample ID: SB99 (0-3)

Lab Sample ID: 500-256930-3

Date Collected: 09/17/24 10:29

Matrix: Solid

Date Received: 09/18/24 13:30

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786752		EET CHI	09/18/24 17:20
Total/NA	Analysis	8260D		1	786988	W1T	EET CHI	09/20/24 16:25
Total/NA	Prep	3546			787895	EK	EET CHI	09/26/24 11:11
Total/NA	Analysis	8270E		1	788023	H7CM	EET CHI	09/27/24 13:39
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8081B		10	788962	H7CM	EET CHI	10/03/24 18:43
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8082A		10	788966	H7CM	EET CHI	10/03/24 18:20
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/04/24 03:49
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 02:47
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 10:52
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		100	789443	AC	EET CHI	10/07/24 15:04

Client Sample ID: SB99 (10-12.5)
Lab Sample ID: 500-256930-4
Date Collected: 09/17/24 11:00
Matrix: Solid
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787629	ST	EET CHI	09/24/24 15:13
Total/NA	Analysis	Moisture		1	787512	ER	EET CHI	09/24/24 12:52

Client Sample ID: SB99 (10-12.5)
Lab Sample ID: 500-256930-4
Date Collected: 09/17/24 11:00
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 66.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786752		EET CHI	09/18/24 17:20
Total/NA	Analysis	8260D		1	786988	W1T	EET CHI	09/20/24 16:49
Total/NA	Prep	3546			787895	EK	EET CHI	09/26/24 11:11
Total/NA	Analysis	8270E		1	788023	H7CM	EET CHI	09/27/24 14:29
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8081B		10	788962	H7CM	EET CHI	10/03/24 18:55
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8082A		10	788966	H7CM	EET CHI	10/03/24 18:35
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/04/24 03:54
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 02:51
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 10:54
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		1	788122	AC	EET CHI	09/27/24 12:36

Client Sample ID: SB100 (0-3)
Lab Sample ID: 500-256930-5
Date Collected: 09/17/24 12:05
Matrix: Solid
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787715	SO	EET CHI	09/25/24 13:55 - 09/25/24 13:59 [1]
Total/NA	Analysis	9045D		1	787629	ST	EET CHI	09/24/24 15:18
Total/NA	Analysis	Moisture		1	787512	ER	EET CHI	09/24/24 12:52

Client Sample ID: SB100 (0-3)
Lab Sample ID: 500-256930-5
Date Collected: 09/17/24 12:05
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786752		EET CHI	09/18/24 17:20
Total/NA	Analysis	8260D		1	786988	W1T	EET CHI	09/20/24 17:14
Total/NA	Prep	3546			787895	EK	EET CHI	09/26/24 11:11
Total/NA	Analysis	8270E		1	788023	H7CM	EET CHI	09/27/24 14:54
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8081B		10	788962	H7CM	EET CHI	10/03/24 19:06

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256930-1

Client Sample ID: SB100 (0-3)

Date Collected: 09/17/24 12:05
Date Received: 09/18/24 13:30

Lab Sample ID: 500-256930-5

Matrix: Solid
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8082A		50	789072	MS	EET CHI	10/04/24 12:39
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/04/24 03:59
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 02:56
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:00
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		1	788122	AC	EET CHI	09/27/24 12:41
Total/NA	Prep	9030B			628030	BLW	EET CLE	09/23/24 10:33
Total/NA	Analysis	9034		1	628058	BLW	EET CLE	09/23/24 11:24

Client Sample ID: SB100 (3-5)

Date Collected: 09/17/24 12:10
Date Received: 09/18/24 13:30

Lab Sample ID: 500-256930-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787715	SO	EET CHI	09/25/24 13:59 - 09/25/24 14:03 [1]
Total/NA	Analysis	9045D		1	787629	ST	EET CHI	09/24/24 15:21
Total/NA	Analysis	Moisture		1	787512	ER	EET CHI	09/24/24 12:52

Client Sample ID: SB100 (3-5)

Date Collected: 09/17/24 12:10
Date Received: 09/18/24 13:30

Lab Sample ID: 500-256930-6

Matrix: Solid
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786752		EET CHI	09/18/24 17:20
Total/NA	Analysis	8260D		1	786988	W1T	EET CHI	09/20/24 17:38
Total/NA	Prep	3546			787895	EK	EET CHI	09/26/24 11:11
Total/NA	Analysis	8270E		1	788023	H7CM	EET CHI	09/27/24 15:19
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8081B		10	788962	H7CM	EET CHI	10/03/24 19:41
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8082A		50	789072	MS	EET CHI	10/04/24 14:43
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/04/24 04:12
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 03:00
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:02
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		1	788122	AC	EET CHI	09/27/24 12:43

Client Sample ID: SB101 (0-3)

Lab Sample ID: 500-256930-7

Date Collected: 09/17/24 13:27

Matrix: Solid

Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787715	SO	EET CHI	09/25/24 14:03 - 09/25/24 14:07 [1]
Total/NA	Analysis	9045D		1	787629	ST	EET CHI	09/24/24 15:23
Total/NA	Analysis	Moisture		1	787512	ER	EET CHI	09/24/24 12:52

Client Sample ID: SB101 (0-3)

Lab Sample ID: 500-256930-7

Date Collected: 09/17/24 13:27

Matrix: Solid

Date Received: 09/18/24 13:30

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786752		EET CHI	09/18/24 17:20
Total/NA	Analysis	8260D		1	786988	W1T	EET CHI	09/20/24 18:02
Total/NA	Prep	3546			787895	EK	EET CHI	09/26/24 11:11
Total/NA	Analysis	8270E		1	788023	H7CM	EET CHI	09/27/24 15:44
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8081B		10	788962	H7CM	EET CHI	10/03/24 19:53
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8082A		50	789072	MS	EET CHI	10/04/24 14:58
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/04/24 04:17
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 03:05
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		20	789437	SJ	EET CHI	10/07/24 13:53
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:03
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		10	788122	AC	EET CHI	09/27/24 14:11

Client Sample ID: SB101 (12.5-15)

Lab Sample ID: 500-256930-8

Date Collected: 09/17/24 13:54

Matrix: Solid

Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787715	SO	EET CHI	09/25/24 14:07 - 09/25/24 14:11 [1]
Total/NA	Analysis	9045D		1	787629	ST	EET CHI	09/24/24 15:26
Total/NA	Analysis	Moisture		1	787512	ER	EET CHI	09/24/24 12:52

Client Sample ID: SB101 (12.5-15)

Lab Sample ID: 500-256930-8

Date Collected: 09/17/24 13:54

Matrix: Solid

Date Received: 09/18/24 13:30

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786753		EET CHI	09/18/24 17:20
Total/NA	Analysis	8260D		1	786988	W1T	EET CHI	09/20/24 18:27

Client Sample ID: SB101 (12.5-15)

Lab Sample ID: 500-256930-8
Date Collected: 09/17/24 13:54
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			787895	EK	EET CHI	09/26/24 11:11
Total/NA	Analysis	8270E		1	788023	H7CM	EET CHI	09/27/24 16:09
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8081B		10	788962	H7CM	EET CHI	10/03/24 20:05
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8082A		10	788966	H7CM	EET CHI	10/03/24 20:07
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/04/24 04:22
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 03:10
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:05
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		20	788122	AC	EET CHI	09/27/24 14:15

Client Sample ID: SB102 (0-3)

Lab Sample ID: 500-256930-9
Date Collected: 09/17/24 14:37
Matrix: Solid
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787715	SO	EET CHI	09/25/24 14:11 - 09/25/24 14:15 [1]
Total/NA	Analysis	9045D		1	787629	ST	EET CHI	09/24/24 15:28
Total/NA	Analysis	Moisture		1	787512	ER	EET CHI	09/24/24 12:52

Client Sample ID: SB102 (0-3)

Lab Sample ID: 500-256930-9
Date Collected: 09/17/24 14:37
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786753		EET CHI	09/18/24 17:20
Total/NA	Analysis	8260D		1	786988	W1T	EET CHI	09/20/24 18:51
Total/NA	Prep	3546			787895	EK	EET CHI	09/26/24 11:11
Total/NA	Analysis	8270E		1	788023	H7CM	EET CHI	09/27/24 16:34
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8081B		10	788962	H7CM	EET CHI	10/03/24 20:16
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8082A		10	789072	MS	EET CHI	10/04/24 11:39
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/04/24 04:27
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 03:14
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		20	789332	SJ	EET CHI	10/05/24 03:19
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:07

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256930-1

Client Sample ID: SB102 (0-3)

Lab Sample ID: 500-256930-9
Date Collected: 09/17/24 14:37
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		10	788122	AC	EET CHI	09/27/24 14:20

Client Sample ID: SB102 (7.5-10)

Lab Sample ID: 500-256930-10
Date Collected: 09/17/24 14:57
Matrix: Solid
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787715	SO	EET CHI	09/25/24 14:15 - 09/25/24 14:19 [1]
Total/NA	Analysis	9045D		1	787629	ST	EET CHI	09/24/24 15:30
Total/NA	Analysis	Moisture		1	787518	ER	EET CHI	09/24/24 13:24

Client Sample ID: SB102 (7.5-10)

Lab Sample ID: 500-256930-10
Date Collected: 09/17/24 14:57
Matrix: Solid
Date Received: 09/18/24 13:30
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786753		EET CHI	09/18/24 17:20
Total/NA	Analysis	8260D		1	787235	W1T	EET CHI	09/23/24 14:29
Total/NA	Prep	3546			787895	EK	EET CHI	09/26/24 11:11
Total/NA	Analysis	8270E		2	788023	H7CM	EET CHI	09/27/24 16:59
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8081B		10	788962	H7CM	EET CHI	10/03/24 20:28
Total/NA	Prep	3541			787618	FRG	EET CHI	09/25/24 07:25 - 09/25/24 12:00 [1]
Total/NA	Analysis	8082A		10	788966	H7CM	EET CHI	10/03/24 20:38
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/04/24 04:31
Total/NA	Prep	3050B			788574	RN	EET CHI	10/01/24 14:01 - 10/01/24 21:01 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 03:23
Total/NA	Prep	7471B			788571	MJG	EET CHI	10/01/24 17:15
Total/NA	Analysis	7471B		1	788733	MJG	EET CHI	10/02/24 11:09
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		10	788122	AC	EET CHI	09/27/24 14:28

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	10-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record

670140

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☑ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JACOB HARTSON	Site Contact:	Date:	COC No
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier:	1 of 1 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☑ 2 weeks			Lab Sampling
Project Name: 8080 S. Lake Shore	☐ 1 week			
Site	☐ 2 days			Job / SDG No
P O # 24-0124-103	☐ 1 day			500-256930

500-256930 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL	PH	SULFIDE	Sample Specific Notes
1	SB98 (0-3)	9/17/24	911	G	SO	4			X	X		
2	SB98 (7.5-10)	↓	937	↓	↓	↓			↓	↓		
3	SB99 (0-3)	↓	1029	↓	↓	↓			↓	↓		
4	SB99 (10-12.5)	↓	1100	↓	↓	↓			↓	↓		
5	SB100 (0-3)	↓	1205	↓	↓	↓			↓	↓	X	
6	SB100 (3-5)	↓	1210	↓	↓	↓			↓	↓		
7	SB101 (0-3)	↓	127	↓	↓	↓			↓	↓		
8	SB101 (12.5-15)	↓	154	↓	↓	↓			↓	↓		
9	SB102 (0-3)	↓	237	↓	↓	↓			↓	↓		
10	SB102 (7.5-10)	↓	257	↓	↓	↓			↓	↓		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 2.4 Corr'd 2.1 | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	9/18/24	[signature]	EETA	9/18/24 1130
[signature]	EETA 9/18/24	1330			
			Received in Laboratory by [signature]	EETA	9/18/24 1330

3/11/2025 (Rev. 2)

Chain of Custody Record

670140

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☑ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JACOB HARTSON	Site Contact:	Date:	COC No
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier:	1 of 1 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☑ 2 weeks			Lab Sampling
Project Name: 8080 S. Lake Shore	☐ 1 week			
Site	☐ 2 days			Job / SDG No
P O # 24-0124-103	☐ 1 day			500-256930

500-256930 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL	PH	SULFIDE	Sample Specific Notes
1	SB98 (0-3)	9/17/24	911	G	SO	4			X	X		
2	SB98 (7.5-10)	↓	937	↓	↓	↓			↓	↓		
3	SB99 (0-3)	↓	1029	↓	↓	↓			↓	↓		
4	SB99 (10-12.5)	↓	1100	↓	↓	↓			↓	↓		
5	SB100 (0-3)	↓	1205	↓	↓	↓			↓	↓	X	
6	SB100 (3-5)	↓	1210	↓	↓	↓			↓	↓		
7	SB101 (0-3)	↓	127	↓	↓	↓			↓	↓		
8	SB101 (12.5-15)	↓	154	↓	↓	↓			↓	↓		
9	SB102 (0-3)	↓	237	↓	↓	↓			↓	↓		
10	SB102 (7.5-10)	↓	257	↓	↓	↓			↓	↓		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 2.4 Corr'd 2.1 | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	9/18/24	[signature]	EETA	9/18/24 1130
[signature]	EETA 9/18/24	1330			
			Received in Laboratory by [signature]	EETA	9/18/24 1330

3/11/2025 (Rev. 2)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192819.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256930-1
Address: 180 S. Van Buren Avenue	Due Date Requested: 10/1/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

E017

Special Instructions/Note:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oi BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers
			Preservation Code:					
SB100 (0-3) (500-256930-5)	9/17/24	12.05 Central	G	Solid			X	1

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Ellie Scott	Date/Time: 9/18/24 1400	Company	Received by: JESSICA RIGDON	Date/Time: 9-19-24 0930	Company EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client EuroFins-CHI Site Name

Cooler unpacked by: JESSICA RIGDON

Cooler Received on 9-19-24 Opened on 9-19-24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 19 (CF +1.0 °C) Observed Cooler Temp 1.5 °C Corrected Cooler Temp. 2.5 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes) No	**Tests that are not checked for pH by Receiving:**
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No NA	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	**VOAs**
-Were tamper/custody seals intact and uncompromised?	(Yes) No NA	**Oil and Grease**
3 Shippers' packing slip attached to the cooler(s)?	(Yes) No	**TOC**
4. Did custody papers accompany the sample(s)?	(Yes) No	
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No	
9 For each sample, does the COC specify preservatives (Y(N)) # of containers (Y)N), and sample type of grab/comp(Y(N))		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12. Are these work share samples and all listed on the COC?	(Yes) No	
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA	pH Strip Lot# HC442471
14. Were VOAs on the COC?	Yes No	
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this	Yes No NA	
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No	
17 Was a LL Hg or Me Hg trip blank present?	Yes No	

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s).

VOA Sample Preservation - Date/Time VOAs Frozen.

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE: 18SEP24
ACTWGT: 23.00 LB MAN
CAD: 0675858/CAFE3854

BILL SENDER

TO SAMPLE RECEIVING
EUROFINS – CANTON
VAN BUREN AVENUE

ON OH 44203

722 930 SS

FedEx Express

THU – 19 SEP 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7051 7620 9424

NX CAKA

44203
OH-US CLE

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192819.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256930-1
Address: 180 S. Van Buren Avenue	Due Date Requested: 10/1/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

E017

Special Instructions/Note:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oi BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers
			Preservation Code:					
SB100 (0-3) (500-256930-5)	9/17/24	12.05 Central	G	Solid			X	1

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Ellie Scott	Date/Time: 9/18/24 1400	Company	Received by: JESSICA RIGDON	Date/Time: 9-19-24 0930	Company EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins-CHI Site Name

Cooler unpacked by: JESSICA RIGDON

Cooler Received on 9-19-24 Opened on 9-19-24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 19 (CF +1.0 °C) Observed Cooler Temp 1.5 °C Corrected Cooler Temp. 2.5 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes) No	**Tests that are not checked for pH by Receiving:**
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No NA	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	**VOAs**
-Were tamper/custody seals intact and uncompromised?	(Yes) No NA	**Oil and Grease**
3 Shippers' packing slip attached to the cooler(s)?	(Yes) No	**TOC**
4. Did custody papers accompany the sample(s)?	(Yes) No	
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No	
9 For each sample, does the COC specify preservatives (Y(N)) # of containers (Y(N)), and sample type of grab/comp(Y(N))?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12. Are these work share samples and all listed on the COC?	(Yes) No	
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA	pH Strip Lot# HC442471
14. Were VOAs on the COC?	Yes No	
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this	Yes No NA	
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No	
17 Was a LL Hg or Me Hg trip blank present?	Yes No	

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s).

VOA Sample Preservation - Date/Time VOAs Frozen,

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE: 18SEP24
ACTWGT: 23.00 LB MAN
CAD: 0675858/CAFE3854

BILL SENDER

TO SAMPLE RECEIVING
EUROFINS – CANTON
VAN BUREN AVENUE

ON OH 44203

722 930 SS

Part # 159488-434 MTW EXP 02/25

FedEx Express

THU – 19 SEP 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7051 7620 9424

NX CAKA

44203
OH-US CLE

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193738.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256930-2
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/17/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M (MOD) a) 1 element, including prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB102 (0-3) (500-256930-9)	9/17/24	14:37 Central	G	Solid			X	1	

EOSU

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hammond	10/11/24 1600		KATHARINE MARTIN	10/12/24 920	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins - Cleveland Sample Receipt Form/Narrative **Login # :**
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler unpacked by: ICM

Cooler Received on 10/12/24 Opened on 10/12/24

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☒ See Multiple Cooler Form

IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?	(Y)	(N) (Y)
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12 Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14. Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s).

VOA Sample Preservation - Date/Time VOAs Frozen.

Login # : _____

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: _____	2.9	3.0	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

Temperature Controlled
IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)
TAL-0090(1016)
ORIGIN ID:JOTA (708) 534-5700
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES, US
SHIP DATE: 11OCT24
ACTWGT: 87.00 LB MAN
CAD: 0675858/CAFE3854
BILL SENDER
TO SAMPLE RECEIVING
EUROFINS - CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203
REF: 256339 423 508 578 719 930 SH
FedEx Express
3 of 4
MPS# 7051 7621 1608
Mstr# 7051 7621 1182
0263
0201
XO CAKA
SATURDAY 12:00P
PRIORITY OVERNIGHT
44203
OH-US
CLE
Environment Testing
America
2546494

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193738.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-256930-2
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/17/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M (MOD) a) 1 element, including prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB102 (0-3) (500-256930-9)	9/17/24	14:37 Central	G	Solid			X	1	

EOSH

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hammond	10/11/24 1600		KATHARINE MARTIN	10/12/24 920	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins - Cleveland Sample Receipt Form/Narrative **Login # :**
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler Received on 10/12/24 Opened on 10/12/24

Cooler unpacked by: ICM

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☒ See Multiple Cooler Form

IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?	(Y)	(N) (Y)
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12 Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14. Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved. Preservative(s) added/Lot number(s).

VOA Sample Preservation - Date/Time VOAs Frozen.

Login # : _____

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: _____	2.9	3.0	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

Temperature Controlled
IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)
TAL-0090(1016)
ORIGIN ID:JOTA (708) 534-5700
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES, US
SHIP DATE: 11OCT24
ACTWGT: 87.00 LB MAN
CAD: 0675858/CAFE3854
BILL SENDER
TO SAMPLE RECEIVING
EUROFINS - CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203
REF: 256339 423 508 578 719 930 SH
FedEx Express
3 of 4
MPS# 7051 7621 1608
Mstr# 7051 7621 1182
0263
0201
SATURDAY 12:00P
PRIORITY OVERNIGHT
XO CAKA
44203
OH-US
CLE
Environment Testing
America
2546494

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256930-1

Login Number: 256930
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 11:17:55 AM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-257022-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 11:17:55 AM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-257022-1 — Eurofins Chicago

Job Narrative
500-257022-1

Revision
The report being provided is a revision of the original report sent on 10/9/2024. The report (revision 2) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 12/11/2024 - Reason - The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/19/2024 11:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

GC/MS VOA
Method 8260D: Surrogate recovery for the following sample was outside control limits: SB106 (0-3) (500-257022-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The method blank for analytical batch 500-787413 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-788249 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-788249 was outside the method criteria for the following analyte(s): 2-Nitroaniline, bis(chloroisopropyl) ether and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB103 (0-3) (500-257022-1) and SB105 (0-3) (500-257022-4). Elevated reporting limits (RLs) are provided.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB105 (10-12.5) (500-257022-5). These results have been reported and qualified.

Method 8270E: Surrogate 2-Fluorophenol (Surr) and 2,4,6-Tribromophenol (Surr) recovery for the following sample was outside control limits: SB106 (0-3) (500-257022-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The following samples required a dilution due to the nature of the sample matrix: SB103 (0-3) (500-257022-1), SB105 (0-3) (500-257022-4), (500-257022-D-1-B MS) and (500-257022-D-1-C MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB103 (0-3) (500-257022-1), SB103 (5-7.5) (500-257022-2), SB104 (0-3) (500-257022-3), SB105 (0-3) (500-257022-4), SB105 (10-12.5) (500-257022-5), SB106 (0-3) (500-257022-6), SB107 (0-3) (500-257022-7), SB107 (7.5-10) (500-257022-8), (500-257022-D-1-B MS) and (500-257022-D-1-C MSD). Elevated reporting limits (RLs) are provided.

Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB103 (5-7.5) (500-257022-2) and SB106 (0-3) (500-257022-6). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Job ID: 500-257022-1 (Continued) Eurofins Chicago

Method 8081B: The laboratory control sample (LCS) for preparation batch 500-787749 and analytical batch 500-789205 recovered outside control limits for the following analytes: DCB Decachlorobiphenyl and Tetrachloro-m-xylene. These analytes were biased high in the LCS and the target spike analytes were within the QC limit; therefore, the data have been reported.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB103 (0-3) (500-257022-1), SB103 (5-7.5) (500-257022-2), SB104 (0-3) (500-257022-3), SB105 (0-3) (500-257022-4), SB105 (10-12.5) (500-257022-5), SB106 (0-3) (500-257022-6), SB107 (7.5-10) (500-257022-8), (500-257022-D-1-D MS) and (500-257022-D-1-E MSD). Elevated reporting limits (RLs) are provided.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside control limits: SB107 (0-3) (500-257022-7). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 9045D: The continuing calibration verification (CCV) for 500-787837 recovered outside control limits for the following analytes: pH. These analytes were biased high in the CCV. Associated samples were rerun out of hold and data confirmed; therefore, the initial data have been flagged and reported.

SB103 (0-3) (500-257022-1), SB103 (5-7.5) (500-257022-2), SB104 (0-3) (500-257022-3), SB105 (0-3) (500-257022-4), SB105 (10-12.5) (500-257022-5), SB106 (0-3) (500-257022-6), SB107 (0-3) (500-257022-7), SB107 (7.5-10) (500-257022-8) and (CCV6 500-787837/70)

Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-788339 and analytical batch 500-788444 were outside control limits for Cyanide, Total. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SB103 (0-3) — Lab Sample ID: 500-257022-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0022	J	0.0053	0.00098	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.021	J	0.099	0.020	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.14		0.099	0.021	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.13		0.099	0.096	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.21		0.099	0.095	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.10		0.099	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.11		0.099	0.038	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.17		0.099	0.026	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.21		0.099	0.023	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.099	0.097	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.018	J	0.099	0.018	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.12		0.099	0.022	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.21		0.099	0.027	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.022	J	0.20	0.020	mg/Kg	2	☼	8270E	Total/NA
Aluminum	8600		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.8		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	99		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.3		0.41		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.38		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	51000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	450		5.1		mg/Kg	5	☼	6010D	Total/NA
Cobalt	4.1		0.51		mg/Kg	1	☼	6010D	Total/NA
Copper	65		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	37000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	40		0.51		mg/Kg	1	☼	6010D	Total/NA
Magnesium	17000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	5700		5.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	21		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	650		51		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Silver	1.4		0.51		mg/Kg	1	☼	6010D	Total/NA
Sodium	310		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	26		5.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	89		0.51		mg/Kg	1	☼	6010D	Total/NA
Zinc	100		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.057		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.1		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	7.80	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB103 (5-7.5) — Lab Sample ID: 500-257022-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0045	J	0.0050	0.00093	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.014	J	0.049	0.0083	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.021	J	0.049	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.093		0.049	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.074		0.049	0.047	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.14		0.049	0.047	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.063		0.049	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.047	J	0.049	0.019	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.12		0.049	0.013	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB103 (5-7.5) (Continued)
Lab Sample ID: 500-257022-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.19		0.049	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.058		0.049	0.048	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.067		0.049	0.0089	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.20		0.049	0.011	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.16		0.049	0.013	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.073	J	0.099	0.0098	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.028	J	0.25	0.017	mg/Kg	1	☼	8270E	Total/NA
Aluminum	11000		18		mg/Kg	1	☼	6010D	Total/NA
Arsenic	9.5		0.91		mg/Kg	1	☼	6010D	Total/NA
Barium	59		0.91		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.67		0.36		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.25		0.18		mg/Kg	1	☼	6010D	Total/NA
Calcium	12000		18		mg/Kg	1	☼	6010D	Total/NA
Chromium	19		0.91		mg/Kg	1	☼	6010D	Total/NA
Cobalt	12		0.45		mg/Kg	1	☼	6010D	Total/NA
Copper	20		0.91		mg/Kg	1	☼	6010D	Total/NA
Iron	22000		18		mg/Kg	1	☼	6010D	Total/NA
Lead	20		0.45		mg/Kg	1	☼	6010D	Total/NA
Magnesium	9300		9.1		mg/Kg	1	☼	6010D	Total/NA
Manganese	400		0.91		mg/Kg	1	☼	6010D	Total/NA
Nickel	33		0.91		mg/Kg	1	☼	6010D	Total/NA
Potassium	2300		45		mg/Kg	1	☼	6010D	Total/NA
Silver	0.54		0.45		mg/Kg	1	☼	6010D	Total/NA
Sodium	200		91		mg/Kg	1	☼	6010D	Total/NA
Thallium	2.3		0.91		mg/Kg	1	☼	6010D	Total/NA
Vanadium	24		0.45		mg/Kg	1	☼	6010D	Total/NA
Zinc	65		1.8		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.031		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	3.6		0.23		mg/Kg	1	☼	9012B	Total/NA
pH	8.94	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB104 (0-3)
Lab Sample ID: 500-257022-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0086		0.0053	0.00097	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00048	J	0.0021	0.00042	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.33		0.054	0.011	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.096		0.054	0.0093	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.020	J	0.054	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.036	J	0.054	0.012	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.054	0.012	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.035	J	0.054	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.050	J	0.054	0.013	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.037	J	0.054	0.016	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.077		0.054	0.0099	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.022	J	0.054	0.012	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.067		0.054	0.015	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.21	J	0.28	0.022	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.065	J	0.28	0.019	mg/Kg	1	☼	8270E	Total/NA
Aluminum	14000		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.9		1.1		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB104 (0-3) (Continued)
Lab Sample ID: 500-257022-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	99		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.84		0.43		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.43		0.22		mg/Kg	1	☼	6010D	Total/NA
Calcium	5000		22		mg/Kg	1	☼	6010D	Total/NA
Chromium	21		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	15		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	24		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	23000		22		mg/Kg	1	☼	6010D	Total/NA
Lead	19		0.54		mg/Kg	1	☼	6010D	Total/NA
Magnesium	4400		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	1000		1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	29		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1700		54		mg/Kg	1	☼	6010D	Total/NA
Silver	0.59		0.54		mg/Kg	1	☼	6010D	Total/NA
Sodium	300		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	5.2		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	34		0.54		mg/Kg	1	☼	6010D	Total/NA
Zinc	59		2.2		mg/Kg	1	☼	6010D	Total/NA
pH	7.66	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB105 (0-3)
Lab Sample ID: 500-257022-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00077	J	0.0020	0.00062	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0031	J	0.0050	0.00091	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0017	J	0.0020	0.00040	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.00086	J	0.0040	0.00068	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.10		0.10	0.017	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.13		0.10	0.021	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.1		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	1.9		0.10	0.098	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	2.8		0.10	0.097	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	2.7		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.1		0.10	0.039	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.3		0.10	0.027	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.31		0.10	0.10	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	1.9		0.10	0.024	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.0		0.10	0.099	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.20		0.10	0.018	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.73		0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Pyrene	1.8		0.10	0.028	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.26		0.21	0.020	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.058	J	0.51	0.040	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.10	J	0.51	0.036	mg/Kg	2	☼	8270E	Total/NA
Aluminum	12000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.7		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	75		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.62		0.40		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.43		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	45000		20		mg/Kg	1	☼	6010D	Total/NA
Chromium	18		1.0		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB105 (0-3) (Continued) — Lab Sample ID: 500-257022-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	7.9		0.50		mg/Kg	1	☼	6010D	Total/NA
Copper	23		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	16000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	86		0.50		mg/Kg	1	☼	6010D	Total/NA
Magnesium	18000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	320		1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	18		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1600		50		mg/Kg	1	☼	6010D	Total/NA
Sodium	160		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.7		1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	27		0.50		mg/Kg	1	☼	6010D	Total/NA
Zinc	100		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.18		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	9.3		2.4		mg/Kg	10	☼	9012B	Total/NA
pH	8.10	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB105 (10-12.5) — Lab Sample ID: 500-257022-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0013	J	0.0065	0.0012	mg/Kg	1	☼	8260D	Total/NA
Fluoranthene	0.023	J	0.056	0.013	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.025	J	0.056	0.010	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.056		0.056	0.012	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.033	J	0.11	0.011	mg/Kg	1	☼	8270E	Total/NA
Aluminum	29000		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.5		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	340		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.7		0.45		mg/Kg	1	☼	6010D	Total/NA
Calcium	190000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	18		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.8		0.56		mg/Kg	1	☼	6010D	Total/NA
Copper	6.7		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	9900		22		mg/Kg	1	☼	6010D	Total/NA
Lead	13		0.56		mg/Kg	1	☼	6010D	Total/NA
Magnesium	9000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	14000		56		mg/Kg	50	☼	6010D	Total/NA
Nickel	15		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	1500		56		mg/Kg	1	☼	6010D	Total/NA
Selenium	4.6		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	650		110		mg/Kg	1	☼	6010D	Total/NA
Vanadium	17		0.56		mg/Kg	1	☼	6010D	Total/NA
Zinc	18		2.2		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	14		2.5		mg/Kg	10	☼	9012B	Total/NA
pH	7.79	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB106 (0-3) — Lab Sample ID: 500-257022-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.015		0.0053	0.0023	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.065		0.021	0.0089	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.030		0.0053	0.00098	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00094	J	0.0021	0.00043	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB106 (0-3) (Continued)
Lab Sample ID: 500-257022-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.0013	J	0.0043	0.00073	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.094	J	0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.20		0.10	0.10	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.15		0.10	0.023	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.044	J	0.10	0.040	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.11		0.10	0.028	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.13		0.10	0.024	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.10	0.10	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.072	J	0.10	0.019	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.10		0.10	0.023	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.12		0.10	0.029	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.044	J	0.21	0.021	mg/Kg	2	☼	8270E	Total/NA
Aluminum	21000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	25		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	240		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.5		0.41		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.32		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	150000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	82		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	30		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	56		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	32000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	79		0.52		mg/Kg	1	☼	6010D	Total/NA
Magnesium	17000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	52000		52		mg/Kg	50	☼	6010D	Total/NA
Nickel	110		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1600		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	11		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	880		100		mg/Kg	1	☼	6010D	Total/NA
Vanadium	54		0.52		mg/Kg	1	☼	6010D	Total/NA
Zinc	120		2.1		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	7.5	F1	2.5		mg/Kg	10	☼	9012B	Total/NA
Sulfide	200		32		mg/Kg	1	☼	9034	Total/NA
pH	11.52	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB107 (0-3)
Lab Sample ID: 500-257022-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.022	0.0094	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.00093	J	0.0022	0.00070	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0074		0.0056	0.0010	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0015	J	0.0022	0.00045	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0022	J	0.0045	0.00077	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.083		0.052	0.011	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.061		0.052	0.0089	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.21		0.052	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.38		0.052	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.31		0.052	0.050	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.53		0.052	0.050	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.23		0.052	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.20		0.052	0.020	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB107 (0-3) (Continued)
Lab Sample ID: 500-257022-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.45		0.052	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.082		0.052	0.052	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.91		0.052	0.012	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.099		0.052	0.015	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.23		0.052	0.051	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.062		0.052	0.0095	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.77		0.052	0.011	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.74		0.052	0.014	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.034	J	0.11	0.010	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.11	J	0.26	0.021	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.064	J	0.26	0.019	mg/Kg	1	☼	8270E	Total/NA
PCB-1254	0.45		0.17		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.45		0.17		mg/Kg	10	☼	8082A	Total/NA
Aluminum	12000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.6		4.9		mg/Kg	5	☼	6010D	Total/NA
Barium	170		4.9		mg/Kg	5	☼	6010D	Total/NA
Beryllium	2.1		1.9		mg/Kg	5	☼	6010D	Total/NA
Calcium	160000		97		mg/Kg	5	☼	6010D	Total/NA
Chromium	110		0.97		mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.9		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	22		4.9		mg/Kg	5	☼	6010D	Total/NA
Iron	93000		97		mg/Kg	5	☼	6010D	Total/NA
Lead	16		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	18000		9.7		mg/Kg	1	☼	6010D	Total/NA
Manganese	12000		49		mg/Kg	50	☼	6010D	Total/NA
Nickel	11		4.9		mg/Kg	5	☼	6010D	Total/NA
Potassium	1000		49		mg/Kg	1	☼	6010D	Total/NA
Selenium	8.2		4.9		mg/Kg	5	☼	6010D	Total/NA
Sodium	550		97		mg/Kg	1	☼	6010D	Total/NA
Vanadium	190		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	63		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.058		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	13		2.5		mg/Kg	10	☼	9012B	Total/NA
pH	9.18	^+	0.20		SU	1		9045D	Total/NA

Client Sample ID: SB107 (7.5-10)
Lab Sample ID: 500-257022-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0056	J	0.0067	0.0012	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.027	J	0.064	0.013	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.035	J	0.064	0.011	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.083		0.064	0.013	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.22		0.064	0.014	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.18		0.064	0.062	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.31		0.064	0.062	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.16		0.064	0.014	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.13		0.064	0.025	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.26		0.064	0.017	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.48		0.064	0.015	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.029	J	0.064	0.019	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.064	0.063	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB107 (7.5-10) (Continued)
Lab Sample ID: 500-257022-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.035	J	0.064	0.012	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.35		0.064	0.014	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.38		0.064	0.018	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.023	J	0.13	0.013	mg/Kg	1	☼	8270E	Total/NA
2-Nitroaniline	0.041	J	0.33	0.035	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.059	J	0.33	0.026	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.028	J	0.33	0.023	mg/Kg	1	☼	8270E	Total/NA
Aluminum	14000		24		mg/Kg	1	☼	6010D	Total/NA
Arsenic	14		6.1		mg/Kg	5	☼	6010D	Total/NA
Barium	130		6.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	43000		24		mg/Kg	1	☼	6010D	Total/NA
Chromium	13		1.2		mg/Kg	1	☼	6010D	Total/NA
Cobalt	7.6		0.61		mg/Kg	1	☼	6010D	Total/NA
Copper	21		6.1		mg/Kg	5	☼	6010D	Total/NA
Iron	200000		120		mg/Kg	5	☼	6010D	Total/NA
Lead	22		3.0		mg/Kg	5	☼	6010D	Total/NA
Magnesium	8300		12		mg/Kg	1	☼	6010D	Total/NA
Manganese	6900		6.1		mg/Kg	5	☼	6010D	Total/NA
Nickel	6.3		6.1		mg/Kg	5	☼	6010D	Total/NA
Potassium	1500		61		mg/Kg	1	☼	6010D	Total/NA
Sodium	520		120		mg/Kg	1	☼	6010D	Total/NA
Thallium	32		6.1		mg/Kg	5	☼	6010D	Total/NA
Vanadium	71		3.0		mg/Kg	5	☼	6010D	Total/NA
Zinc	40		2.4		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.023		0.020		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	45		15		mg/Kg	50	☼	9012B	Total/NA
pH	10.38	^+	0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-257022-1	SB103 (0-3)	Solid	09/18/24 08:53	09/19/24 11:55
500-257022-2	SB103 (5-7.5)	Solid	09/18/24 09:10	09/19/24 11:55
500-257022-3	SB104 (0-3)	Solid	09/18/24 10:37	09/19/24 11:55
500-257022-4	SB105 (0-3)	Solid	09/18/24 12:05	09/19/24 11:55
500-257022-5	SB105 (10-12.5)	Solid	09/18/24 12:28	09/19/24 11:55
500-257022-6	SB106 (0-3)	Solid	09/18/24 13:37	09/19/24 11:55
500-257022-7	SB107 (0-3)	Solid	09/18/24 14:39	09/19/24 11:55
500-257022-8	SB107 (7.5-10)	Solid	09/18/24 14:58	09/19/24 11:55

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB103 (0-3)
Lab Sample ID: 500-257022-1
Date Collected: 09/18/24 08:53
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 95.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00087		0.0021	0.00087	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0021	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
1,1,2-Trichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
1,1-Dichloroethane	<0.00081		0.0021	0.00081	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
1,1-Dichloroethene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
1,2-Dichloroethane	<0.0014		0.0053	0.0014	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
2-Butanone (MEK)	<0.0023		0.0053	0.0023	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
2-Hexanone	<0.0032		0.0053	0.0032	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0053	0.0038	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Acetone	<0.0090		0.021	0.0090	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Benzene	<0.00067		0.0021	0.00067	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Bromodichloromethane	<0.00069		0.0021	0.00069	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Bromomethane	<0.0026		0.0053	0.0026	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Carbon disulfide	**0.0022**	**J**	0.0053	0.00098	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Carbon tetrachloride	<0.00073		0.0021	0.00073	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Chlorobenzene	<0.00090		0.0021	0.00090	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Chloroethane	<0.0018		0.0053	0.0018	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Chloromethane	<0.0010		0.0053	0.0010	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
cis-1,2-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Dibromochloromethane	<0.00099		0.0021	0.00099	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Methyl tert-butyl ether	<0.00069		0.0021	0.00069	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Methylene Chloride	<0.0023		0.0053	0.0023	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Styrene	<0.00096		0.0021	0.00096	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Toluene	<0.00043		0.0021	0.00043	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Xylenes, Total	<0.00073		0.0043	0.00073	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
trans-1,2-Dichloroethene	<0.00081		0.0021	0.00081	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Trichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1
Vinyl chloride	<0.00087		0.0021	0.00087	mg/Kg	☼	09/19/24 17:20	09/23/24 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*	*09/19/24 17:20*	*09/23/24 14:53*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*09/19/24 17:20*	*09/23/24 14:53*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*09/19/24 17:20*	*09/23/24 14:53*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*09/19/24 17:20*	*09/23/24 14:53*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.020		0.099	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Acenaphthylene	<0.017		0.099	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Anthracene	**0.021**	**J**	0.099	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Benzo[a]anthracene	**0.14**		0.099	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Benzo[a]pyrene	**0.13**		0.099	0.096	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Benzo[b]fluoranthene	**0.21**		0.099	0.095	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Benzo[g,h,i]perylene	**0.10**		0.099	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2

Client Sample ID: SB103 (0-3)
Lab Sample ID: 500-257022-1
Date Collected: 09/18/24 08:53
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 95.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.11**		0.099	0.038	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Chrysene	**0.17**		0.099	0.026	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Dibenz(a,h)anthracene	<0.099		0.099	0.099	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Fluoranthene	**0.21**		0.099	0.023	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Fluorene	<0.029		0.099	0.029	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Indeno[1,2,3-cd]pyrene	**0.12**		0.099	0.097	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Naphthalene	**0.018**	J	0.099	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Phenanthrene	**0.12**		0.099	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Pyrene	**0.21**		0.099	0.027	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
1,2,4-Trichlorobenzene	<0.071		0.50	0.071	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
1,2-Dichlorobenzene	<0.040		0.50	0.040	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
1,3-Dichlorobenzene	<0.045		0.50	0.045	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
1,4-Dichlorobenzene	<0.047		0.50	0.047	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2,4,5-Trichlorophenol	<0.037		0.99	0.037	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2,4,6-Trichlorophenol	<0.034		0.99	0.034	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2,4-Dichlorophenol	<0.035		0.99	0.035	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2,4-Dimethylphenol	<0.22		0.99	0.22	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2,4-Dinitrophenol	<0.58		2.0	0.58	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2,4-Dinitrotoluene	<0.057		0.50	0.057	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2,6-Dinitrotoluene	<0.034		0.50	0.034	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2-Chloronaphthalene	<0.037		0.50	0.037	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2-Chlorophenol	<0.032		0.50	0.032	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2-Methylnaphthalene	**0.022**	J	0.20	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2-Methylphenol	<0.052		0.50	0.052	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2-Nitroaniline	<0.053		0.50	0.053	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
2-Nitrophenol	<0.067		0.99	0.067	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
3,3'-Dichlorobenzidine	<0.081		0.50	0.081	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
3 & 4 Methylphenol	<0.073		0.50	0.073	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
3-Nitroaniline	<0.045		0.99	0.045	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
4,6-Dinitro-2-methylphenol	<0.56		2.0	0.56	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
4-Bromophenyl phenyl ether	<0.068		0.50	0.068	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
4-Chloro-3-methylphenol	<0.039		0.99	0.039	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
4-Chloroaniline	<1.0		2.0	1.0	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
4-Chlorophenyl phenyl ether	<0.13		0.50	0.13	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
4-Nitroaniline	<0.073		0.99	0.073	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
4-Nitrophenol	<0.37		2.0	0.37	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Bis(2-chloroethoxy)methane	<0.037		0.50	0.037	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Bis(2-chloroethyl)ether	<0.046		0.50	0.046	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
bis(chloroisopropyl) ether	<0.071		0.50	0.071	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Bis(2-ethylhexyl) phthalate	<0.39		0.50	0.39	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Butyl benzyl phthalate	<0.049		0.50	0.049	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Carbazole	<0.039		0.50	0.039	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Dibenzofuran	<0.035		0.50	0.035	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Diethyl phthalate	<0.046		0.50	0.046	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Dimethyl phthalate	<0.022		0.50	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Di-n-butyl phthalate	<0.031		0.50	0.031	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Di-n-octyl phthalate	<0.70		0.99	0.70	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Hexachlorobenzene	<0.019		0.20	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Hexachlorobutadiene	<0.056		0.50	0.056	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257022-1

Client Sample ID: SB103 (0-3)
Date Collected: 09/18/24 08:53
Date Received: 09/19/24 11:55

Lab Sample ID: 500-257022-1
Matrix: Solid
Percent Solids: 95.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.1		2.0	1.1	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Hexachloroethane	<0.050		0.50	0.050	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Isophorone	<0.051		0.50	0.051	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Nitrobenzene	<0.031		0.099	0.031	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
N-Nitrosodi-n-propylamine	<0.020		0.20	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
N-Nitrosodiphenylamine	<0.059		0.50	0.059	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Pentachlorophenol	<0.25		2.0	0.25	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2
Phenol	<0.043		0.50	0.043	mg/Kg	☼	09/27/24 16:07	09/30/24 16:26	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*31 - 166*	*09/27/24 16:07*	*09/30/24 16:26*	*2*
Phenol-d5 (Surr)	*63*		*30 - 153*	*09/27/24 16:07*	*09/30/24 16:26*	*2*
Nitrobenzene-d5 (Surr)	*64*		*37 - 147*	*09/27/24 16:07*	*09/30/24 16:26*	*2*
2-Fluorobiphenyl (Surr)	*64*		*43 - 145*	*09/27/24 16:07*	*09/30/24 16:26*	*2*
2,4,6-Tribromophenol (Surr)	*32*		*31 - 143*	*09/27/24 16:07*	*09/30/24 16:26*	*2*
Terphenyl-d14 (Surr)	*60*		*42 - 157*	*09/27/24 16:07*	*09/30/24 16:26*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.018		0.033	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
4,4'-DDE	<0.017		0.033	0.017	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
4,4'-DDT	<0.016		0.033	0.016	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Aldrin	<0.023		0.033	0.023	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
alpha-BHC	<0.019	F2	0.033	0.019	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
alpha-Chlordane	<0.018		0.033	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
beta-BHC	<0.027	F2	0.033	0.027	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Chlordane (technical)	<0.063		0.13	0.063	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
delta-BHC	<0.016		0.033	0.016	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Dieldrin	<0.017		0.033	0.017	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Endosulfan I	<0.018		0.033	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Endosulfan II	<0.018		0.033	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Endosulfan sulfate	<0.018		0.033	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Endrin	<0.017		0.033	0.017	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Endrin aldehyde	<0.019		0.033	0.019	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Endrin ketone	<0.016		0.033	0.016	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
gamma-BHC (Lindane)	<0.017		0.033	0.017	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
gamma-Chlordane	<0.019		0.033	0.019	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Heptachlor	<0.018		0.033	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Heptachlor epoxide	<0.018		0.033	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Methoxychlor	<0.022		0.16	0.022	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20
Toxaphene	<0.13		0.33	0.13	mg/Kg	☼	09/25/24 15:53	10/05/24 15:29	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/25/24 15:53*	*10/05/24 15:29*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/25/24 15:53*	*10/05/24 15:29*	*20*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.16		0.16		mg/Kg	☼	09/25/24 15:53	10/08/24 18:35	10
PCB-1221	<0.16		0.16		mg/Kg	☼	09/25/24 15:53	10/08/24 18:35	10

Client Sample ID: SB103 (0-3)
Date Collected: 09/18/24 08:53
Date Received: 09/19/24 11:55

Lab Sample ID: 500-257022-1
Matrix: Solid
Percent Solids: 95.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.16		0.16		mg/Kg	☼	09/25/24 15:53	10/08/24 18:35	10
PCB-1242	<0.16		0.16		mg/Kg	☼	09/25/24 15:53	10/08/24 18:35	10
PCB-1248	<0.16		0.16		mg/Kg	☼	09/25/24 15:53	10/08/24 18:35	10
PCB-1254	<0.16		0.16		mg/Kg	☼	09/25/24 15:53	10/08/24 18:35	10
PCB-1260	<0.16		0.16		mg/Kg	☼	09/25/24 15:53	10/08/24 18:35	10
Polychlorinated biphenyls, Total	<0.16		0.16		mg/Kg	☼	09/25/24 15:53	10/08/24 18:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*49 - 129*	*09/25/24 15:53*	*10/08/24 18:35*	*10*
DCB Decachlorobiphenyl	*98*		*37 - 121*	*09/25/24 15:53*	*10/08/24 18:35*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8600**		20		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Antimony	<2.0		2.0		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Arsenic	**4.8**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Barium	**99**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Beryllium	**1.3**		0.41		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Cadmium	**0.38**		0.20		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Calcium	**51000**		20		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Chromium	**450**		5.1		mg/Kg	☼	10/02/24 10:12	10/05/24 05:52	5
Cobalt	**4.1**		0.51		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Copper	**65**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Iron	**37000**		20		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Lead	**40**		0.51		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Magnesium	**17000**		10		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Manganese	**5700**		5.1		mg/Kg	☼	10/02/24 10:12	10/05/24 05:52	5
Nickel	**21**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Potassium	**650**		51		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Selenium	**2.3**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Silver	**1.4**		0.51		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Sodium	**310**		100		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Thallium	**26**		5.1		mg/Kg	☼	10/02/24 10:12	10/05/24 05:52	5
Vanadium	**89**		0.51		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1
Zinc	**100**		2.0		mg/Kg	☼	10/02/24 10:12	10/03/24 21:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.057**		0.017		mg/Kg	☼	10/02/24 17:55	10/03/24 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.1**		0.24		mg/Kg	☼	09/26/24 14:50	09/27/24 12:12	1
pH (SW846 9045D)	**7.80**	**^+**	0.20		SU			09/25/24 18:13	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB103 (5-7.5)
Lab Sample ID: 500-257022-2
Date Collected: 09/18/24 09:10
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 92.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00082		0.0020	0.00082	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0020	0.0010	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
1,1-Dichloroethane	<0.00076		0.0020	0.00076	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
1,1-Dichloroethene	<0.00083		0.0020	0.00083	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
2-Hexanone	<0.0031		0.0050	0.0031	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Acetone	<0.0085		0.020	0.0085	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Bromodichloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Carbon disulfide	**0.0045**	**J**	0.0050	0.00093	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Carbon tetrachloride	<0.00069		0.0020	0.00069	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Chlorobenzene	<0.00085		0.0020	0.00085	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Chloroethane	<0.0017		0.0050	0.0017	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Chloromethane	<0.00098		0.0050	0.00098	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
1,3-Dichloropropene, Total	<0.00097		0.0020	0.00097	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Methylene Chloride	<0.0022		0.0050	0.0022	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Styrene	<0.00091		0.0020	0.00091	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Toluene	<0.00041		0.0020	0.00041	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Trichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg	☼	09/19/24 17:20	09/23/24 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 134*	*09/19/24 17:20*	*09/23/24 15:17*	*1*
4-Bromofluorobenzene (Surr)	*111*		*75 - 131*	*09/19/24 17:20*	*09/23/24 15:17*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*09/19/24 17:20*	*09/23/24 15:17*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*09/19/24 17:20*	*09/23/24 15:17*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.049	0.010	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Acenaphthylene	**0.014**	**J**	0.049	0.0083	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Anthracene	**0.021**	**J**	0.049	0.010	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Benzo[a]anthracene	**0.093**		0.049	0.010	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Benzo[a]pyrene	**0.074**		0.049	0.047	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Benzo[b]fluoranthene	**0.14**		0.049	0.047	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Benzo[g,h,i]perylene	**0.063**		0.049	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB103 (5-7.5)
Lab Sample ID: 500-257022-2
Date Collected: 09/18/24 09:10
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 92.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.047**	**J**	0.049	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Chrysene	**0.12**		0.049	0.013	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Dibenz(a,h)anthracene	<0.049		0.049	0.049	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Fluoranthene	**0.19**		0.049	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Fluorene	<0.014		0.049	0.014	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Indeno[1,2,3-cd]pyrene	**0.058**		0.049	0.048	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Naphthalene	**0.067**		0.049	0.0089	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Phenanthrene	**0.20**		0.049	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Pyrene	**0.16**		0.049	0.013	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
1,2,4-Trichlorobenzene	<0.035		0.25	0.035	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
1,2-Dichlorobenzene	<0.020		0.25	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
1,3-Dichlorobenzene	<0.022		0.25	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
1,4-Dichlorobenzene	<0.023		0.25	0.023	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2,4,5-Trichlorophenol	<0.018		0.49	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2,4,6-Trichlorophenol	<0.017		0.49	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2,4-Dichlorophenol	<0.017		0.49	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2,4-Dimethylphenol	<0.11		0.49	0.11	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2,4-Dinitrophenol	<0.28		0.99	0.28	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2,4-Dinitrotoluene	<0.028		0.25	0.028	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2,6-Dinitrotoluene	<0.017		0.25	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2-Chloronaphthalene	<0.018		0.25	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2-Chlorophenol	<0.016		0.25	0.016	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2-Methylnaphthalene	**0.073**	**J**	0.099	0.0098	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2-Methylphenol	<0.026		0.25	0.026	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2-Nitroaniline	<0.026		0.25	0.026	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
2-Nitrophenol	<0.033		0.49	0.033	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
3,3'-Dichlorobenzidine	<0.040		0.25	0.040	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
3 & 4 Methylphenol	<0.036		0.25	0.036	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
3-Nitroaniline	<0.022		0.49	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
4,6-Dinitro-2-methylphenol	<0.28		0.99	0.28	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
4-Bromophenyl phenyl ether	<0.033		0.25	0.033	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
4-Chloro-3-methylphenol	<0.019		0.49	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
4-Chloroaniline	<0.51		0.99	0.51	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
4-Chlorophenyl phenyl ether	<0.064		0.25	0.064	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
4-Nitroaniline	<0.036		0.49	0.036	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
4-Nitrophenol	<0.18		0.99	0.18	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Bis(2-chloroethoxy)methane	<0.018		0.25	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Bis(2-chloroethyl)ether	<0.023		0.25	0.023	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
bis(chloroisopropyl) ether	<0.035		0.25	0.035	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.25	0.19	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Butyl benzyl phthalate	<0.024		0.25	0.024	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Carbazole	<0.019		0.25	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Dibenzofuran	**0.028**	**J**	0.25	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Diethyl phthalate	<0.022		0.25	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Dimethyl phthalate	<0.011		0.25	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Di-n-butyl phthalate	<0.015		0.25	0.015	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Di-n-octyl phthalate	<0.34		0.49	0.34	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Hexachlorobenzene	<0.0094		0.099	0.0094	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Hexachlorobutadiene	<0.028		0.25	0.028	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB103 (5-7.5)
Lab Sample ID: 500-257022-2
Date Collected: 09/18/24 09:10
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 92.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.52		0.99	0.52	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Hexachloroethane	<0.024		0.25	0.024	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Isophorone	<0.025		0.25	0.025	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Nitrobenzene	<0.015		0.049	0.015	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
N-Nitrosodi-n-propylamine	<0.0097		0.099	0.0097	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
N-Nitrosodiphenylamine	<0.029		0.25	0.029	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Pentachlorophenol	<0.12		0.99	0.12	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1
Phenol	<0.021		0.25	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*53*		*31 - 166*	*09/27/24 16:07*	*09/30/24 16:51*	*1*
Phenol-d5 (Surr)	*55*		*30 - 153*	*09/27/24 16:07*	*09/30/24 16:51*	*1*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*09/27/24 16:07*	*09/30/24 16:51*	*1*
2-Fluorobiphenyl (Surr)	*53*		*43 - 145*	*09/27/24 16:07*	*09/30/24 16:51*	*1*
2,4,6-Tribromophenol (Surr)	*44*		*31 - 143*	*09/27/24 16:07*	*09/30/24 16:51*	*1*
Terphenyl-d14 (Surr)	*55*		*42 - 157*	*09/27/24 16:07*	*09/30/24 16:51*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
alpha-Chlordane	<0.0095		0.018	0.0095	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Chlordane (technical)	<0.034		0.070	0.034	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
delta-BHC	<0.0085		0.018	0.0085	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Dieldrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Endosulfan I	<0.0096		0.018	0.0096	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Endosulfan sulfate	<0.0098		0.018	0.0098	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Endrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Heptachlor	<0.0096		0.018	0.0096	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Heptachlor epoxide	<0.0096		0.018	0.0096	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/25/24 15:53	10/05/24 16:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*33 - 148*	*09/25/24 15:53*	*10/05/24 16:04*	*10*
Tetrachloro-m-xylene	*1220*	*S1+*	*30 - 121*	*09/25/24 15:53*	*10/05/24 16:04*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/25/24 15:53	10/08/24 19:19	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/25/24 15:53	10/08/24 19:19	10

Client Sample ID: SB103 (5-7.5)
Date Collected: 09/18/24 09:10
Date Received: 09/19/24 11:55

Lab Sample ID: 500-257022-2
Matrix: Solid
Percent Solids: 92.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/25/24 15:53	10/08/24 19:19	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/25/24 15:53	10/08/24 19:19	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/25/24 15:53	10/08/24 19:19	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/25/24 15:53	10/08/24 19:19	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/25/24 15:53	10/08/24 19:19	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/25/24 15:53	10/08/24 19:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*109*		*49 - 129*	*09/25/24 15:53*	*10/08/24 19:19*	*10*
DCB Decachlorobiphenyl	*94*		*37 - 121*	*09/25/24 15:53*	*10/08/24 19:19*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		18		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Antimony	<1.8		1.8		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Arsenic	**9.5**		0.91		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Barium	**59**		0.91		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Beryllium	**0.67**		0.36		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Cadmium	**0.25**		0.18		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Calcium	**12000**		18		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Chromium	**19**		0.91		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Cobalt	**12**		0.45		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Copper	**20**		0.91		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Iron	**22000**		18		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Lead	**20**		0.45		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Magnesium	**9300**		9.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Manganese	**400**		0.91		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Nickel	**33**		0.91		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Potassium	**2300**		45		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Selenium	<0.91		0.91		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Silver	**0.54**		0.45		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Sodium	**200**		91		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Thallium	**2.3**		0.91		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Vanadium	**24**		0.45		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1
Zinc	**65**		1.8		mg/Kg	☼	10/02/24 10:12	10/03/24 22:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.017		mg/Kg	☼	10/02/24 17:55	10/03/24 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**3.6**		0.23		mg/Kg	☼	09/26/24 14:50	09/27/24 12:14	1
pH (SW846 9045D)	**8.94**	**^+**	0.20		SU			09/25/24 18:16	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB104 (0-3)
Lab Sample ID: 500-257022-3
Date Collected: 09/18/24 10:37
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 86.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00085		0.0021	0.00085	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0021	0.0010	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
1,1,2-Trichloroethane	<0.00079		0.0021	0.00079	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
1,1-Dichloroethane	<0.00079		0.0021	0.00079	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
1,1-Dichloroethene	<0.00087		0.0021	0.00087	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
1,2-Dichloroethane	<0.0014		0.0053	0.0014	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
2-Butanone (MEK)	<0.0023		0.0053	0.0023	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
2-Hexanone	<0.0032		0.0053	0.0032	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0053	0.0037	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Acetone	<0.0088		0.021	0.0088	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Benzene	<0.00066		0.0021	0.00066	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Bromodichloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Bromomethane	<0.0026		0.0053	0.0026	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Carbon disulfide	**0.0086**		0.0053	0.00097	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Carbon tetrachloride	<0.00072		0.0021	0.00072	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Chlorobenzene	<0.00089		0.0021	0.00089	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Chloroethane	<0.0017		0.0053	0.0017	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Chloromethane	<0.0010		0.0053	0.0010	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
cis-1,2-Dichloroethene	<0.00085		0.0021	0.00085	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Dibromochloromethane	<0.00098		0.0021	0.00098	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Methyl tert-butyl ether	<0.00068		0.0021	0.00068	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Methylene Chloride	<0.0022		0.0053	0.0022	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Styrene	<0.00095		0.0021	0.00095	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Toluene	**0.00048**	**J**	0.0021	0.00042	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Xylenes, Total	<0.00072		0.0042	0.00072	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
trans-1,2-Dichloroethene	<0.00080		0.0021	0.00080	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Trichloroethene	<0.00057		0.0021	0.00057	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1
Vinyl chloride	<0.00086		0.0021	0.00086	mg/Kg	☼	09/19/24 17:20	09/23/24 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*	*09/19/24 17:20*	*09/23/24 15:41*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*	*09/19/24 17:20*	*09/23/24 15:41*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*09/19/24 17:20*	*09/23/24 15:41*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*09/19/24 17:20*	*09/23/24 15:41*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.33**		0.054	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Acenaphthylene	**0.096**		0.054	0.0093	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Anthracene	**0.020**	**J**	0.054	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Benzo[a]anthracene	**0.036**	**J**	0.054	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Benzo[a]pyrene	<0.053		0.054	0.053	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Benzo[b]fluoranthene	<0.052		0.054	0.052	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Benzo[g,h,i]perylene	**0.017**	**J**	0.054	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1

Client Sample ID: SB104 (0-3)
Lab Sample ID: 500-257022-3
Date Collected: 09/18/24 10:37
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 86.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.021		0.054	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Chrysene	**0.035**	**J**	0.054	0.014	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Dibenz(a,h)anthracene	<0.054		0.054	0.054	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Fluoranthene	**0.050**	**J**	0.054	0.013	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Fluorene	**0.037**	**J**	0.054	0.016	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Indeno[1,2,3-cd]pyrene	<0.053		0.054	0.053	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Naphthalene	**0.077**		0.054	0.0099	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Phenanthrene	**0.022**	**J**	0.054	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Pyrene	**0.067**		0.054	0.015	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
1,2,4-Trichlorobenzene	<0.039		0.28	0.039	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
1,2-Dichlorobenzene	<0.022		0.28	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
1,3-Dichlorobenzene	<0.025		0.28	0.025	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
1,4-Dichlorobenzene	<0.026		0.28	0.026	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2,4,5-Trichlorophenol	<0.021		0.54	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2,4,6-Trichlorophenol	<0.019		0.54	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2,4-Dichlorophenol	<0.019		0.54	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2,4-Dimethylphenol	<0.12		0.54	0.12	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2,4-Dinitrophenol	<0.32		1.1	0.32	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2,4-Dinitrotoluene	<0.031		0.28	0.031	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2,6-Dinitrotoluene	<0.019		0.28	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2-Chloronaphthalene	<0.020		0.28	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2-Chlorophenol	<0.018		0.28	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2-Methylnaphthalene	<0.011		0.11	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2-Methylphenol	<0.029		0.28	0.029	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2-Nitroaniline	<0.029		0.28	0.029	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
2-Nitrophenol	<0.037		0.54	0.037	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
3,3'-Dichlorobenzidine	<0.045		0.28	0.045	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
3 & 4 Methylphenol	<0.040		0.28	0.040	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
3-Nitroaniline	<0.025		0.54	0.025	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
4,6-Dinitro-2-methylphenol	<0.31		1.1	0.31	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
4-Bromophenyl phenyl ether	<0.037		0.28	0.037	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
4-Chloro-3-methylphenol	<0.021		0.54	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
4-Chloroaniline	<0.57		1.1	0.57	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
4-Chlorophenyl phenyl ether	<0.072		0.28	0.072	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
4-Nitroaniline	<0.040		0.54	0.040	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
4-Nitrophenol	<0.20		1.1	0.20	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Bis(2-chloroethoxy)methane	<0.020		0.28	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Bis(2-chloroethyl)ether	<0.025		0.28	0.025	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
bis(chloroisopropyl) ether	<0.039		0.28	0.039	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Bis(2-ethylhexyl) phthalate	<0.21		0.28	0.21	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Butyl benzyl phthalate	<0.027		0.28	0.027	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Carbazole	**0.21**	**J**	0.28	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Dibenzofuran	**0.065**	**J**	0.28	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Diethyl phthalate	<0.025		0.28	0.025	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Dimethyl phthalate	<0.012		0.28	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Di-n-butyl phthalate	<0.017		0.28	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Di-n-octyl phthalate	<0.38		0.54	0.38	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Hexachlorobenzene	<0.010		0.11	0.010	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Hexachlorobutadiene	<0.031		0.28	0.031	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB104 (0-3)
Lab Sample ID: 500-257022-3
Date Collected: 09/18/24 10:37
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 86.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.58		1.1	0.58	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Hexachloroethane	<0.027		0.28	0.027	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Isophorone	<0.028		0.28	0.028	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Nitrobenzene	<0.017		0.054	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
N-Nitrosodi-n-propylamine	<0.011		0.11	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
N-Nitrosodiphenylamine	<0.033		0.28	0.033	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Pentachlorophenol	<0.14		1.1	0.14	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1
Phenol	<0.024		0.28	0.024	mg/Kg	☼	09/27/24 16:07	09/30/24 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*68*		*31 - 166*	*09/27/24 16:07*	*09/30/24 17:15*	*1*
Phenol-d5 (Surr)	*73*		*30 - 153*	*09/27/24 16:07*	*09/30/24 17:15*	*1*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*09/27/24 16:07*	*09/30/24 17:15*	*1*
2-Fluorobiphenyl (Surr)	*64*		*43 - 145*	*09/27/24 16:07*	*09/30/24 17:15*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*31 - 143*	*09/27/24 16:07*	*09/30/24 17:15*	*1*
Terphenyl-d14 (Surr)	*82*		*42 - 157*	*09/27/24 16:07*	*09/30/24 17:15*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.020	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
4,4'-DDT	<0.0092		0.020	0.0092	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
alpha-Chlordane	<0.010		0.020	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Chlordane (technical)	<0.037		0.077	0.037	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
delta-BHC	<0.0093		0.020	0.0093	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Dieldrin	<0.010		0.020	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Endrin	<0.0099		0.020	0.0099	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Endrin aldehyde	<0.011		0.020	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Endrin ketone	<0.0095		0.020	0.0095	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
gamma-BHC (Lindane)	<0.0097		0.020	0.0097	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
gamma-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Heptachlor epoxide	<0.010		0.020	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Methoxychlor	<0.013		0.096	0.013	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10
Toxaphene	<0.078		0.19	0.078	mg/Kg	☼	09/25/24 15:53	10/05/24 16:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*33 - 148*	*09/25/24 15:53*	*10/05/24 16:15*	*10*
Tetrachloro-m-xylene	*62*		*30 - 121*	*09/25/24 15:53*	*10/05/24 16:15*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 19:34	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 19:34	10

Client Sample ID: SB104 (0-3)
Date Collected: 09/18/24 10:37
Date Received: 09/19/24 11:55

Lab Sample ID: 500-257022-3
Matrix: Solid
Percent Solids: 86.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 19:34	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 19:34	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 19:34	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 19:34	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 19:34	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 19:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*49 - 129*	*09/25/24 15:53*	*10/08/24 19:34*	*10*
DCB Decachlorobiphenyl	*105*		*37 - 121*	*09/25/24 15:53*	*10/08/24 19:34*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		22		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Antimony	<2.2		2.2		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Arsenic	**8.9**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Barium	**99**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Beryllium	**0.84**		0.43		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Cadmium	**0.43**		0.22		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Calcium	**5000**		22		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Chromium	**21**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Cobalt	**15**		0.54		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Copper	**24**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Iron	**23000**		22		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Lead	**19**		0.54		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Magnesium	**4400**		11		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Manganese	**1000**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Nickel	**29**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Potassium	**1700**		54		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Selenium	<1.1		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Silver	**0.59**		0.54		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Sodium	**300**		110		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Thallium	**5.2**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Vanadium	**34**		0.54		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1
Zinc	**59**		2.2		mg/Kg	☼	10/02/24 10:12	10/03/24 22:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	10/02/24 17:55	10/03/24 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25		mg/Kg	☼	09/26/24 14:50	09/27/24 12:19	1
pH (SW846 9045D)	**7.66**	**^+**	0.20		SU			09/25/24 18:18	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB105 (0-3)
Lab Sample ID: 500-257022-4
Date Collected: 09/18/24 12:05
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 94.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00080		0.0020	0.00080	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
1,1,2-Trichloroethane	<0.00074		0.0020	0.00074	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
1,2-Dichloropropane	<0.00051		0.0020	0.00051	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0050	0.0035	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Acetone	<0.0083		0.020	0.0083	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Benzene	**0.00077**	**J**	0.0020	0.00062	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Bromomethane	<0.0024		0.0050	0.0024	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Carbon disulfide	**0.0031**	**J**	0.0050	0.00091	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Chloromethane	<0.00096		0.0050	0.00096	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
cis-1,2-Dichloroethene	<0.00080		0.0020	0.00080	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
1,3-Dichloropropene, Total	<0.00095		0.0020	0.00095	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Dibromochloromethane	<0.00092		0.0020	0.00092	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Ethylbenzene	<0.0010		0.0020	0.0010	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Methyl tert-butyl ether	<0.00064		0.0020	0.00064	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Styrene	<0.00089		0.0020	0.00089	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Toluene	**0.0017**	**J**	0.0020	0.00040	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Xylenes, Total	**0.00086**	**J**	0.0040	0.00068	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
trans-1,2-Dichloroethene	<0.00075		0.0020	0.00075	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1
Vinyl chloride	<0.00081		0.0020	0.00081	mg/Kg	☼	09/19/24 17:20	09/24/24 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/19/24 17:20*	*09/24/24 11:31*	*1*
4-Bromofluorobenzene (Surr)	*128*		*75 - 131*	*09/19/24 17:20*	*09/24/24 11:31*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*09/19/24 17:20*	*09/24/24 11:31*	*1*
Toluene-d8 (Surr)	*115*		*75 - 124*	*09/19/24 17:20*	*09/24/24 11:31*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.021		0.10	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Acenaphthylene	**0.10**		0.10	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Anthracene	**0.13**		0.10	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Benzo[a]anthracene	**1.1**		0.10	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Benzo[a]pyrene	**1.9**		0.10	0.098	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Benzo[b]fluoranthene	**2.8**		0.10	0.097	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Benzo[g,h,i]perylene	**2.7**		0.10	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB105 (0-3)
Lab Sample ID: 500-257022-4
Date Collected: 09/18/24 12:05
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 94.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.1**		0.10	0.039	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Chrysene	**1.3**		0.10	0.027	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Dibenz(a,h)anthracene	**0.31**		0.10	0.10	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Fluoranthene	**1.9**		0.10	0.024	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Fluorene	<0.030		0.10	0.030	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Indeno[1,2,3-cd]pyrene	**2.0**		0.10	0.099	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Naphthalene	**0.20**		0.10	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Phenanthrene	**0.73**		0.10	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Pyrene	**1.8**		0.10	0.028	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
1,2,4-Trichlorobenzene	<0.073		0.51	0.073	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
1,2-Dichlorobenzene	<0.041		0.51	0.041	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
1,3-Dichlorobenzene	<0.046		0.51	0.046	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
1,4-Dichlorobenzene	<0.048		0.51	0.048	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2,4,5-Trichlorophenol	<0.038		1.0	0.038	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2,4,6-Trichlorophenol	<0.035		1.0	0.035	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2,4-Dichlorophenol	<0.036		1.0	0.036	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2,4-Dimethylphenol	<0.23		1.0	0.23	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2,4-Dinitrophenol	<0.59		2.1	0.59	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2,4-Dinitrotoluene	<0.058		0.51	0.058	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2,6-Dinitrotoluene	<0.035		0.51	0.035	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2-Chloronaphthalene	<0.038		0.51	0.038	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2-Chlorophenol	<0.033		0.51	0.033	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2-Methylnaphthalene	**0.26**		0.21	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2-Methylphenol	<0.054		0.51	0.054	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2-Nitroaniline	<0.055		0.51	0.055	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
2-Nitrophenol	<0.069		1.0	0.069	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
3,3'-Dichlorobenzidine	<0.083		0.51	0.083	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
3 & 4 Methylphenol	<0.074		0.51	0.074	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
3-Nitroaniline	<0.046		1.0	0.046	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
4,6-Dinitro-2-methylphenol	<0.57		2.1	0.57	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
4-Bromophenyl phenyl ether	<0.070		0.51	0.070	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
4-Chloro-3-methylphenol	<0.040		1.0	0.040	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
4-Chloroaniline	<1.1		2.1	1.1	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
4-Chlorophenyl phenyl ether	<0.13		0.51	0.13	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
4-Nitroaniline	<0.075		1.0	0.075	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
4-Nitrophenol	<0.38		2.1	0.38	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Bis(2-chloroethoxy)methane	<0.038		0.51	0.038	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Bis(2-chloroethyl)ether	<0.047		0.51	0.047	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
bis(chloroisopropyl) ether	<0.073		0.51	0.073	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Bis(2-ethylhexyl) phthalate	<0.40		0.51	0.40	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Butyl benzyl phthalate	<0.051		0.51	0.051	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Carbazole	**0.058**	**J**	0.51	0.040	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Dibenzofuran	**0.10**	**J**	0.51	0.036	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Diethyl phthalate	<0.047		0.51	0.047	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Dimethyl phthalate	<0.022		0.51	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Di-n-butyl phthalate	<0.032		0.51	0.032	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Di-n-octyl phthalate	<0.71		1.0	0.71	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Hexachlorobenzene	<0.019		0.21	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Hexachlorobutadiene	<0.057		0.51	0.057	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2

Client Sample ID: SB105 (0-3)
Lab Sample ID: 500-257022-4
Date Collected: 09/18/24 12:05
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 94.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.1		2.1	1.1	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Hexachloroethane	<0.051		0.51	0.051	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Isophorone	<0.052		0.51	0.052	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Nitrobenzene	<0.032		0.10	0.032	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
N-Nitrosodi-n-propylamine	<0.020		0.21	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
N-Nitrosodiphenylamine	<0.060		0.51	0.060	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Pentachlorophenol	<0.25		2.1	0.25	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2
Phenol	<0.044		0.51	0.044	mg/Kg	☼	09/27/24 16:07	09/30/24 17:41	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*61*		*31 - 166*	*09/27/24 16:07*	*09/30/24 17:41*	*2*
Phenol-d5 (Surr)	*67*		*30 - 153*	*09/27/24 16:07*	*09/30/24 17:41*	*2*
Nitrobenzene-d5 (Surr)	*68*		*37 - 147*	*09/27/24 16:07*	*09/30/24 17:41*	*2*
2-Fluorobiphenyl (Surr)	*65*		*43 - 145*	*09/27/24 16:07*	*09/30/24 17:41*	*2*
2,4,6-Tribromophenol (Surr)	*54*		*31 - 143*	*09/27/24 16:07*	*09/30/24 17:41*	*2*
Terphenyl-d14 (Surr)	*62*		*42 - 157*	*09/27/24 16:07*	*09/30/24 17:41*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.018		0.034	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
4,4'-DDE	<0.017		0.034	0.017	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
4,4'-DDT	<0.016		0.034	0.016	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Aldrin	<0.023		0.034	0.023	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
alpha-BHC	<0.019		0.034	0.019	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
alpha-Chlordane	<0.018		0.034	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
beta-BHC	<0.027		0.034	0.027	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Chlordane (technical)	<0.063		0.13	0.063	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
delta-BHC	<0.016		0.034	0.016	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Dieldrin	<0.017		0.034	0.017	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Endosulfan I	<0.018		0.034	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Endosulfan II	<0.018		0.034	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Endosulfan sulfate	<0.019		0.034	0.019	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Endrin	<0.017		0.034	0.017	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Endrin aldehyde	<0.019		0.034	0.019	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Endrin ketone	<0.016		0.034	0.016	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
gamma-BHC (Lindane)	<0.017		0.034	0.017	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
gamma-Chlordane	<0.019		0.034	0.019	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Heptachlor	<0.018		0.034	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Heptachlor epoxide	<0.018		0.034	0.018	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Methoxychlor	<0.022		0.16	0.022	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20
Toxaphene	<0.13		0.33	0.13	mg/Kg	☼	09/25/24 15:53	10/05/24 16:27	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/25/24 15:53*	*10/05/24 16:27*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/25/24 15:53*	*10/05/24 16:27*	*20*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 19:49	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 19:49	10

Client Sample ID: SB105 (0-3)
Lab Sample ID: 500-257022-4

Date Collected: 09/18/24 12:05
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 94.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 19:49	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 19:49	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 19:49	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 19:49	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 19:49	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 19:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*49 - 129*	*09/25/24 15:53*	*10/08/24 19:49*	*10*
DCB Decachlorobiphenyl	*121*		*37 - 121*	*09/25/24 15:53*	*10/08/24 19:49*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		20		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Antimony	<2.0		2.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Arsenic	**6.7**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Barium	**75**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Beryllium	**0.62**		0.40		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Cadmium	**0.43**		0.20		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Calcium	**45000**		20		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Chromium	**18**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Cobalt	**7.9**		0.50		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Copper	**23**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Iron	**16000**		20		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Lead	**86**		0.50		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Magnesium	**18000**		10		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Manganese	**320**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Nickel	**18**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Potassium	**1600**		50		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Selenium	<1.0		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Silver	<0.50		0.50		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Sodium	**160**		100		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Thallium	**1.7**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Vanadium	**27**		0.50		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1
Zinc	**100**		2.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**		0.016		mg/Kg	☼	10/02/24 17:55	10/03/24 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**9.3**		2.4		mg/Kg	☼	09/26/24 14:50	09/27/24 13:38	10
pH (SW846 9045D)	**8.10**	**^+**	0.20		SU			09/25/24 18:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB105 (10-12.5)
Lab Sample ID: 500-257022-5
Date Collected: 09/18/24 12:28
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 86.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0026	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0026	0.0013	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
1,1,2-Trichloroethane	<0.00098		0.0026	0.00098	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
1,1-Dichloroethane	<0.00099		0.0026	0.00099	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
1,1-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
1,2-Dichloroethane	<0.0017		0.0065	0.0017	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
1,2-Dichloropropane	<0.00067		0.0026	0.00067	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
2-Butanone (MEK)	<0.0029		0.0065	0.0029	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
2-Hexanone	<0.0040		0.0065	0.0040	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0065	0.0047	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Acetone	<0.011		0.026	0.011	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Benzene	<0.00082		0.0026	0.00082	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Bromodichloromethane	<0.00084		0.0026	0.00084	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Bromoform	<0.0015		0.0026	0.0015	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Bromomethane	<0.0032		0.0065	0.0032	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Carbon disulfide	**0.0013**	**J**	0.0065	0.0012	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Carbon tetrachloride	<0.00089		0.0026	0.00089	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Chlorobenzene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Chloroethane	<0.0021		0.0065	0.0021	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Chloroform	<0.0019		0.0026	0.0019	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Chloromethane	<0.0013		0.0065	0.0013	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
cis-1,2-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
1,3-Dichloropropene, Total	<0.0013		0.0026	0.0013	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Dibromochloromethane	<0.0012		0.0026	0.0012	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Ethylbenzene	<0.0014		0.0026	0.0014	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Methyl tert-butyl ether	<0.00084		0.0026	0.00084	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Methylene Chloride	<0.0028		0.0065	0.0028	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Styrene	<0.0012		0.0026	0.0012	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Tetrachloroethene	<0.0015		0.0026	0.0015	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Toluene	<0.00053		0.0026	0.00053	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Xylenes, Total	<0.00090		0.0052	0.00090	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
trans-1,2-Dichloroethene	<0.00099		0.0026	0.00099	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Trichloroethene	<0.00071		0.0026	0.00071	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1
Vinyl chloride	<0.0011		0.0026	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 134*	*09/19/24 17:20*	*09/23/24 16:29*	*1*
4-Bromofluorobenzene (Surr)	*119*		*75 - 131*	*09/19/24 17:20*	*09/23/24 16:29*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*09/19/24 17:20*	*09/23/24 16:29*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*09/19/24 17:20*	*09/23/24 16:29*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.012		0.056	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Acenaphthylene	<0.0096		0.056	0.0096	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Anthracene	<0.012		0.056	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Benzo[a]anthracene	<0.012		0.056	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Benzo[a]pyrene	<0.055		0.056	0.055	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Benzo[b]fluoranthene	<0.054		0.056	0.054	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Benzo[g,h,i]perylene	<0.012		0.056	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB105 (10-12.5)
Lab Sample ID: 500-257022-5
Date Collected: 09/18/24 12:28
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 86.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.022		0.056	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Chrysene	<0.015		0.056	0.015	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Dibenz(a,h)anthracene	<0.056		0.056	0.056	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Fluoranthene	**0.023**	**J**	0.056	0.013	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Fluorene	<0.017		0.056	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Indeno[1,2,3-cd]pyrene	<0.055		0.056	0.055	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Naphthalene	**0.025**	**J**	0.056	0.010	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Phenanthrene	**0.056**		0.056	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Pyrene	<0.015		0.056	0.015	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
1,2,4-Trichlorobenzene	<0.040		0.29	0.040	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
1,2-Dichlorobenzene	<0.023		0.29	0.023	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
1,3-Dichlorobenzene	<0.026		0.29	0.026	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
1,4-Dichlorobenzene	<0.027		0.29	0.027	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2,4,5-Trichlorophenol	<0.021		0.56	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2,4,6-Trichlorophenol	<0.019		0.56	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2,4-Dichlorophenol	<0.020		0.56	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2,4-Dimethylphenol	<0.13		0.56	0.13	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2,4-Dinitrophenol	<0.33		1.1	0.33	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2,4-Dinitrotoluene	<0.032		0.29	0.032	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2,6-Dinitrotoluene	<0.019		0.29	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2-Chloronaphthalene	<0.021		0.29	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2-Chlorophenol	<0.018		0.29	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2-Methylnaphthalene	**0.033**	**J**	0.11	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2-Methylphenol	<0.030		0.29	0.030	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2-Nitroaniline	<0.030		0.29	0.030	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
2-Nitrophenol	<0.038		0.56	0.038	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
3,3'-Dichlorobenzidine	<0.046		0.29	0.046	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
3 & 4 Methylphenol	<0.042		0.29	0.042	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
3-Nitroaniline	<0.026		0.56	0.026	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
4,6-Dinitro-2-methylphenol	<0.32		1.1	0.32	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
4-Bromophenyl phenyl ether	<0.039		0.29	0.039	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
4-Chloro-3-methylphenol	<0.022		0.56	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
4-Chloroaniline	<0.59		1.1	0.59	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
4-Chlorophenyl phenyl ether	<0.074		0.29	0.074	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
4-Nitroaniline	<0.042		0.56	0.042	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
4-Nitrophenol	<0.21		1.1	0.21	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Bis(2-chloroethoxy)methane	<0.021		0.29	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Bis(2-chloroethyl)ether	<0.026		0.29	0.026	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
bis(chloroisopropyl) ether	<0.041		0.29	0.041	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Bis(2-ethylhexyl) phthalate	<0.22		0.29	0.22	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Butyl benzyl phthalate	<0.028		0.29	0.028	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Carbazole	<0.022		0.29	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Dibenzofuran	<0.020		0.29	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Diethyl phthalate	<0.026		0.29	0.026	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Dimethyl phthalate	<0.012		0.29	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Di-n-butyl phthalate	<0.018		0.29	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Di-n-octyl phthalate	<0.40		0.56	0.40	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Hexachlorobenzene	<0.011		0.11	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Hexachlorobutadiene	<0.032		0.29	0.032	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB105 (10-12.5)
Lab Sample ID: 500-257022-5
Date Collected: 09/18/24 12:28
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 86.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.60		1.1	0.60	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Hexachloroethane	<0.028		0.29	0.028	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Isophorone	<0.029		0.29	0.029	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Nitrobenzene	<0.018		0.056	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
N-Nitrosodi-n-propylamine	<0.011		0.11	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
N-Nitrosodiphenylamine	<0.034		0.29	0.034	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Pentachlorophenol	<0.14		1.1	0.14	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1
Phenol	<0.025		0.29	0.025	mg/Kg	☼	09/27/24 16:07	09/30/24 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*41*		*31 - 166*	*09/27/24 16:07*	*09/30/24 18:05*	*1*
Phenol-d5 (Surr)	*44*		*30 - 153*	*09/27/24 16:07*	*09/30/24 18:05*	*1*
Nitrobenzene-d5 (Surr)	*53*		*37 - 147*	*09/27/24 16:07*	*09/30/24 18:05*	*1*
2-Fluorobiphenyl (Surr)	*50*		*43 - 145*	*09/27/24 16:07*	*09/30/24 18:05*	*1*
2,4,6-Tribromophenol (Surr)	*29*	*S1-*	*31 - 143*	*09/27/24 16:07*	*09/30/24 18:05*	*1*
Terphenyl-d14 (Surr)	*53*		*42 - 157*	*09/27/24 16:07*	*09/30/24 18:05*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
4,4'-DDE	<0.0098		0.019	0.0098	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
4,4'-DDT	<0.0090		0.019	0.0090	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Chlordane (technical)	<0.036		0.076	0.036	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
delta-BHC	<0.0091		0.019	0.0091	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Dieldrin	<0.010		0.019	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Endosulfan sulfate	<0.011		0.019	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Endrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Endrin ketone	<0.0093		0.019	0.0093	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
gamma-BHC (Lindane)	<0.0095		0.019	0.0095	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Methoxychlor	<0.013		0.094	0.013	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10
Toxaphene	<0.076		0.19	0.076	mg/Kg	☼	09/25/24 15:53	10/05/24 16:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*33 - 148*	*09/25/24 15:53*	*10/05/24 16:39*	*10*
Tetrachloro-m-xylene	*47*		*30 - 121*	*09/25/24 15:53*	*10/05/24 16:39*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 20:04	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 20:04	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB105 (10-12.5)
Lab Sample ID: 500-257022-5
Date Collected: 09/18/24 12:28
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 86.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 20:04	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 20:04	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 20:04	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 20:04	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 20:04	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/25/24 15:53	10/08/24 20:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*49 - 129*	*09/25/24 15:53*	*10/08/24 20:04*	*10*
DCB Decachlorobiphenyl	*75*		*37 - 121*	*09/25/24 15:53*	*10/08/24 20:04*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**29000**		22		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Antimony	<2.2		2.2		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Arsenic	**5.5**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Barium	**340**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Beryllium	**4.7**		0.45		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Cadmium	<0.22		0.22		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Calcium	**190000**		110		mg/Kg	☼	10/02/24 10:12	10/05/24 05:56	5
Chromium	**18**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Cobalt	**6.8**		0.56		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Copper	**6.7**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Iron	**9900**		22		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Lead	**13**		0.56		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Magnesium	**9000**		11		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Manganese	**14000**		56		mg/Kg	☼	10/02/24 10:12	10/07/24 12:39	50
Nickel	**15**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Potassium	**1500**		56		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Selenium	**4.6**		1.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Silver	<2.8		2.8		mg/Kg	☼	10/02/24 10:12	10/05/24 05:56	5
Sodium	**650**		110		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Thallium	<56		56		mg/Kg	☼	10/02/24 10:12	10/07/24 12:39	50
Vanadium	**17**		0.56		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1
Zinc	**18**		2.2		mg/Kg	☼	10/02/24 10:12	10/03/24 22:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	10/02/24 17:55	10/03/24 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**14**		2.5		mg/Kg	☼	09/26/24 14:50	09/27/24 13:43	10
pH (SW846 9045D)	**7.79**	**^+**	0.20		SU			09/25/24 18:23	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB106 (0-3)
Lab Sample ID: 500-257022-6
Date Collected: 09/18/24 13:37
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 93.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00086		0.0021	0.00086	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0021	0.0011	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
1,1,2-Trichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
1,1-Dichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
1,1-Dichloroethene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
1,2-Dichloroethane	<0.0014		0.0053	0.0014	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
2-Butanone (MEK)	**0.015**		0.0053	0.0023	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
2-Hexanone	<0.0032		0.0053	0.0032	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0053	0.0038	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Acetone	**0.065**		0.021	0.0089	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Benzene	<0.00067		0.0021	0.00067	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Bromodichloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Bromomethane	<0.0026		0.0053	0.0026	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Carbon disulfide	**0.030**		0.0053	0.00098	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Carbon tetrachloride	<0.00073		0.0021	0.00073	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Chlorobenzene	<0.00090		0.0021	0.00090	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Chloroethane	<0.0017		0.0053	0.0017	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Chloromethane	<0.0010		0.0053	0.0010	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
cis-1,2-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Dibromochloromethane	<0.00099		0.0021	0.00099	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Methyl tert-butyl ether	<0.00069		0.0021	0.00069	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Methylene Chloride	<0.0023		0.0053	0.0023	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Styrene	<0.00096		0.0021	0.00096	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Toluene	**0.00094**	**J**	0.0021	0.00043	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Xylenes, Total	**0.0013**	**J**	0.0043	0.00073	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
trans-1,2-Dichloroethene	<0.00080		0.0021	0.00080	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Trichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1
Vinyl chloride	<0.00087		0.0021	0.00087	mg/Kg	☼	09/19/24 17:20	09/24/24 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*09/19/24 17:20*	*09/24/24 11:56*	*1*
4-Bromofluorobenzene (Surr)	*129*		*75 - 131*	*09/19/24 17:20*	*09/24/24 11:56*	*1*
Dibromofluoromethane	*61*	*S1-*	*75 - 126*	*09/19/24 17:20*	*09/24/24 11:56*	*1*
Toluene-d8 (Surr)	*117*		*75 - 124*	*09/19/24 17:20*	*09/24/24 11:56*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.021		0.10	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Acenaphthylene	<0.018		0.10	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Anthracene	<0.022		0.10	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Benzo[a]anthracene	**0.094**	**J**	0.10	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Benzo[a]pyrene	<0.10		0.10	0.10	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Benzo[b]fluoranthene	**0.20**		0.10	0.10	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Benzo[g,h,i]perylene	**0.15**		0.10	0.023	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB106 (0-3)
Lab Sample ID: 500-257022-6
Date Collected: 09/18/24 13:37
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 93.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.044**	**J**	0.10	0.040	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Chrysene	**0.11**		0.10	0.028	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Dibenz(a,h)anthracene	<0.10		0.10	0.10	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Fluoranthene	**0.13**		0.10	0.024	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Fluorene	<0.031		0.10	0.031	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Indeno[1,2,3-cd]pyrene	**0.12**		0.10	0.10	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Naphthalene	**0.072**	**J**	0.10	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Phenanthrene	**0.10**		0.10	0.023	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Pyrene	**0.12**		0.10	0.029	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
1,2,4-Trichlorobenzene	<0.075		0.53	0.075	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
1,2-Dichlorobenzene	<0.043		0.53	0.043	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
1,3-Dichlorobenzene	<0.048		0.53	0.048	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
1,4-Dichlorobenzene	<0.050		0.53	0.050	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2,4,5-Trichlorophenol	<0.040		1.0	0.040	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2,4,6-Trichlorophenol	<0.036		1.0	0.036	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2,4-Dichlorophenol	<0.037		1.0	0.037	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2,4-Dimethylphenol	<0.24		1.0	0.24	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2,4-Dinitrophenol	<0.61		2.1	0.61	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2,4-Dinitrotoluene	<0.060		0.53	0.060	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2,6-Dinitrotoluene	<0.036		0.53	0.036	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2-Chloronaphthalene	<0.039		0.53	0.039	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2-Chlorophenol	<0.034		0.53	0.034	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2-Methylnaphthalene	**0.044**	**J**	0.21	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2-Methylphenol	<0.056		0.53	0.056	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2-Nitroaniline	<0.056		0.53	0.056	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
2-Nitrophenol	<0.071		1.0	0.071	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
3,3'-Dichlorobenzidine	<0.086		0.53	0.086	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
3 & 4 Methylphenol	<0.077		0.53	0.077	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
3-Nitroaniline	<0.048		1.0	0.048	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
4,6-Dinitro-2-methylphenol	<0.59		2.1	0.59	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
4-Bromophenyl phenyl ether	<0.072		0.53	0.072	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
4-Chloro-3-methylphenol	<0.041		1.0	0.041	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
4-Chloroaniline	<1.1		2.1	1.1	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
4-Chlorophenyl phenyl ether	<0.14		0.53	0.14	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
4-Nitroaniline	<0.078		1.0	0.078	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
4-Nitrophenol	<0.39		2.1	0.39	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Bis(2-chloroethoxy)methane	<0.039		0.53	0.039	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Bis(2-chloroethyl)ether	<0.049		0.53	0.049	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
bis(chloroisopropyl) ether	<0.075		0.53	0.075	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Bis(2-ethylhexyl) phthalate	<0.41		0.53	0.41	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Butyl benzyl phthalate	<0.052		0.53	0.052	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Carbazole	<0.042		0.53	0.042	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Dibenzofuran	<0.037		0.53	0.037	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Diethyl phthalate	<0.048		0.53	0.048	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Dimethyl phthalate	<0.023		0.53	0.023	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Di-n-butyl phthalate	<0.033		0.53	0.033	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Di-n-octyl phthalate	<0.74		1.0	0.74	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Hexachlorobenzene	<0.020		0.21	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Hexachlorobutadiene	<0.059		0.53	0.059	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB106 (0-3)
Lab Sample ID: 500-257022-6
Date Collected: 09/18/24 13:37
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 93.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.1		2.1	1.1	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Hexachloroethane	<0.053		0.53	0.053	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Isophorone	<0.054		0.53	0.054	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Nitrobenzene	<0.033		0.10	0.033	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
N-Nitrosodi-n-propylamine	<0.021		0.21	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
N-Nitrosodiphenylamine	<0.062		0.53	0.062	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Pentachlorophenol	<0.26		2.1	0.26	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2
Phenol	<0.046		0.53	0.046	mg/Kg	☼	09/27/24 16:07	09/30/24 18:30	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*28*	*S1-*	*31 - 166*	*09/27/24 16:07*	*09/30/24 18:30*	*2*
Phenol-d5 (Surr)	*51*		*30 - 153*	*09/27/24 16:07*	*09/30/24 18:30*	*2*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*09/27/24 16:07*	*09/30/24 18:30*	*2*
2-Fluorobiphenyl (Surr)	*58*		*43 - 145*	*09/27/24 16:07*	*09/30/24 18:30*	*2*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*09/27/24 16:07*	*09/30/24 18:30*	*2*
Terphenyl-d14 (Surr)	*55*		*42 - 157*	*09/27/24 16:07*	*09/30/24 18:30*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Methoxychlor	<0.012		0.086	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/25/24 15:53	10/05/24 16:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*33 - 148*	*09/25/24 15:53*	*10/05/24 16:50*	*10*
Tetrachloro-m-xylene	*138*	*S1+*	*30 - 121*	*09/25/24 15:53*	*10/05/24 16:50*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:19	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:19	10

Client Sample ID: SB106 (0-3)
Lab Sample ID: 500-257022-6
Date Collected: 09/18/24 13:37
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 93.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:19	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:19	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:19	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:19	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:19	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*49 - 129*	*09/25/24 15:53*	*10/08/24 20:19*	*10*
DCB Decachlorobiphenyl	*101*		*37 - 121*	*09/25/24 15:53*	*10/08/24 20:19*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21000**		21		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Antimony	<2.1		2.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Arsenic	**25**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Barium	**240**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Beryllium	**4.5**		0.41		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Cadmium	**0.32**		0.21		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Calcium	**150000**		100		mg/Kg	☼	10/02/24 10:12	10/05/24 06:01	5
Chromium	**82**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Cobalt	**30**		0.52		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Copper	**56**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Iron	**32000**		21		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Lead	**79**		0.52		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Magnesium	**17000**		10		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Manganese	**52000**		52		mg/Kg	☼	10/02/24 10:12	10/07/24 12:44	50
Nickel	**110**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Potassium	**1600**		52		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Selenium	**11**		1.0		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Silver	<26		26		mg/Kg	☼	10/02/24 10:12	10/07/24 12:44	50
Sodium	**880**		100		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Thallium	<52		52		mg/Kg	☼	10/02/24 10:12	10/07/24 12:44	50
Vanadium	**54**		0.52		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1
Zinc	**120**		2.1		mg/Kg	☼	10/02/24 10:12	10/03/24 22:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	10/02/24 17:55	10/03/24 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**7.5**	**F1**	2.5		mg/Kg	☼	09/26/24 14:50	09/27/24 13:47	10
Sulfide (SW846 9034)	**200**		32		mg/Kg	☼	09/23/24 10:33	09/23/24 11:24	1
pH (SW846 9045D)	**11.52**	**^+**	0.20		SU			09/25/24 18:26	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB107 (0-3)
Lab Sample ID: 500-257022-7
Date Collected: 09/18/24 14:39
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 93.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00090		0.0022	0.00090	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
1,1,2-Trichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
1,1-Dichloroethane	<0.00084		0.0022	0.00084	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
1,1-Dichloroethene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
1,2-Dichloroethane	<0.0014		0.0056	0.0014	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
1,2-Dichloropropane	<0.00058		0.0022	0.00058	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
2-Butanone (MEK)	<0.0025		0.0056	0.0025	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
2-Hexanone	<0.0034		0.0056	0.0034	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0056	0.0040	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Acetone	**0.015**	**J**	0.022	0.0094	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Benzene	**0.00093**	**J**	0.0022	0.00070	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Bromodichloromethane	<0.00072		0.0022	0.00072	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Bromomethane	<0.0028		0.0056	0.0028	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Carbon disulfide	**0.0074**		0.0056	0.0010	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Carbon tetrachloride	<0.00076		0.0022	0.00076	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Chlorobenzene	<0.00094		0.0022	0.00094	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Chloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Chloromethane	<0.0011		0.0056	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
cis-1,2-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
1,3-Dichloropropene, Total	<0.0011		0.0022	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Ethylbenzene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Methyl tert-butyl ether	<0.00072		0.0022	0.00072	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Methylene Chloride	<0.0024		0.0056	0.0024	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Styrene	<0.0010		0.0022	0.0010	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Tetrachloroethene	<0.0013		0.0022	0.0013	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Toluene	**0.0015**	**J**	0.0022	0.00045	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Xylenes, Total	**0.0022**	**J**	0.0045	0.00077	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
trans-1,2-Dichloroethene	<0.00084		0.0022	0.00084	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Trichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1
Vinyl chloride	<0.00091		0.0022	0.00091	mg/Kg	☼	09/19/24 17:20	09/23/24 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 134*	*09/19/24 17:20*	*09/23/24 17:17*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 131*	*09/19/24 17:20*	*09/23/24 17:17*	*1*
Dibromofluoromethane	*81*		*75 - 126*	*09/19/24 17:20*	*09/23/24 17:17*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*09/19/24 17:20*	*09/23/24 17:17*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.083**		0.052	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Acenaphthylene	**0.061**		0.052	0.0089	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Anthracene	**0.21**		0.052	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Benzo[a]anthracene	**0.38**		0.052	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Benzo[a]pyrene	**0.31**		0.052	0.050	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Benzo[b]fluoranthene	**0.53**		0.052	0.050	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Benzo[g,h,i]perylene	**0.23**		0.052	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB107 (0-3)
Lab Sample ID: 500-257022-7
Date Collected: 09/18/24 14:39
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 93.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.20**		0.052	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Chrysene	**0.45**		0.052	0.014	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Dibenz(a,h)anthracene	**0.082**		0.052	0.052	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Fluoranthene	**0.91**		0.052	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Fluorene	**0.099**		0.052	0.015	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Indeno[1,2,3-cd]pyrene	**0.23**		0.052	0.051	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Naphthalene	**0.062**		0.052	0.0095	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Phenanthrene	**0.77**		0.052	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Pyrene	**0.74**		0.052	0.014	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
1,2,4-Trichlorobenzene	<0.037		0.26	0.037	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
1,2-Dichlorobenzene	<0.021		0.26	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
1,3-Dichlorobenzene	<0.024		0.26	0.024	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
1,4-Dichlorobenzene	<0.025		0.26	0.025	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2,4,5-Trichlorophenol	<0.020		0.52	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2,4,6-Trichlorophenol	<0.018		0.52	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2,4-Dichlorophenol	<0.018		0.52	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2,4-Dimethylphenol	<0.12		0.52	0.12	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2,4-Dinitrophenol	<0.30		1.1	0.30	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2,4-Dinitrotoluene	<0.030		0.26	0.030	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2,6-Dinitrotoluene	<0.018		0.26	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2-Chloronaphthalene	<0.020		0.26	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2-Chlorophenol	<0.017		0.26	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2-Methylnaphthalene	**0.034**	**J**	0.11	0.010	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2-Methylphenol	<0.028		0.26	0.028	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2-Nitroaniline	<0.028		0.26	0.028	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
2-Nitrophenol	<0.035		0.52	0.035	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
3,3'-Dichlorobenzidine	<0.043		0.26	0.043	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
3 & 4 Methylphenol	<0.038		0.26	0.038	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
3-Nitroaniline	<0.024		0.52	0.024	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
4,6-Dinitro-2-methylphenol	<0.29		1.1	0.29	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
4-Bromophenyl phenyl ether	<0.036		0.26	0.036	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
4-Chloro-3-methylphenol	<0.020		0.52	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
4-Chloroaniline	<0.55		1.1	0.55	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
4-Chlorophenyl phenyl ether	<0.069		0.26	0.069	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
4-Nitroaniline	<0.039		0.52	0.039	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
4-Nitrophenol	<0.19		1.1	0.19	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Bis(2-chloroethoxy)methane	<0.020		0.26	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Bis(2-chloroethyl)ether	<0.024		0.26	0.024	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
bis(chloroisopropyl) ether	<0.038		0.26	0.038	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Bis(2-ethylhexyl) phthalate	<0.20		0.26	0.20	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Butyl benzyl phthalate	<0.026		0.26	0.026	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Carbazole	**0.11**	**J**	0.26	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Dibenzofuran	**0.064**	**J**	0.26	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Diethyl phthalate	<0.024		0.26	0.024	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Dimethyl phthalate	<0.011		0.26	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Di-n-butyl phthalate	<0.017		0.26	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Di-n-octyl phthalate	<0.37		0.52	0.37	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Hexachlorobenzene	<0.010		0.11	0.010	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Hexachlorobutadiene	<0.029		0.26	0.029	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB107 (0-3)
Lab Sample ID: 500-257022-7
Date Collected: 09/18/24 14:39
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 93.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.55		1.1	0.55	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Hexachloroethane	<0.026		0.26	0.026	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Isophorone	<0.027		0.26	0.027	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Nitrobenzene	<0.017		0.052	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
N-Nitrosodi-n-propylamine	<0.010		0.11	0.010	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
N-Nitrosodiphenylamine	<0.031		0.26	0.031	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Pentachlorophenol	<0.13		1.1	0.13	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1
Phenol	<0.023		0.26	0.023	mg/Kg	☼	09/27/24 16:07	09/30/24 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*45*		*31 - 166*	*09/27/24 16:07*	*09/30/24 18:55*	*1*
Phenol-d5 (Surr)	*49*		*30 - 153*	*09/27/24 16:07*	*09/30/24 18:55*	*1*
Nitrobenzene-d5 (Surr)	*52*		*37 - 147*	*09/27/24 16:07*	*09/30/24 18:55*	*1*
2-Fluorobiphenyl (Surr)	*49*		*43 - 145*	*09/27/24 16:07*	*09/30/24 18:55*	*1*
2,4,6-Tribromophenol (Surr)	*33*		*31 - 143*	*09/27/24 16:07*	*09/30/24 18:55*	*1*
Terphenyl-d14 (Surr)	*52*		*42 - 157*	*09/27/24 16:07*	*09/30/24 18:55*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Methoxychlor	<0.012		0.086	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/25/24 15:53	10/05/24 17:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*33 - 148*	*09/25/24 15:53*	*10/05/24 17:02*	*10*
Tetrachloro-m-xylene	*66*		*30 - 121*	*09/25/24 15:53*	*10/05/24 17:02*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:34	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:34	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB107 (0-3)
Lab Sample ID: 500-257022-7
Date Collected: 09/18/24 14:39
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 93.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:34	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:34	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:34	10
PCB-1254	**0.45**		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:34	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:34	10
Polychlorinated biphenyls, Total	**0.45**		0.17		mg/Kg	☼	09/25/24 15:53	10/08/24 20:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/25/24 15:53*	*10/08/24 20:34*	*10*
DCB Decachlorobiphenyl	*140*	*S1+*	*37 - 121*	*09/25/24 15:53*	*10/08/24 20:34*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		19		mg/Kg	☼	10/02/24 10:12	10/03/24 22:34	1
Antimony	<1.9		1.9		mg/Kg	☼	10/02/24 10:12	10/03/24 22:34	1
Arsenic	**5.6**		4.9		mg/Kg	☼	10/02/24 10:12	10/05/24 06:05	5
Barium	**170**		4.9		mg/Kg	☼	10/02/24 10:12	10/05/24 06:05	5
Beryllium	**2.1**		1.9		mg/Kg	☼	10/02/24 10:12	10/05/24 06:05	5
Cadmium	<0.19		0.19		mg/Kg	☼	10/02/24 10:12	10/03/24 22:34	1
Calcium	**160000**		97		mg/Kg	☼	10/02/24 10:12	10/05/24 06:05	5
Chromium	**110**		0.97		mg/Kg	☼	10/02/24 10:12	10/03/24 22:34	1
Cobalt	**5.9**		0.49		mg/Kg	☼	10/02/24 10:12	10/03/24 22:34	1
Copper	**22**		4.9		mg/Kg	☼	10/02/24 10:12	10/05/24 06:05	5
Iron	**93000**		97		mg/Kg	☼	10/02/24 10:12	10/05/24 06:05	5
Lead	**16**		2.4		mg/Kg	☼	10/02/24 10:12	10/05/24 06:05	5
Magnesium	**18000**		9.7		mg/Kg	☼	10/02/24 10:12	10/03/24 22:34	1
Manganese	**12000**		49		mg/Kg	☼	10/02/24 10:12	10/07/24 12:48	50
Nickel	**11**		4.9		mg/Kg	☼	10/02/24 10:12	10/05/24 06:05	5
Potassium	**1000**		49		mg/Kg	☼	10/02/24 10:12	10/03/24 22:34	1
Selenium	**8.2**		4.9		mg/Kg	☼	10/02/24 10:12	10/05/24 06:05	5
Silver	<2.4		2.4		mg/Kg	☼	10/02/24 10:12	10/05/24 06:05	5
Sodium	**550**		97		mg/Kg	☼	10/02/24 10:12	10/03/24 22:34	1
Thallium	<49		49		mg/Kg	☼	10/02/24 10:12	10/07/24 12:48	50
Vanadium	**190**		2.4		mg/Kg	☼	10/02/24 10:12	10/05/24 06:05	5
Zinc	**63**		1.9		mg/Kg	☼	10/02/24 10:12	10/03/24 22:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**		0.016		mg/Kg	☼	10/02/24 17:55	10/03/24 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**13**		2.5		mg/Kg	☼	09/30/24 12:42	09/30/24 16:37	10
pH (SW846 9045D)	**9.18**	**^+**	0.20		SU			09/25/24 18:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB107 (7.5-10)
Lab Sample ID: 500-257022-8
Date Collected: 09/18/24 14:58
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 75.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0027	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0027	0.0013	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
1,1,2-Trichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
1,1-Dichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
1,1-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
1,2-Dichloroethane	<0.0017		0.0067	0.0017	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
1,2-Dichloropropane	<0.00069		0.0027	0.00069	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
2-Butanone (MEK)	<0.0029		0.0067	0.0029	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
2-Hexanone	<0.0041		0.0067	0.0041	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0067	0.0047	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Acetone	<0.011		0.027	0.011	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Benzene	<0.00084		0.0027	0.00084	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Bromodichloromethane	<0.00086		0.0027	0.00086	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Bromoform	<0.0016		0.0027	0.0016	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Bromomethane	<0.0033		0.0067	0.0033	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Carbon disulfide	**0.0056**	**J**	0.0067	0.0012	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Carbon tetrachloride	<0.00091		0.0027	0.00091	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Chlorobenzene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Chloroethane	<0.0022		0.0067	0.0022	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Chloroform	<0.0019		0.0027	0.0019	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Chloromethane	<0.0013		0.0067	0.0013	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
cis-1,2-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
1,3-Dichloropropene, Total	<0.0013		0.0027	0.0013	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Dibromochloromethane	<0.0012		0.0027	0.0012	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Ethylbenzene	<0.0014		0.0027	0.0014	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Methyl tert-butyl ether	<0.00086		0.0027	0.00086	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Methylene Chloride	<0.0029		0.0067	0.0029	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Styrene	<0.0012		0.0027	0.0012	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Tetrachloroethene	<0.0015		0.0027	0.0015	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Toluene	<0.00054		0.0027	0.00054	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Xylenes, Total	<0.00092		0.0053	0.00092	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
trans-1,2-Dichloroethene	<0.0010		0.0027	0.0010	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Trichloroethene	<0.00073		0.0027	0.00073	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1
Vinyl chloride	<0.0011		0.0027	0.0011	mg/Kg	☼	09/19/24 17:20	09/23/24 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*	*09/19/24 17:20*	*09/23/24 17:40*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*09/19/24 17:20*	*09/23/24 17:40*	*1*
Dibromofluoromethane	*76*		*75 - 126*	*09/19/24 17:20*	*09/23/24 17:40*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*09/19/24 17:20*	*09/23/24 17:40*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.027**	**J**	0.064	0.013	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Acenaphthylene	**0.035**	**J**	0.064	0.011	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Anthracene	**0.083**		0.064	0.013	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Benzo[a]anthracene	**0.22**		0.064	0.014	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Benzo[a]pyrene	**0.18**		0.064	0.062	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Benzo[b]fluoranthene	**0.31**		0.064	0.062	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Benzo[g,h,i]perylene	**0.16**		0.064	0.014	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB107 (7.5-10)
Lab Sample ID: 500-257022-8
Date Collected: 09/18/24 14:58
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 75.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.13**		0.064	0.025	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Chrysene	**0.26**		0.064	0.017	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Dibenz(a,h)anthracene	<0.064		0.064	0.064	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Fluoranthene	**0.48**		0.064	0.015	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Fluorene	**0.029**	**J**	0.064	0.019	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Indeno[1,2,3-cd]pyrene	**0.14**		0.064	0.063	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Naphthalene	**0.035**	**J**	0.064	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Phenanthrene	**0.35**		0.064	0.014	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Pyrene	**0.38**		0.064	0.018	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
1,2,4-Trichlorobenzene	<0.046		0.33	0.046	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
1,2-Dichlorobenzene	<0.026		0.33	0.026	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
1,3-Dichlorobenzene	<0.029		0.33	0.029	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
1,4-Dichlorobenzene	<0.031		0.33	0.031	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2,4,5-Trichlorophenol	<0.024		0.64	0.024	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2,4,6-Trichlorophenol	<0.022		0.64	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2,4-Dichlorophenol	<0.023		0.64	0.023	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2,4-Dimethylphenol	<0.14		0.64	0.14	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2,4-Dinitrophenol	<0.37		1.3	0.37	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2,4-Dinitrotoluene	<0.037		0.33	0.037	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2,6-Dinitrotoluene	<0.022		0.33	0.022	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2-Chloronaphthalene	<0.024		0.33	0.024	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2-Chlorophenol	<0.021		0.33	0.021	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2-Methylnaphthalene	**0.023**	**J**	0.13	0.013	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2-Methylphenol	<0.034		0.33	0.034	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2-Nitroaniline	**0.041**	**J**	0.33	0.035	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
2-Nitrophenol	<0.044		0.64	0.044	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
3,3'-Dichlorobenzidine	<0.053		0.33	0.053	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
3 & 4 Methylphenol	<0.047		0.33	0.047	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
3-Nitroaniline	<0.029		0.64	0.029	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
4,6-Dinitro-2-methylphenol	<0.36		1.3	0.36	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
4-Bromophenyl phenyl ether	<0.044		0.33	0.044	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
4-Chloro-3-methylphenol	<0.025		0.64	0.025	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
4-Chloroaniline	<0.68		1.3	0.68	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
4-Chlorophenyl phenyl ether	<0.085		0.33	0.085	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
4-Nitroaniline	<0.048		0.64	0.048	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
4-Nitrophenol	<0.24		1.3	0.24	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Bis(2-chloroethoxy)methane	<0.024		0.33	0.024	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Bis(2-chloroethyl)ether	<0.030		0.33	0.030	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
bis(chloroisopropyl) ether	<0.046		0.33	0.046	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Bis(2-ethylhexyl) phthalate	<0.25		0.33	0.25	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Butyl benzyl phthalate	<0.032		0.33	0.032	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Carbazole	**0.059**	**J**	0.33	0.026	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Dibenzofuran	**0.028**	**J**	0.33	0.023	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Diethyl phthalate	<0.030		0.33	0.030	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Dimethyl phthalate	<0.014		0.33	0.014	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Di-n-butyl phthalate	<0.020		0.33	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Di-n-octyl phthalate	<0.45		0.64	0.45	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Hexachlorobenzene	<0.012		0.13	0.012	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Hexachlorobutadiene	<0.036		0.33	0.036	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB107 (7.5-10)
Lab Sample ID: 500-257022-8
Date Collected: 09/18/24 14:58
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 75.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.69		1.3	0.69	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Hexachloroethane	<0.032		0.33	0.032	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Isophorone	<0.033		0.33	0.033	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Nitrobenzene	<0.020		0.064	0.020	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
N-Nitrosodi-n-propylamine	<0.013		0.13	0.013	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
N-Nitrosodiphenylamine	<0.038		0.33	0.038	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Pentachlorophenol	<0.16		1.3	0.16	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1
Phenol	<0.028		0.33	0.028	mg/Kg	☼	09/27/24 16:07	09/30/24 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*69*		*31 - 166*	*09/27/24 16:07*	*09/30/24 19:19*	*1*
Phenol-d5 (Surr)	*74*		*30 - 153*	*09/27/24 16:07*	*09/30/24 19:19*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*09/27/24 16:07*	*09/30/24 19:19*	*1*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/27/24 16:07*	*09/30/24 19:19*	*1*
2,4,6-Tribromophenol (Surr)	*43*		*31 - 143*	*09/27/24 16:07*	*09/30/24 19:19*	*1*
Terphenyl-d14 (Surr)	*77*		*42 - 157*	*09/27/24 16:07*	*09/30/24 19:19*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
4,4'-DDE	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
4,4'-DDT	<0.010		0.021	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Aldrin	<0.015		0.021	0.015	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
alpha-BHC	<0.012		0.021	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
alpha-Chlordane	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
beta-BHC	<0.017		0.021	0.017	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Chlordane (technical)	<0.040		0.085	0.040	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
delta-BHC	<0.010		0.021	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Dieldrin	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Endosulfan I	<0.012		0.021	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Endosulfan II	<0.012		0.021	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Endosulfan sulfate	<0.012		0.021	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Endrin	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Endrin aldehyde	<0.012		0.021	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Endrin ketone	<0.010		0.021	0.010	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
gamma-BHC (Lindane)	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
gamma-Chlordane	<0.012		0.021	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Heptachlor	<0.012		0.021	0.012	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Heptachlor epoxide	<0.011		0.021	0.011	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Methoxychlor	<0.014		0.10	0.014	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10
Toxaphene	<0.085		0.21	0.085	mg/Kg	☼	09/25/24 15:53	10/05/24 17:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*33 - 148*	*09/25/24 15:53*	*10/05/24 17:14*	*10*
Tetrachloro-m-xylene	*48*		*30 - 121*	*09/25/24 15:53*	*10/05/24 17:14*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.21		0.21		mg/Kg	☼	09/25/24 15:53	10/08/24 20:49	10
PCB-1221	<0.21		0.21		mg/Kg	☼	09/25/24 15:53	10/08/24 20:49	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB107 (7.5-10)
Lab Sample ID: 500-257022-8
Date Collected: 09/18/24 14:58
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 75.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.21		0.21		mg/Kg	☼	09/25/24 15:53	10/08/24 20:49	10
PCB-1242	<0.21		0.21		mg/Kg	☼	09/25/24 15:53	10/08/24 20:49	10
PCB-1248	<0.21		0.21		mg/Kg	☼	09/25/24 15:53	10/08/24 20:49	10
PCB-1254	<0.21		0.21		mg/Kg	☼	09/25/24 15:53	10/08/24 20:49	10
PCB-1260	<0.21		0.21		mg/Kg	☼	09/25/24 15:53	10/08/24 20:49	10
Polychlorinated biphenyls, Total	<0.21		0.21		mg/Kg	☼	09/25/24 15:53	10/08/24 20:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*49 - 129*	*09/25/24 15:53*	*10/08/24 20:49*	*10*
DCB Decachlorobiphenyl	*106*		*37 - 121*	*09/25/24 15:53*	*10/08/24 20:49*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		24		mg/Kg	☼	10/02/24 10:12	10/03/24 22:39	1
Antimony	<12		12		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Arsenic	**14**		6.1		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Barium	**130**		6.1		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Beryllium	<2.4		2.4		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Cadmium	<0.24		0.24		mg/Kg	☼	10/02/24 10:12	10/03/24 22:39	1
Calcium	**43000**		24		mg/Kg	☼	10/02/24 10:12	10/03/24 22:39	1
Chromium	**13**		1.2		mg/Kg	☼	10/02/24 10:12	10/03/24 22:39	1
Cobalt	**7.6**		0.61		mg/Kg	☼	10/02/24 10:12	10/03/24 22:39	1
Copper	**21**		6.1		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Iron	**200000**		120		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Lead	**22**		3.0		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Magnesium	**8300**		12		mg/Kg	☼	10/02/24 10:12	10/03/24 22:39	1
Manganese	**6900**		6.1		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Nickel	**6.3**		6.1		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Potassium	**1500**		61		mg/Kg	☼	10/02/24 10:12	10/03/24 22:39	1
Selenium	<6.1		6.1		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Silver	<3.0		3.0		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Sodium	**520**		120		mg/Kg	☼	10/02/24 10:12	10/03/24 22:39	1
Thallium	**32**		6.1		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Vanadium	**71**		3.0		mg/Kg	☼	10/02/24 10:12	10/05/24 06:10	5
Zinc	**40**		2.4		mg/Kg	☼	10/02/24 10:12	10/03/24 22:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.020		mg/Kg	☼	10/02/24 17:55	10/03/24 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**45**		15		mg/Kg	☼	09/30/24 12:42	09/30/24 16:42	50
pH (SW846 9045D)	**10.38**	**^+**	0.20		SU			09/25/24 18:31	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

General Chemistry

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 786959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	5035	
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	5035	
500-257022-3	SB104 (0-3)	Total/NA	Solid	5035	
500-257022-4	SB105 (0-3)	Total/NA	Solid	5035	
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	5035	
500-257022-6	SB106 (0-3)	Total/NA	Solid	5035	
500-257022-7	SB107 (0-3)	Total/NA	Solid	5035	
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	5035	

Analysis Batch: 787235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	8260D	786959
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	8260D	786959
500-257022-3	SB104 (0-3)	Total/NA	Solid	8260D	786959
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	8260D	786959
500-257022-7	SB107 (0-3)	Total/NA	Solid	8260D	786959
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	8260D	786959
MB 500-787235/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-787235/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-787235/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 787413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-4	SB105 (0-3)	Total/NA	Solid	8260D	786959
500-257022-6	SB106 (0-3)	Total/NA	Solid	8260D	786959
MB 500-787413/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-787413/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-787413/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 788133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	3546	
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	3546	
500-257022-3	SB104 (0-3)	Total/NA	Solid	3546	
500-257022-4	SB105 (0-3)	Total/NA	Solid	3546	
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	3546	
500-257022-6	SB106 (0-3)	Total/NA	Solid	3546	
500-257022-7	SB107 (0-3)	Total/NA	Solid	3546	
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	3546	
MB 500-788133/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-788133/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 788249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	8270E	788133
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	8270E	788133
500-257022-3	SB104 (0-3)	Total/NA	Solid	8270E	788133
500-257022-4	SB105 (0-3)	Total/NA	Solid	8270E	788133
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	8270E	788133

GC/MS Semi VOA (Continued)

Analysis Batch: 788249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-6	SB106 (0-3)	Total/NA	Solid	8270E	788133
500-257022-7	SB107 (0-3)	Total/NA	Solid	8270E	788133
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	8270E	788133
MB 500-788133/1-A	Method Blank	Total/NA	Solid	8270E	788133
LCS 500-788133/2-A	Lab Control Sample	Total/NA	Solid	8270E	788133

GC Semi VOA

Prep Batch: 787749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	3541	
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	3541	
500-257022-3	SB104 (0-3)	Total/NA	Solid	3541	
500-257022-4	SB105 (0-3)	Total/NA	Solid	3541	
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	3541	
500-257022-6	SB106 (0-3)	Total/NA	Solid	3541	
500-257022-7	SB107 (0-3)	Total/NA	Solid	3541	
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	3541	
MB 500-787749/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-787749/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-787749/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-257022-1 MS	SB103 (0-3)	Total/NA	Solid	3541	
500-257022-1 MS	SB103 (0-3)	Total/NA	Solid	3541	
500-257022-1 MSD	SB103 (0-3)	Total/NA	Solid	3541	
500-257022-1 MSD	SB103 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 789205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	8081B	787749
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	8081B	787749
500-257022-3	SB104 (0-3)	Total/NA	Solid	8081B	787749
500-257022-4	SB105 (0-3)	Total/NA	Solid	8081B	787749
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	8081B	787749
500-257022-6	SB106 (0-3)	Total/NA	Solid	8081B	787749
500-257022-7	SB107 (0-3)	Total/NA	Solid	8081B	787749
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	8081B	787749
MB 500-787749/1-A	Method Blank	Total/NA	Solid	8081B	787749
LCS 500-787749/2-A	Lab Control Sample	Total/NA	Solid	8081B	787749
500-257022-1 MS	SB103 (0-3)	Total/NA	Solid	8081B	787749
500-257022-1 MSD	SB103 (0-3)	Total/NA	Solid	8081B	787749

Analysis Batch: 789560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	8082A	787749
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	8082A	787749
500-257022-3	SB104 (0-3)	Total/NA	Solid	8082A	787749
500-257022-4	SB105 (0-3)	Total/NA	Solid	8082A	787749
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	8082A	787749
500-257022-6	SB106 (0-3)	Total/NA	Solid	8082A	787749
500-257022-7	SB107 (0-3)	Total/NA	Solid	8082A	787749
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	8082A	787749

GC Semi VOA (Continued)

Analysis Batch: 789560 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-787749/1-A	Method Blank	Total/NA	Solid	8082A	787749
LCS 500-787749/3-A	Lab Control Sample	Total/NA	Solid	8082A	787749
500-257022-1 MS	SB103 (0-3)	Total/NA	Solid	8082A	787749
500-257022-1 MSD	SB103 (0-3)	Total/NA	Solid	8082A	787749

Metals

Prep Batch: 788720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	3050B	
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	3050B	
500-257022-3	SB104 (0-3)	Total/NA	Solid	3050B	
500-257022-4	SB105 (0-3)	Total/NA	Solid	3050B	
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	3050B	
500-257022-6	SB106 (0-3)	Total/NA	Solid	3050B	
500-257022-7	SB107 (0-3)	Total/NA	Solid	3050B	
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	3050B	
MB 500-788720/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-788720/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 788759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	7471B	
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	7471B	
500-257022-3	SB104 (0-3)	Total/NA	Solid	7471B	
500-257022-4	SB105 (0-3)	Total/NA	Solid	7471B	
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	7471B	
500-257022-6	SB106 (0-3)	Total/NA	Solid	7471B	
500-257022-7	SB107 (0-3)	Total/NA	Solid	7471B	
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	7471B	
MB 500-788759/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-788759/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 788937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	7471B	788759
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	7471B	788759
500-257022-3	SB104 (0-3)	Total/NA	Solid	7471B	788759
500-257022-4	SB105 (0-3)	Total/NA	Solid	7471B	788759
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	7471B	788759
500-257022-6	SB106 (0-3)	Total/NA	Solid	7471B	788759
500-257022-7	SB107 (0-3)	Total/NA	Solid	7471B	788759
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	7471B	788759
MB 500-788759/12-A	Method Blank	Total/NA	Solid	7471B	788759
LCS 500-788759/13-A	Lab Control Sample	Total/NA	Solid	7471B	788759

Analysis Batch: 789070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	6010D	788720
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	6010D	788720
500-257022-3	SB104 (0-3)	Total/NA	Solid	6010D	788720

Metals (Continued)

Analysis Batch: 789070 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-4	SB105 (0-3)	Total/NA	Solid	6010D	788720
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	6010D	788720
500-257022-6	SB106 (0-3)	Total/NA	Solid	6010D	788720
500-257022-7	SB107 (0-3)	Total/NA	Solid	6010D	788720
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	6010D	788720
MB 500-788720/1-A	Method Blank	Total/NA	Solid	6010D	788720
LCS 500-788720/2-A	Lab Control Sample	Total/NA	Solid	6010D	788720

Analysis Batch: 789332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	6010D	788720
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	6010D	788720
500-257022-6	SB106 (0-3)	Total/NA	Solid	6010D	788720
500-257022-7	SB107 (0-3)	Total/NA	Solid	6010D	788720
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	6010D	788720

Analysis Batch: 789436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	6010D	788720
500-257022-6	SB106 (0-3)	Total/NA	Solid	6010D	788720
500-257022-7	SB107 (0-3)	Total/NA	Solid	6010D	788720

General Chemistry

Prep Batch: 628030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-6	SB106 (0-3)	Total/NA	Solid	9030B	
MB 240-628030/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-628030/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 628058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-6	SB106 (0-3)	Total/NA	Solid	9034	628030
MB 240-628030/1-A	Method Blank	Total/NA	Solid	9034	628030
LCS 240-628030/2-A	Lab Control Sample	Total/NA	Solid	9034	628030

Analysis Batch: 787837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	9045D	
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	9045D	
500-257022-3	SB104 (0-3)	Total/NA	Solid	9045D	
500-257022-4	SB105 (0-3)	Total/NA	Solid	9045D	
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	9045D	
500-257022-6	SB106 (0-3)	Total/NA	Solid	9045D	
500-257022-7	SB107 (0-3)	Total/NA	Solid	9045D	
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	9045D	
LCS 500-787837/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-787837/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

General Chemistry

Analysis Batch: 787855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	Moisture	
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	Moisture	
500-257022-3	SB104 (0-3)	Total/NA	Solid	Moisture	
500-257022-4	SB105 (0-3)	Total/NA	Solid	Moisture	
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	Moisture	
500-257022-6	SB106 (0-3)	Total/NA	Solid	Moisture	
500-257022-7	SB107 (0-3)	Total/NA	Solid	Moisture	
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	Moisture	
500-257022-1 DU	SB103 (0-3)	Total/NA	Solid	Moisture	

Prep Batch: 787924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	9010C	
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	9010C	
500-257022-3	SB104 (0-3)	Total/NA	Solid	9010C	
500-257022-4	SB105 (0-3)	Total/NA	Solid	9010C	
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	9010C	
500-257022-6	SB106 (0-3)	Total/NA	Solid	9010C	
MB 500-787924/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-787924/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-257022-6 MS	SB106 (0-3)	Total/NA	Solid	9010C	
500-257022-6 MSD	SB106 (0-3)	Total/NA	Solid	9010C	

Analysis Batch: 788122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	Total/NA	Solid	9012B	787924
500-257022-2	SB103 (5-7.5)	Total/NA	Solid	9012B	787924
500-257022-3	SB104 (0-3)	Total/NA	Solid	9012B	787924
500-257022-4	SB105 (0-3)	Total/NA	Solid	9012B	787924
500-257022-5	SB105 (10-12.5)	Total/NA	Solid	9012B	787924
500-257022-6	SB106 (0-3)	Total/NA	Solid	9012B	787924
MB 500-787924/1-A	Method Blank	Total/NA	Solid	9012B	787924
LCS 500-787924/2-A	Lab Control Sample	Total/NA	Solid	9012B	787924
500-257022-6 MS	SB106 (0-3)	Total/NA	Solid	9012B	787924
500-257022-6 MSD	SB106 (0-3)	Total/NA	Solid	9012B	787924

Prep Batch: 788339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-7	SB107 (0-3)	Total/NA	Solid	9010C	
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	9010C	
MB 500-788339/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-788339/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-257022-8 MS	SB107 (7.5-10)	Total/NA	Solid	9010C	
500-257022-8 MSD	SB107 (7.5-10)	Total/NA	Solid	9010C	

Analysis Batch: 788444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-7	SB107 (0-3)	Total/NA	Solid	9012B	788339
500-257022-8	SB107 (7.5-10)	Total/NA	Solid	9012B	788339
MB 500-788339/1-A	Method Blank	Total/NA	Solid	9012B	788339
LCS 500-788339/2-A	Lab Control Sample	Total/NA	Solid	9012B	788339

General Chemistry (Continued)

Analysis Batch: 788444 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-8 MS	SB107 (7.5-10)	Total/NA	Solid	9012B	788339
500-257022-8 MSD	SB107 (7.5-10)	Total/NA	Solid	9012B	788339

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-257022-1	SB103 (0-3)	90	110	93	108
500-257022-2	SB103 (5-7.5)	87	111	93	106
500-257022-3	SB104 (0-3)	89	109	95	103
500-257022-4	SB105 (0-3)	98	128	102	115
500-257022-5	SB105 (10-12.5)	86	119	93	106
500-257022-6	SB106 (0-3)	95	129	61 S1-	117
500-257022-7	SB107 (0-3)	86	112	81	106
500-257022-8	SB107 (7.5-10)	89	110	76	103
LCS 500-787235/4	Lab Control Sample	88	103	91	105
LCS 500-787413/4	Lab Control Sample	91	95	95	104
LCSD 500-787235/5	Lab Control Sample Dup	90	102	93	105
LCSD 500-787413/5	Lab Control Sample Dup	90	97	93	102
MB 500-787235/7	Method Blank	92	112	95	113
MB 500-787413/7	Method Blank	93	101	96	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-257022-1	SB103 (0-3)	58	63	64	64	32	60
500-257022-2	SB103 (5-7.5)	53	55	57	53	44	55
500-257022-3	SB104 (0-3)	68	73	70	64	75	82
500-257022-4	SB105 (0-3)	61	67	68	65	54	62
500-257022-5	SB105 (10-12.5)	41	44	53	50	29 S1-	53
500-257022-6	SB106 (0-3)	28 S1-	51	60	58	0 S1-	55
500-257022-7	SB107 (0-3)	45	49	52	49	33	52
500-257022-8	SB107 (7.5-10)	69	74	74	67	43	77
LCS 500-788133/2-A	Lab Control Sample	85	88	90	81	83	80
MB 500-788133/1-A	Method Blank	89	90	92	84	80	86

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (33-148)	TCX1 (30-121)
500-257022-1	SB103 (0-3)	0 S1-	0 S1-
500-257022-1 MS	SB103 (0-3)	0 S1-	0 S1-
500-257022-1 MSD	SB103 (0-3)	0 S1-	0 S1-
500-257022-2	SB103 (5-7.5)	107	1220 S1+
500-257022-3	SB104 (0-3)	77	62
500-257022-4	SB105 (0-3)	0 S1-	0 S1-
500-257022-5	SB105 (10-12.5)	48	47
500-257022-6	SB106 (0-3)	80	138 S1+
500-257022-7	SB107 (0-3)	77	66
500-257022-8	SB107 (7.5-10)	63	48
LCS 500-787749/2-A	Lab Control Sample	161 S1+	129 S1+
MB 500-787749/1-A	Method Blank	84	62

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (49-129)	DCBP2 (37-121)
500-257022-1	SB103 (0-3)	72	98
500-257022-1 MS	SB103 (0-3)	69	103
500-257022-1 MSD	SB103 (0-3)	74	110
500-257022-2	SB103 (5-7.5)	109	94
500-257022-3	SB104 (0-3)	62	105
500-257022-4	SB105 (0-3)	80	121
500-257022-5	SB105 (10-12.5)	77	75
500-257022-6	SB106 (0-3)	74	101
500-257022-7	SB107 (0-3)	59	140 S1+
500-257022-8	SB107 (7.5-10)	64	106
LCS 500-787749/3-A	Lab Control Sample	79	110
MB 500-787749/1-A	Method Blank	77	108

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257022-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-787235/7
Matrix: Solid
Analysis Batch: 787235

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/23/24 11:39	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/23/24 11:39	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/23/24 11:39	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/23/24 11:39	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/23/24 11:39	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/23/24 11:39	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/23/24 11:39	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/23/24 11:39	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/23/24 11:39	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/23/24 11:39	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/23/24 11:39	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/23/24 11:39	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/23/24 11:39	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/23/24 11:39	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/23/24 11:39	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/23/24 11:39	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/23/24 11:39	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/23/24 11:39	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/23/24 11:39	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/23/24 11:39	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/23/24 11:39	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/23/24 11:39	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/23/24 11:39	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/23/24 11:39	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/23/24 11:39	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/23/24 11:39	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/23/24 11:39	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/23/24 11:39	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/23/24 11:39	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/23/24 11:39	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/23/24 11:39	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/23/24 11:39	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/23/24 11:39	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/23/24 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*		*09/23/24 11:39*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 131*		*09/23/24 11:39*	*1*
Dibromofluoromethane	*95*		*75 - 126*		*09/23/24 11:39*	*1*
Toluene-d8 (Surr)	*113*		*75 - 124*		*09/23/24 11:39*	*1*

Lab Sample ID: LCS 500-787235/4
Matrix: Solid
Analysis Batch: 787235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0463		mg/Kg		93	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0407		mg/Kg		81	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-787235/4
Matrix: Solid
Analysis Batch: 787235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0414		mg/Kg		83	70 - 125
1,1-Dichloroethane	0.0500	0.0412		mg/Kg		82	70 - 125
1,1-Dichloroethene	0.0500	0.0417		mg/Kg		83	70 - 120
1,2-Dichloroethane	0.0500	0.0394		mg/Kg		79	70 - 130
1,2-Dichloropropane	0.0500	0.0438		mg/Kg		88	70 - 125
2-Butanone (MEK)	0.0500	0.0325		mg/Kg		65	47 - 138
2-Hexanone	0.0500	0.0369		mg/Kg		74	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0349		mg/Kg		70	50 - 148
Acetone	0.0500	0.0324		mg/Kg		65	40 - 150
Benzene	0.0500	0.0505		mg/Kg		101	70 - 125
Bromodichloromethane	0.0500	0.0444		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0403		mg/Kg		81	68 - 136
Bromomethane	0.0500	0.0506		mg/Kg		101	70 - 130
Carbon disulfide	0.0500	0.0457		mg/Kg		91	70 - 129
Carbon tetrachloride	0.0500	0.0457		mg/Kg		91	75 - 125
Chlorobenzene	0.0500	0.0456		mg/Kg		91	50 - 150
Chloroethane	0.0500	0.0497		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0426		mg/Kg		85	57 - 135
Chloromethane	0.0500	0.0450		mg/Kg		90	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0411		mg/Kg		82	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0499		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0407		mg/Kg		81	69 - 125
Ethylbenzene	0.0500	0.0497		mg/Kg		99	61 - 136
Methyl tert-butyl ether	0.0500	0.0422		mg/Kg		84	50 - 140
Methylene Chloride	0.0500	0.0372		mg/Kg		74	70 - 126
Styrene	0.0500	0.0487		mg/Kg		97	70 - 125
Tetrachloroethene	0.0500	0.0496		mg/Kg		99	70 - 124
Toluene	0.0500	0.0508		mg/Kg		102	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0426		mg/Kg		85	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0476		mg/Kg		95	70 - 125
Trichloroethene	0.0500	0.0431		mg/Kg		86	70 - 125
Vinyl chloride	0.0500	0.0532		mg/Kg		106	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*
Dibromofluoromethane	*91*		*75 - 126*
Toluene-d8 (Surr)	*105*		*75 - 124*

Lab Sample ID: LCSD 500-787235/5
Matrix: Solid
Analysis Batch: 787235

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0477		mg/Kg		95	70 - 128	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0432		mg/Kg		86	70 - 122	6	30
1,1,2-Trichloroethane	0.0500	0.0441		mg/Kg		88	70 - 125	6	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-787235/5
Matrix: Solid
Analysis Batch: 787235

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0425		mg/Kg		85	70 - 125	3	30
1,1-Dichloroethene			0.0500	0.0428		mg/Kg		86	70 - 120	3	30
1,2-Dichloroethane			0.0500	0.0394		mg/Kg		79	70 - 130	0	30
1,2-Dichloropropane			0.0500	0.0456		mg/Kg		91	70 - 125	4	30
2-Butanone (MEK)			0.0500	0.0365		mg/Kg		73	47 - 138	11	30
2-Hexanone			0.0500	0.0366		mg/Kg		73	48 - 146	1	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0354		mg/Kg		71	50 - 148	1	30
Acetone			0.0500	0.0315		mg/Kg		63	40 - 150	3	30
Benzene			0.0500	0.0515		mg/Kg		103	70 - 125	2	30
Bromodichloromethane			0.0500	0.0466		mg/Kg		93	67 - 129	5	30
Bromoform			0.0500	0.0406		mg/Kg		81	68 - 136	1	30
Bromomethane			0.0500	0.0504		mg/Kg		101	70 - 130	0	30
Carbon disulfide			0.0500	0.0471		mg/Kg		94	70 - 129	3	30
Carbon tetrachloride			0.0500	0.0461		mg/Kg		92	75 - 125	1	30
Chlorobenzene			0.0500	0.0470		mg/Kg		94	50 - 150	3	30
Chloroethane			0.0500	0.0509		mg/Kg		102	75 - 125	2	30
Chloroform			0.0500	0.0445		mg/Kg		89	57 - 135	4	30
Chloromethane			0.0500	0.0411		mg/Kg		82	70 - 125	9	30
cis-1,2-Dichloroethene			0.0500	0.0426		mg/Kg		85	70 - 125	3	30
cis-1,3-Dichloropropene			0.0500	0.0517		mg/Kg		103	70 - 125	3	30
Dibromochloromethane			0.0500	0.0421		mg/Kg		84	69 - 125	3	30
Ethylbenzene			0.0500	0.0518		mg/Kg		104	61 - 136	4	30
Methyl tert-butyl ether			0.0500	0.0431		mg/Kg		86	50 - 140	2	30
Methylene Chloride			0.0500	0.0385		mg/Kg		77	70 - 126	3	30
Styrene			0.0500	0.0510		mg/Kg		102	70 - 125	4	30
Tetrachloroethene			0.0500	0.0520		mg/Kg		104	70 - 124	5	30
Toluene			0.0500	0.0517		mg/Kg		103	70 - 125	2	30
Xylenes, Total			0.100	0.103		mg/Kg		103	53 - 147	2	30
trans-1,2-Dichloroethene			0.0500	0.0437		mg/Kg		87	70 - 125	2	30
trans-1,3-Dichloropropene			0.0500	0.0483		mg/Kg		97	70 - 125	1	30
Trichloroethene			0.0500	0.0461		mg/Kg		92	70 - 125	7	30
Vinyl chloride			0.0500	0.0515		mg/Kg		103	70 - 125	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
Toluene-d8 (Surr)	*105*		*75 - 124*

Lab Sample ID: MB 500-787413/7
Matrix: Solid
Analysis Batch: 787413

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/24/24 11:06	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/24/24 11:06	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/24/24 11:06	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/24/24 11:06	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-787413/7
Matrix: Solid
Analysis Batch: 787413

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/24/24 11:06	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/24/24 11:06	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/24/24 11:06	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/24/24 11:06	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/24/24 11:06	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/24/24 11:06	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/24/24 11:06	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/24/24 11:06	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/24/24 11:06	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/24/24 11:06	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/24/24 11:06	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/24/24 11:06	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/24/24 11:06	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/24/24 11:06	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/24/24 11:06	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/24/24 11:06	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/24/24 11:06	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/24/24 11:06	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/24/24 11:06	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/24/24 11:06	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/24/24 11:06	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/24/24 11:06	1
Methylene Chloride	0.00329	J	0.0050	0.0021	mg/Kg			09/24/24 11:06	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/24/24 11:06	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/24/24 11:06	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/24/24 11:06	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/24/24 11:06	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/24/24 11:06	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/24/24 11:06	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/24/24 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*		*09/24/24 11:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*		*09/24/24 11:06*	*1*
Dibromofluoromethane	*96*		*75 - 126*		*09/24/24 11:06*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*		*09/24/24 11:06*	*1*

Lab Sample ID: LCS 500-787413/4
Matrix: Solid
Analysis Batch: 787413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0401		mg/Kg		80	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0468		mg/Kg		94	70 - 122
1,1,2-Trichloroethane	0.0500	0.0448		mg/Kg		90	70 - 125
1,1-Dichloroethane	0.0500	0.0447		mg/Kg		89	70 - 125
1,1-Dichloroethene	0.0500	0.0443		mg/Kg		89	70 - 120
1,2-Dichloroethane	0.0500	0.0387		mg/Kg		77	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-787413/4
Matrix: Solid
Analysis Batch: 787413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125
2-Butanone (MEK)	0.0500	0.0464		mg/Kg		93	47 - 138
2-Hexanone	0.0500	0.0528		mg/Kg		106	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0536		mg/Kg		107	50 - 148
Acetone	0.0500	0.0428		mg/Kg		86	40 - 150
Benzene	0.0500	0.0452		mg/Kg		90	70 - 125
Bromodichloromethane	0.0500	0.0434		mg/Kg		87	67 - 129
Bromoform	0.0500	0.0420		mg/Kg		84	68 - 136
Bromomethane	0.0500	0.0440		mg/Kg		88	70 - 130
Carbon disulfide	0.0500	0.0461		mg/Kg		92	70 - 129
Carbon tetrachloride	0.0500	0.0406		mg/Kg		81	75 - 125
Chlorobenzene	0.0500	0.0442		mg/Kg		88	50 - 150
Chloroethane	0.0500	0.0488		mg/Kg		98	75 - 125
Chloroform	0.0500	0.0409		mg/Kg		82	57 - 135
Chloromethane	0.0500	0.0472		mg/Kg		94	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0430		mg/Kg		86	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0466		mg/Kg		93	70 - 125
Dibromochloromethane	0.0500	0.0435		mg/Kg		87	69 - 125
Ethylbenzene	0.0500	0.0469		mg/Kg		94	61 - 136
Methyl tert-butyl ether	0.0500	0.0437		mg/Kg		87	50 - 140
Methylene Chloride	0.0500	0.0408		mg/Kg		82	70 - 126
Styrene	0.0500	0.0483		mg/Kg		97	70 - 125
Tetrachloroethene	0.0500	0.0418		mg/Kg		84	70 - 124
Toluene	0.0500	0.0454		mg/Kg		91	70 - 125
Xylenes, Total	0.100	0.0900		mg/Kg		90	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0444		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0420		mg/Kg		84	70 - 125
Vinyl chloride	0.0500	0.0431		mg/Kg		86	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*
Dibromofluoromethane	*95*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 124*

Lab Sample ID: LCSD 500-787413/5
Matrix: Solid
Analysis Batch: 787413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0401		mg/Kg		80	70 - 128	0	30
1,1,2,2-Tetrachloroethane	0.0500	0.0465		mg/Kg		93	70 - 122	1	30
1,1,2-Trichloroethane	0.0500	0.0437		mg/Kg		87	70 - 125	2	30
1,1-Dichloroethane	0.0500	0.0438		mg/Kg		88	70 - 125	2	30
1,1-Dichloroethene	0.0500	0.0442		mg/Kg		88	70 - 120	0	30
1,2-Dichloroethane	0.0500	0.0387		mg/Kg		77	70 - 130	0	30
1,2-Dichloropropane	0.0500	0.0469		mg/Kg		94	70 - 125	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-787413/5
Matrix: Solid
Analysis Batch: 787413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	0.0500	0.0473		mg/Kg		95	47 - 138	2	30
2-Hexanone	0.0500	0.0525		mg/Kg		105	48 - 146	1	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0540		mg/Kg		108	50 - 148	1	30
Acetone	0.0500	0.0405		mg/Kg		81	40 - 150	5	30
Benzene	0.0500	0.0455		mg/Kg		91	70 - 125	1	30
Bromodichloromethane	0.0500	0.0431		mg/Kg		86	67 - 129	1	30
Bromoform	0.0500	0.0422		mg/Kg		84	68 - 136	0	30
Bromomethane	0.0500	0.0432		mg/Kg		86	70 - 130	2	30
Carbon disulfide	0.0500	0.0462		mg/Kg		92	70 - 129	0	30
Carbon tetrachloride	0.0500	0.0397		mg/Kg		79	75 - 125	2	30
Chlorobenzene	0.0500	0.0437		mg/Kg		87	50 - 150	1	30
Chloroethane	0.0500	0.0458		mg/Kg		92	75 - 125	6	30
Chloroform	0.0500	0.0427		mg/Kg		85	57 - 135	4	30
Chloromethane	0.0500	0.0455		mg/Kg		91	70 - 125	4	30
cis-1,2-Dichloroethene	0.0500	0.0441		mg/Kg		88	70 - 125	3	30
cis-1,3-Dichloropropene	0.0500	0.0453		mg/Kg		91	70 - 125	3	30
Dibromochloromethane	0.0500	0.0428		mg/Kg		86	69 - 125	2	30
Ethylbenzene	0.0500	0.0462		mg/Kg		92	61 - 136	2	30
Methyl tert-butyl ether	0.0500	0.0439		mg/Kg		88	50 - 140	0	30
Methylene Chloride	0.0500	0.0412		mg/Kg		82	70 - 126	1	30
Styrene	0.0500	0.0468		mg/Kg		94	70 - 125	3	30
Tetrachloroethene	0.0500	0.0411		mg/Kg		82	70 - 124	2	30
Toluene	0.0500	0.0463		mg/Kg		93	70 - 125	2	30
Xylenes, Total	0.100	0.0885		mg/Kg		88	53 - 147	2	30
trans-1,2-Dichloroethene	0.0500	0.0451		mg/Kg		90	70 - 125	1	30
trans-1,3-Dichloropropene	0.0500	0.0437		mg/Kg		87	70 - 125	2	30
Trichloroethene	0.0500	0.0408		mg/Kg		82	70 - 125	3	30
Vinyl chloride	0.0500	0.0411		mg/Kg		82	70 - 125	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 124*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-788133/1-A
Matrix: Solid
Analysis Batch: 788249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/27/24 16:07	09/30/24 15:11	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-788133/1-A
Matrix: Solid
Analysis Batch: 788249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/27/24 16:07	09/30/24 15:11	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257022-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-788133/1-A
Matrix: Solid
Analysis Batch: 788249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/27/24 16:07	09/30/24 15:11	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/27/24 16:07	09/30/24 15:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*89*		*31 - 166*	*09/27/24 16:07*	*09/30/24 15:11*	*1*
Phenol-d5 (Surr)	*90*		*30 - 153*	*09/27/24 16:07*	*09/30/24 15:11*	*1*
Nitrobenzene-d5 (Surr)	*92*		*37 - 147*	*09/27/24 16:07*	*09/30/24 15:11*	*1*
2-Fluorobiphenyl (Surr)	*84*		*43 - 145*	*09/27/24 16:07*	*09/30/24 15:11*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*31 - 143*	*09/27/24 16:07*	*09/30/24 15:11*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*09/27/24 16:07*	*09/30/24 15:11*	*1*

Lab Sample ID: LCS 500-788133/2-A
Matrix: Solid
Analysis Batch: 788249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	3.01		mg/Kg		90	63 - 109
Acenaphthylene	3.33	3.16		mg/Kg		95	61 - 115
Anthracene	3.33	2.91		mg/Kg		87	68 - 120
Benzo[a]anthracene	3.33	2.78		mg/Kg		83	70 - 121
Benzo[a]pyrene	3.33	2.98		mg/Kg		90	73 - 132
Benzo[b]fluoranthene	3.33	3.25		mg/Kg		97	68 - 123
Benzo[g,h,i]perylene	3.33	3.13		mg/Kg		94	65 - 126
Benzo[k]fluoranthene	3.33	2.88		mg/Kg		86	64 - 128
Chrysene	3.33	2.84		mg/Kg		85	70 - 123
Dibenz(a,h)anthracene	3.33	3.06		mg/Kg		92	66 - 125
Fluoranthene	3.33	2.81		mg/Kg		84	66 - 123
Fluorene	3.33	2.90		mg/Kg		87	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.64		mg/Kg		109	66 - 131
Naphthalene	3.33	2.80		mg/Kg		84	54 - 98
Phenanthrene	3.33	2.88		mg/Kg		86	65 - 115
Pyrene	3.33	2.94		mg/Kg		88	71 - 128
1,2,4-Trichlorobenzene	3.33	2.44		mg/Kg		73	49 - 100
1,2-Dichlorobenzene	3.33	2.62		mg/Kg		79	47 - 94
1,3-Dichlorobenzene	3.33	2.61		mg/Kg		78	47 - 92
1,4-Dichlorobenzene	3.33	2.60		mg/Kg		78	46 - 92
2,4,5-Trichlorophenol	3.33	2.71		mg/Kg		81	48 - 121
2,4,6-Trichlorophenol	3.33	2.72		mg/Kg		82	50 - 121
2,4-Dichlorophenol	3.33	2.60		mg/Kg		78	51 - 109
2,4-Dimethylphenol	3.33	3.08		mg/Kg		92	48 - 93
2,4-Dinitrophenol	6.67	3.04		mg/Kg		46	10 - 130
2,4-Dinitrotoluene	3.33	2.89		mg/Kg		87	65 - 120

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257022-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-788133/2-A
Matrix: Solid
Analysis Batch: 788249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	3.33	2.77		mg/Kg		83	66 - 117
2-Chloronaphthalene	3.33	2.88		mg/Kg		86	60 - 107
2-Chlorophenol	3.33	2.83		mg/Kg		85	50 - 102
2-Methylnaphthalene	3.33	2.49		mg/Kg		75	58 - 103
2-Methylphenol	3.33	2.97		mg/Kg		89	50 - 104
2-Nitroaniline	3.33	3.71		mg/Kg		111	61 - 126
2-Nitrophenol	3.33	2.70		mg/Kg		81	41 - 114
3,3'-Dichlorobenzidine	3.33	2.78		mg/Kg		83	36 - 131
3 & 4 Methylphenol	3.33	2.93		mg/Kg		88	49 - 109
3-Nitroaniline	3.33	2.75		mg/Kg		82	44 - 124
4,6-Dinitro-2-methylphenol	6.67	4.34		mg/Kg		65	36 - 138
4-Bromophenyl phenyl ether	3.33	2.90		mg/Kg		87	57 - 124
4-Chloro-3-methylphenol	3.33	3.05		mg/Kg		92	57 - 113
4-Chloroaniline	3.33	2.62		mg/Kg		79	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.81		mg/Kg		84	60 - 112
4-Nitroaniline	3.33	2.71		mg/Kg		81	60 - 115
4-Nitrophenol	6.67	5.84		mg/Kg		88	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.97		mg/Kg		89	54 - 102
Bis(2-chloroethyl)ether	3.33	3.02		mg/Kg		91	49 - 99
bis(chloroisopropyl) ether	3.33	3.23		mg/Kg		97	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.02		mg/Kg		91	70 - 139
Butyl benzyl phthalate	3.33	3.12		mg/Kg		94	65 - 140
Carbazole	3.33	2.91		mg/Kg		87	68 - 120
Dibenzofuran	3.33	2.84		mg/Kg		85	64 - 112
Diethyl phthalate	3.33	3.11		mg/Kg		93	66 - 115
Dimethyl phthalate	3.33	2.93		mg/Kg		88	65 - 114
Di-n-butyl phthalate	3.33	3.07		mg/Kg		92	69 - 125
Di-n-octyl phthalate	3.33	2.90		mg/Kg		87	61 - 131
Hexachlorobenzene	3.33	3.01		mg/Kg		90	52 - 126
Hexachlorobutadiene	3.33	2.54		mg/Kg		76	42 - 103
Hexachlorocyclopentadiene	3.33	1.79		mg/Kg		54	10 - 100
Hexachloroethane	3.33	2.93		mg/Kg		88	45 - 95
Isophorone	3.33	3.03		mg/Kg		91	47 - 108
Nitrobenzene	3.33	3.20		mg/Kg		96	52 - 105
N-Nitrosodi-n-propylamine	3.33	3.06		mg/Kg		92	48 - 110
N-Nitrosodiphenylamine	3.33	2.88		mg/Kg		86	67 - 112
Pentachlorophenol	6.67	4.94		mg/Kg		74	32 - 128
Phenol	3.33	2.88		mg/Kg		86	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*85*		*31 - 166*
Phenol-d5 (Surr)	*88*		*30 - 153*
Nitrobenzene-d5 (Surr)	*90*		*37 - 147*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*83*		*31 - 143*
Terphenyl-d14 (Surr)	*80*		*42 - 157*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-787749/1-A
Matrix: Solid
Analysis Batch: 789205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/25/24 15:53	10/05/24 15:06	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/25/24 15:53	10/05/24 15:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*33 - 148*	*09/25/24 15:53*	*10/05/24 15:06*	*1*
Tetrachloro-m-xylene	*62*		*30 - 121*	*09/25/24 15:53*	*10/05/24 15:06*	*1*

Lab Sample ID: LCS 500-787749/2-A
Matrix: Solid
Analysis Batch: 789205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0106		mg/Kg		79	47 - 137
4,4'-DDE	0.0133	0.0104		mg/Kg		78	50 - 130
4,4'-DDT	0.0133	0.0119		mg/Kg		89	46 - 143
Aldrin	0.0133	0.0100		mg/Kg		75	52 - 122
alpha-BHC	0.0133	0.0103		mg/Kg		77	50 - 123
beta-BHC	0.0133	0.00972		mg/Kg		73	44 - 140
delta-BHC	0.0133	0.0104		mg/Kg		78	57 - 125
Dieldrin	0.0133	0.0110		mg/Kg		82	51 - 133
Endosulfan I	0.0133	0.00886		mg/Kg		66	30 - 120
Endosulfan II	0.0133	0.00908		mg/Kg		68	30 - 120
Endosulfan sulfate	0.0133	0.0110		mg/Kg		83	42 - 150
Endrin	0.0133	0.0105		mg/Kg		79	43 - 144
Endrin aldehyde	0.0133	0.00945		mg/Kg		71	39 - 131
Endrin ketone	0.0133	0.0107		mg/Kg		80	51 - 135
gamma-BHC (Lindane)	0.0133	0.0103		mg/Kg		77	50 - 122
Heptachlor	0.0133	0.00969		mg/Kg		73	53 - 129

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-787749/2-A
Matrix: Solid
Analysis Batch: 789205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide	0.0133	0.0104		mg/Kg		78	50 - 139
Methoxychlor	0.0133	0.0104		mg/Kg		78	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*161*	*S1+*	*33 - 148*
Tetrachloro-m-xylene	*129*	*S1+*	*30 - 121*

Lab Sample ID: 500-257022-1 MS
Matrix: Solid
Analysis Batch: 789205

Client Sample ID: SB103 (0-3)
Prep Type: Total/NA
Prep Batch: 787749

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.018		0.0133	<0.018		mg/Kg	☼	NC	47 - 137
4,4'-DDE	<0.017		0.0133	<0.017		mg/Kg	☼	NC	50 - 130
4,4'-DDT	<0.016		0.0133	0.0198	J	mg/Kg	☼	NC	46 - 143
Aldrin	<0.023		0.0133	0.0484		mg/Kg	☼	NC	52 - 122
alpha-BHC	<0.019	F2	0.0133	0.0844		mg/Kg	☼	NC	50 - 123
beta-BHC	<0.027	F2	0.0133	0.0566		mg/Kg	☼	NC	44 - 140
delta-BHC	<0.016		0.0133	0.108		mg/Kg	☼	NC	57 - 125
Dieldrin	<0.017		0.0133	<0.018		mg/Kg	☼	NC	51 - 133
Endosulfan I	<0.018		0.0133	<0.018		mg/Kg	☼	NC	30 - 120
Endosulfan II	<0.018		0.0133	<0.018		mg/Kg	☼	NC	30 - 120
Endosulfan sulfate	<0.018		0.0133	<0.019		mg/Kg	☼	NC	42 - 150
Endrin	<0.017		0.0133	<0.017		mg/Kg	☼	NC	43 - 144
Endrin aldehyde	<0.019		0.0133	<0.019		mg/Kg	☼	NC	39 - 131
Endrin ketone	<0.016		0.0133	0.0163	J	mg/Kg	☼	NC	51 - 135
gamma-BHC (Lindane)	<0.017		0.0133	0.0409		mg/Kg	☼	NC	50 - 122
Heptachlor	<0.018		0.0133	0.109		mg/Kg	☼	NC	53 - 129
Heptachlor epoxide	<0.018		0.0133	<0.018		mg/Kg	☼	NC	50 - 139
Methoxychlor	<0.022		0.0133	<0.022		mg/Kg	☼	NC	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*

Lab Sample ID: 500-257022-1 MSD
Matrix: Solid
Analysis Batch: 789205

Client Sample ID: SB103 (0-3)
Prep Type: Total/NA
Prep Batch: 787749

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.018		0.0132	<0.018		mg/Kg	☼	NC	47 - 137	NC	30
4,4'-DDE	<0.017		0.0132	<0.017		mg/Kg	☼	NC	50 - 130	NC	30
4,4'-DDT	<0.016		0.0132	<0.016		mg/Kg	☼	NC	46 - 143	NC	30
Aldrin	<0.023		0.0132	<0.023		mg/Kg	☼	NC	52 - 122	NC	30
alpha-BHC	<0.019	F2	0.0132	0.0573	F2	mg/Kg	☼	NC	50 - 123	38	30
beta-BHC	<0.027	F2	0.0132	0.0372	F2	mg/Kg	☼	NC	44 - 140	41	30
delta-BHC	<0.016		0.0132	0.103		mg/Kg	☼	NC	57 - 125	4	30
Dieldrin	<0.017		0.0132	<0.017		mg/Kg	☼	NC	51 - 133	NC	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-257022-1 MSD
Matrix: Solid
Analysis Batch: 789205

Client Sample ID: SB103 (0-3)
Prep Type: Total/NA
Prep Batch: 787749

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endosulfan I	<0.018		0.0132	<0.018		mg/Kg	☼	NC	30 - 120	NC	30
Endosulfan II	<0.018		0.0132	<0.018		mg/Kg	☼	NC	30 - 120	NC	30
Endosulfan sulfate	<0.018		0.0132	<0.018		mg/Kg	☼	NC	42 - 150	NC	30
Endrin	<0.017		0.0132	<0.017		mg/Kg	☼	NC	43 - 144	NC	30
Endrin aldehyde	<0.019		0.0132	<0.019		mg/Kg	☼	NC	39 - 131	NC	30
Endrin ketone	<0.016		0.0132	<0.016		mg/Kg	☼	NC	51 - 135	NC	30
Heptachlor	<0.018		0.0132	0.121		mg/Kg	☼	NC	53 - 129	10	30
Heptachlor epoxide	<0.018		0.0132	<0.018		mg/Kg	☼	NC	50 - 139	NC	30
Methoxychlor	<0.022		0.0132	<0.022		mg/Kg	☼	NC	45 - 144	NC	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-787749/1-A
Matrix: Solid
Analysis Batch: 789560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/25/24 15:53	10/08/24 18:05	1
PCB-1221	<0.017		0.017		mg/Kg		09/25/24 15:53	10/08/24 18:05	1
PCB-1232	<0.017		0.017		mg/Kg		09/25/24 15:53	10/08/24 18:05	1
PCB-1242	<0.017		0.017		mg/Kg		09/25/24 15:53	10/08/24 18:05	1
PCB-1248	<0.017		0.017		mg/Kg		09/25/24 15:53	10/08/24 18:05	1
PCB-1254	<0.017		0.017		mg/Kg		09/25/24 15:53	10/08/24 18:05	1
PCB-1260	<0.017		0.017		mg/Kg		09/25/24 15:53	10/08/24 18:05	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/25/24 15:53	10/08/24 18:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*49 - 129*	*09/25/24 15:53*	*10/08/24 18:05*	*1*
DCB Decachlorobiphenyl	*108*		*37 - 121*	*09/25/24 15:53*	*10/08/24 18:05*	*1*

Lab Sample ID: LCS 500-787749/3-A
Matrix: Solid
Analysis Batch: 789560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.140		mg/Kg		84	57 - 120
PCB-1260	0.167	0.174		mg/Kg		104	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*79*		*49 - 129*
DCB Decachlorobiphenyl	*110*		*37 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-257022-1 MS
Matrix: Solid
Analysis Batch: 789560

Client Sample ID: SB103 (0-3)
Prep Type: Total/NA
Prep Batch: 787749

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.16		0.169	<0.17		mg/Kg	☼	92	57 - 120
PCB-1260	<0.16		0.169	<0.17		mg/Kg	☼	95	61 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*49 - 129*
DCB Decachlorobiphenyl	*103*		*37 - 121*

Lab Sample ID: 500-257022-1 MSD
Matrix: Solid
Analysis Batch: 789560

Client Sample ID: SB103 (0-3)
Prep Type: Total/NA
Prep Batch: 787749

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.16		0.173	0.178		mg/Kg	☼	103	57 - 120	13	30
PCB-1260	<0.16		0.173	0.183		mg/Kg	☼	106	61 - 125	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*49 - 129*
DCB Decachlorobiphenyl	*110*		*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-788720/1-A
Matrix: Solid
Analysis Batch: 789070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788720

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Antimony	<2.0		2.0		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Arsenic	<1.0		1.0		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Barium	<1.0		1.0		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Beryllium	<0.40		0.40		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Cadmium	<0.20		0.20		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Calcium	<20		20		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Chromium	<1.0		1.0		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Cobalt	<0.50		0.50		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Copper	<1.0		1.0		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Iron	<20		20		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Lead	<0.50		0.50		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Magnesium	<10		10		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Manganese	<1.0		1.0		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Nickel	<1.0		1.0		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Potassium	<50		50		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Selenium	<1.0		1.0		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Silver	<0.50		0.50		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Sodium	<100		100		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Thallium	<1.0		1.0		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Vanadium	<0.50		0.50		mg/Kg		10/02/24 10:12	10/03/24 15:48	1
Zinc	<2.0		2.0		mg/Kg		10/02/24 10:12	10/03/24 15:48	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-788720/2-A
Matrix: Solid
Analysis Batch: 789070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	196		mg/Kg		98	80 - 120
Antimony	50.0	51.1		mg/Kg		102	80 - 120
Arsenic	10.0	9.80		mg/Kg		98	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	5.00		mg/Kg		100	80 - 120
Cadmium	5.00	4.92		mg/Kg		98	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Chromium	20.0	20.5		mg/Kg		103	80 - 120
Cobalt	50.0	46.3		mg/Kg		93	80 - 120
Copper	25.0	26.2		mg/Kg		105	80 - 120
Iron	100	104		mg/Kg		104	80 - 120
Lead	10.0	10.4		mg/Kg		104	80 - 120
Magnesium	1000	965		mg/Kg		96	80 - 120
Manganese	50.0	50.6		mg/Kg		101	80 - 120
Nickel	50.0	50.9		mg/Kg		102	80 - 120
Potassium	1000	968		mg/Kg		97	80 - 120
Selenium	10.0	9.26		mg/Kg		93	80 - 120
Silver	5.00	4.64		mg/Kg		93	80 - 120
Sodium	1000	989		mg/Kg		99	80 - 120
Thallium	10.0	9.63		mg/Kg		96	80 - 120
Vanadium	50.0	51.6		mg/Kg		103	80 - 120
Zinc	50.0	50.9		mg/Kg		102	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-788759/12-A
Matrix: Solid
Analysis Batch: 788937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		10/02/24 17:55	10/03/24 09:42	1

Lab Sample ID: LCS 500-788759/13-A
Matrix: Solid
Analysis Batch: 788937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.179		mg/Kg		108	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-787924/1-A
Matrix: Solid
Analysis Batch: 788122

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/26/24 14:50	09/27/24 11:12	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 500-787924/2-A
Matrix: Solid
Analysis Batch: 788122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.34		mg/Kg		98	85 - 115

Lab Sample ID: 500-257022-6 MS
Matrix: Solid
Analysis Batch: 788122

Client Sample ID: SB106 (0-3)
Prep Type: Total/NA
Prep Batch: 787924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	7.5	F1	2.35	8.93	F1	mg/Kg	☼	61	75 - 125

Lab Sample ID: 500-257022-6 MSD
Matrix: Solid
Analysis Batch: 788122

Client Sample ID: SB106 (0-3)
Prep Type: Total/NA
Prep Batch: 787924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	7.5	F1	2.48	8.62	F1	mg/Kg	☼	45	75 - 125	4	20

Lab Sample ID: MB 500-788339/1-A
Matrix: Solid
Analysis Batch: 788444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/30/24 12:42	09/30/24 15:00	1

Lab Sample ID: LCS 500-788339/2-A
Matrix: Solid
Analysis Batch: 788444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.25		mg/Kg		94	85 - 115

Lab Sample ID: 500-257022-8 MS
Matrix: Solid
Analysis Batch: 788444

Client Sample ID: SB107 (7.5-10)
Prep Type: Total/NA
Prep Batch: 788339

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	45		2.99	42.6	4	mg/Kg	☼	-70	75 - 125

Lab Sample ID: 500-257022-8 MSD
Matrix: Solid
Analysis Batch: 788444

Client Sample ID: SB107 (7.5-10)
Prep Type: Total/NA
Prep Batch: 788339

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	45		2.95	34.7	4	mg/Kg	☼	-337	75 - 125	20	20

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-628030/1-A
Matrix: Solid
Analysis Batch: 628058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/23/24 10:33	09/23/24 11:24	1

Lab Sample ID: LCS 240-628030/2-A
Matrix: Solid
Analysis Batch: 628058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628030

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			80.3	60.2		mg/Kg		75	56 - 120		

Client Sample ID: SB103 (0-3)
Lab Sample ID: 500-257022-1
Date Collected: 09/18/24 08:53
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787837	ST	EET CHI	09/25/24 18:13
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Client Sample ID: SB103 (0-3)
Lab Sample ID: 500-257022-1
Date Collected: 09/18/24 08:53
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786959		EET CHI	09/19/24 17:20
Total/NA	Analysis	8260D		1	787235	W1T	EET CHI	09/23/24 14:53
Total/NA	Prep	3546			788133	LH	EET CHI	09/27/24 16:07
Total/NA	Analysis	8270E		2	788249	H7CM	EET CHI	09/30/24 16:26
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8081B		20	789205	GLR	EET CHI	10/05/24 15:29
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8082A		10	789560	H7CM	EET CHI	10/08/24 18:35
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/03/24 21:58
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 05:52
Total/NA	Prep	7471B			788759	MJG	EET CHI	10/02/24 17:55
Total/NA	Analysis	7471B		1	788937	MJG	EET CHI	10/03/24 10:17
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		1	788122	AC	EET CHI	09/27/24 12:12

Client Sample ID: SB103 (5-7.5)
Lab Sample ID: 500-257022-2
Date Collected: 09/18/24 09:10
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787837	ST	EET CHI	09/25/24 18:16
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Client Sample ID: SB103 (5-7.5)
Lab Sample ID: 500-257022-2
Date Collected: 09/18/24 09:10
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786959		EET CHI	09/19/24 17:20
Total/NA	Analysis	8260D		1	787235	W1T	EET CHI	09/23/24 15:17
Total/NA	Prep	3546			788133	LH	EET CHI	09/27/24 16:07
Total/NA	Analysis	8270E		1	788249	H7CM	EET CHI	09/30/24 16:51
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8081B		10	789205	GLR	EET CHI	10/05/24 16:04

Client Sample ID: SB103 (5-7.5)
Lab Sample ID: 500-257022-2
Date Collected: 09/18/24 09:10
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8082A		10	789560	H7CM	EET CHI	10/08/24 19:19
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/03/24 22:03
Total/NA	Prep	7471B			788759	MJG	EET CHI	10/02/24 17:55
Total/NA	Analysis	7471B		1	788937	MJG	EET CHI	10/03/24 10:19
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		1	788122	AC	EET CHI	09/27/24 12:14

Client Sample ID: SB104 (0-3)
Lab Sample ID: 500-257022-3
Date Collected: 09/18/24 10:37
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787837	ST	EET CHI	09/25/24 18:18
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Client Sample ID: SB104 (0-3)
Lab Sample ID: 500-257022-3
Date Collected: 09/18/24 10:37
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786959		EET CHI	09/19/24 17:20
Total/NA	Analysis	8260D		1	787235	W1T	EET CHI	09/23/24 15:41
Total/NA	Prep	3546			788133	LH	EET CHI	09/27/24 16:07
Total/NA	Analysis	8270E		1	788249	H7CM	EET CHI	09/30/24 17:15
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8081B		10	789205	GLR	EET CHI	10/05/24 16:15
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8082A		10	789560	H7CM	EET CHI	10/08/24 19:34
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/03/24 22:07
Total/NA	Prep	7471B			788759	MJG	EET CHI	10/02/24 17:55
Total/NA	Analysis	7471B		1	788937	MJG	EET CHI	10/03/24 10:21
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		1	788122	AC	EET CHI	09/27/24 12:19

Client Sample ID: SB105 (0-3)
Lab Sample ID: 500-257022-4
Date Collected: 09/18/24 12:05
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787837	ST	EET CHI	09/25/24 18:21
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Client Sample ID: SB105 (0-3)

Lab Sample ID: 500-257022-4

Date Collected: 09/18/24 12:05

Matrix: Solid

Date Received: 09/19/24 11:55

Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786959		EET CHI	09/19/24 17:20
Total/NA	Analysis	8260D		1	787413	SW1	EET CHI	09/24/24 11:31
Total/NA	Prep	3546			788133	LH	EET CHI	09/27/24 16:07
Total/NA	Analysis	8270E		2	788249	H7CM	EET CHI	09/30/24 17:41
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8081B		20	789205	GLR	EET CHI	10/05/24 16:27
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8082A		10	789560	H7CM	EET CHI	10/08/24 19:49
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/03/24 22:12
Total/NA	Prep	7471B			788759	MJG	EET CHI	10/02/24 17:55
Total/NA	Analysis	7471B		1	788937	MJG	EET CHI	10/03/24 10:23
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		10	788122	AC	EET CHI	09/27/24 13:38

Client Sample ID: SB105 (10-12.5)

Lab Sample ID: 500-257022-5

Date Collected: 09/18/24 12:28

Matrix: Solid

Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787837	ST	EET CHI	09/25/24 18:23
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Client Sample ID: SB105 (10-12.5)

Lab Sample ID: 500-257022-5

Date Collected: 09/18/24 12:28

Matrix: Solid

Date Received: 09/19/24 11:55

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786959		EET CHI	09/19/24 17:20
Total/NA	Analysis	8260D		1	787235	W1T	EET CHI	09/23/24 16:29
Total/NA	Prep	3546			788133	LH	EET CHI	09/27/24 16:07
Total/NA	Analysis	8270E		1	788249	H7CM	EET CHI	09/30/24 18:05
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8081B		10	789205	GLR	EET CHI	10/05/24 16:39
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8082A		10	789560	H7CM	EET CHI	10/08/24 20:04
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/03/24 22:16
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 05:56
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		50	789436	SJ	EET CHI	10/07/24 12:39
Total/NA	Prep	7471B			788759	MJG	EET CHI	10/02/24 17:55
Total/NA	Analysis	7471B		1	788937	MJG	EET CHI	10/03/24 10:24

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB105 (10-12.5)
Lab Sample ID: 500-257022-5
Date Collected: 09/18/24 12:28
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		10	788122	AC	EET CHI	09/27/24 13:43

Client Sample ID: SB106 (0-3)
Lab Sample ID: 500-257022-6
Date Collected: 09/18/24 13:37
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787837	ST	EET CHI	09/25/24 18:26
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Client Sample ID: SB106 (0-3)
Lab Sample ID: 500-257022-6
Date Collected: 09/18/24 13:37
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786959		EET CHI	09/19/24 17:20
Total/NA	Analysis	8260D		1	787413	SW1	EET CHI	09/24/24 11:56
Total/NA	Prep	3546			788133	LH	EET CHI	09/27/24 16:07
Total/NA	Analysis	8270E		2	788249	H7CM	EET CHI	09/30/24 18:30
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8081B		10	789205	GLR	EET CHI	10/05/24 16:50
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8082A		10	789560	H7CM	EET CHI	10/08/24 20:19
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/03/24 22:21
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 06:01
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		50	789436	SJ	EET CHI	10/07/24 12:44
Total/NA	Prep	7471B			788759	MJG	EET CHI	10/02/24 17:55
Total/NA	Analysis	7471B		1	788937	MJG	EET CHI	10/03/24 10:34
Total/NA	Prep	9010C			787924	AC	EET CHI	09/26/24 14:50 - 09/26/24 15:20 [1]
Total/NA	Analysis	9012B		10	788122	AC	EET CHI	09/27/24 13:47
Total/NA	Prep	9030B			628030	BLW	EET CLE	09/23/24 10:33
Total/NA	Analysis	9034		1	628058	BLW	EET CLE	09/23/24 11:24

Client Sample ID: SB107 (0-3)
Lab Sample ID: 500-257022-7
Date Collected: 09/18/24 14:39
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787837	ST	EET CHI	09/25/24 18:28
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257022-1

Client Sample ID: SB107 (0-3)

Date Collected: 09/18/24 14:39
Date Received: 09/19/24 11:55

Lab Sample ID: 500-257022-7

Matrix: Solid
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786959		EET CHI	09/19/24 17:20
Total/NA	Analysis	8260D		1	787235	W1T	EET CHI	09/23/24 17:17
Total/NA	Prep	3546			788133	LH	EET CHI	09/27/24 16:07
Total/NA	Analysis	8270E		1	788249	H7CM	EET CHI	09/30/24 18:55
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8081B		10	789205	GLR	EET CHI	10/05/24 17:02
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8082A		10	789560	H7CM	EET CHI	10/08/24 20:34
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/03/24 22:34
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 06:05
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		50	789436	SJ	EET CHI	10/07/24 12:48
Total/NA	Prep	7471B			788759	MJG	EET CHI	10/02/24 17:55
Total/NA	Analysis	7471B		1	788937	MJG	EET CHI	10/03/24 10:35
Total/NA	Prep	9010C			788339	AC	EET CHI	09/30/24 12:42 - 09/30/24 13:12 [1]
Total/NA	Analysis	9012B		10	788444	AC	EET CHI	09/30/24 16:37

Client Sample ID: SB107 (7.5-10)

Date Collected: 09/18/24 14:58
Date Received: 09/19/24 11:55

Lab Sample ID: 500-257022-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	787837	ST	EET CHI	09/25/24 18:31
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Client Sample ID: SB107 (7.5-10)

Date Collected: 09/18/24 14:58
Date Received: 09/19/24 11:55

Lab Sample ID: 500-257022-8

Matrix: Solid
Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			786959		EET CHI	09/19/24 17:20
Total/NA	Analysis	8260D		1	787235	W1T	EET CHI	09/23/24 17:40
Total/NA	Prep	3546			788133	LH	EET CHI	09/27/24 16:07
Total/NA	Analysis	8270E		1	788249	H7CM	EET CHI	09/30/24 19:19
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8081B		10	789205	GLR	EET CHI	10/05/24 17:14
Total/NA	Prep	3541			787749	SV	EET CHI	09/25/24 15:53 - 09/25/24 21:43 [1]
Total/NA	Analysis	8082A		10	789560	H7CM	EET CHI	10/08/24 20:49
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		1	789070	SJ	EET CHI	10/03/24 22:39
Total/NA	Prep	3050B			788720	BDE	EET CHI	10/02/24 10:12 - 10/02/24 16:12 [1]
Total/NA	Analysis	6010D		5	789332	SJ	EET CHI	10/05/24 06:10

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB107 (7.5-10)
Lab Sample ID: 500-257022-8
Date Collected: 09/18/24 14:58
Matrix: Solid
Date Received: 09/19/24 11:55
Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			788759	MJG	EET CHI	10/02/24 17:55
Total/NA	Analysis	7471B		1	788937	MJG	EET CHI	10/03/24 10:37
Total/NA	Prep	9010C			788339	AC	EET CHI	09/30/24 12:42 - 09/30/24 13:12 [1]
Total/NA	Analysis	9012B		50	788444	AC	EET CHI	09/30/24 16:42

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200
EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	10-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record

670141 eurofins | Environment Testing America

Address _____

Regulatory Program: ☑ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARTSOCK	Site Contact:	Date:	COC No 1 of 1 COCs
Company Name PIONEER	Tel/Email: JHARTSOCK@PIONEER-TECH.COM	Lab Contact:	Carrier:	Sampler:
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below			Lab Sampling
Fax	☒ 2 weeks			
Project Name 8080 S LAKE SHORE	☐ 1 week			Job / SDG No 500-257022
Site	☐ 2 days			
PO# 24-0124-103	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL	PH	SULFIDE
1 SB103 (0-3)	9/18/24	853	G	SO	4			X	X	
2 SB103 (5-7.5)		910								
3 SB104 (0-3)		1037								
4 SB105 (0-3)		1205								
5 SB105 (10-12.5)		1228								
6 SB106 (0-3)		137								X
7 SB107 (0-3)		239								
8 SB107 (2.5-10)		238								

500-257022 COC

Sample Specific Notes

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 2.0 Corr'd 2.2 4DG Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	PIONEER	9/19/24		EETA	9/19/24 0930
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	EETA 9/19/24	1155			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				EETA	9/19/24 1155

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192863.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-257022-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/2/2024	Analysis Requested		Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:						E012
SB106 (0-3) (500-257022-6)	9/18/24	13:37 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/19/24 1605		KATHARINE MARTIN	9/20/24 930	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client Eurofins Site Name _____ Cooler unpacked by: KM

Cooler Received on 9/20/24 Opened on 9/20/24

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used. (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 22 (CF -0.1 °C) Observed Cooler Temp 1.3 °C Corrected Cooler Temp. 1.2 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/(N)), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC442471
14 Were VOAs on the COC?	Yes	(No)
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
17 Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

_____

_____

_____

_____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

ORIGIN ID: JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE: 19SEP2[illegible]
ACTWGT: 19.00 LB MAN
CAD# 0675858/CAFE3[illegible]

BILL SENDER

TO SAMPLE RECEIVING
EUROFINS – CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-[illegible]
REF: 25[illegible] 257022 SS

FedEx Express

E

1 of 2

TRK# 0201 7051 7620 9538

MASTER

FRI – 20 SEP 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
OH – US CLE

urofins | Environment Testing TestAmerica

2546274

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193739.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-257022-2
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/17/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M (MOD) a) 1 element, including prep	Total Number of containers	Special Instructions/Note: E054
			Preservation Code:						
SB106 (0-3) (500-257022-6)	9/18/24	13:37 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hernandez	10/11/24 1600		KATHARINE MARTIN	10/12/24 920	EUR

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler unpacked by: ICM

Cooler Received on 10/12/24 Opened on 10/12/24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☒ See Multiple Cooler Form

IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y(N), # of containers (Y)N), and sample type of grab/comp (Y)N)?		
10. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen.

Login # : _____

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: _____	2.7	3.0	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	4.9	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

Temperature Controlled
IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)
TAL-0090(1016)
ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES, US
SHIP DATE: 11OCT24
ACTWGT 67.00 LB MAN
CAD: 0675858/CAFE3854
BILL SENDER
TO SAMPLE RECEIVING
EUROFINS - CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203
(330) 497-9396
REF: 256339 423 608 678 719 930 SH
FedEx Express
3 of 4
MPS# 7051 7621 1608
0263
Mstr# 7051 7621 1182
0201
XO CAKA
SATURDAY 12:00P
PRIORITY OVERNIGHT
44203
OH-US
CLE
Environment Testing
America
2546494

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-257022-1

Login Number: 257022
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 11:29:29 AM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-257105-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 11:29:29 AM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-257105-1 — Eurofins Chicago

Job Narrative
500-257105-1

Revision
The report being provided is a revision of the original report sent on 10/15/2024. The report (revision 2) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 12/11/2024 - Reason - The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/20/2024 12:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
Method 8260D: The method blank for analytical batch 500-787413 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: Internal standard /surrogate responses were outside of acceptance limits for the following samples: SB109 (0-3) (500-257105-2), SB109 (5-7.5) (500-257105-3), SB110 (0-3) (500-257105-4) and SB110 (5-7.5) (500-257105-5). The sample(s) shows evidence of matrix interference, as sample was analyzed multiple times with concurring failures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-788484 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 500-788484 recovered above the upper control limit for 2-Nitroaniline, bis(chloroisopropyl) ether and N-Nitrosodi-n-propylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB110 (5-7.5) (500-257105-5), SB111 (0-3) (500-257105-6), SB111 (3-5) (500-257105-7) and SB112 (0-3) (500-257105-8). Elevated reporting limits (RLs) are provided.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB108 (0-3) (500-257105-1) and SB109 (0-3) (500-257105-2). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB108 (0-3) (500-257105-1), SB109 (0-3) (500-257105-2), SB109 (5-7.5) (500-257105-3), SB110 (0-3) (500-257105-4), SB110 (5-7.5) (500-257105-5), SB111 (0-3) (500-257105-6), SB111 (3-5) (500-257105-7) and SB112 (0-3) (500-257105-8). Elevated reporting limits (RLs) are provided.

Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB108 (0-3) (500-257105-1), SB109 (5-7.5) (500-257105-3) and SB110 (5-7.5) (500-257105-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB110 (5-7.5) (500-257105-5). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1260 for the following sample: SB111 (3-5) (500-257105-7). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Job ID: 500-257105-1 (Continued) Eurofins Chicago

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: SB109 (0-3) (500-257105-2) and SB110 (0-3) (500-257105-4). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: (MB 500-787965/1-A). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010D: The method blank for prep batch 788990 contained Mn above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB108 (0-3)
Lab Sample ID: 500-257105-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.010		0.0047	0.0021	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.051		0.019	0.0080	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.00077	J	0.0019	0.00060	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0023	J	0.0047	0.00087	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00091	J	0.0019	0.00038	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.00068	J	0.0038	0.00065	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.067		0.035	0.0071	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.15		0.035	0.0059	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.18		0.035	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.69		0.035	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.79		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.5		0.035	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.1		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.44		0.035	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.66		0.035	0.0092	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.29		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	1.3		0.035	0.0081	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.030	J	0.035	0.010	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.94		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.095		0.035	0.0063	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.61		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Pyrene	1.3		0.035	0.0095	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.058	J	0.071	0.0070	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.071	J	0.18	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.080	J	0.18	0.012	mg/Kg	1	☼	8270E	Total/NA
Aluminum	8000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	10	F1 F2	4.9		mg/Kg	5	☼	6010D	Total/NA
Barium	120		4.9		mg/Kg	5	☼	6010D	Total/NA
Calcium	190000		98		mg/Kg	5	☼	6010D	Total/NA
Chromium	830		4.9		mg/Kg	5	☼	6010D	Total/NA
Cobalt	4.4		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	29	F1	4.9		mg/Kg	5	☼	6010D	Total/NA
Iron	160000		98		mg/Kg	5	☼	6010D	Total/NA
Lead	97	F2	2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	27000		9.8		mg/Kg	1	☼	6010D	Total/NA
Manganese	38000	B	20		mg/Kg	20	☼	6010D	Total/NA
Nickel	14		4.9		mg/Kg	5	☼	6010D	Total/NA
Potassium	360		49		mg/Kg	1	☼	6010D	Total/NA
Selenium	16	F1	4.9		mg/Kg	5	☼	6010D	Total/NA
Sodium	240		98		mg/Kg	1	☼	6010D	Total/NA
Thallium	250		20		mg/Kg	20	☼	6010D	Total/NA
Vanadium	430		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	130	F1 F2	2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.021		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	2.4		0.25		mg/Kg	1	☼	9012B	Total/NA
pH	10.65		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB109 (0-3)
Lab Sample ID: 500-257105-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.018	J	0.023	0.0095	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB109 (0-3) (Continued)
Lab Sample ID: 500-257105-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0080		0.0057	0.0010	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00086	J	0.0023	0.00046	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.00083	J	0.0045	0.00078	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.0073	J	0.035	0.0060	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.015	J	0.035	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.063		0.035	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.056		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.11		0.035	0.034	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.055		0.035	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.045		0.035	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.083		0.035	0.0094	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.089		0.035	0.0083	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.045		0.035	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.041		0.035	0.0064	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.12		0.035	0.0078	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.092		0.035	0.0097	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.057	J	0.072	0.0072	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.019	J	0.18	0.013	mg/Kg	1	☼	8270E	Total/NA
PCB-1248	0.81		0.18		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.81		0.18		mg/Kg	10	☼	8082A	Total/NA
Aluminum	18000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	14		5.3		mg/Kg	5	☼	6010D	Total/NA
Barium	330		5.3		mg/Kg	5	☼	6010D	Total/NA
Beryllium	4.2		2.1		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.4		1.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	200000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	1200		21		mg/Kg	20	☼	6010D	Total/NA
Cobalt	7.0		0.53		mg/Kg	1	☼	6010D	Total/NA
Copper	84		5.3		mg/Kg	5	☼	6010D	Total/NA
Iron	120000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	130		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	15000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	16000	B	5.3		mg/Kg	5	☼	6010D	Total/NA
Nickel	100		5.3		mg/Kg	5	☼	6010D	Total/NA
Potassium	1200		53		mg/Kg	1	☼	6010D	Total/NA
Selenium	7.9		5.3		mg/Kg	5	☼	6010D	Total/NA
Silver	4.4		2.6		mg/Kg	5	☼	6010D	Total/NA
Sodium	600		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	120		5.3		mg/Kg	5	☼	6010D	Total/NA
Vanadium	340		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	250		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.062		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	20		2.6		mg/Kg	10	☼	9012B	Total/NA
pH	10.26		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB109 (5-7.5)
Lab Sample ID: 500-257105-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0078		0.0068	0.0012	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0032		0.0027	0.00055	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0024	J	0.0054	0.00093	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB109 (5-7.5) (Continued)
Lab Sample ID: 500-257105-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.024	J	0.040	0.0082	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.041		0.040	0.0068	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.019	J	0.040	0.0082	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.049		0.040	0.0085	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.052		0.040	0.038	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.016	J	0.040	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.069		0.040	0.011	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.099		0.040	0.0093	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.015	J	0.040	0.012	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.20		0.040	0.0073	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.49		0.040	0.0087	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.091		0.040	0.011	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.22		0.081	0.0081	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.055	J	0.20	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	8600		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	9.4		5.4		mg/Kg	5	☼	6010D	Total/NA
Barium	130		5.4		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.1		2.1		mg/Kg	5	☼	6010D	Total/NA
Calcium	21000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	28		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	9.0		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	26		5.4		mg/Kg	5	☼	6010D	Total/NA
Iron	100000		110		mg/Kg	5	☼	6010D	Total/NA
Lead	19		2.7		mg/Kg	5	☼	6010D	Total/NA
Magnesium	1900		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	10000	B	5.4		mg/Kg	5	☼	6010D	Total/NA
Nickel	25		5.4		mg/Kg	5	☼	6010D	Total/NA
Potassium	1000		54		mg/Kg	1	☼	6010D	Total/NA
Sodium	710		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	44		5.4		mg/Kg	5	☼	6010D	Total/NA
Vanadium	110		2.7		mg/Kg	5	☼	6010D	Total/NA
Zinc	140		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.020		0.019		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.80		0.29		mg/Kg	1	☼	9012B	Total/NA
pH	7.69		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB110 (0-3)
Lab Sample ID: 500-257105-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0048		0.0043	0.0019	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.014	J	0.017	0.0072	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.00080	J	0.0017	0.00054	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0028	J	0.0043	0.00079	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0020		0.0017	0.00034	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0013	J	0.0034	0.00058	mg/Kg	1	☼	8260D	Total/NA
Acenaphthylene	0.0072	J	0.034	0.0059	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.014	J	0.034	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.076		0.034	0.0073	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.078		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.14		0.034	0.033	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.094		0.034	0.0075	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB110 (0-3) (Continued)
Lab Sample ID: 500-257105-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.058		0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.11		0.034	0.0091	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.13		0.034	0.0080	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.079		0.034	0.034	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.012	J	0.034	0.0063	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.085		0.034	0.0075	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.14		0.034	0.0095	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.016	J	0.070	0.0069	mg/Kg	1	☼	8270E	Total/NA
Butyl benzyl phthalate	0.045	J	0.17	0.017	mg/Kg	1	☼	8270E	Total/NA
4,4'-DDE	0.0092	J	0.018	0.0091	mg/Kg	10	☼	8081B	Total/NA
PCB-1254	0.60		0.18		mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.60		0.18		mg/Kg	10	☼	8082A	Total/NA
Aluminum	4200		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	11		5.2		mg/Kg	5	☼	6010D	Total/NA
Barium	51		5.2		mg/Kg	5	☼	6010D	Total/NA
Cadmium	1.0		1.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	230000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	1900		21		mg/Kg	20	☼	6010D	Total/NA
Cobalt	5.8		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	150		5.2		mg/Kg	5	☼	6010D	Total/NA
Iron	130000		100		mg/Kg	5	☼	6010D	Total/NA
Lead	39		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	23000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	18000	B	5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	63		5.2		mg/Kg	5	☼	6010D	Total/NA
Potassium	150		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	9.3		5.2		mg/Kg	5	☼	6010D	Total/NA
Silver	2.9		2.6		mg/Kg	5	☼	6010D	Total/NA
Sodium	200		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	93		21		mg/Kg	20	☼	6010D	Total/NA
Vanadium	480		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	170		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.056		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.60		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	8.85		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB110 (5-7.5)
Lab Sample ID: 500-257105-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0028	J	0.0050	0.00092	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0013	J	0.0020	0.00040	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.00077	J	0.0040	0.00068	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.033	J	0.10	0.021	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.060	J	0.10	0.021	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.076	J	0.10	0.022	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.054	J	0.10	0.028	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.090	J	0.10	0.024	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.042	J	0.10	0.031	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.67		0.10	0.023	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.097	J	0.10	0.029	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.10	J	0.21	0.021	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB110 (5-7.5) (Continued)
Lab Sample ID: 500-257105-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	0.040	J	0.53	0.037	mg/Kg	2	☼	8270E	Total/NA
Aluminum	2600		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	2.0		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	9.5		1.0		mg/Kg	1	☼	6010D	Total/NA
Calcium	17000		21		mg/Kg	1	☼	6010D	Total/NA
Chromium	36		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	1.4		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	15		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	28000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	4.4		0.52		mg/Kg	1	☼	6010D	Total/NA
Magnesium	5600		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	7100	B	5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	6.0		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	180		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.6		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	150		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	47		5.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	44		0.52		mg/Kg	1	☼	6010D	Total/NA
Zinc	7.1		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.024		0.017		mg/Kg	1	☼	7471B	Total/NA
pH	8.12		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB111 (0-3)
Lab Sample ID: 500-257105-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.031	J	0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.019	J	0.069	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.14		0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.45		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.43		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.70		0.069	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.30		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.20		0.069	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.48		0.069	0.018	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.083		0.069	0.069	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.82		0.069	0.016	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.029	J	0.069	0.020	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.31		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.54		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.72		0.069	0.019	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.063	J	0.35	0.027	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.049	J	0.35	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	6200		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	90		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.75		0.42		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.43		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	130000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	23		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.1		0.52		mg/Kg	1	☼	6010D	Total/NA
Copper	18		1.0		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB111 (0-3) (Continued)
Lab Sample ID: 500-257105-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	13000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	49		0.52		mg/Kg	1	☼	6010D	Total/NA
Magnesium	35000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	820	B	1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	13		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	990		52		mg/Kg	1	☼	6010D	Total/NA
Sodium	210		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	3.9		1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	14		0.52		mg/Kg	1	☼	6010D	Total/NA
Zinc	170		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.069		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.60		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	7.99		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB111 (3-5)
Lab Sample ID: 500-257105-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.015	J	0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.021	J	0.069	0.012	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.065	J	0.069	0.014	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.30		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.33		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.49		0.069	0.066	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.23		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.13		0.069	0.026	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.31		0.069	0.018	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.47		0.069	0.016	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.20		0.069	0.067	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.017	J	0.069	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.19		0.069	0.015	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.45		0.069	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.020	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
PCB-1260	0.020		0.017		mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.020		0.017		mg/Kg	1	☼	8082A	Total/NA
Aluminum	9000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.8		0.99		mg/Kg	1	☼	6010D	Total/NA
Barium	110		0.99		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.2		0.39		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.48		0.20		mg/Kg	1	☼	6010D	Total/NA
Calcium	140000		99		mg/Kg	5	☼	6010D	Total/NA
Chromium	32		0.99		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.5		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	20		0.99		mg/Kg	1	☼	6010D	Total/NA
Iron	15000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	53		0.49		mg/Kg	1	☼	6010D	Total/NA
Magnesium	27000		9.9		mg/Kg	1	☼	6010D	Total/NA
Manganese	1600	B	0.99		mg/Kg	1	☼	6010D	Total/NA
Nickel	18		0.99		mg/Kg	1	☼	6010D	Total/NA
Potassium	1200		49		mg/Kg	1	☼	6010D	Total/NA
Sodium	280		99		mg/Kg	1	☼	6010D	Total/NA
Thallium	7.7		0.99		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB111 (3-5) (Continued)
Lab Sample ID: 500-257105-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	23		0.49		mg/Kg	1	☼	6010D	Total/NA
Zinc	180		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.12		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.6		0.24		mg/Kg	1	☼	9012B	Total/NA
pH	8.15		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB112 (0-3)
Lab Sample ID: 500-257105-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.069	J	0.085	0.018	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.088		0.085	0.082	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.13		0.085	0.081	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.067	J	0.085	0.018	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.048	J	0.085	0.032	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.090		0.085	0.022	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.12		0.085	0.020	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.039	J	0.085	0.019	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.10		0.085	0.023	mg/Kg	2	☼	8270E	Total/NA
Aluminum	14000		26		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.2		1.3		mg/Kg	1	☼	6010D	Total/NA
Barium	100		1.3		mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.72		0.53		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.28		0.26		mg/Kg	1	☼	6010D	Total/NA
Calcium	15000		26		mg/Kg	1	☼	6010D	Total/NA
Chromium	20		1.3		mg/Kg	1	☼	6010D	Total/NA
Cobalt	11		0.66		mg/Kg	1	☼	6010D	Total/NA
Copper	25		1.3		mg/Kg	1	☼	6010D	Total/NA
Iron	21000		26		mg/Kg	1	☼	6010D	Total/NA
Lead	38		0.66		mg/Kg	1	☼	6010D	Total/NA
Magnesium	8700		13		mg/Kg	1	☼	6010D	Total/NA
Manganese	440	B	1.3		mg/Kg	1	☼	6010D	Total/NA
Nickel	28		1.3		mg/Kg	1	☼	6010D	Total/NA
Potassium	2400		66		mg/Kg	1	☼	6010D	Total/NA
Thallium	2.4		1.3		mg/Kg	1	☼	6010D	Total/NA
Vanadium	27		0.66		mg/Kg	1	☼	6010D	Total/NA
Zinc	93		2.6		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.047		0.020		mg/Kg	1	☼	7471B	Total/NA
pH	7.29		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-257105-1	SB108 (0-3)	Solid	09/19/24 09:47	09/20/24 12:45
500-257105-2	SB109 (0-3)	Solid	09/19/24 10:29	09/20/24 12:45
500-257105-3	SB109 (5-7.5)	Solid	09/19/24 10:51	09/20/24 12:45
500-257105-4	SB110 (0-3)	Solid	09/19/24 12:04	09/20/24 12:45
500-257105-5	SB110 (5-7.5)	Solid	09/19/24 12:25	09/20/24 12:45
500-257105-6	SB111 (0-3)	Solid	09/19/24 13:27	09/20/24 12:45
500-257105-7	SB111 (3-5)	Solid	09/19/24 13:34	09/20/24 12:45
500-257105-8	SB112 (0-3)	Solid	09/19/24 14:42	09/20/24 12:45

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB108 (0-3)
Lab Sample ID: 500-257105-1
Date Collected: 09/19/24 09:47
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 92.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00077		0.0019	0.00077	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
1,1,2,2-Tetrachloroethane	<0.00094		0.0019	0.00094	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
1,1,2-Trichloroethane	<0.00071		0.0019	0.00071	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
1,1-Dichloroethane	<0.00071		0.0019	0.00071	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
1,1-Dichloroethene	<0.00078		0.0019	0.00078	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
1,2-Dichloroethane	<0.0012		0.0047	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
2-Butanone (MEK)	**0.010**		0.0047	0.0021	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
2-Hexanone	<0.0029		0.0047	0.0029	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0047	0.0034	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Acetone	**0.051**		0.019	0.0080	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Benzene	**0.00077**	**J**	0.0019	0.00060	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Bromodichloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Bromoform	<0.0011		0.0019	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Bromomethane	<0.0023		0.0047	0.0023	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Carbon disulfide	**0.0023**	**J**	0.0047	0.00087	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Carbon tetrachloride	<0.00065		0.0019	0.00065	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Chlorobenzene	<0.00080		0.0019	0.00080	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Chloroethane	<0.0016		0.0047	0.0016	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Chloroform	<0.0014		0.0019	0.0014	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Chloromethane	<0.00092		0.0047	0.00092	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
cis-1,2-Dichloroethene	<0.00076		0.0019	0.00076	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
1,3-Dichloropropene, Total	<0.00091		0.0019	0.00091	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Dibromochloromethane	<0.00088		0.0019	0.00088	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Ethylbenzene	<0.0010		0.0019	0.0010	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Methyl tert-butyl ether	<0.00061		0.0019	0.00061	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Methylene Chloride	<0.0020		0.0047	0.0020	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Styrene	<0.00085		0.0019	0.00085	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Tetrachloroethene	<0.0011		0.0019	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Toluene	**0.00091**	**J**	0.0019	0.00038	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Xylenes, Total	**0.00068**	**J**	0.0038	0.00065	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
trans-1,2-Dichloroethene	<0.00072		0.0019	0.00072	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Trichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1
Vinyl chloride	<0.00077		0.0019	0.00077	mg/Kg	☼	09/20/24 18:05	09/24/24 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*09/20/24 18:05*	*09/24/24 12:20*	*1*
4-Bromofluorobenzene (Surr)	*117*		*75 - 131*	*09/20/24 18:05*	*09/24/24 12:20*	*1*
Dibromofluoromethane	*79*		*75 - 126*	*09/20/24 18:05*	*09/24/24 12:20*	*1*
Toluene-d8 (Surr)	*114*		*75 - 124*	*09/20/24 18:05*	*09/24/24 12:20*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.067**		0.035	0.0071	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Acenaphthylene	**0.15**		0.035	0.0059	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Anthracene	**0.18**		0.035	0.0071	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Benzo[a]anthracene	**0.69**		0.035	0.0074	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Benzo[a]pyrene	**0.79**		0.035	0.034	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Benzo[b]fluoranthene	**1.5**		0.035	0.033	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Benzo[g,h,i]perylene	**1.1**		0.035	0.0076	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1

Client Sample ID: SB108 (0-3)
Lab Sample ID: 500-257105-1
Date Collected: 09/19/24 09:47
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 92.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.44**		0.035	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Chrysene	**0.66**		0.035	0.0092	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Dibenz(a,h)anthracene	**0.29**		0.035	0.035	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Fluoranthene	**1.3**		0.035	0.0081	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Fluorene	**0.030**	**J**	0.035	0.010	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Indeno[1,2,3-cd]pyrene	**0.94**		0.035	0.034	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Naphthalene	**0.095**		0.035	0.0063	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Phenanthrene	**0.61**		0.035	0.0076	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Pyrene	**1.3**		0.035	0.0095	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2,4-Dichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2,4-Dimethylphenol	<0.078		0.35	0.078	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2,4-Dinitrophenol	<0.20		0.71	0.20	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2-Methylnaphthalene	**0.058**	**J**	0.071	0.0070	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2-Methylphenol	<0.018		0.18	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
4,6-Dinitro-2-methylphenol	<0.20		0.71	0.20	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
4-Chloroaniline	<0.37		0.71	0.37	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
4-Chlorophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
4-Nitrophenol	<0.13		0.71	0.13	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
bis(chloroisopropyl) ether	<0.025		0.18	0.025	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Butyl benzyl phthalate	<0.017		0.18	0.017	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Carbazole	**0.071**	**J**	0.18	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Dibenzofuran	**0.080**	**J**	0.18	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Dimethyl phthalate	<0.0076		0.18	0.0076	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Di-n-octyl phthalate	<0.24		0.35	0.24	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Hexachlorobenzene	<0.0067		0.071	0.0067	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1

Client Sample ID: SB108 (0-3)
Lab Sample ID: 500-257105-1
Date Collected: 09/19/24 09:47
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 92.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.71	0.37	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Hexachloroethane	<0.017		0.18	0.017	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
N-Nitrosodi-n-propylamine	<0.0069		0.071	0.0069	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Pentachlorophenol	<0.087		0.71	0.087	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*38*		*31 - 166*	*09/30/24 14:48*	*10/01/24 16:45*	*1*
Phenol-d5 (Surr)	*65*		*30 - 153*	*09/30/24 14:48*	*10/01/24 16:45*	*1*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/30/24 14:48*	*10/01/24 16:45*	*1*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*09/30/24 14:48*	*10/01/24 16:45*	*1*
2,4,6-Tribromophenol (Surr)	*7*	*S1-*	*31 - 143*	*09/30/24 14:48*	*10/01/24 16:45*	*1*
Terphenyl-d14 (Surr)	*78*		*42 - 157*	*09/30/24 14:48*	*10/01/24 16:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0097		0.018	0.0097	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
4,4'-DDE	<0.0093		0.018	0.0093	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
4,4'-DDT	<0.0086		0.018	0.0086	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
alpha-Chlordane	<0.0096		0.018	0.0096	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Chlordane (technical)	<0.034		0.072	0.034	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
delta-BHC	<0.0086		0.018	0.0086	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Dieldrin	<0.0094		0.018	0.0094	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Endosulfan I	<0.0097		0.018	0.0097	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Endosulfan II	<0.0099		0.018	0.0099	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Endrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Endrin ketone	<0.0088		0.018	0.0088	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
gamma-BHC (Lindane)	<0.0090		0.018	0.0090	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Heptachlor	<0.0098		0.018	0.0098	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Heptachlor epoxide	<0.0097		0.018	0.0097	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Methoxychlor	<0.012		0.089	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10
Toxaphene	<0.072		0.18	0.072	mg/Kg	☼	09/26/24 17:03	10/08/24 17:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*469*	*S1+*	*33 - 148*	*09/26/24 17:03*	*10/08/24 17:25*	*10*
Tetrachloro-m-xylene	*91*		*30 - 121*	*09/26/24 17:03*	*10/08/24 17:25*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018		mg/Kg	☼	09/26/24 17:03	10/10/24 10:59	1
PCB-1221	<0.018		0.018		mg/Kg	☼	09/26/24 17:03	10/10/24 10:59	1

Client Sample ID: SB108 (0-3)
Lab Sample ID: 500-257105-1
Date Collected: 09/19/24 09:47
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 92.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.018		0.018		mg/Kg	☼	09/26/24 17:03	10/10/24 10:59	1
PCB-1242	<0.018		0.018		mg/Kg	☼	09/26/24 17:03	10/10/24 10:59	1
PCB-1248	<0.018		0.018		mg/Kg	☼	09/26/24 17:03	10/10/24 10:59	1
PCB-1254	<0.018		0.018		mg/Kg	☼	09/26/24 17:03	10/10/24 10:59	1
PCB-1260	<0.018		0.018		mg/Kg	☼	09/26/24 17:03	10/10/24 10:59	1
Polychlorinated biphenyls, Total	<0.018		0.018		mg/Kg	☼	09/26/24 17:03	10/10/24 10:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*49 - 129*	*09/26/24 17:03*	*10/10/24 10:59*	*1*
DCB Decachlorobiphenyl	*78*		*37 - 121*	*09/26/24 17:03*	*10/10/24 10:59*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8000**		20		mg/Kg	☼	10/03/24 17:31	10/08/24 16:52	1
Antimony	<2.0	F1	2.0		mg/Kg	☼	10/03/24 17:31	10/08/24 16:52	1
Arsenic	**10**	**F1 F2**	4.9		mg/Kg	☼	10/03/24 17:31	10/09/24 13:43	5
Barium	**120**		4.9		mg/Kg	☼	10/03/24 17:31	10/09/24 13:43	5
Beryllium	<2.0		2.0		mg/Kg	☼	10/03/24 17:31	10/09/24 18:05	5
Cadmium	<0.98		0.98		mg/Kg	☼	10/03/24 17:31	10/09/24 13:43	5
Calcium	**190000**		98		mg/Kg	☼	10/03/24 17:31	10/09/24 13:43	5
Chromium	**830**		4.9		mg/Kg	☼	10/03/24 17:31	10/09/24 13:43	5
Cobalt	**4.4**		0.49		mg/Kg	☼	10/03/24 17:31	10/08/24 16:52	1
Copper	**29**	**F1**	4.9		mg/Kg	☼	10/03/24 17:31	10/09/24 13:43	5
Iron	**160000**		98		mg/Kg	☼	10/03/24 17:31	10/09/24 18:05	5
Lead	**97**	**F2**	2.4		mg/Kg	☼	10/03/24 17:31	10/09/24 13:43	5
Magnesium	**27000**		9.8		mg/Kg	☼	10/03/24 17:31	10/08/24 16:52	1
Manganese	**38000**	**B**	20		mg/Kg	☼	10/03/24 17:31	10/09/24 13:48	20
Nickel	**14**		4.9		mg/Kg	☼	10/03/24 17:31	10/09/24 13:43	5
Potassium	**360**		49		mg/Kg	☼	10/03/24 17:31	10/08/24 16:52	1
Selenium	**16**	**F1**	4.9		mg/Kg	☼	10/03/24 17:31	10/09/24 13:43	5
Silver	<2.4	F1 F2	2.4		mg/Kg	☼	10/03/24 17:31	10/09/24 13:43	5
Sodium	**240**		98		mg/Kg	☼	10/03/24 17:31	10/08/24 16:52	1
Thallium	**250**		20		mg/Kg	☼	10/03/24 17:31	10/09/24 13:48	20
Vanadium	**430**		2.4		mg/Kg	☼	10/03/24 17:31	10/09/24 13:43	5
Zinc	**130**	**F1 F2**	2.0		mg/Kg	☼	10/03/24 17:31	10/08/24 16:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.017		mg/Kg	☼	10/03/24 17:40	10/04/24 07:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**2.4**		0.25		mg/Kg	☼	09/30/24 12:42	09/30/24 15:25	1
pH (SW846 9045D)	**10.65**		0.20		SU			09/26/24 19:22	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB109 (0-3)
Lab Sample ID: 500-257105-2
Date Collected: 09/19/24 10:29
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 90.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00092		0.0023	0.00092	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
1,1,2-Trichloroethane	<0.00085		0.0023	0.00085	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
1,1-Dichloroethane	<0.00085		0.0023	0.00085	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
1,1-Dichloroethene	<0.00093		0.0023	0.00093	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
1,2-Dichloroethane	<0.0015		0.0057	0.0015	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
1,2-Dichloropropane	<0.00058		0.0023	0.00058	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
2-Butanone (MEK)	<0.0025		0.0057	0.0025	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
2-Hexanone	<0.0034		0.0057	0.0034	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0057	0.0040	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Acetone	**0.018**	**J**	0.023	0.0095	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Benzene	<0.00071		0.0023	0.00071	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Bromodichloromethane	<0.00073		0.0023	0.00073	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Bromomethane	<0.0028		0.0057	0.0028	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Carbon disulfide	**0.0080**		0.0057	0.0010	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Carbon tetrachloride	<0.00077		0.0023	0.00077	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Chlorobenzene	<0.00096		0.0023	0.00096	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Chloroethane	<0.0019		0.0057	0.0019	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Chloroform	<0.0016		0.0023	0.0016	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Chloromethane	<0.0011		0.0057	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
cis-1,2-Dichloroethene	<0.00091		0.0023	0.00091	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Methyl tert-butyl ether	<0.00073		0.0023	0.00073	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Methylene Chloride	<0.0024		0.0057	0.0024	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Toluene	**0.00086**	**J**	0.0023	0.00046	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Xylenes, Total	**0.00083**	**J**	0.0045	0.00078	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
trans-1,2-Dichloroethene	<0.00086		0.0023	0.00086	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Trichloroethene	<0.00062		0.0023	0.00062	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1
Vinyl chloride	<0.00093		0.0023	0.00093	mg/Kg	☼	09/20/24 18:05	09/24/24 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*09/20/24 18:05*	*09/24/24 12:45*	*1*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*75 - 131*	*09/20/24 18:05*	*09/24/24 12:45*	*1*
Dibromofluoromethane	*92*		*75 - 126*	*09/20/24 18:05*	*09/24/24 12:45*	*1*
Toluene-d8 (Surr)	*120*		*75 - 124*	*09/20/24 18:05*	*09/24/24 12:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.035	0.0072	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Acenaphthylene	**0.0073**	**J**	0.035	0.0060	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Anthracene	**0.015**	**J**	0.035	0.0073	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Benzo[a]anthracene	**0.063**		0.035	0.0076	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Benzo[a]pyrene	**0.056**		0.035	0.034	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Benzo[b]fluoranthene	**0.11**		0.035	0.034	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Benzo[g,h,i]perylene	**0.055**		0.035	0.0077	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB109 (0-3)
Lab Sample ID: 500-257105-2
Date Collected: 09/19/24 10:29
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 90.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.045**		0.035	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Chrysene	**0.083**		0.035	0.0094	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Dibenz(a,h)anthracene	<0.035		0.035	0.035	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Fluoranthene	**0.089**		0.035	0.0083	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Fluorene	<0.011		0.035	0.011	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Indeno[1,2,3-cd]pyrene	**0.045**		0.035	0.035	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Naphthalene	**0.041**		0.035	0.0064	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Phenanthrene	**0.12**		0.035	0.0078	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Pyrene	**0.092**		0.035	0.0097	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
1,2,4-Trichlorobenzene	<0.025		0.18	0.025	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
1,2-Dichlorobenzene	<0.014		0.18	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2,4,5-Trichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2,4,6-Trichlorophenol	<0.012		0.35	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2,4-Dichlorophenol	<0.013		0.35	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2,4-Dimethylphenol	<0.080		0.35	0.080	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2,4-Dinitrophenol	<0.21		0.72	0.21	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2,4-Dinitrotoluene	<0.020		0.18	0.020	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2-Chloronaphthalene	<0.013		0.18	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2-Chlorophenol	<0.011		0.18	0.011	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2-Methylnaphthalene	**0.057**	**J**	0.072	0.0072	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2-Nitroaniline	<0.019		0.18	0.019	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
2-Nitrophenol	<0.024		0.35	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
3,3'-Dichlorobenzidine	<0.029		0.18	0.029	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
3 & 4 Methylphenol	<0.026		0.18	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
3-Nitroaniline	<0.016		0.35	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
4,6-Dinitro-2-methylphenol	<0.20		0.72	0.20	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
4-Bromophenyl phenyl ether	<0.024		0.18	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
4-Chloro-3-methylphenol	<0.014		0.35	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
4-Chloroaniline	<0.37		0.72	0.37	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
4-Chlorophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
4-Nitroaniline	<0.026		0.35	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
4-Nitrophenol	<0.13		0.72	0.13	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Bis(2-chloroethoxy)methane	<0.013		0.18	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Bis(2-chloroethyl)ether	<0.016		0.18	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Dibenzofuran	**0.019**	**J**	0.18	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Diethyl phthalate	<0.016		0.18	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Dimethyl phthalate	<0.0077		0.18	0.0077	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Di-n-butyl phthalate	<0.011		0.18	0.011	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Di-n-octyl phthalate	<0.25		0.35	0.25	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Hexachlorobenzene	<0.0068		0.072	0.0068	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Hexachlorobutadiene	<0.020		0.18	0.020	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB109 (0-3)
Lab Sample ID: 500-257105-2
Date Collected: 09/19/24 10:29
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 90.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.38		0.72	0.38	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Isophorone	<0.018		0.18	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Nitrobenzene	<0.011		0.035	0.011	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
N-Nitrosodi-n-propylamine	<0.0070		0.072	0.0070	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
N-Nitrosodiphenylamine	<0.021		0.18	0.021	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Pentachlorophenol	<0.089		0.72	0.089	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1
Phenol	<0.015		0.18	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*39*		*31 - 166*	*09/30/24 14:48*	*10/01/24 17:10*	*1*
Phenol-d5 (Surr)	*44*		*30 - 153*	*09/30/24 14:48*	*10/01/24 17:10*	*1*
Nitrobenzene-d5 (Surr)	*45*		*37 - 147*	*09/30/24 14:48*	*10/01/24 17:10*	*1*
2-Fluorobiphenyl (Surr)	*42*	*S1-*	*43 - 145*	*09/30/24 14:48*	*10/01/24 17:10*	*1*
2,4,6-Tribromophenol (Surr)	*6*	*S1-*	*31 - 143*	*09/30/24 14:48*	*10/01/24 17:10*	*1*
Terphenyl-d14 (Surr)	*44*		*42 - 157*	*09/30/24 14:48*	*10/01/24 17:10*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
4,4'-DDE	<0.0091		0.018	0.0091	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
alpha-Chlordane	<0.0095		0.018	0.0095	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Chlordane (technical)	<0.034		0.070	0.034	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
delta-BHC	<0.0085		0.018	0.0085	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Dieldrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Endosulfan I	<0.0096		0.018	0.0096	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Endosulfan sulfate	<0.0098		0.018	0.0098	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Heptachlor	<0.0096		0.018	0.0096	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/26/24 17:03	10/08/24 17:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*118*		*33 - 148*	*09/26/24 17:03*	*10/08/24 17:36*	*10*
Tetrachloro-m-xylene	*64*		*30 - 121*	*09/26/24 17:03*	*10/08/24 17:36*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:04	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:04	10

Client Sample ID: SB109 (0-3)
Date Collected: 09/19/24 10:29
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-2
Matrix: Solid
Percent Solids: 90.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:04	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:04	10
PCB-1248	**0.81**		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:04	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:04	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:04	10
Polychlorinated biphenyls, Total	**0.81**		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*49 - 129*	*09/26/24 17:03*	*10/14/24 11:04*	*10*
DCB Decachlorobiphenyl	*126*	*S1+*	*37 - 121*	*09/26/24 17:03*	*10/14/24 11:04*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18000**		21		mg/Kg	☼	10/03/24 17:31	10/08/24 17:15	1
Antimony	<2.1		2.1		mg/Kg	☼	10/03/24 17:31	10/08/24 17:15	1
Arsenic	**14**		5.3		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Barium	**330**		5.3		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Beryllium	**4.2**		2.1		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Cadmium	**1.4**		1.1		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Calcium	**200000**		110		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Chromium	**1200**		21		mg/Kg	☼	10/03/24 17:31	10/10/24 12:27	20
Cobalt	**7.0**		0.53		mg/Kg	☼	10/03/24 17:31	10/08/24 17:15	1
Copper	**84**		5.3		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Iron	**120000**		110		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Lead	**130**		2.6		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Magnesium	**15000**		11		mg/Kg	☼	10/03/24 17:31	10/08/24 17:15	1
Manganese	**16000**	**B**	5.3		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Nickel	**100**		5.3		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Potassium	**1200**		53		mg/Kg	☼	10/03/24 17:31	10/08/24 17:15	1
Selenium	**7.9**		5.3		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Silver	**4.4**		2.6		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Sodium	**600**		110		mg/Kg	☼	10/03/24 17:31	10/08/24 17:15	1
Thallium	**120**		5.3		mg/Kg	☼	10/03/24 17:31	10/09/24 15:52	5
Vanadium	**340**		2.6		mg/Kg	☼	10/03/24 17:31	10/09/24 18:36	5
Zinc	**250**		2.1		mg/Kg	☼	10/03/24 17:31	10/08/24 17:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.017		mg/Kg	☼	10/03/24 17:40	10/04/24 07:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**20**		2.6		mg/Kg	☼	09/30/24 12:42	09/30/24 16:59	10
pH (SW846 9045D)	**10.26**		0.20		SU			09/26/24 19:25	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB109 (5-7.5)
Lab Sample ID: 500-257105-3
Date Collected: 09/19/24 10:51
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 81.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0027	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
1,1,2,2-Tetrachloroethane	<0.0013	*3	0.0027	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
1,1,2-Trichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
1,1-Dichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
1,1-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
1,2-Dichloroethane	<0.0018		0.0068	0.0018	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
1,2-Dichloropropane	<0.00070		0.0027	0.00070	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
2-Butanone (MEK)	<0.0030		0.0068	0.0030	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
2-Hexanone	<0.0041		0.0068	0.0041	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0068	0.0048	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Acetone	<0.011		0.027	0.011	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Benzene	<0.00085		0.0027	0.00085	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Bromodichloromethane	<0.00087		0.0027	0.00087	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Bromoform	<0.0016		0.0027	0.0016	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Bromomethane	<0.0033		0.0068	0.0033	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Carbon disulfide	**0.0078**		0.0068	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Carbon tetrachloride	<0.00092		0.0027	0.00092	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Chlorobenzene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Chloroethane	<0.0022		0.0068	0.0022	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Chloroform	<0.0019		0.0027	0.0019	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Chloromethane	<0.0013		0.0068	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
cis-1,2-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
1,3-Dichloropropene, Total	<0.0013		0.0027	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Dibromochloromethane	<0.0013		0.0027	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Ethylbenzene	<0.0014		0.0027	0.0014	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Methyl tert-butyl ether	<0.00088		0.0027	0.00088	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Methylene Chloride	<0.0029		0.0068	0.0029	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Styrene	<0.0012		0.0027	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Tetrachloroethene	<0.0015		0.0027	0.0015	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Toluene	**0.0032**		0.0027	0.00055	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Xylenes, Total	**0.0024**	**J**	0.0054	0.00093	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
trans-1,2-Dichloroethene	<0.0010		0.0027	0.0010	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Trichloroethene	<0.00074		0.0027	0.00074	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1
Vinyl chloride	<0.0011		0.0027	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*09/20/24 18:05*	*09/24/24 13:10*	*1*
4-Bromofluorobenzene (Surr)	*140*	**3 S1+*	*75 - 131*	*09/20/24 18:05*	*09/24/24 13:10*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*09/20/24 18:05*	*09/24/24 13:10*	*1*
Toluene-d8 (Surr)	*148*	*S1+*	*75 - 124*	*09/20/24 18:05*	*09/24/24 13:10*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.024**	**J**	0.040	0.0082	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Acenaphthylene	**0.041**		0.040	0.0068	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Anthracene	**0.019**	**J**	0.040	0.0082	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Benzo[a]anthracene	**0.049**		0.040	0.0085	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Benzo[a]pyrene	<0.039		0.040	0.039	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Benzo[b]fluoranthene	**0.052**		0.040	0.038	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Benzo[g,h,i]perylene	<0.0087		0.040	0.0087	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB109 (5-7.5)
Lab Sample ID: 500-257105-3
Date Collected: 09/19/24 10:51
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 81.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.016**	**J**	0.040	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Chrysene	**0.069**		0.040	0.011	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Dibenz(a,h)anthracene	<0.040		0.040	0.040	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Fluoranthene	**0.099**		0.040	0.0093	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Fluorene	**0.015**	**J**	0.040	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Indeno[1,2,3-cd]pyrene	<0.039		0.040	0.039	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Naphthalene	**0.20**		0.040	0.0073	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Phenanthrene	**0.49**		0.040	0.0087	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Pyrene	**0.091**		0.040	0.011	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
1,2,4-Trichlorobenzene	<0.029		0.20	0.029	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
1,2-Dichlorobenzene	<0.016		0.20	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
1,3-Dichlorobenzene	<0.018		0.20	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
1,4-Dichlorobenzene	<0.019		0.20	0.019	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2,4,5-Trichlorophenol	<0.015		0.40	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2,4,6-Trichlorophenol	<0.014		0.40	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2,4-Dichlorophenol	<0.014		0.40	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2,4-Dimethylphenol	<0.090		0.40	0.090	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2,4-Dinitrophenol	<0.23		0.81	0.23	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2,4-Dinitrotoluene	<0.023		0.20	0.023	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2,6-Dinitrotoluene	<0.014		0.20	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2-Chloronaphthalene	<0.015		0.20	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2-Chlorophenol	<0.013		0.20	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2-Methylnaphthalene	**0.22**		0.081	0.0081	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2-Methylphenol	<0.021		0.20	0.021	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2-Nitroaniline	<0.022		0.20	0.022	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
2-Nitrophenol	<0.027		0.40	0.027	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
3,3'-Dichlorobenzidine	<0.033		0.20	0.033	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
3 & 4 Methylphenol	<0.029		0.20	0.029	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
3-Nitroaniline	<0.018		0.40	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
4,6-Dinitro-2-methylphenol	<0.23		0.81	0.23	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
4-Bromophenyl phenyl ether	<0.027		0.20	0.027	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
4-Chloro-3-methylphenol	<0.016		0.40	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
4-Chloroaniline	<0.42		0.81	0.42	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
4-Chlorophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
4-Nitroaniline	<0.030		0.40	0.030	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
4-Nitrophenol	<0.15		0.81	0.15	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Bis(2-chloroethoxy)methane	<0.015		0.20	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Bis(2-chloroethyl)ether	<0.019		0.20	0.019	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
bis(chloroisopropyl) ether	<0.029		0.20	0.029	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Bis(2-ethylhexyl) phthalate	<0.16		0.20	0.16	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Butyl benzyl phthalate	<0.020		0.20	0.020	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Carbazole	<0.016		0.20	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Dibenzofuran	**0.055**	**J**	0.20	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Diethyl phthalate	<0.018		0.20	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Dimethyl phthalate	<0.0087		0.20	0.0087	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Di-n-butyl phthalate	<0.013		0.20	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Di-n-octyl phthalate	<0.28		0.40	0.28	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Hexachlorobenzene	<0.0077		0.081	0.0077	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Hexachlorobutadiene	<0.023		0.20	0.023	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB109 (5-7.5)
Lab Sample ID: 500-257105-3
Date Collected: 09/19/24 10:51
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 81.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.43		0.81	0.43	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Hexachloroethane	<0.020		0.20	0.020	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Isophorone	<0.021		0.20	0.021	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Nitrobenzene	<0.013		0.040	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
N-Nitrosodi-n-propylamine	<0.0079		0.081	0.0079	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
N-Nitrosodiphenylamine	<0.024		0.20	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Pentachlorophenol	<0.10		0.81	0.10	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1
Phenol	<0.017		0.20	0.017	mg/Kg	☼	09/30/24 14:48	10/01/24 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*49*		*31 - 166*	*09/30/24 14:48*	*10/01/24 17:35*	*1*
Phenol-d5 (Surr)	*55*		*30 - 153*	*09/30/24 14:48*	*10/01/24 17:35*	*1*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*09/30/24 14:48*	*10/01/24 17:35*	*1*
2-Fluorobiphenyl (Surr)	*66*		*43 - 145*	*09/30/24 14:48*	*10/01/24 17:35*	*1*
2,4,6-Tribromophenol (Surr)	*37*		*31 - 143*	*09/30/24 14:48*	*10/01/24 17:35*	*1*
Terphenyl-d14 (Surr)	*61*		*42 - 157*	*09/30/24 14:48*	*10/01/24 17:35*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.020	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
4,4'-DDE	<0.010		0.020	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
4,4'-DDT	<0.0097		0.020	0.0097	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Aldrin	<0.014		0.020	0.014	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
alpha-BHC	<0.011		0.020	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
alpha-Chlordane	<0.011		0.020	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
beta-BHC	<0.016		0.020	0.016	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Chlordane (technical)	<0.039		0.081	0.039	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
delta-BHC	<0.0097		0.020	0.0097	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Dieldrin	<0.011		0.020	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Endosulfan I	<0.011		0.020	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Endosulfan II	<0.011		0.020	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Endosulfan sulfate	<0.011		0.020	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Endrin	<0.010		0.020	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Endrin aldehyde	<0.012		0.020	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Endrin ketone	<0.0099		0.020	0.0099	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
gamma-BHC (Lindane)	<0.010		0.020	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
gamma-Chlordane	<0.012		0.020	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Heptachlor	<0.011		0.020	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Heptachlor epoxide	<0.011		0.020	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Methoxychlor	<0.013		0.10	0.013	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10
Toxaphene	<0.081		0.20	0.081	mg/Kg	☼	09/26/24 17:03	10/08/24 17:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*196*	*S1+*	*33 - 148*	*09/26/24 17:03*	*10/08/24 17:48*	*10*
Tetrachloro-m-xylene	*108*		*30 - 121*	*09/26/24 17:03*	*10/08/24 17:48*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.020		0.020		mg/Kg	☼	09/26/24 17:03	10/10/24 11:29	1
PCB-1221	<0.020		0.020		mg/Kg	☼	09/26/24 17:03	10/10/24 11:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB109 (5-7.5)
Lab Sample ID: 500-257105-3
Date Collected: 09/19/24 10:51
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 81.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.020		0.020		mg/Kg	☼	09/26/24 17:03	10/10/24 11:29	1
PCB-1242	<0.020		0.020		mg/Kg	☼	09/26/24 17:03	10/10/24 11:29	1
PCB-1248	<0.020		0.020		mg/Kg	☼	09/26/24 17:03	10/10/24 11:29	1
PCB-1254	<0.020		0.020		mg/Kg	☼	09/26/24 17:03	10/10/24 11:29	1
PCB-1260	<0.020		0.020		mg/Kg	☼	09/26/24 17:03	10/10/24 11:29	1
Polychlorinated biphenyls, Total	<0.020		0.020		mg/Kg	☼	09/26/24 17:03	10/10/24 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*49 - 129*	*09/26/24 17:03*	*10/10/24 11:29*	*1*
DCB Decachlorobiphenyl	*69*		*37 - 121*	*09/26/24 17:03*	*10/10/24 11:29*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8600**		21		mg/Kg	☼	10/03/24 17:31	10/08/24 17:20	1
Antimony	<2.1		2.1		mg/Kg	☼	10/03/24 17:31	10/08/24 17:20	1
Arsenic	**9.4**		5.4		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Barium	**130**		5.4		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Beryllium	**3.1**		2.1		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Cadmium	<1.1		1.1		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Calcium	**21000**		21		mg/Kg	☼	10/03/24 17:31	10/08/24 17:20	1
Chromium	**28**		1.1		mg/Kg	☼	10/03/24 17:31	10/08/24 17:20	1
Cobalt	**9.0**		0.54		mg/Kg	☼	10/03/24 17:31	10/08/24 17:20	1
Copper	**26**		5.4		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Iron	**100000**		110		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Lead	**19**		2.7		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Magnesium	**1900**		11		mg/Kg	☼	10/03/24 17:31	10/08/24 17:20	1
Manganese	**10000**	**B**	5.4		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Nickel	**25**		5.4		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Potassium	**1000**		54		mg/Kg	☼	10/03/24 17:31	10/08/24 17:20	1
Selenium	<5.4		5.4		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Silver	<2.7		2.7		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Sodium	**710**		110		mg/Kg	☼	10/03/24 17:31	10/08/24 17:20	1
Thallium	**44**		5.4		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Vanadium	**110**		2.7		mg/Kg	☼	10/03/24 17:31	10/09/24 18:41	5
Zinc	**140**		2.1		mg/Kg	☼	10/03/24 17:31	10/08/24 17:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.019		mg/Kg	☼	10/03/24 17:40	10/04/24 07:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.80**		0.29		mg/Kg	☼	09/30/24 12:42	09/30/24 15:28	1
pH (SW846 9045D)	**7.69**		0.20		SU			09/26/24 19:27	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB110 (0-3)
Lab Sample ID: 500-257105-4
Date Collected: 09/19/24 12:04
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 94.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00069		0.0017	0.00069	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
1,1,2,2-Tetrachloroethane	<0.00085		0.0017	0.00085	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
1,1,2-Trichloroethane	<0.00064		0.0017	0.00064	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
1,1-Dichloroethane	<0.00064		0.0017	0.00064	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
1,1-Dichloroethene	<0.00070		0.0017	0.00070	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
1,2-Dichloroethane	<0.0011		0.0043	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
1,2-Dichloropropane	<0.00044		0.0017	0.00044	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
2-Butanone (MEK)	**0.0048**		0.0043	0.0019	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
2-Hexanone	<0.0026		0.0043	0.0026	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
4-Methyl-2-pentanone (MIBK)	<0.0030		0.0043	0.0030	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Acetone	**0.014**	**J**	0.017	0.0072	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Benzene	**0.00080**	**J**	0.0017	0.00054	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Bromodichloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Bromoform	<0.0010		0.0017	0.0010	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Bromomethane	<0.0021		0.0043	0.0021	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Carbon disulfide	**0.0028**	**J**	0.0043	0.00079	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Carbon tetrachloride	<0.00058		0.0017	0.00058	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Chlorobenzene	<0.00072		0.0017	0.00072	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Chloroethane	<0.0014		0.0043	0.0014	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Chloroform	<0.0012		0.0017	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Chloromethane	<0.00083		0.0043	0.00083	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
cis-1,2-Dichloroethene	<0.00069		0.0017	0.00069	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
1,3-Dichloropropene, Total	<0.00082		0.0017	0.00082	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Dibromochloromethane	<0.00079		0.0017	0.00079	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Ethylbenzene	<0.00090		0.0017	0.00090	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Methyl tert-butyl ether	<0.00055		0.0017	0.00055	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Methylene Chloride	<0.0018		0.0043	0.0018	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Styrene	<0.00077		0.0017	0.00077	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Tetrachloroethene	<0.00096		0.0017	0.00096	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Toluene	**0.0020**		0.0017	0.00034	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Xylenes, Total	**0.0013**	**J**	0.0034	0.00058	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
trans-1,2-Dichloroethene	<0.00064		0.0017	0.00064	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Trichloroethene	<0.00046		0.0017	0.00046	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1
Vinyl chloride	<0.00070		0.0017	0.00070	mg/Kg	☼	09/20/24 18:05	09/24/24 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*09/20/24 18:05*	*09/24/24 13:35*	*1*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*75 - 131*	*09/20/24 18:05*	*09/24/24 13:35*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*09/20/24 18:05*	*09/24/24 13:35*	*1*
Toluene-d8 (Surr)	*117*		*75 - 124*	*09/20/24 18:05*	*09/24/24 13:35*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.034	0.0070	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Acenaphthylene	**0.0072**	**J**	0.034	0.0059	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Anthracene	**0.014**	**J**	0.034	0.0071	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Benzo[a]anthracene	**0.076**		0.034	0.0073	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Benzo[a]pyrene	**0.078**		0.034	0.033	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Benzo[b]fluoranthene	**0.14**		0.034	0.033	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Benzo[g,h,i]perylene	**0.094**		0.034	0.0075	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB110 (0-3)
Lab Sample ID: 500-257105-4
Date Collected: 09/19/24 12:04
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 94.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.058**		0.034	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Chrysene	**0.11**		0.034	0.0091	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Dibenz(a,h)anthracene	<0.034		0.034	0.034	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Fluoranthene	**0.13**		0.034	0.0080	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Fluorene	<0.010		0.034	0.010	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Indeno[1,2,3-cd]pyrene	**0.079**		0.034	0.034	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Naphthalene	**0.012**	**J**	0.034	0.0063	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Phenanthrene	**0.085**		0.034	0.0075	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Pyrene	**0.14**		0.034	0.0095	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
1,2,4-Trichlorobenzene	<0.025		0.17	0.025	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
1,3-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2,4,5-Trichlorophenol	<0.013		0.34	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2,4,6-Trichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2,4-Dichlorophenol	<0.012		0.34	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2,4-Dimethylphenol	<0.078		0.34	0.078	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2,4-Dinitrophenol	<0.20		0.70	0.20	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2,4-Dinitrotoluene	<0.020		0.17	0.020	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2,6-Dinitrotoluene	<0.012		0.17	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2-Chloronaphthalene	<0.013		0.17	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2-Methylnaphthalene	**0.016**	**J**	0.070	0.0069	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2-Nitroaniline	<0.019		0.17	0.019	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
2-Nitrophenol	<0.023		0.34	0.023	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
3,3'-Dichlorobenzidine	<0.028		0.17	0.028	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
3 & 4 Methylphenol	<0.025		0.17	0.025	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
3-Nitroaniline	<0.016		0.34	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
4,6-Dinitro-2-methylphenol	<0.20		0.70	0.20	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
4-Bromophenyl phenyl ether	<0.024		0.17	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
4-Chloro-3-methylphenol	<0.013		0.34	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
4-Chloroaniline	<0.36		0.70	0.36	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
4-Chlorophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
4-Nitroaniline	<0.026		0.34	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
4-Nitrophenol	<0.13		0.70	0.13	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Bis(2-chloroethoxy)methane	<0.013		0.17	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Bis(2-chloroethyl)ether	<0.016		0.17	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
bis(chloroisopropyl) ether	<0.025		0.17	0.025	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Bis(2-ethylhexyl) phthalate	<0.14		0.17	0.14	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Butyl benzyl phthalate	**0.045**	**J**	0.17	0.017	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Carbazole	<0.014		0.17	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Diethyl phthalate	<0.016		0.17	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Dimethyl phthalate	<0.0075		0.17	0.0075	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Di-n-octyl phthalate	<0.24		0.34	0.24	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Hexachlorobenzene	<0.0066		0.070	0.0066	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Hexachlorobutadiene	<0.020		0.17	0.020	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB110 (0-3)
Lab Sample ID: 500-257105-4
Date Collected: 09/19/24 12:04
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 94.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.37		0.70	0.37	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Isophorone	<0.018		0.17	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Nitrobenzene	<0.011		0.034	0.011	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
N-Nitrosodi-n-propylamine	<0.0068		0.070	0.0068	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
N-Nitrosodiphenylamine	<0.021		0.17	0.021	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Pentachlorophenol	<0.087		0.70	0.087	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1
Phenol	<0.015		0.17	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*59*		*31 - 166*	*09/30/24 14:48*	*10/01/24 18:00*	*1*
Phenol-d5 (Surr)	*66*		*30 - 153*	*09/30/24 14:48*	*10/01/24 18:00*	*1*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*09/30/24 14:48*	*10/01/24 18:00*	*1*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*	*09/30/24 14:48*	*10/01/24 18:00*	*1*
2,4,6-Tribromophenol (Surr)	*43*		*31 - 143*	*09/30/24 14:48*	*10/01/24 18:00*	*1*
Terphenyl-d14 (Surr)	*85*		*42 - 157*	*09/30/24 14:48*	*10/01/24 18:00*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0095		0.018	0.0095	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
4,4'-DDE	**0.0092**	**J**	0.018	0.0091	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
4,4'-DDT	<0.0084		0.018	0.0084	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
alpha-Chlordane	<0.0095		0.018	0.0095	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Chlordane (technical)	<0.034		0.070	0.034	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
delta-BHC	<0.0085		0.018	0.0085	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Endosulfan I	<0.0096		0.018	0.0096	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Endosulfan II	<0.0097		0.018	0.0097	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Endosulfan sulfate	<0.0098		0.018	0.0098	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Endrin ketone	<0.0086		0.018	0.0086	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
gamma-BHC (Lindane)	<0.0088		0.018	0.0088	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Heptachlor	<0.0096		0.018	0.0096	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Methoxychlor	<0.012		0.087	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10
Toxaphene	<0.071		0.18	0.071	mg/Kg	☼	09/26/24 17:03	10/08/24 18:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*33 - 148*	*09/26/24 17:03*	*10/08/24 18:00*	*10*
Tetrachloro-m-xylene	*66*		*30 - 121*	*09/26/24 17:03*	*10/08/24 18:00*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:19	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:19	10

Client Sample ID: SB110 (0-3)
Lab Sample ID: 500-257105-4

Date Collected: 09/19/24 12:04
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 94.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:19	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:19	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:19	10
PCB-1254	**0.60**		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:19	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:19	10
Polychlorinated biphenyls, Total	**0.60**		0.18		mg/Kg	☼	09/26/24 17:03	10/14/24 11:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*49 - 129*	*09/26/24 17:03*	*10/14/24 11:19*	*10*
DCB Decachlorobiphenyl	*133*	*S1+*	*37 - 121*	*09/26/24 17:03*	*10/14/24 11:19*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4200**		21		mg/Kg	☼	10/03/24 17:31	10/08/24 17:25	1
Antimony	<2.1		2.1		mg/Kg	☼	10/03/24 17:31	10/08/24 17:25	1
Arsenic	**11**		5.2		mg/Kg	☼	10/03/24 17:31	10/09/24 18:45	5
Barium	**51**		5.2		mg/Kg	☼	10/03/24 17:31	10/09/24 18:45	5
Beryllium	<0.41		0.41		mg/Kg	☼	10/03/24 17:31	10/08/24 17:25	1
Cadmium	**1.0**		1.0		mg/Kg	☼	10/03/24 17:31	10/09/24 18:45	5
Calcium	**230000**		100		mg/Kg	☼	10/03/24 17:31	10/09/24 18:45	5
Chromium	**1900**		21		mg/Kg	☼	10/03/24 17:31	10/10/24 12:31	20
Cobalt	**5.8**		0.52		mg/Kg	☼	10/03/24 17:31	10/08/24 17:25	1
Copper	**150**		5.2		mg/Kg	☼	10/03/24 17:31	10/09/24 18:45	5
Iron	**130000**		100		mg/Kg	☼	10/03/24 17:31	10/09/24 18:45	5
Lead	**39**		2.6		mg/Kg	☼	10/03/24 17:31	10/09/24 18:45	5
Magnesium	**23000**		10		mg/Kg	☼	10/03/24 17:31	10/08/24 17:25	1
Manganese	**18000**	**B**	5.2		mg/Kg	☼	10/03/24 17:31	10/09/24 18:45	5
Nickel	**63**		5.2		mg/Kg	☼	10/03/24 17:31	10/09/24 18:45	5
Potassium	**150**		52		mg/Kg	☼	10/03/24 17:31	10/08/24 17:25	1
Selenium	**9.3**		5.2		mg/Kg	☼	10/03/24 17:31	10/09/24 18:45	5
Silver	**2.9**		2.6		mg/Kg	☼	10/03/24 17:31	10/09/24 18:45	5
Sodium	**200**		100		mg/Kg	☼	10/03/24 17:31	10/08/24 17:25	1
Thallium	**93**		21		mg/Kg	☼	10/03/24 17:31	10/10/24 12:31	20
Vanadium	**480**		2.6		mg/Kg	☼	10/03/24 17:31	10/09/24 18:45	5
Zinc	**170**		2.1		mg/Kg	☼	10/03/24 17:31	10/08/24 17:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.056**		0.017		mg/Kg	☼	10/03/24 17:40	10/04/24 07:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.60**		0.24		mg/Kg	☼	09/30/24 12:42	09/30/24 15:34	1
pH (SW846 9045D)	**8.85**		0.20		SU			09/26/24 19:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB110 (5-7.5)
Lab Sample ID: 500-257105-5
Date Collected: 09/19/24 12:25
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 91.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
1,2-Dichloropropane	<0.00051		0.0020	0.00051	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0050	0.0035	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Acetone	<0.0084		0.020	0.0084	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Carbon disulfide	**0.0028**	**J**	0.0050	0.00092	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Ethylbenzene	<0.0010		0.0020	0.0010	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Methyl tert-butyl ether	<0.00064		0.0020	0.00064	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Toluene	**0.0013**	**J**	0.0020	0.00040	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Xylenes, Total	**0.00077**	**J**	0.0040	0.00068	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
trans-1,2-Dichloroethene	<0.00075		0.0020	0.00075	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg	☼	09/20/24 18:05	09/24/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*09/20/24 18:05*	*09/24/24 14:00*	*1*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*75 - 131*	*09/20/24 18:05*	*09/24/24 14:00*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*09/20/24 18:05*	*09/24/24 14:00*	*1*
Toluene-d8 (Surr)	*119*		*75 - 124*	*09/20/24 18:05*	*09/24/24 14:00*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.033**	**J**	0.10	0.021	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Acenaphthylene	<0.018		0.10	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Anthracene	**0.060**	**J**	0.10	0.021	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Benzo[a]anthracene	**0.076**	**J**	0.10	0.022	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Benzo[a]pyrene	<0.10		0.10	0.10	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Benzo[b]fluoranthene	<0.10		0.10	0.10	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Benzo[g,h,i]perylene	<0.023		0.10	0.023	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB110 (5-7.5)
Lab Sample ID: 500-257105-5
Date Collected: 09/19/24 12:25
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 91.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.040		0.10	0.040	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Chrysene	**0.054**	**J**	0.10	0.028	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Dibenz(a,h)anthracene	<0.10		0.10	0.10	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Fluoranthene	**0.090**	**J**	0.10	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Fluorene	**0.042**	**J**	0.10	0.031	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Indeno[1,2,3-cd]pyrene	<0.10		0.10	0.10	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Naphthalene	<0.019		0.10	0.019	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Phenanthrene	**0.67**		0.10	0.023	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Pyrene	**0.097**	**J**	0.10	0.029	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
1,2,4-Trichlorobenzene	<0.075		0.53	0.075	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
1,2-Dichlorobenzene	<0.043		0.53	0.043	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
1,3-Dichlorobenzene	<0.047		0.53	0.047	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
1,4-Dichlorobenzene	<0.050		0.53	0.050	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2,4,5-Trichlorophenol	<0.040		1.0	0.040	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2,4,6-Trichlorophenol	<0.036		1.0	0.036	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2,4-Dichlorophenol	<0.037		1.0	0.037	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2,4-Dimethylphenol	<0.24		1.0	0.24	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2,4-Dinitrophenol	<0.61		2.1	0.61	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2,4-Dinitrotoluene	<0.060		0.53	0.060	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2,6-Dinitrotoluene	<0.036		0.53	0.036	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2-Chloronaphthalene	<0.039		0.53	0.039	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2-Chlorophenol	<0.034		0.53	0.034	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2-Methylnaphthalene	**0.10**	**J**	0.21	0.021	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2-Methylphenol	<0.055		0.53	0.055	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2-Nitroaniline	<0.056		0.53	0.056	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
2-Nitrophenol	<0.071		1.0	0.071	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
3,3'-Dichlorobenzidine	<0.086		0.53	0.086	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
3 & 4 Methylphenol	<0.077		0.53	0.077	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
3-Nitroaniline	<0.048		1.0	0.048	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
4,6-Dinitro-2-methylphenol	<0.59		2.1	0.59	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
4-Bromophenyl phenyl ether	<0.072		0.53	0.072	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
4-Chloro-3-methylphenol	<0.041		1.0	0.041	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
4-Chloroaniline	<1.1		2.1	1.1	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
4-Chlorophenyl phenyl ether	<0.14		0.53	0.14	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
4-Nitroaniline	<0.078		1.0	0.078	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
4-Nitrophenol	<0.39		2.1	0.39	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Bis(2-chloroethoxy)methane	<0.039		0.53	0.039	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Bis(2-chloroethyl)ether	<0.048		0.53	0.048	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
bis(chloroisopropyl) ether	<0.075		0.53	0.075	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Bis(2-ethylhexyl) phthalate	<0.41		0.53	0.41	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Butyl benzyl phthalate	<0.052		0.53	0.052	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Carbazole	<0.041		0.53	0.041	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Dibenzofuran	**0.040**	**J**	0.53	0.037	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Diethyl phthalate	<0.048		0.53	0.048	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Dimethyl phthalate	<0.023		0.53	0.023	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Di-n-butyl phthalate	<0.033		0.53	0.033	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Di-n-octyl phthalate	<0.73		1.0	0.73	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Hexachlorobenzene	<0.020		0.21	0.020	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Hexachlorobutadiene	<0.059		0.53	0.059	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2

Client Sample ID: SB110 (5-7.5)
Date Collected: 09/19/24 12:25
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-5
Matrix: Solid
Percent Solids: 91.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.1		2.1	1.1	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Hexachloroethane	<0.053		0.53	0.053	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Isophorone	<0.054		0.53	0.054	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Nitrobenzene	<0.033		0.10	0.033	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
N-Nitrosodi-n-propylamine	<0.021		0.21	0.021	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
N-Nitrosodiphenylamine	<0.062		0.53	0.062	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Pentachlorophenol	<0.26		2.1	0.26	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2
Phenol	<0.046		0.53	0.046	mg/Kg	☼	09/30/24 14:48	10/01/24 18:25	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*59*		*31 - 166*	*09/30/24 14:48*	*10/01/24 18:25*	*2*
Phenol-d5 (Surr)	*64*		*30 - 153*	*09/30/24 14:48*	*10/01/24 18:25*	*2*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*	*09/30/24 14:48*	*10/01/24 18:25*	*2*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*09/30/24 14:48*	*10/01/24 18:25*	*2*
2,4,6-Tribromophenol (Surr)	*64*		*31 - 143*	*09/30/24 14:48*	*10/01/24 18:25*	*2*
Terphenyl-d14 (Surr)	*73*		*42 - 157*	*09/30/24 14:48*	*10/01/24 18:25*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Endrin	<0.0090		0.018	0.0090	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Heptachlor epoxide	<0.0095		0.018	0.0095	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Methoxychlor	<0.012		0.086	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/26/24 17:03	10/08/24 18:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*33 - 148*	*09/26/24 17:03*	*10/08/24 18:11*	*10*
Tetrachloro-m-xylene	*177*	*S1+*	*30 - 121*	*09/26/24 17:03*	*10/08/24 18:11*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 11:59	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 11:59	1

Client Sample ID: SB110 (5-7.5)
Lab Sample ID: 500-257105-5
Date Collected: 09/19/24 12:25
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 91.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 11:59	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 11:59	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 11:59	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 11:59	1
PCB-1260	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 11:59	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*	*S1-*	*49 - 129*	*09/26/24 17:03*	*10/10/24 11:59*	*1*
DCB Decachlorobiphenyl	*44*		*37 - 121*	*09/26/24 17:03*	*10/10/24 11:59*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2600**		21		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Antimony	<2.1		2.1		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Arsenic	**2.0**		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Barium	**9.5**		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Beryllium	<0.42		0.42		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Cadmium	<0.21		0.21		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Calcium	**17000**		21		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Chromium	**36**		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Cobalt	**1.4**		0.52		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Copper	**15**		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Iron	**28000**		21		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Lead	**4.4**		0.52		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Magnesium	**5600**		10		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Manganese	**7100**	**B**	5.2		mg/Kg	☼	10/03/24 17:31	10/09/24 16:05	5
Nickel	**6.0**		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Potassium	**180**		52		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Selenium	**2.6**		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Silver	<0.52		0.52		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Sodium	**150**		100		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Thallium	**47**		5.2		mg/Kg	☼	10/03/24 17:31	10/09/24 16:05	5
Vanadium	**44**		0.52		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1
Zinc	**7.1**		2.1		mg/Kg	☼	10/03/24 17:31	10/08/24 17:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.017		mg/Kg	☼	10/03/24 17:40	10/04/24 07:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26		mg/Kg	☼	09/30/24 12:42	09/30/24 16:03	1
pH (SW846 9045D)	**8.12**		0.20		SU			09/26/24 19:32	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB111 (0-3)
Lab Sample ID: 500-257105-6
Date Collected: 09/19/24 13:27
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 93.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0026	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0026	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
1,1,2-Trichloroethane	<0.00098		0.0026	0.00098	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
1,1-Dichloroethane	<0.00099		0.0026	0.00099	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
1,1-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
1,2-Dichloroethane	<0.0017		0.0065	0.0017	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
1,2-Dichloropropane	<0.00067		0.0026	0.00067	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
2-Butanone (MEK)	<0.0029		0.0065	0.0029	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
2-Hexanone	<0.0040		0.0065	0.0040	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0065	0.0046	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Acetone	<0.011		0.026	0.011	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Benzene	<0.00082		0.0026	0.00082	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Bromodichloromethane	<0.00084		0.0026	0.00084	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Bromoform	<0.0015		0.0026	0.0015	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Bromomethane	<0.0032		0.0065	0.0032	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Carbon disulfide	<0.0012		0.0065	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Carbon tetrachloride	<0.00089		0.0026	0.00089	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Chlorobenzene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Chloroethane	<0.0021		0.0065	0.0021	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Chloroform	<0.0019		0.0026	0.0019	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Chloromethane	<0.0013		0.0065	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
cis-1,2-Dichloroethene	<0.0011		0.0026	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
1,3-Dichloropropene, Total	<0.0013		0.0026	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Dibromochloromethane	<0.0012		0.0026	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Ethylbenzene	<0.0014		0.0026	0.0014	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Methyl tert-butyl ether	<0.00084		0.0026	0.00084	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Methylene Chloride	<0.0028		0.0065	0.0028	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Styrene	<0.0012		0.0026	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Tetrachloroethene	<0.0015		0.0026	0.0015	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Toluene	<0.00053		0.0026	0.00053	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Xylenes, Total	<0.00090		0.0052	0.00090	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
trans-1,2-Dichloroethene	<0.00099		0.0026	0.00099	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Trichloroethene	<0.00071		0.0026	0.00071	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1
Vinyl chloride	<0.0011		0.0026	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 05:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 134*	*09/20/24 18:05*	*09/24/24 05:13*	*1*
4-Bromofluorobenzene (Surr)	*113*		*75 - 131*	*09/20/24 18:05*	*09/24/24 05:13*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*09/20/24 18:05*	*09/24/24 05:13*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*09/20/24 18:05*	*09/24/24 05:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.031**	**J**	0.069	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Acenaphthylene	**0.019**	**J**	0.069	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Anthracene	**0.14**		0.069	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Benzo[a]anthracene	**0.45**		0.069	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Benzo[a]pyrene	**0.43**		0.069	0.067	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Benzo[b]fluoranthene	**0.70**		0.069	0.066	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Benzo[g,h,i]perylene	**0.30**		0.069	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB111 (0-3)
Lab Sample ID: 500-257105-6
Date Collected: 09/19/24 13:27
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 93.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.20**		0.069	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Chrysene	**0.48**		0.069	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Dibenz(a,h)anthracene	**0.083**		0.069	0.069	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Fluoranthene	**0.82**		0.069	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Fluorene	**0.029**	**J**	0.069	0.020	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Indeno[1,2,3-cd]pyrene	**0.31**		0.069	0.067	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Naphthalene	<0.012		0.069	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Phenanthrene	**0.54**		0.069	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Pyrene	**0.72**		0.069	0.019	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
1,2,4-Trichlorobenzene	<0.049		0.35	0.049	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
1,3-Dichlorobenzene	<0.031		0.35	0.031	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2,4,5-Trichlorophenol	<0.026		0.69	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2,4,6-Trichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2,4-Dichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2,4-Dimethylphenol	<0.15		0.69	0.15	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2,4-Dinitrotoluene	<0.039		0.35	0.039	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2-Chlorophenol	<0.022		0.35	0.022	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2-Methylnaphthalene	<0.014		0.14	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2-Methylphenol	<0.036		0.35	0.036	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
2-Nitrophenol	<0.047		0.69	0.047	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
3,3'-Dichlorobenzidine	<0.056		0.35	0.056	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
3-Nitroaniline	<0.031		0.69	0.031	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
4-Bromophenyl phenyl ether	<0.047		0.35	0.047	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
4-Chloro-3-methylphenol	<0.027		0.69	0.027	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
4-Chloroaniline	<0.72		1.4	0.72	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
4-Chlorophenyl phenyl ether	<0.091		0.35	0.091	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
4-Nitroaniline	<0.051		0.69	0.051	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Butyl benzyl phthalate	<0.034		0.35	0.034	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Carbazole	**0.063**	**J**	0.35	0.027	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Dibenzofuran	**0.049**	**J**	0.35	0.025	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Di-n-octyl phthalate	<0.48		0.69	0.48	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2

Client Sample ID: SB111 (0-3)
Lab Sample ID: 500-257105-6
Date Collected: 09/19/24 13:27
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 93.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.73		1.4	0.73	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Nitrobenzene	<0.022		0.069	0.022	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/30/24 14:48	10/01/24 18:50	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*69*		*31 - 166*	*09/30/24 14:48*	*10/01/24 18:50*	*2*
Phenol-d5 (Surr)	*75*		*30 - 153*	*09/30/24 14:48*	*10/01/24 18:50*	*2*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*09/30/24 14:48*	*10/01/24 18:50*	*2*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*09/30/24 14:48*	*10/01/24 18:50*	*2*
2,4,6-Tribromophenol (Surr)	*65*		*31 - 143*	*09/30/24 14:48*	*10/01/24 18:50*	*2*
Terphenyl-d14 (Surr)	*74*		*42 - 157*	*09/30/24 14:48*	*10/01/24 18:50*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
alpha-BHC	<0.0099		0.018	0.0099	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
alpha-Chlordane	<0.0094		0.018	0.0094	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Chlordane (technical)	<0.033		0.070	0.033	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
delta-BHC	<0.0084		0.018	0.0084	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Dieldrin	<0.0092		0.018	0.0092	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Endosulfan I	<0.0095		0.018	0.0095	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Endosulfan II	<0.0096		0.018	0.0096	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Endosulfan sulfate	<0.0097		0.018	0.0097	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Heptachlor	<0.0095		0.018	0.0095	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Methoxychlor	<0.012		0.086	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/26/24 17:03	10/08/24 18:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*33 - 148*	*09/26/24 17:03*	*10/08/24 18:23*	*10*
Tetrachloro-m-xylene	*75*		*30 - 121*	*09/26/24 17:03*	*10/08/24 18:23*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:13	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:13	1

Client Sample ID: SB111 (0-3)
Lab Sample ID: 500-257105-6
Date Collected: 09/19/24 13:27
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 93.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:13	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:13	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:13	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:13	1
PCB-1260	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:13	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*49 - 129*	*09/26/24 17:03*	*10/10/24 12:13*	*1*
DCB Decachlorobiphenyl	*84*		*37 - 121*	*09/26/24 17:03*	*10/10/24 12:13*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6200**		21		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Antimony	<2.1		2.1		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Arsenic	**3.3**		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Barium	**90**		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Beryllium	**0.75**		0.42		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Cadmium	**0.43**		0.21		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Calcium	**130000**		100		mg/Kg	☼	10/03/24 17:31	10/09/24 16:09	5
Chromium	**23**		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Cobalt	**3.1**		0.52		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Copper	**18**		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Iron	**13000**		21		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Lead	**49**		0.52		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Magnesium	**35000**		10		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Manganese	**820**	**B**	1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Nickel	**13**		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Potassium	**990**		52		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Selenium	<1.0		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Silver	<2.6		2.6		mg/Kg	☼	10/03/24 17:31	10/09/24 16:09	5
Sodium	**210**		100		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Thallium	**3.9**		1.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Vanadium	**14**		0.52		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1
Zinc	**170**		2.1		mg/Kg	☼	10/03/24 17:31	10/08/24 17:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.069**		0.017		mg/Kg	☼	10/03/24 17:40	10/04/24 07:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.60**		0.24		mg/Kg	☼	09/30/24 12:42	09/30/24 16:05	1
Sulfide (SW846 9034)	<32		32		mg/Kg	☼	09/23/24 10:33	09/23/24 11:24	1
pH (SW846 9045D)	**7.99**		0.20		SU			09/26/24 19:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB111 (3-5)
Lab Sample ID: 500-257105-7
Date Collected: 09/19/24 13:34
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 94.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0011		0.0027	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0027	0.0014	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
1,1,2-Trichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
1,1-Dichloroethane	<0.0010		0.0027	0.0010	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
1,1-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
1,2-Dichloroethane	<0.0018		0.0069	0.0018	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
1,2-Dichloropropane	<0.00071		0.0027	0.00071	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
2-Butanone (MEK)	<0.0030		0.0069	0.0030	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
2-Hexanone	<0.0042		0.0069	0.0042	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0069	0.0049	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Acetone	<0.012		0.027	0.012	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Benzene	<0.00086		0.0027	0.00086	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Bromodichloromethane	<0.00088		0.0027	0.00088	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Bromoform	<0.0016		0.0027	0.0016	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Bromomethane	<0.0034		0.0069	0.0034	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Carbon disulfide	<0.0013		0.0069	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Carbon tetrachloride	<0.00093		0.0027	0.00093	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Chlorobenzene	<0.0012		0.0027	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Chloroethane	<0.0023		0.0069	0.0023	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Chloroform	<0.0020		0.0027	0.0020	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Chloromethane	<0.0013		0.0069	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
cis-1,2-Dichloroethene	<0.0011		0.0027	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
1,3-Dichloropropene, Total	<0.0013		0.0027	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Dibromochloromethane	<0.0013		0.0027	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Ethylbenzene	<0.0014		0.0027	0.0014	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Methyl tert-butyl ether	<0.00089		0.0027	0.00089	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Methylene Chloride	<0.0029		0.0069	0.0029	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Styrene	<0.0012		0.0027	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Tetrachloroethene	<0.0015		0.0027	0.0015	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Toluene	<0.00055		0.0027	0.00055	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Xylenes, Total	<0.00094		0.0055	0.00094	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
trans-1,2-Dichloroethene	<0.0010		0.0027	0.0010	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Trichloroethene	<0.00075		0.0027	0.00075	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1
Vinyl chloride	<0.0011		0.0027	0.0011	mg/Kg	☼	09/20/24 18:05	09/24/24 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 134*	*09/20/24 18:05*	*09/24/24 05:38*	*1*
4-Bromofluorobenzene (Surr)	*118*		*75 - 131*	*09/20/24 18:05*	*09/24/24 05:38*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*09/20/24 18:05*	*09/24/24 05:38*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*09/20/24 18:05*	*09/24/24 05:38*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.015**	**J**	0.069	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Acenaphthylene	**0.021**	**J**	0.069	0.012	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Anthracene	**0.065**	**J**	0.069	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Benzo[a]anthracene	**0.30**		0.069	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Benzo[a]pyrene	**0.33**		0.069	0.067	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Benzo[b]fluoranthene	**0.49**		0.069	0.066	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Benzo[g,h,i]perylene	**0.23**		0.069	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB111 (3-5)
Lab Sample ID: 500-257105-7
Date Collected: 09/19/24 13:34
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 94.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.13**		0.069	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Chrysene	**0.31**		0.069	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Dibenz(a,h)anthracene	<0.069		0.069	0.069	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Fluoranthene	**0.47**		0.069	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Fluorene	<0.020		0.069	0.020	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Indeno[1,2,3-cd]pyrene	**0.20**		0.069	0.067	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Naphthalene	**0.017**	J	0.069	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Phenanthrene	**0.19**		0.069	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Pyrene	**0.45**		0.069	0.019	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
1,2,4-Trichlorobenzene	<0.049		0.35	0.049	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
1,2-Dichlorobenzene	<0.028		0.35	0.028	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
1,3-Dichlorobenzene	<0.031		0.35	0.031	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
1,4-Dichlorobenzene	<0.033		0.35	0.033	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2,4,5-Trichlorophenol	<0.026		0.69	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2,4,6-Trichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2,4-Dichlorophenol	<0.024		0.69	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2,4-Dimethylphenol	<0.15		0.69	0.15	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2,4-Dinitrophenol	<0.40		1.4	0.40	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2,4-Dinitrotoluene	<0.039		0.35	0.039	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2,6-Dinitrotoluene	<0.024		0.35	0.024	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2-Chloronaphthalene	<0.026		0.35	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2-Chlorophenol	<0.022		0.35	0.022	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2-Methylnaphthalene	**0.020**	J	0.14	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2-Methylphenol	<0.036		0.35	0.036	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2-Nitroaniline	<0.037		0.35	0.037	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
2-Nitrophenol	<0.047		0.69	0.047	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
3,3'-Dichlorobenzidine	<0.056		0.35	0.056	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
3 & 4 Methylphenol	<0.051		0.35	0.051	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
3-Nitroaniline	<0.031		0.69	0.031	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
4,6-Dinitro-2-methylphenol	<0.39		1.4	0.39	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
4-Bromophenyl phenyl ether	<0.047		0.35	0.047	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
4-Chloro-3-methylphenol	<0.027		0.69	0.027	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
4-Chloroaniline	<0.73		1.4	0.73	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
4-Chlorophenyl phenyl ether	<0.091		0.35	0.091	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
4-Nitroaniline	<0.051		0.69	0.051	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Bis(2-chloroethoxy)methane	<0.026		0.35	0.026	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Bis(2-chloroethyl)ether	<0.032		0.35	0.032	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
bis(chloroisopropyl) ether	<0.050		0.35	0.050	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Bis(2-ethylhexyl) phthalate	<0.27		0.35	0.27	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Butyl benzyl phthalate	<0.034		0.35	0.034	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Carbazole	<0.027		0.35	0.027	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Dibenzofuran	<0.025		0.35	0.025	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Diethyl phthalate	<0.032		0.35	0.032	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Dimethyl phthalate	<0.015		0.35	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Di-n-butyl phthalate	<0.022		0.35	0.022	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Di-n-octyl phthalate	<0.48		0.69	0.48	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Hexachlorobenzene	<0.013		0.14	0.013	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Hexachlorobutadiene	<0.039		0.35	0.039	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB111 (3-5)
Lab Sample ID: 500-257105-7
Date Collected: 09/19/24 13:34
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 94.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.73		1.4	0.73	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Hexachloroethane	<0.035		0.35	0.035	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Isophorone	<0.036		0.35	0.036	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Nitrobenzene	<0.022		0.069	0.022	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
N-Nitrosodiphenylamine	<0.041		0.35	0.041	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Pentachlorophenol	<0.17		1.4	0.17	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2
Phenol	<0.030		0.35	0.030	mg/Kg	☼	09/30/24 14:48	10/01/24 19:15	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*62*		*31 - 166*	*09/30/24 14:48*	*10/01/24 19:15*	*2*
Phenol-d5 (Surr)	*67*		*30 - 153*	*09/30/24 14:48*	*10/01/24 19:15*	*2*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*09/30/24 14:48*	*10/01/24 19:15*	*2*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*09/30/24 14:48*	*10/01/24 19:15*	*2*
2,4,6-Tribromophenol (Surr)	*63*		*31 - 143*	*09/30/24 14:48*	*10/01/24 19:15*	*2*
Terphenyl-d14 (Surr)	*70*		*42 - 157*	*09/30/24 14:48*	*10/01/24 19:15*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
alpha-BHC	<0.0098		0.018	0.0098	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
alpha-Chlordane	<0.0093		0.018	0.0093	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
delta-BHC	<0.0083		0.018	0.0083	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Endosulfan I	<0.0094		0.018	0.0094	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Endosulfan II	<0.0095		0.018	0.0095	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Endosulfan sulfate	<0.0096		0.018	0.0096	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Endrin aldehyde	<0.0099		0.018	0.0099	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Heptachlor	<0.0094		0.018	0.0094	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Methoxychlor	<0.011		0.086	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10
Toxaphene	<0.069		0.17	0.069	mg/Kg	☼	09/26/24 17:03	10/08/24 18:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*33 - 148*	*09/26/24 17:03*	*10/08/24 18:35*	*10*
Tetrachloro-m-xylene	*79*		*30 - 121*	*09/26/24 17:03*	*10/08/24 18:35*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:28	1
PCB-1221	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:28	1

Client Sample ID: SB111 (3-5)
Lab Sample ID: 500-257105-7
Date Collected: 09/19/24 13:34
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 94.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:28	1
PCB-1242	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:28	1
PCB-1248	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:28	1
PCB-1254	<0.017		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:28	1
PCB-1260	**0.020**		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:28	1
Polychlorinated biphenyls, Total	**0.020**		0.017		mg/Kg	☼	09/26/24 17:03	10/10/24 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*49 - 129*	*09/26/24 17:03*	*10/10/24 12:28*	*1*
DCB Decachlorobiphenyl	*81*		*37 - 121*	*09/26/24 17:03*	*10/10/24 12:28*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9000**		20		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Antimony	<2.0		2.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Arsenic	**3.8**		0.99		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Barium	**110**		0.99		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Beryllium	**1.2**		0.39		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Cadmium	**0.48**		0.20		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Calcium	**140000**		99		mg/Kg	☼	10/03/24 17:31	10/09/24 16:14	5
Chromium	**32**		0.99		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Cobalt	**3.5**		0.49		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Copper	**20**		0.99		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Iron	**15000**		20		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Lead	**53**		0.49		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Magnesium	**27000**		9.9		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Manganese	**1600**	**B**	0.99		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Nickel	**18**		0.99		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Potassium	**1200**		49		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Selenium	<0.99		0.99		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Silver	<2.5		2.5		mg/Kg	☼	10/03/24 17:31	10/09/24 16:14	5
Sodium	**280**		99		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Thallium	**7.7**		0.99		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Vanadium	**23**		0.49		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1
Zinc	**180**		2.0		mg/Kg	☼	10/03/24 17:31	10/08/24 17:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.017		mg/Kg	☼	10/03/24 17:40	10/04/24 07:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.6**		0.24		mg/Kg	☼	09/30/24 12:42	09/30/24 16:06	1
pH (SW846 9045D)	**8.15**		0.20		SU			09/26/24 19:37	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB112 (0-3)
Lab Sample ID: 500-257105-8
Date Collected: 09/19/24 14:42
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 75.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0037	0.0015	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0037	0.0018	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
1,1,2-Trichloroethane	<0.0014		0.0037	0.0014	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
1,1-Dichloroethane	<0.0014		0.0037	0.0014	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
1,1-Dichloroethene	<0.0015		0.0037	0.0015	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
1,2-Dichloroethane	<0.0024		0.0093	0.0024	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
1,2-Dichloropropane	<0.00096		0.0037	0.00096	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
2-Butanone (MEK)	<0.0041		0.0093	0.0041	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
2-Hexanone	<0.0056		0.0093	0.0056	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
4-Methyl-2-pentanone (MIBK)	<0.0066		0.0093	0.0066	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Acetone	<0.016		0.037	0.016	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Benzene	<0.0012		0.0037	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Bromodichloromethane	<0.0012		0.0037	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Bromoform	<0.0022		0.0037	0.0022	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Bromomethane	<0.0046		0.0093	0.0046	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Carbon disulfide	<0.0017		0.0093	0.0017	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Carbon tetrachloride	<0.0013		0.0037	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Chlorobenzene	<0.0016		0.0037	0.0016	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Chloroethane	<0.0030		0.0093	0.0030	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Chloroform	<0.0027		0.0037	0.0027	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Chloromethane	<0.0018		0.0093	0.0018	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
cis-1,2-Dichloroethene	<0.0015		0.0037	0.0015	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
1,3-Dichloropropene, Total	<0.0018		0.0037	0.0018	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Dibromochloromethane	<0.0017		0.0037	0.0017	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Ethylbenzene	<0.0020		0.0037	0.0020	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Methyl tert-butyl ether	<0.0012		0.0037	0.0012	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Methylene Chloride	<0.0040		0.0093	0.0040	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Styrene	<0.0017		0.0037	0.0017	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Tetrachloroethene	<0.0021		0.0037	0.0021	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Toluene	<0.00075		0.0037	0.00075	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Xylenes, Total	<0.0013		0.0074	0.0013	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
trans-1,2-Dichloroethene	<0.0014		0.0037	0.0014	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Trichloroethene	<0.0010		0.0037	0.0010	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1
Vinyl chloride	<0.0015		0.0037	0.0015	mg/Kg	☼	09/20/24 18:05	09/24/24 06:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*	*09/20/24 18:05*	*09/24/24 06:02*	*1*
4-Bromofluorobenzene (Surr)	*118*		*75 - 131*	*09/20/24 18:05*	*09/24/24 06:02*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*09/20/24 18:05*	*09/24/24 06:02*	*1*
Toluene-d8 (Surr)	*110*		*75 - 124*	*09/20/24 18:05*	*09/24/24 06:02*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.017		0.085	0.017	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Acenaphthylene	<0.014		0.085	0.014	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Anthracene	<0.017		0.085	0.017	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Benzo[a]anthracene	**0.069**	**J**	0.085	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Benzo[a]pyrene	**0.088**		0.085	0.082	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Benzo[b]fluoranthene	**0.13**		0.085	0.081	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Benzo[g,h,i]perylene	**0.067**	**J**	0.085	0.018	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB112 (0-3)
Lab Sample ID: 500-257105-8
Date Collected: 09/19/24 14:42
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 75.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.048**	**J**	0.085	0.032	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Chrysene	**0.090**		0.085	0.022	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Dibenz(a,h)anthracene	<0.085		0.085	0.085	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Fluoranthene	**0.12**		0.085	0.020	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Fluorene	<0.025		0.085	0.025	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Indeno[1,2,3-cd]pyrene	<0.083		0.085	0.083	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Naphthalene	<0.015		0.085	0.015	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Phenanthrene	**0.039**	**J**	0.085	0.019	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Pyrene	**0.10**		0.085	0.023	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
1,2,4-Trichlorobenzene	<0.061		0.43	0.061	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
1,2-Dichlorobenzene	<0.035		0.43	0.035	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
1,3-Dichlorobenzene	<0.038		0.43	0.038	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
1,4-Dichlorobenzene	<0.040		0.43	0.040	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2,4,5-Trichlorophenol	<0.032		0.85	0.032	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2,4,6-Trichlorophenol	<0.029		0.85	0.029	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2,4-Dichlorophenol	<0.030		0.85	0.030	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2,4-Dimethylphenol	<0.19		0.85	0.19	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2,4-Dinitrophenol	<0.49		1.7	0.49	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2,4-Dinitrotoluene	<0.049		0.43	0.049	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2,6-Dinitrotoluene	<0.029		0.43	0.029	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2-Chloronaphthalene	<0.032		0.43	0.032	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2-Chlorophenol	<0.027		0.43	0.027	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2-Methylnaphthalene	<0.017		0.17	0.017	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2-Methylphenol	<0.045		0.43	0.045	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2-Nitroaniline	<0.046		0.43	0.046	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
2-Nitrophenol	<0.058		0.85	0.058	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
3,3'-Dichlorobenzidine	<0.070		0.43	0.070	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
3 & 4 Methylphenol	<0.062		0.43	0.062	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
3-Nitroaniline	<0.039		0.85	0.039	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
4,6-Dinitro-2-methylphenol	<0.48		1.7	0.48	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
4-Bromophenyl phenyl ether	<0.058		0.43	0.058	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
4-Chloro-3-methylphenol	<0.033		0.85	0.033	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
4-Chloroaniline	<0.89		1.7	0.89	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
4-Chlorophenyl phenyl ether	<0.11		0.43	0.11	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
4-Nitroaniline	<0.063		0.85	0.063	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
4-Nitrophenol	<0.32		1.7	0.32	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Bis(2-chloroethoxy)methane	<0.032		0.43	0.032	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Bis(2-chloroethyl)ether	<0.039		0.43	0.039	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
bis(chloroisopropyl) ether	<0.061		0.43	0.061	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Bis(2-ethylhexyl) phthalate	<0.33		0.43	0.33	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Butyl benzyl phthalate	<0.042		0.43	0.042	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Carbazole	<0.034		0.43	0.034	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Dibenzofuran	<0.030		0.43	0.030	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Diethyl phthalate	<0.039		0.43	0.039	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Dimethyl phthalate	<0.019		0.43	0.019	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Di-n-butyl phthalate	<0.027		0.43	0.027	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Di-n-octyl phthalate	<0.60		0.85	0.60	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Hexachlorobenzene	<0.016		0.17	0.016	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Hexachlorobutadiene	<0.048		0.43	0.048	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB112 (0-3)
Lab Sample ID: 500-257105-8
Date Collected: 09/19/24 14:42
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 75.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.90		1.7	0.90	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Hexachloroethane	<0.043		0.43	0.043	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Isophorone	<0.044		0.43	0.044	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Nitrobenzene	<0.027		0.085	0.027	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
N-Nitrosodi-n-propylamine	<0.017		0.17	0.017	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
N-Nitrosodiphenylamine	<0.051		0.43	0.051	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Pentachlorophenol	<0.21		1.7	0.21	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2
Phenol	<0.037		0.43	0.037	mg/Kg	☼	09/30/24 14:48	10/01/24 19:39	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*72*		*31 - 166*	*09/30/24 14:48*	*10/01/24 19:39*	*2*
Phenol-d5 (Surr)	*82*		*30 - 153*	*09/30/24 14:48*	*10/01/24 19:39*	*2*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*	*09/30/24 14:48*	*10/01/24 19:39*	*2*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*09/30/24 14:48*	*10/01/24 19:39*	*2*
2,4,6-Tribromophenol (Surr)	*72*		*31 - 143*	*09/30/24 14:48*	*10/01/24 19:39*	*2*
Terphenyl-d14 (Surr)	*78*		*42 - 157*	*09/30/24 14:48*	*10/01/24 19:39*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.021	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
4,4'-DDE	<0.011		0.021	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
4,4'-DDT	<0.010		0.021	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Aldrin	<0.015		0.021	0.015	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
alpha-BHC	<0.012		0.021	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
alpha-Chlordane	<0.011		0.021	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
beta-BHC	<0.017		0.021	0.017	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Chlordane (technical)	<0.040		0.084	0.040	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
delta-BHC	<0.010		0.021	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Dieldrin	<0.011		0.021	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Endosulfan I	<0.011		0.021	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Endosulfan II	<0.012		0.021	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Endosulfan sulfate	<0.012		0.021	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Endrin	<0.011		0.021	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Endrin aldehyde	<0.012		0.021	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Endrin ketone	<0.010		0.021	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
gamma-BHC (Lindane)	<0.010		0.021	0.010	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
gamma-Chlordane	<0.012		0.021	0.012	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Heptachlor	<0.011		0.021	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Heptachlor epoxide	<0.011		0.021	0.011	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Methoxychlor	<0.014		0.10	0.014	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10
Toxaphene	<0.084		0.21	0.084	mg/Kg	☼	09/26/24 17:03	10/08/24 18:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*33 - 148*	*09/26/24 17:03*	*10/08/24 18:46*	*10*
Tetrachloro-m-xylene	*92*		*30 - 121*	*09/26/24 17:03*	*10/08/24 18:46*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.021		0.021		mg/Kg	☼	09/26/24 17:03	10/10/24 12:43	1
PCB-1221	<0.021		0.021		mg/Kg	☼	09/26/24 17:03	10/10/24 12:43	1

Client Sample ID: SB112 (0-3)
Lab Sample ID: 500-257105-8

Date Collected: 09/19/24 14:42
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 75.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.021		0.021		mg/Kg	☼	09/26/24 17:03	10/10/24 12:43	1
PCB-1242	<0.021		0.021		mg/Kg	☼	09/26/24 17:03	10/10/24 12:43	1
PCB-1248	<0.021		0.021		mg/Kg	☼	09/26/24 17:03	10/10/24 12:43	1
PCB-1254	<0.021		0.021		mg/Kg	☼	09/26/24 17:03	10/10/24 12:43	1
PCB-1260	<0.021		0.021		mg/Kg	☼	09/26/24 17:03	10/10/24 12:43	1
Polychlorinated biphenyls, Total	<0.021		0.021		mg/Kg	☼	09/26/24 17:03	10/10/24 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*49 - 129*	*09/26/24 17:03*	*10/10/24 12:43*	*1*
DCB Decachlorobiphenyl	*75*		*37 - 121*	*09/26/24 17:03*	*10/10/24 12:43*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		26		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Antimony	<2.6		2.6		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Arsenic	**8.2**		1.3		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Barium	**100**		1.3		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Beryllium	**0.72**		0.53		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Cadmium	**0.28**		0.26		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Calcium	**15000**		26		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Chromium	**20**		1.3		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Cobalt	**11**		0.66		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Copper	**25**		1.3		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Iron	**21000**		26		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Lead	**38**		0.66		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Magnesium	**8700**		13		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Manganese	**440**	**B**	1.3		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Nickel	**28**		1.3		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Potassium	**2400**		66		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Selenium	<1.3		1.3		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Silver	<0.66		0.66		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Sodium	<130		130		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Thallium	**2.4**		1.3		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Vanadium	**27**		0.66		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1
Zinc	**93**		2.6		mg/Kg	☼	10/03/24 17:31	10/08/24 17:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.047**		0.020		mg/Kg	☼	10/03/24 17:40	10/04/24 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28		mg/Kg	☼	09/30/24 12:42	09/30/24 16:08	1
pH (SW846 9045D)	**7.29**		0.20		SU			09/26/24 19:42	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 787148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	5035	
500-257105-2	SB109 (0-3)	Total/NA	Solid	5035	
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	5035	
500-257105-4	SB110 (0-3)	Total/NA	Solid	5035	
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	5035	
500-257105-6	SB111 (0-3)	Total/NA	Solid	5035	
500-257105-7	SB111 (3-5)	Total/NA	Solid	5035	
500-257105-8	SB112 (0-3)	Total/NA	Solid	5035	

Analysis Batch: 787398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-6	SB111 (0-3)	Total/NA	Solid	8260D	787148
500-257105-7	SB111 (3-5)	Total/NA	Solid	8260D	787148
500-257105-8	SB112 (0-3)	Total/NA	Solid	8260D	787148
MB 500-787398/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-787398/27	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-787398/28	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 787413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	8260D	787148
500-257105-2	SB109 (0-3)	Total/NA	Solid	8260D	787148
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	8260D	787148
500-257105-4	SB110 (0-3)	Total/NA	Solid	8260D	787148
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	8260D	787148
MB 500-787413/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-787413/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-787413/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 788382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	3546	
500-257105-2	SB109 (0-3)	Total/NA	Solid	3546	
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	3546	
500-257105-4	SB110 (0-3)	Total/NA	Solid	3546	
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	3546	
500-257105-6	SB111 (0-3)	Total/NA	Solid	3546	
500-257105-7	SB111 (3-5)	Total/NA	Solid	3546	
500-257105-8	SB112 (0-3)	Total/NA	Solid	3546	
MB 500-788382/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-788382/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 788484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	8270E	788382
500-257105-2	SB109 (0-3)	Total/NA	Solid	8270E	788382
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	8270E	788382
500-257105-4	SB110 (0-3)	Total/NA	Solid	8270E	788382
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	8270E	788382

GC/MS Semi VOA (Continued)

Analysis Batch: 788484 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-6	SB111 (0-3)	Total/NA	Solid	8270E	788382
500-257105-7	SB111 (3-5)	Total/NA	Solid	8270E	788382
500-257105-8	SB112 (0-3)	Total/NA	Solid	8270E	788382
MB 500-788382/1-A	Method Blank	Total/NA	Solid	8270E	788382
LCS 500-788382/2-A	Lab Control Sample	Total/NA	Solid	8270E	788382

GC Semi VOA

Prep Batch: 787965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	3541	
500-257105-2	SB109 (0-3)	Total/NA	Solid	3541	
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	3541	
500-257105-4	SB110 (0-3)	Total/NA	Solid	3541	
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	3541	
500-257105-6	SB111 (0-3)	Total/NA	Solid	3541	
500-257105-7	SB111 (3-5)	Total/NA	Solid	3541	
500-257105-8	SB112 (0-3)	Total/NA	Solid	3541	
MB 500-787965/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-787965/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-787965/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 789330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-787965/1-A	Method Blank	Total/NA	Solid	8082A	787965
LCS 500-787965/3-A	Lab Control Sample	Total/NA	Solid	8082A	787965

Analysis Batch: 789581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	8081B	787965
500-257105-2	SB109 (0-3)	Total/NA	Solid	8081B	787965
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	8081B	787965
500-257105-4	SB110 (0-3)	Total/NA	Solid	8081B	787965
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	8081B	787965
500-257105-6	SB111 (0-3)	Total/NA	Solid	8081B	787965
500-257105-7	SB111 (3-5)	Total/NA	Solid	8081B	787965
500-257105-8	SB112 (0-3)	Total/NA	Solid	8081B	787965
MB 500-787965/1-A	Method Blank	Total/NA	Solid	8081B	787965
LCS 500-787965/2-A	Lab Control Sample	Total/NA	Solid	8081B	787965

Analysis Batch: 789911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	8082A	787965
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	8082A	787965
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	8082A	787965
500-257105-6	SB111 (0-3)	Total/NA	Solid	8082A	787965
500-257105-7	SB111 (3-5)	Total/NA	Solid	8082A	787965
500-257105-8	SB112 (0-3)	Total/NA	Solid	8082A	787965

GC Semi VOA

Analysis Batch: 790319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-2	SB109 (0-3)	Total/NA	Solid	8082A	787965
500-257105-4	SB110 (0-3)	Total/NA	Solid	8082A	787965

Metals

Prep Batch: 788964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	7471B	
500-257105-2	SB109 (0-3)	Total/NA	Solid	7471B	
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	7471B	
500-257105-4	SB110 (0-3)	Total/NA	Solid	7471B	
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	7471B	
500-257105-6	SB111 (0-3)	Total/NA	Solid	7471B	
500-257105-7	SB111 (3-5)	Total/NA	Solid	7471B	
500-257105-8	SB112 (0-3)	Total/NA	Solid	7471B	
MB 500-788964/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-788964/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 788990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	3050B	
500-257105-2	SB109 (0-3)	Total/NA	Solid	3050B	
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	3050B	
500-257105-4	SB110 (0-3)	Total/NA	Solid	3050B	
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	3050B	
500-257105-6	SB111 (0-3)	Total/NA	Solid	3050B	
500-257105-7	SB111 (3-5)	Total/NA	Solid	3050B	
500-257105-8	SB112 (0-3)	Total/NA	Solid	3050B	
MB 500-788990/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-788990/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-257105-1 MS	SB108 (0-3)	Total/NA	Solid	3050B	
500-257105-1 MSD	SB108 (0-3)	Total/NA	Solid	3050B	
500-257105-1 DU	SB108 (0-3)	Total/NA	Solid	3050B	

Analysis Batch: 789110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	7471B	788964
500-257105-2	SB109 (0-3)	Total/NA	Solid	7471B	788964
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	7471B	788964
500-257105-4	SB110 (0-3)	Total/NA	Solid	7471B	788964
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	7471B	788964
500-257105-6	SB111 (0-3)	Total/NA	Solid	7471B	788964
500-257105-7	SB111 (3-5)	Total/NA	Solid	7471B	788964
500-257105-8	SB112 (0-3)	Total/NA	Solid	7471B	788964
MB 500-788964/12-A	Method Blank	Total/NA	Solid	7471B	788964
LCS 500-788964/13-A	Lab Control Sample	Total/NA	Solid	7471B	788964

Analysis Batch: 789732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-2	SB109 (0-3)	Total/NA	Solid	6010D	788990

Metals (Continued)

Analysis Batch: 789732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	6010D	788990
500-257105-4	SB110 (0-3)	Total/NA	Solid	6010D	788990
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	6010D	788990
500-257105-6	SB111 (0-3)	Total/NA	Solid	6010D	788990
500-257105-7	SB111 (3-5)	Total/NA	Solid	6010D	788990
500-257105-8	SB112 (0-3)	Total/NA	Solid	6010D	788990
MB 500-788990/1-A	Method Blank	Total/NA	Solid	6010D	788990
LCS 500-788990/2-A	Lab Control Sample	Total/NA	Solid	6010D	788990
500-257105-1 MS	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-1 MSD	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-1 DU	SB108 (0-3)	Total/NA	Solid	6010D	788990

Analysis Batch: 789835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-1	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-1 MS	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-1 MS	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-1 MSD	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-1 MSD	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-1 DU	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-1 DU	SB108 (0-3)	Total/NA	Solid	6010D	788990

Analysis Batch: 789922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-2	SB109 (0-3)	Total/NA	Solid	6010D	788990
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	6010D	788990
500-257105-4	SB110 (0-3)	Total/NA	Solid	6010D	788990
500-257105-1 MS	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-1 MSD	SB108 (0-3)	Total/NA	Solid	6010D	788990
500-257105-1 DU	SB108 (0-3)	Total/NA	Solid	6010D	788990

Analysis Batch: 789926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-2	SB109 (0-3)	Total/NA	Solid	6010D	788990
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	6010D	788990
500-257105-6	SB111 (0-3)	Total/NA	Solid	6010D	788990
500-257105-7	SB111 (3-5)	Total/NA	Solid	6010D	788990

Analysis Batch: 790004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-2	SB109 (0-3)	Total/NA	Solid	6010D	788990
500-257105-4	SB110 (0-3)	Total/NA	Solid	6010D	788990

General Chemistry

Prep Batch: 628030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-6	SB111 (0-3)	Total/NA	Solid	9030B	
MB 240-628030/1-A	Method Blank	Total/NA	Solid	9030B	

General Chemistry (Continued)

Prep Batch: 628030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-628030/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 628058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-6	SB111 (0-3)	Total/NA	Solid	9034	628030
MB 240-628030/1-A	Method Blank	Total/NA	Solid	9034	628030
LCS 240-628030/2-A	Lab Control Sample	Total/NA	Solid	9034	628030

Analysis Batch: 787855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	Moisture	
500-257105-2	SB109 (0-3)	Total/NA	Solid	Moisture	
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	Moisture	
500-257105-4	SB110 (0-3)	Total/NA	Solid	Moisture	
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	Moisture	

Analysis Batch: 787861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-6	SB111 (0-3)	Total/NA	Solid	Moisture	
500-257105-7	SB111 (3-5)	Total/NA	Solid	Moisture	
500-257105-8	SB112 (0-3)	Total/NA	Solid	Moisture	
500-257105-6 DU	SB111 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 788055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	9045D	
500-257105-2	SB109 (0-3)	Total/NA	Solid	9045D	
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	9045D	
500-257105-4	SB110 (0-3)	Total/NA	Solid	9045D	
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	9045D	
500-257105-6	SB111 (0-3)	Total/NA	Solid	9045D	
500-257105-7	SB111 (3-5)	Total/NA	Solid	9045D	
500-257105-8	SB112 (0-3)	Total/NA	Solid	9045D	
LCS 500-788055/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-788055/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 788339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	9010C	
500-257105-2	SB109 (0-3)	Total/NA	Solid	9010C	
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	9010C	
500-257105-4	SB110 (0-3)	Total/NA	Solid	9010C	
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	9010C	
500-257105-6	SB111 (0-3)	Total/NA	Solid	9010C	
500-257105-7	SB111 (3-5)	Total/NA	Solid	9010C	
500-257105-8	SB112 (0-3)	Total/NA	Solid	9010C	
MB 500-788339/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-788339/2-A	Lab Control Sample	Total/NA	Solid	9010C	

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

General Chemistry

Analysis Batch: 788444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	Total/NA	Solid	9012B	788339
500-257105-2	SB109 (0-3)	Total/NA	Solid	9012B	788339
500-257105-3	SB109 (5-7.5)	Total/NA	Solid	9012B	788339
500-257105-4	SB110 (0-3)	Total/NA	Solid	9012B	788339
500-257105-5	SB110 (5-7.5)	Total/NA	Solid	9012B	788339
500-257105-6	SB111 (0-3)	Total/NA	Solid	9012B	788339
500-257105-7	SB111 (3-5)	Total/NA	Solid	9012B	788339
500-257105-8	SB112 (0-3)	Total/NA	Solid	9012B	788339
MB 500-788339/1-A	Method Blank	Total/NA	Solid	9012B	788339
LCS 500-788339/2-A	Lab Control Sample	Total/NA	Solid	9012B	788339

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-257105-1	SB108 (0-3)	100	117	79	114
500-257105-2	SB109 (0-3)	98	135 S1+	92	120
500-257105-3	SB109 (5-7.5)	104	140 *3 S1+	108	148 S1+
500-257105-4	SB110 (0-3)	91	141 S1+	95	117
500-257105-5	SB110 (5-7.5)	92	141 S1+	95	119
500-257105-6	SB111 (0-3)	86	113	95	107
500-257105-7	SB111 (3-5)	86	118	93	107
500-257105-8	SB112 (0-3)	88	118	95	110
LCS 500-787398/27	Lab Control Sample	78	102	87	106
LCS 500-787413/4	Lab Control Sample	91	95	95	104
LCSD 500-787398/28	Lab Control Sample Dup	76	101	87	106
LCSD 500-787413/5	Lab Control Sample Dup	90	97	93	102
MB 500-787398/6	Method Blank	79	108	89	105
MB 500-787413/7	Method Blank	93	101	96	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-257105-1	SB108 (0-3)	38	65	65	67	7 S1-	78
500-257105-2	SB109 (0-3)	39	44	45	42 S1-	6 S1-	44
500-257105-3	SB109 (5-7.5)	49	55	65	66	37	61
500-257105-4	SB110 (0-3)	59	66	66	71	43	85
500-257105-5	SB110 (5-7.5)	59	64	69	68	64	73
500-257105-6	SB111 (0-3)	69	75	76	72	65	74
500-257105-7	SB111 (3-5)	62	67	72	69	63	70
500-257105-8	SB112 (0-3)	72	82	83	81	72	78
LCS 500-788382/2-A	Lab Control Sample	84	86	86	78	82	83
MB 500-788382/1-A	Method Blank	88	90	94	83	88	88

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (33-148)	DCBP2 (33-148)	TCX1 (30-121)	TCX2 (30-121)
500-257105-1	SB108 (0-3)		469 S1+		91
500-257105-2	SB109 (0-3)		118		64
500-257105-3	SB109 (5-7.5)		196 S1+		108
500-257105-4	SB110 (0-3)	88		66	
500-257105-5	SB110 (5-7.5)		92		177 S1+
500-257105-6	SB111 (0-3)	75		75	
500-257105-7	SB111 (3-5)	92		79	
500-257105-8	SB112 (0-3)	94		92	
LCS 500-787965/2-A	Lab Control Sample	94	100	78	80
MB 500-787965/1-A	Method Blank	92	95	46	46

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-257105-1	SB108 (0-3)	61	78
500-257105-2	SB109 (0-3)	88	126 S1+
500-257105-3	SB109 (5-7.5)	65	69
500-257105-4	SB110 (0-3)	96	133 S1+
500-257105-5	SB110 (5-7.5)	48 S1-	44
500-257105-6	SB111 (0-3)	69	84
500-257105-7	SB111 (3-5)	66	81
500-257105-8	SB112 (0-3)	63	75
LCS 500-787965/3-A	Lab Control Sample	81	108
MB 500-787965/1-A	Method Blank	47 S1-	105

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257105-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-787398/6
Matrix: Solid
Analysis Batch: 787398

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/24/24 01:09	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/24/24 01:09	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/24/24 01:09	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/24/24 01:09	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/24/24 01:09	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/24/24 01:09	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/24/24 01:09	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/24/24 01:09	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/24/24 01:09	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/24/24 01:09	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/24/24 01:09	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/24/24 01:09	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/24/24 01:09	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/24/24 01:09	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/24/24 01:09	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/24/24 01:09	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/24/24 01:09	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/24/24 01:09	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/24/24 01:09	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/24/24 01:09	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/24/24 01:09	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/24/24 01:09	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/24/24 01:09	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/24/24 01:09	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/24/24 01:09	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/24/24 01:09	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/24/24 01:09	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/24/24 01:09	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/24/24 01:09	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/24/24 01:09	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/24/24 01:09	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/24/24 01:09	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/24/24 01:09	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/24/24 01:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*70 - 134*		*09/24/24 01:09*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*		*09/24/24 01:09*	*1*
Dibromofluoromethane	*89*		*75 - 126*		*09/24/24 01:09*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*		*09/24/24 01:09*	*1*

Lab Sample ID: LCS 500-787398/27
Matrix: Solid
Analysis Batch: 787398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0484		mg/Kg		97	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0436		mg/Kg		87	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-787398/27
Matrix: Solid
Analysis Batch: 787398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0433		mg/Kg		87	70 - 125
1,1-Dichloroethane	0.0500	0.0466		mg/Kg		93	70 - 125
1,1-Dichloroethene	0.0500	0.0494		mg/Kg		99	70 - 120
1,2-Dichloroethane	0.0500	0.0380		mg/Kg		76	70 - 130
1,2-Dichloropropane	0.0500	0.0487		mg/Kg		97	70 - 125
2-Butanone (MEK)	0.0500	0.0313		mg/Kg		63	47 - 138
2-Hexanone	0.0500	0.0336		mg/Kg		67	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0325		mg/Kg		65	50 - 148
Acetone	0.0500	0.0238		mg/Kg		48	40 - 150
Benzene	0.0500	0.0566		mg/Kg		113	70 - 125
Bromodichloromethane	0.0500	0.0468		mg/Kg		94	67 - 129
Bromoform	0.0500	0.0391		mg/Kg		78	68 - 136
Bromomethane	0.0500	0.0535		mg/Kg		107	70 - 130
Carbon disulfide	0.0500	0.0582		mg/Kg		116	70 - 129
Carbon tetrachloride	0.0500	0.0492		mg/Kg		98	75 - 125
Chlorobenzene	0.0500	0.0510		mg/Kg		102	50 - 150
Chloroethane	0.0500	0.0555		mg/Kg		111	75 - 125
Chloroform	0.0500	0.0455		mg/Kg		91	57 - 135
Chloromethane	0.0500	0.0458		mg/Kg		92	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0469		mg/Kg		94	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0525		mg/Kg		105	70 - 125
Dibromochloromethane	0.0500	0.0410		mg/Kg		82	69 - 125
Ethylbenzene	0.0500	0.0547		mg/Kg		109	61 - 136
Methyl tert-butyl ether	0.0500	0.0420		mg/Kg		84	50 - 140
Methylene Chloride	0.0500	0.0403		mg/Kg		81	70 - 126
Styrene	0.0500	0.0532		mg/Kg		106	70 - 125
Tetrachloroethene	0.0500	0.0561		mg/Kg		112	70 - 124
Toluene	0.0500	0.0565		mg/Kg		113	70 - 125
Xylenes, Total	0.100	0.110		mg/Kg		110	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0489		mg/Kg		98	70 - 125
Trichloroethene	0.0500	0.0490		mg/Kg		98	70 - 125
Vinyl chloride	0.0500	0.0565		mg/Kg		113	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*70 - 134*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*
Dibromofluoromethane	*87*		*75 - 126*
Toluene-d8 (Surr)	*106*		*75 - 124*

Lab Sample ID: LCSD 500-787398/28
Matrix: Solid
Analysis Batch: 787398

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0464		mg/Kg		93	70 - 128	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0418		mg/Kg		84	70 - 122	4	30
1,1,2-Trichloroethane	0.0500	0.0408		mg/Kg		82	70 - 125	6	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-787398/28
Matrix: Solid
Analysis Batch: 787398

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0436		mg/Kg		87	70 - 125	7	30
1,1-Dichloroethene			0.0500	0.0468		mg/Kg		94	70 - 120	5	30
1,2-Dichloroethane			0.0500	0.0356		mg/Kg		71	70 - 130	7	30
1,2-Dichloropropane			0.0500	0.0462		mg/Kg		92	70 - 125	5	30
2-Butanone (MEK)			0.0500	0.0303		mg/Kg		61	47 - 138	3	30
2-Hexanone			0.0500	0.0327		mg/Kg		65	48 - 146	3	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0333		mg/Kg		67	50 - 148	2	30
Acetone			0.0500	0.0271		mg/Kg		54	40 - 150	13	30
Benzene			0.0500	0.0536		mg/Kg		107	70 - 125	5	30
Bromodichloromethane			0.0500	0.0439		mg/Kg		88	67 - 129	6	30
Bromoform			0.0500	0.0378		mg/Kg		76	68 - 136	3	30
Bromomethane			0.0500	0.0502		mg/Kg		100	70 - 130	6	30
Carbon disulfide			0.0500	0.0544		mg/Kg		109	70 - 129	7	30
Carbon tetrachloride			0.0500	0.0462		mg/Kg		92	75 - 125	6	30
Chlorobenzene			0.0500	0.0473		mg/Kg		95	50 - 150	7	30
Chloroethane			0.0500	0.0510		mg/Kg		102	75 - 125	8	30
Chloroform			0.0500	0.0422		mg/Kg		84	57 - 135	8	30
Chloromethane			0.0500	0.0414		mg/Kg		83	70 - 125	10	30
cis-1,2-Dichloroethene			0.0500	0.0423		mg/Kg		85	70 - 125	10	30
cis-1,3-Dichloropropene			0.0500	0.0508		mg/Kg		102	70 - 125	3	30
Dibromochloromethane			0.0500	0.0396		mg/Kg		79	69 - 125	3	30
Ethylbenzene			0.0500	0.0524		mg/Kg		105	61 - 136	4	30
Methyl tert-butyl ether			0.0500	0.0414		mg/Kg		83	50 - 140	1	30
Methylene Chloride			0.0500	0.0395		mg/Kg		79	70 - 126	2	30
Styrene			0.0500	0.0509		mg/Kg		102	70 - 125	4	30
Tetrachloroethene			0.0500	0.0534		mg/Kg		107	70 - 124	5	30
Toluene			0.0500	0.0536		mg/Kg		107	70 - 125	5	30
Xylenes, Total			0.100	0.104		mg/Kg		104	53 - 147	6	30
trans-1,2-Dichloroethene			0.0500	0.0446		mg/Kg		89	70 - 125	10	30
trans-1,3-Dichloropropene			0.0500	0.0466		mg/Kg		93	70 - 125	5	30
Trichloroethene			0.0500	0.0456		mg/Kg		91	70 - 125	7	30
Vinyl chloride			0.0500	0.0550		mg/Kg		110	70 - 125	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*76*		*70 - 134*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*
Dibromofluoromethane	*87*		*75 - 126*
Toluene-d8 (Surr)	*106*		*75 - 124*

Lab Sample ID: MB 500-787413/7
Matrix: Solid
Analysis Batch: 787413

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/24/24 11:06	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/24/24 11:06	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/24/24 11:06	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/24/24 11:06	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-787413/7
Matrix: Solid
Analysis Batch: 787413

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/24/24 11:06	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/24/24 11:06	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/24/24 11:06	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/24/24 11:06	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/24/24 11:06	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/24/24 11:06	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/24/24 11:06	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/24/24 11:06	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/24/24 11:06	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/24/24 11:06	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/24/24 11:06	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/24/24 11:06	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/24/24 11:06	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/24/24 11:06	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/24/24 11:06	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/24/24 11:06	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/24/24 11:06	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/24/24 11:06	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/24/24 11:06	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/24/24 11:06	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/24/24 11:06	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/24/24 11:06	1
Methylene Chloride	0.00329	J	0.0050	0.0021	mg/Kg			09/24/24 11:06	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/24/24 11:06	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/24/24 11:06	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/24/24 11:06	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/24/24 11:06	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/24/24 11:06	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/24/24 11:06	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/24/24 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*		*09/24/24 11:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*		*09/24/24 11:06*	*1*
Dibromofluoromethane	*96*		*75 - 126*		*09/24/24 11:06*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*		*09/24/24 11:06*	*1*

Lab Sample ID: LCS 500-787413/4
Matrix: Solid
Analysis Batch: 787413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0401		mg/Kg		80	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0468		mg/Kg		94	70 - 122
1,1,2-Trichloroethane	0.0500	0.0448		mg/Kg		90	70 - 125
1,1-Dichloroethane	0.0500	0.0447		mg/Kg		89	70 - 125
1,1-Dichloroethene	0.0500	0.0443		mg/Kg		89	70 - 120
1,2-Dichloroethane	0.0500	0.0387		mg/Kg		77	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-787413/4
Matrix: Solid
Analysis Batch: 787413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125
2-Butanone (MEK)	0.0500	0.0464		mg/Kg		93	47 - 138
2-Hexanone	0.0500	0.0528		mg/Kg		106	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0536		mg/Kg		107	50 - 148
Acetone	0.0500	0.0428		mg/Kg		86	40 - 150
Benzene	0.0500	0.0452		mg/Kg		90	70 - 125
Bromodichloromethane	0.0500	0.0434		mg/Kg		87	67 - 129
Bromoform	0.0500	0.0420		mg/Kg		84	68 - 136
Bromomethane	0.0500	0.0440		mg/Kg		88	70 - 130
Carbon disulfide	0.0500	0.0461		mg/Kg		92	70 - 129
Carbon tetrachloride	0.0500	0.0406		mg/Kg		81	75 - 125
Chlorobenzene	0.0500	0.0442		mg/Kg		88	50 - 150
Chloroethane	0.0500	0.0488		mg/Kg		98	75 - 125
Chloroform	0.0500	0.0409		mg/Kg		82	57 - 135
Chloromethane	0.0500	0.0472		mg/Kg		94	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0430		mg/Kg		86	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0466		mg/Kg		93	70 - 125
Dibromochloromethane	0.0500	0.0435		mg/Kg		87	69 - 125
Ethylbenzene	0.0500	0.0469		mg/Kg		94	61 - 136
Methyl tert-butyl ether	0.0500	0.0437		mg/Kg		87	50 - 140
Methylene Chloride	0.0500	0.0408		mg/Kg		82	70 - 126
Styrene	0.0500	0.0483		mg/Kg		97	70 - 125
Tetrachloroethene	0.0500	0.0418		mg/Kg		84	70 - 124
Toluene	0.0500	0.0454		mg/Kg		91	70 - 125
Xylenes, Total	0.100	0.0900		mg/Kg		90	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0444		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0420		mg/Kg		84	70 - 125
Vinyl chloride	0.0500	0.0431		mg/Kg		86	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*
Dibromofluoromethane	*95*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 124*

Lab Sample ID: LCSD 500-787413/5
Matrix: Solid
Analysis Batch: 787413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0401		mg/Kg		80	70 - 128	0	30
1,1,2,2-Tetrachloroethane	0.0500	0.0465		mg/Kg		93	70 - 122	1	30
1,1,2-Trichloroethane	0.0500	0.0437		mg/Kg		87	70 - 125	2	30
1,1-Dichloroethane	0.0500	0.0438		mg/Kg		88	70 - 125	2	30
1,1-Dichloroethene	0.0500	0.0442		mg/Kg		88	70 - 120	0	30
1,2-Dichloroethane	0.0500	0.0387		mg/Kg		77	70 - 130	0	30
1,2-Dichloropropane	0.0500	0.0469		mg/Kg		94	70 - 125	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-787413/5
Matrix: Solid
Analysis Batch: 787413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			0.0500	0.0473		mg/Kg		95	47 - 138	2	30
2-Hexanone			0.0500	0.0525		mg/Kg		105	48 - 146	1	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0540		mg/Kg		108	50 - 148	1	30
Acetone			0.0500	0.0405		mg/Kg		81	40 - 150	5	30
Benzene			0.0500	0.0455		mg/Kg		91	70 - 125	1	30
Bromodichloromethane			0.0500	0.0431		mg/Kg		86	67 - 129	1	30
Bromoform			0.0500	0.0422		mg/Kg		84	68 - 136	0	30
Bromomethane			0.0500	0.0432		mg/Kg		86	70 - 130	2	30
Carbon disulfide			0.0500	0.0462		mg/Kg		92	70 - 129	0	30
Carbon tetrachloride			0.0500	0.0397		mg/Kg		79	75 - 125	2	30
Chlorobenzene			0.0500	0.0437		mg/Kg		87	50 - 150	1	30
Chloroethane			0.0500	0.0458		mg/Kg		92	75 - 125	6	30
Chloroform			0.0500	0.0427		mg/Kg		85	57 - 135	4	30
Chloromethane			0.0500	0.0455		mg/Kg		91	70 - 125	4	30
cis-1,2-Dichloroethene			0.0500	0.0441		mg/Kg		88	70 - 125	3	30
cis-1,3-Dichloropropene			0.0500	0.0453		mg/Kg		91	70 - 125	3	30
Dibromochloromethane			0.0500	0.0428		mg/Kg		86	69 - 125	2	30
Ethylbenzene			0.0500	0.0462		mg/Kg		92	61 - 136	2	30
Methyl tert-butyl ether			0.0500	0.0439		mg/Kg		88	50 - 140	0	30
Methylene Chloride			0.0500	0.0412		mg/Kg		82	70 - 126	1	30
Styrene			0.0500	0.0468		mg/Kg		94	70 - 125	3	30
Tetrachloroethene			0.0500	0.0411		mg/Kg		82	70 - 124	2	30
Toluene			0.0500	0.0463		mg/Kg		93	70 - 125	2	30
Xylenes, Total			0.100	0.0885		mg/Kg		88	53 - 147	2	30
trans-1,2-Dichloroethene			0.0500	0.0451		mg/Kg		90	70 - 125	1	30
trans-1,3-Dichloropropene			0.0500	0.0437		mg/Kg		87	70 - 125	2	30
Trichloroethene			0.0500	0.0408		mg/Kg		82	70 - 125	3	30
Vinyl chloride			0.0500	0.0411		mg/Kg		82	70 - 125	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*
Dibromofluoromethane	*93*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 124*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-788382/1-A
Matrix: Solid
Analysis Batch: 788484

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		09/30/24 14:48	10/01/24 11:48	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-788382/1-A
Matrix: Solid
Analysis Batch: 788484

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Carbazole	<0.013		0.17	0.013	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		09/30/24 14:48	10/01/24 11:48	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257105-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-788382/1-A
Matrix: Solid
Analysis Batch: 788484

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Isophorone	<0.017		0.17	0.017	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		09/30/24 14:48	10/01/24 11:48	1
Phenol	<0.014		0.17	0.014	mg/Kg		09/30/24 14:48	10/01/24 11:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*88*		*31 - 166*	*09/30/24 14:48*	*10/01/24 11:48*	*1*
Phenol-d5 (Surr)	*90*		*30 - 153*	*09/30/24 14:48*	*10/01/24 11:48*	*1*
Nitrobenzene-d5 (Surr)	*94*		*37 - 147*	*09/30/24 14:48*	*10/01/24 11:48*	*1*
2-Fluorobiphenyl (Surr)	*83*		*43 - 145*	*09/30/24 14:48*	*10/01/24 11:48*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*31 - 143*	*09/30/24 14:48*	*10/01/24 11:48*	*1*
Terphenyl-d14 (Surr)	*88*		*42 - 157*	*09/30/24 14:48*	*10/01/24 11:48*	*1*

Lab Sample ID: LCS 500-788382/2-A
Matrix: Solid
Analysis Batch: 788484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.74		mg/Kg		82	63 - 109
Acenaphthylene	3.33	2.93		mg/Kg		88	61 - 115
Anthracene	3.33	2.79		mg/Kg		84	68 - 120
Benzo[a]anthracene	3.33	2.66		mg/Kg		80	70 - 121
Benzo[a]pyrene	3.33	2.85		mg/Kg		86	73 - 132
Benzo[b]fluoranthene	3.33	3.04		mg/Kg		91	68 - 123
Benzo[g,h,i]perylene	3.33	2.83		mg/Kg		85	65 - 126
Benzo[k]fluoranthene	3.33	2.86		mg/Kg		86	64 - 128
Chrysene	3.33	2.70		mg/Kg		81	70 - 123
Dibenz(a,h)anthracene	3.33	2.82		mg/Kg		85	66 - 125
Fluoranthene	3.33	2.69		mg/Kg		81	66 - 123
Fluorene	3.33	2.70		mg/Kg		81	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.33		mg/Kg		100	66 - 131
Naphthalene	3.33	2.55		mg/Kg		77	54 - 98
Phenanthrene	3.33	2.73		mg/Kg		82	65 - 115
Pyrene	3.33	2.93		mg/Kg		88	71 - 128
1,2,4-Trichlorobenzene	3.33	2.19		mg/Kg		66	49 - 100
1,2-Dichlorobenzene	3.33	2.44		mg/Kg		73	47 - 94
1,3-Dichlorobenzene	3.33	2.43		mg/Kg		73	47 - 92
1,4-Dichlorobenzene	3.33	2.43		mg/Kg		73	46 - 92
2,4,5-Trichlorophenol	3.33	2.58		mg/Kg		77	48 - 121
2,4,6-Trichlorophenol	3.33	2.56		mg/Kg		77	50 - 121
2,4-Dichlorophenol	3.33	2.45		mg/Kg		73	51 - 109
2,4-Dimethylphenol	3.33	2.80		mg/Kg		84	48 - 93
2,4-Dinitrophenol	6.67	2.53		mg/Kg		38	10 - 130
2,4-Dinitrotoluene	3.33	2.79		mg/Kg		84	65 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-788382/2-A
Matrix: Solid
Analysis Batch: 788484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	3.33	2.64		mg/Kg		79	66 - 117
2-Chloronaphthalene	3.33	2.64		mg/Kg		79	60 - 107
2-Chlorophenol	3.33	2.69		mg/Kg		81	50 - 102
2-Methylnaphthalene	3.33	2.19		mg/Kg		66	58 - 103
2-Methylphenol	3.33	2.77		mg/Kg		83	50 - 104
2-Nitroaniline	3.33	3.50		mg/Kg		105	61 - 126
2-Nitrophenol	3.33	2.48		mg/Kg		75	41 - 114
3,3'-Dichlorobenzidine	3.33	2.51		mg/Kg		75	36 - 131
3 & 4 Methylphenol	3.33	2.77		mg/Kg		83	49 - 109
3-Nitroaniline	3.33	2.64		mg/Kg		79	44 - 124
4,6-Dinitro-2-methylphenol	6.67	3.85		mg/Kg		58	36 - 138
4-Bromophenyl phenyl ether	3.33	2.78		mg/Kg		83	57 - 124
4-Chloro-3-methylphenol	3.33	2.77		mg/Kg		83	57 - 113
4-Chloroaniline	3.33	2.50		mg/Kg		75	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.57		mg/Kg		77	60 - 112
4-Nitroaniline	3.33	2.61		mg/Kg		78	60 - 115
4-Nitrophenol	6.67	5.66		mg/Kg		85	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.73		mg/Kg		82	54 - 102
Bis(2-chloroethyl)ether	3.33	2.84		mg/Kg		85	49 - 99
bis(chloroisopropyl) ether	3.33	3.05		mg/Kg		91	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.12		mg/Kg		94	70 - 139
Butyl benzyl phthalate	3.33	3.17		mg/Kg		95	65 - 140
Carbazole	3.33	2.74		mg/Kg		82	68 - 120
Dibenzofuran	3.33	2.67		mg/Kg		80	64 - 112
Diethyl phthalate	3.33	2.99		mg/Kg		90	66 - 115
Dimethyl phthalate	3.33	2.78		mg/Kg		83	65 - 114
Di-n-butyl phthalate	3.33	3.06		mg/Kg		92	69 - 125
Di-n-octyl phthalate	3.33	2.86		mg/Kg		86	61 - 131
Hexachlorobenzene	3.33	2.93		mg/Kg		88	52 - 126
Hexachlorobutadiene	3.33	2.34		mg/Kg		70	42 - 103
Hexachlorocyclopentadiene	3.33	1.81		mg/Kg		54	10 - 100
Hexachloroethane	3.33	2.79		mg/Kg		84	45 - 95
Isophorone	3.33	2.84		mg/Kg		85	47 - 108
Nitrobenzene	3.33	2.94		mg/Kg		88	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.98		mg/Kg		90	48 - 110
N-Nitrosodiphenylamine	3.33	2.79		mg/Kg		84	67 - 112
Pentachlorophenol	6.67	4.94		mg/Kg		74	32 - 128
Phenol	3.33	2.68		mg/Kg		80	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*84*		*31 - 166*
Phenol-d5 (Surr)	*86*		*30 - 153*
Nitrobenzene-d5 (Surr)	*86*		*37 - 147*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*82*		*31 - 143*
Terphenyl-d14 (Surr)	*83*		*42 - 157*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-787965/1-A
Matrix: Solid
Analysis Batch: 789581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/26/24 17:03	10/08/24 13:43	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/26/24 17:03	10/08/24 13:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*33 - 148*	*09/26/24 17:03*	*10/08/24 13:43*	*1*
DCB Decachlorobiphenyl	*95*		*33 - 148*	*09/26/24 17:03*	*10/08/24 13:43*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-787965/1-A
Matrix: Solid
Analysis Batch: 789581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787965

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	46		30 - 121	09/26/24 17:03	10/08/24 13:43	1
Tetrachloro-m-xylene	46		30 - 121	09/26/24 17:03	10/08/24 13:43	1

Lab Sample ID: LCS 500-787965/2-A
Matrix: Solid
Analysis Batch: 789581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0128		mg/Kg		96	47 - 137
4,4'-DDD	0.0133	0.0128		mg/Kg		96	47 - 137
4,4'-DDE	0.0133	0.0133		mg/Kg		100	50 - 130
4,4'-DDE	0.0133	0.0134		mg/Kg		100	50 - 130
4,4'-DDT	0.0133	0.0147		mg/Kg		110	46 - 143
4,4'-DDT	0.0133	0.0148		mg/Kg		111	46 - 143
Aldrin	0.0133	0.0123		mg/Kg		92	52 - 122
Aldrin	0.0133	0.0130		mg/Kg		98	52 - 122
alpha-BHC	0.0133	0.0129		mg/Kg		97	50 - 123
alpha-BHC	0.0133	0.0130		mg/Kg		97	50 - 123
beta-BHC	0.0133	0.0115		mg/Kg		86	44 - 140
beta-BHC	0.0133	0.0116		mg/Kg		87	44 - 140
delta-BHC	0.0133	0.0127		mg/Kg		95	57 - 125
delta-BHC	0.0133	0.0132		mg/Kg		99	57 - 125
Dieldrin	0.0133	0.0132		mg/Kg		99	51 - 133
Dieldrin	0.0133	0.0141		mg/Kg		106	51 - 133
Endosulfan I	0.0133	0.0136		mg/Kg		102	30 - 120
Endosulfan I	0.0133	0.0124		mg/Kg		93	30 - 120
Endosulfan II	0.0133	0.0125		mg/Kg		94	30 - 120
Endosulfan II	0.0133	0.0142		mg/Kg		106	30 - 120
Endosulfan sulfate	0.0133	0.0123		mg/Kg		92	42 - 150
Endosulfan sulfate	0.0133	0.0128		mg/Kg		96	42 - 150
Endrin	0.0133	0.0132		mg/Kg		99	43 - 144
Endrin	0.0133	0.0132		mg/Kg		99	43 - 144
Endrin aldehyde	0.0133	0.0110		mg/Kg		83	39 - 131
Endrin aldehyde	0.0133	0.0122		mg/Kg		92	39 - 131
Endrin ketone	0.0133	0.0129		mg/Kg		97	51 - 135
Endrin ketone	0.0133	0.0138		mg/Kg		103	51 - 135
gamma-BHC (Lindane)	0.0133	0.0135		mg/Kg		101	50 - 122
gamma-BHC (Lindane)	0.0133	0.0132		mg/Kg		99	50 - 122
Heptachlor	0.0133	0.0121		mg/Kg		91	53 - 129
Heptachlor	0.0133	0.0132		mg/Kg		99	53 - 129
Heptachlor epoxide	0.0133	0.0135		mg/Kg		101	50 - 139
Heptachlor epoxide	0.0133	0.0133		mg/Kg		100	50 - 139
Methoxychlor	0.0133	0.0130		mg/Kg		98	45 - 144
Methoxychlor	0.0133	0.0149		mg/Kg		112	45 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	94		33 - 148
DCB Decachlorobiphenyl	100		33 - 148

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-787965/2-A
Matrix: Solid
Analysis Batch: 789581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787965

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*30 - 121*
Tetrachloro-m-xylene	*80*		*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-787965/1-A
Matrix: Solid
Analysis Batch: 789330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 787965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/26/24 17:03	10/07/24 17:49	1
PCB-1221	<0.017		0.017		mg/Kg		09/26/24 17:03	10/07/24 17:49	1
PCB-1232	<0.017		0.017		mg/Kg		09/26/24 17:03	10/07/24 17:49	1
PCB-1242	<0.017		0.017		mg/Kg		09/26/24 17:03	10/07/24 17:49	1
PCB-1248	<0.017		0.017		mg/Kg		09/26/24 17:03	10/07/24 17:49	1
PCB-1254	<0.017		0.017		mg/Kg		09/26/24 17:03	10/07/24 17:49	1
PCB-1260	<0.017		0.017		mg/Kg		09/26/24 17:03	10/07/24 17:49	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/26/24 17:03	10/07/24 17:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*47*	*S1-*	*49 - 129*	*09/26/24 17:03*	*10/07/24 17:49*	*1*
DCB Decachlorobiphenyl	*105*		*37 - 121*	*09/26/24 17:03*	*10/07/24 17:49*	*1*

Lab Sample ID: LCS 500-787965/3-A
Matrix: Solid
Analysis Batch: 789330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 787965

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.137		mg/Kg		82	57 - 120		
PCB-1260			0.167	0.155		mg/Kg		93	61 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*49 - 129*
DCB Decachlorobiphenyl	*108*		*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-788990/1-A
Matrix: Solid
Analysis Batch: 789732

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Antimony	<2.0		2.0		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Arsenic	<1.0		1.0		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Barium	<1.0		1.0		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Beryllium	<0.40		0.40		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Cadmium	<0.20		0.20		mg/Kg		10/03/24 17:31	10/08/24 13:16	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-788990/1-A
Matrix: Solid
Analysis Batch: 789732

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<20		20		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Chromium	<1.0		1.0		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Cobalt	<0.50		0.50		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Copper	<1.0		1.0		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Iron	<20		20		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Lead	<0.50		0.50		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Magnesium	<10		10		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Manganese	1.99		1.0		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Nickel	<1.0		1.0		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Potassium	<50		50		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Selenium	<1.0		1.0		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Silver	<0.50		0.50		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Sodium	<100		100		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Thallium	<1.0		1.0		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Vanadium	<0.50		0.50		mg/Kg		10/03/24 17:31	10/08/24 13:16	1
Zinc	<2.0		2.0		mg/Kg		10/03/24 17:31	10/08/24 13:16	1

Lab Sample ID: LCS 500-788990/2-A
Matrix: Solid
Analysis Batch: 789732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	190		mg/Kg		95	80 - 120
Antimony	50.0	50.9		mg/Kg		102	80 - 120
Arsenic	10.0	9.27		mg/Kg		93	80 - 120
Barium	200	196		mg/Kg		98	80 - 120
Beryllium	5.00	5.02		mg/Kg		100	80 - 120
Cadmium	5.00	4.64		mg/Kg		93	80 - 120
Calcium	1000	989		mg/Kg		99	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Cobalt	50.0	49.0		mg/Kg		98	80 - 120
Copper	25.0	24.6		mg/Kg		98	80 - 120
Iron	100	101		mg/Kg		101	80 - 120
Lead	10.0	9.55		mg/Kg		95	80 - 120
Magnesium	1000	942		mg/Kg		94	80 - 120
Manganese	50.0	49.4		mg/Kg		99	80 - 120
Nickel	50.0	49.2		mg/Kg		98	80 - 120
Potassium	1000	966		mg/Kg		97	80 - 120
Selenium	10.0	8.85		mg/Kg		88	80 - 120
Silver	5.00	4.43		mg/Kg		89	80 - 120
Sodium	1000	978		mg/Kg		98	80 - 120
Thallium	10.0	9.46		mg/Kg		95	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Zinc	50.0	50.1		mg/Kg		100	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-257105-1 MS
Matrix: Solid
Analysis Batch: 789732

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	8000		200	9760	4	mg/Kg	☼	868	75 - 125
Antimony	<2.0	F1	50.0	23.3	F1	mg/Kg	☼	44	75 - 125
Cobalt	4.4		50.0	54.0		mg/Kg	☼	99	75 - 125
Magnesium	27000		1000	21900	4	mg/Kg	☼	-557	75 - 125
Potassium	360		1000	1440		mg/Kg	☼	107	75 - 125
Sodium	240		1000	1230		mg/Kg	☼	99	75 - 125
Zinc	130	F1 F2	50.0	247	F1	mg/Kg	☼	227	75 - 125

Lab Sample ID: 500-257105-1 MS
Matrix: Solid
Analysis Batch: 789835

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10	F1 F2	10.0	23.8	F1	mg/Kg	☼	135	75 - 125
Barium	120		200	351		mg/Kg	☼	113	75 - 125
Cadmium	<0.98		5.00	5.68		mg/Kg	☼	106	75 - 125
Calcium	190000		1000	178000	4	mg/Kg	☼	-910	75 - 125
Chromium	830		20.0	888	4	mg/Kg	☼	275	75 - 125
Copper	29	F1	25.0	64.9	F1	mg/Kg	☼	143	75 - 125
Lead	97	F2	10.0	45.2	4	mg/Kg	☼	-522	75 - 125
Nickel	14		50.0	71.7		mg/Kg	☼	115	75 - 125
Selenium	16	F1	10.0	22.9	F1	mg/Kg	☼	69	75 - 125
Silver	<2.4	F1 F2	5.00	4.66		mg/Kg	☼	93	75 - 125
Vanadium	430		50.0	417	4	mg/Kg	☼	-18	75 - 125

Lab Sample ID: 500-257105-1 MS
Matrix: Solid
Analysis Batch: 789835

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	38000	B	50.0	41300	4	mg/Kg	☼	5671	75 - 125
Thallium	250		10.0	281	4	mg/Kg	☼	278	75 - 125

Lab Sample ID: 500-257105-1 MS
Matrix: Solid
Analysis Batch: 789922

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<2.0		5.00	6.61		mg/Kg	☼	102	75 - 125
Iron	160000		100	152000	4	mg/Kg	☼	-3583	75 - 125

Lab Sample ID: 500-257105-1 MSD
Matrix: Solid
Analysis Batch: 789732

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	8000		189	10300	4	mg/Kg	☼	1189	75 - 125	5	20
Antimony	<2.0	F1	47.2	22.3	F1	mg/Kg	☼	45	75 - 125	4	20
Cobalt	4.4		47.2	50.6		mg/Kg	☼	98	75 - 125	6	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-257105-1 MSD
Matrix: Solid
Analysis Batch: 789732

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	27000		944	23300	4	mg/Kg	☼	-439	75 - 125	6	20
Potassium	360		944	1490		mg/Kg	☼	119	75 - 125	4	20
Sodium	240		944	1270		mg/Kg	☼	108	75 - 125	3	20
Zinc	130	F1 F2	47.2	180	F2	mg/Kg	☼	98	75 - 125	32	20

Lab Sample ID: 500-257105-1 MSD
Matrix: Solid
Analysis Batch: 789835

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	10	F1 F2	9.44	10.6	F1 F2	mg/Kg	☼	2	75 - 125	77	20
Barium	120		189	301		mg/Kg	☼	94	75 - 125	15	20
Cadmium	<0.98		4.72	5.84		mg/Kg	☼	116	75 - 125	3	20
Calcium	190000		944	185000	4	mg/Kg	☼	-140	75 - 125	4	20
Chromium	830		18.9	804	4	mg/Kg	☼	-158	75 - 125	10	20
Copper	29	F1	23.6	53.7		mg/Kg	☼	104	75 - 125	19	20
Lead	97	F2	9.44	63.9	4 F2	mg/Kg	☼	-356	75 - 125	34	20
Nickel	14		47.2	63.4		mg/Kg	☼	104	75 - 125	12	20
Selenium	16	F1	9.44	21.1	F1	mg/Kg	☼	53	75 - 125	8	20
Silver	<2.4	F1 F2	4.72	3.48	F1 F2	mg/Kg	☼	74	75 - 125	29	20
Vanadium	430		47.2	494	4	mg/Kg	☼	142	75 - 125	17	20

Lab Sample ID: 500-257105-1 MSD
Matrix: Solid
Analysis Batch: 789835

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	38000	B	47.2	38800	4	mg/Kg	☼	740	75 - 125	6	20
Thallium	250		9.44	270	4	mg/Kg	☼	183	75 - 125	4	20

Lab Sample ID: 500-257105-1 MSD
Matrix: Solid
Analysis Batch: 789922

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<2.0		4.72	6.11		mg/Kg	☼	98	75 - 125	8	20
Iron	160000		94.4	131000	4	mg/Kg	☼	-2571 5	75 - 125	15	20

Lab Sample ID: 500-257105-1 DU
Matrix: Solid
Analysis Batch: 789732

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	8000			9130		mg/Kg	☼			13	20
Antimony	<2.0	F1		<1.9		mg/Kg	☼			NC	20
Cobalt	4.4			5.15		mg/Kg	☼			15	20
Magnesium	27000			18500	F3	mg/Kg	☼			39	20
Potassium	360			458	F3	mg/Kg	☼			23	20
Sodium	240			262		mg/Kg	☼			8	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-257105-1 DU
Matrix: Solid
Analysis Batch: 789732

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Zinc	130	F1 F2	170	F3	mg/Kg	☼	24	20

Lab Sample ID: 500-257105-1 DU
Matrix: Solid
Analysis Batch: 789835

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	10	F1 F2	11.9		mg/Kg	☼	13	20
Barium	120		126		mg/Kg	☼	2	20
Cadmium	<0.98		<0.94		mg/Kg	☼	NC	20
Calcium	190000		163000		mg/Kg	☼	14	20
Chromium	830		883		mg/Kg	☼	6	20
Copper	29	F1	43.4	F3	mg/Kg	☼	39	20
Lead	97	F2	33.6	F3	mg/Kg	☼	97	20
Nickel	14		16.6		mg/Kg	☼	16	20
Selenium	16	F1	12.1	F5	mg/Kg	☼	28	20
Silver	<2.4	F1 F2	<2.3		mg/Kg	☼	NC	20
Vanadium	430		324	F3	mg/Kg	☼	27	20

Lab Sample ID: 500-257105-1 DU
Matrix: Solid
Analysis Batch: 789835

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	38000	B	30500	F3	mg/Kg	☼	23	20
Thallium	250		202	F3	mg/Kg	☼	22	20

Lab Sample ID: 500-257105-1 DU
Matrix: Solid
Analysis Batch: 789922

Client Sample ID: SB108 (0-3)
Prep Type: Total/NA
Prep Batch: 788990

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<2.0		<1.9		mg/Kg	☼	NC	20
Iron	160000		134000		mg/Kg	☼	15	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-788964/12-A
Matrix: Solid
Analysis Batch: 789110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		10/03/24 17:40	10/04/24 07:10	1

Lab Sample ID: LCS 500-788964/13-A
Matrix: Solid
Analysis Batch: 789110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.166		mg/Kg		99	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-788339/1-A
Matrix: Solid
Analysis Batch: 788444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		09/30/24 12:42	09/30/24 15:00	1

Lab Sample ID: LCS 500-788339/2-A
Matrix: Solid
Analysis Batch: 788444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.25		mg/Kg		94	85 - 115

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-628030/1-A
Matrix: Solid
Analysis Batch: 628058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/23/24 10:33	09/23/24 11:24	1

Lab Sample ID: LCS 240-628030/2-A
Matrix: Solid
Analysis Batch: 628058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	80.3	60.2		mg/Kg		75	56 - 120

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257105-1

Client Sample ID: SB108 (0-3)
Date Collected: 09/19/24 09:47
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788055	ST	EET CHI	09/26/24 19:22
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Client Sample ID: SB108 (0-3)
Date Collected: 09/19/24 09:47
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-1
Matrix: Solid
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787148		EET CHI	09/20/24 18:05
Total/NA	Analysis	8260D		1	787413	SW1	EET CHI	09/24/24 12:20
Total/NA	Prep	3546			788382	LH	EET CHI	09/30/24 14:48
Total/NA	Analysis	8270E		1	788484	H7CM	EET CHI	10/01/24 16:45
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8081B		10	789581	GLR	EET CHI	10/08/24 17:25
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8082A		1	789911	H7CM	EET CHI	10/10/24 10:59
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 16:52
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		5	789922	SJ	EET CHI	10/09/24 18:05
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		5	789835	SJ	EET CHI	10/09/24 13:43
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		20	789835	SJ	EET CHI	10/09/24 13:48
Total/NA	Prep	7471B			788964	MJG	EET CHI	10/03/24 17:40
Total/NA	Analysis	7471B		1	789110	MJG	EET CHI	10/04/24 07:13
Total/NA	Prep	9010C			788339	AC	EET CHI	09/30/24 12:42 - 09/30/24 13:12 [1]
Total/NA	Analysis	9012B		1	788444	AC	EET CHI	09/30/24 15:25

Client Sample ID: SB109 (0-3)
Date Collected: 09/19/24 10:29
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788055	ST	EET CHI	09/26/24 19:25
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Client Sample ID: SB109 (0-3)
Date Collected: 09/19/24 10:29
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-2
Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787148		EET CHI	09/20/24 18:05
Total/NA	Analysis	8260D		1	787413	SW1	EET CHI	09/24/24 12:45

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257105-1

Client Sample ID: SB109 (0-3)
Date Collected: 09/19/24 10:29
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-2
Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			788382	LH	EET CHI	09/30/24 14:48
Total/NA	Analysis	8270E		1	788484	H7CM	EET CHI	10/01/24 17:10
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8081B		10	789581	GLR	EET CHI	10/08/24 17:36
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8082A		10	790319	MS	EET CHI	10/14/24 11:04
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		20	790004	SJ	EET CHI	10/10/24 12:27
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 17:15
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		5	789922	SJ	EET CHI	10/09/24 18:36
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		5	789926	SJ	EET CHI	10/09/24 15:52
Total/NA	Prep	7471B			788964	MJG	EET CHI	10/03/24 17:40
Total/NA	Analysis	7471B		1	789110	MJG	EET CHI	10/04/24 07:15
Total/NA	Prep	9010C			788339	AC	EET CHI	09/30/24 12:42 - 09/30/24 13:12 [1]
Total/NA	Analysis	9012B		10	788444	AC	EET CHI	09/30/24 16:59

Client Sample ID: SB109 (5-7.5)
Date Collected: 09/19/24 10:51
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788055	ST	EET CHI	09/26/24 19:27
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Client Sample ID: SB109 (5-7.5)
Date Collected: 09/19/24 10:51
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-3
Matrix: Solid
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787148		EET CHI	09/20/24 18:05
Total/NA	Analysis	8260D		1	787413	SW1	EET CHI	09/24/24 13:10
Total/NA	Prep	3546			788382	LH	EET CHI	09/30/24 14:48
Total/NA	Analysis	8270E		1	788484	H7CM	EET CHI	10/01/24 17:35
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8081B		10	789581	GLR	EET CHI	10/08/24 17:48
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8082A		1	789911	H7CM	EET CHI	10/10/24 11:29
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 17:20
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		5	789922	SJ	EET CHI	10/09/24 18:41

Client Sample ID: SB109 (5-7.5)
Lab Sample ID: 500-257105-3
Date Collected: 09/19/24 10:51
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			788964	MJG	EET CHI	10/03/24 17:40
Total/NA	Analysis	7471B		1	789110	MJG	EET CHI	10/04/24 07:17
Total/NA	Prep	9010C			788339	AC	EET CHI	09/30/24 12:42 - 09/30/24 13:12 [1]
Total/NA	Analysis	9012B		1	788444	AC	EET CHI	09/30/24 15:28

Client Sample ID: SB110 (0-3)
Lab Sample ID: 500-257105-4
Date Collected: 09/19/24 12:04
Matrix: Solid
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788055	ST	EET CHI	09/26/24 19:30
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Client Sample ID: SB110 (0-3)
Lab Sample ID: 500-257105-4
Date Collected: 09/19/24 12:04
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787148		EET CHI	09/20/24 18:05
Total/NA	Analysis	8260D		1	787413	SW1	EET CHI	09/24/24 13:35
Total/NA	Prep	3546			788382	LH	EET CHI	09/30/24 14:48
Total/NA	Analysis	8270E		1	788484	H7CM	EET CHI	10/01/24 18:00
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8081B		10	789581	GLR	EET CHI	10/08/24 18:00
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8082A		10	790319	MS	EET CHI	10/14/24 11:19
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		20	790004	SJ	EET CHI	10/10/24 12:31
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 17:25
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		5	789922	SJ	EET CHI	10/09/24 18:45
Total/NA	Prep	7471B			788964	MJG	EET CHI	10/03/24 17:40
Total/NA	Analysis	7471B		1	789110	MJG	EET CHI	10/04/24 07:19
Total/NA	Prep	9010C			788339	AC	EET CHI	09/30/24 12:42 - 09/30/24 13:12 [1]
Total/NA	Analysis	9012B		1	788444	AC	EET CHI	09/30/24 15:34

Client Sample ID: SB110 (5-7.5)
Lab Sample ID: 500-257105-5
Date Collected: 09/19/24 12:25
Matrix: Solid
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788055	ST	EET CHI	09/26/24 19:32
Total/NA	Analysis	Moisture		1	787855	ER	EET CHI	09/26/24 08:35

Client Sample ID: SB110 (5-7.5)

Lab Sample ID: 500-257105-5
Date Collected: 09/19/24 12:25
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787148		EET CHI	09/20/24 18:05
Total/NA	Analysis	8260D		1	787413	SW1	EET CHI	09/24/24 14:00
Total/NA	Prep	3546			788382	LH	EET CHI	09/30/24 14:48
Total/NA	Analysis	8270E		2	788484	H7CM	EET CHI	10/01/24 18:25
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8081B		10	789581	GLR	EET CHI	10/08/24 18:11
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8082A		1	789911	H7CM	EET CHI	10/10/24 11:59
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 17:38
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		5	789926	SJ	EET CHI	10/09/24 16:05
Total/NA	Prep	7471B			788964	MJG	EET CHI	10/03/24 17:40
Total/NA	Analysis	7471B		1	789110	MJG	EET CHI	10/04/24 07:21
Total/NA	Prep	9010C			788339	AC	EET CHI	09/30/24 12:42 - 09/30/24 13:12 [1]
Total/NA	Analysis	9012B		1	788444	AC	EET CHI	09/30/24 16:03

Client Sample ID: SB111 (0-3)

Lab Sample ID: 500-257105-6
Date Collected: 09/19/24 13:27
Matrix: Solid
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788055	ST	EET CHI	09/26/24 19:35
Total/NA	Analysis	Moisture		1	787861	ER	EET CHI	09/26/24 08:53

Client Sample ID: SB111 (0-3)

Lab Sample ID: 500-257105-6
Date Collected: 09/19/24 13:27
Matrix: Solid
Date Received: 09/20/24 12:45
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787148		EET CHI	09/20/24 18:05
Total/NA	Analysis	8260D		1	787398	EA	EET CHI	09/24/24 05:13
Total/NA	Prep	3546			788382	LH	EET CHI	09/30/24 14:48
Total/NA	Analysis	8270E		2	788484	H7CM	EET CHI	10/01/24 18:50
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8081B		10	789581	GLR	EET CHI	10/08/24 18:23
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8082A		1	789911	H7CM	EET CHI	10/10/24 12:13
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 17:43
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		5	789926	SJ	EET CHI	10/09/24 16:09
Total/NA	Prep	7471B			788964	MJG	EET CHI	10/03/24 17:40
Total/NA	Analysis	7471B		1	789110	MJG	EET CHI	10/04/24 07:23

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257105-1

Client Sample ID: SB111 (0-3)
Date Collected: 09/19/24 13:27
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-6
Matrix: Solid
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9010C			788339	AC	EET CHI	09/30/24 12:42 - 09/30/24 13:12 [1]
Total/NA	Analysis	9012B		1	788444	AC	EET CHI	09/30/24 16:05
Total/NA	Prep	9030B			628030	BLW	EET CLE	09/23/24 10:33
Total/NA	Analysis	9034		1	628058	BLW	EET CLE	09/23/24 11:24

Client Sample ID: SB111 (3-5)
Date Collected: 09/19/24 13:34
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788055	ST	EET CHI	09/26/24 19:37
Total/NA	Analysis	Moisture		1	787861	ER	EET CHI	09/26/24 08:53

Client Sample ID: SB111 (3-5)
Date Collected: 09/19/24 13:34
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-7
Matrix: Solid
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787148		EET CHI	09/20/24 18:05
Total/NA	Analysis	8260D		1	787398	EA	EET CHI	09/24/24 05:38
Total/NA	Prep	3546			788382	LH	EET CHI	09/30/24 14:48
Total/NA	Analysis	8270E		2	788484	H7CM	EET CHI	10/01/24 19:15
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8081B		10	789581	GLR	EET CHI	10/08/24 18:35
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8082A		1	789911	H7CM	EET CHI	10/10/24 12:28
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 17:47
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		5	789926	SJ	EET CHI	10/09/24 16:14
Total/NA	Prep	7471B			788964	MJG	EET CHI	10/03/24 17:40
Total/NA	Analysis	7471B		1	789110	MJG	EET CHI	10/04/24 07:25
Total/NA	Prep	9010C			788339	AC	EET CHI	09/30/24 12:42 - 09/30/24 13:12 [1]
Total/NA	Analysis	9012B		1	788444	AC	EET CHI	09/30/24 16:06

Client Sample ID: SB112 (0-3)
Date Collected: 09/19/24 14:42
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788055	ST	EET CHI	09/26/24 19:42
Total/NA	Analysis	Moisture		1	787861	ER	EET CHI	09/26/24 08:53

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB112 (0-3)
Lab Sample ID: 500-257105-8

Date Collected: 09/19/24 14:42
Matrix: Solid

Date Received: 09/20/24 12:45
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787148		EET CHI	09/20/24 18:05
Total/NA	Analysis	8260D		1	787398	EA	EET CHI	09/24/24 06:02
Total/NA	Prep	3546			788382	LH	EET CHI	09/30/24 14:48
Total/NA	Analysis	8270E		2	788484	H7CM	EET CHI	10/01/24 19:39
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8081B		10	789581	GLR	EET CHI	10/08/24 18:46
Total/NA	Prep	3541			787965	SV	EET CHI	09/26/24 17:03 - 09/26/24 22:47 [1]
Total/NA	Analysis	8082A		1	789911	H7CM	EET CHI	10/10/24 12:43
Total/NA	Prep	3050B			788990	S1Z	EET CHI	10/03/24 17:31 - 10/03/24 22:31 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 17:52
Total/NA	Prep	7471B			788964	MJG	EET CHI	10/03/24 17:40
Total/NA	Analysis	7471B		1	789110	MJG	EET CHI	10/04/24 07:31
Total/NA	Prep	9010C			788339	AC	EET CHI	09/30/24 12:42 - 09/30/24 13:12 [1]
Total/NA	Analysis	9012B		1	788444	AC	EET CHI	09/30/24 16:08

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	02-13-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record

670144 eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARRISON	Site Contact:	Date:	COC No: 1 of 1 COCs
Company Name: PIONEER	Tel/Email: JHARRISON@PIONEERENV.COM	Lab Contact:	Carrier:	Sampler
Address	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client / Lab Sampling
City/State/Zip	TAT if different from Below: ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Job / SDG No: 500-257105
Phone				
Fax				
Project Name: 5080 S LAKE SHORE				
Site				
PO # 24-0124-103				

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TPH		5080 LAKE SHORE	Sample Specific Notes
1	SB108 (0-3)	9/19/24	947	G	SO	4			X	X	X	
2	SB109 (0-3)		1029								X	
3	SB109 (5-7.5)		1057								X	
4	SB110 (0-3)		1204						X	X		
5	SB110 (5-7.5)		1225									
6	SB111 (0-3)		127								X	
7	SB111 (3-5)		134									
8	SB112 (0-3)		242									

500-257105 COC

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 3.6 Corr'd 3.5 | Therm ID No

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	9/20/24	Received by	EETA	9/20/24 1130
Relinquished by	EETA 9/20/24	1245	Received by:	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by: Stephanie Hernandez	Company: EETA	Date/Time: 9/20/24 1245

Chain of Custody Record

670144

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARRISON	Site Contact:	Date:	COC No: 1 of 1 COCs
Company Name: PIONEER	Tel/Email: JHARRISON@PIONEERNS.COM	Lab Contact:	Carrier:	Sampler
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below			Lab Sampling
Fax	☒ 2 weeks			
Project Name: 5080 S LAKE SHORE	☐ 1 week			Job / SDG No: 500-257105
Site	☐ 2 days			
PO # 24-0124-103	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TPH		5080 LAKE SHORE	Sample Specific Notes
1	SB108 (0-3)	9/19/24	947	G	SO	4			X	X	X	
2	SB109 (0-3)		1029								X	
3	SB109 (5-7.5)		1057								X	
4	SB110 (0-3)		1204									
5	SB110 (5-7.5)		1225									
6	SB111 (0-3)		127								X	
7	SB111 (3-5)		134									
8	SB112 (0-3)		242									

500-257105 COC

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 3.6 Corr'd 3.5 | Therm ID No

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	9/20/24	Received by	EETA	9/20/24 1130
Relinquished by	EETA 9/20/24	1245	Received by:	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by: Stephanie Hernandez	Company EETA	Date/Time 9/20/24 1245

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

0-3/1.3

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192923.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-257105-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/3/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Emai	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

E020

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB11 (0-3) (500-257105-6)	9/19/24	13:27 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	09/20/24 1550	EETA	JESSICA RIGDON	9/21 24 0930	EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :

Barberton Facility

Client Eurofins- CHE Site Name

Cooler Received on 9-21-24 Opened on 9-21-24

Cooler unpacked by: JESSICA RIGDON

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used. (Bubble Wrap) Foam Plastic Bag None Other

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 9 (CF +1.0 °C) Observed Cooler Temp. 0.3 °C Corrected Cooler Temp. 1.3 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4 Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC442471
14. Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen.

1
2
3
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5
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8
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10
11
12
13
14
15

eurofins | Environment Testing
TestAmerica

2546290

eurofins | Environment Testing

Temperature Controlled

IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)

TAL-0090(1016)

ORIGIN I):JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE: 20SEP24
ACTWGT: 21.00 LB MAN
CAD: 0675858/CAFE3854

BILL SENDER

TO SAMPLE RECEIVING
EUROFINS-CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9896
REF: 257105 256746 KS

FedEx Express

Part # 159469-434 MTW-EXP 02/25

TRK# 0201 7051 7620 9620

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CAKA

44203
OH-US CLE

RT 448 1
FZ 447 12:00
9620
09.21

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

0-3/1.3

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192923.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-257105-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/3/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Emai	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

E020

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB11 (0-3) (500-257105-6)	9/19/24	13:27 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	09/20/24 1550	EETA	JESSICA RIGDON	9/21 24 0930	EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :

Barberton Facility

Client Eurofins- CHE Site Name

Cooler unpacked by: JESSICA RIGDON

Cooler Received on 9-21-24 Opened on 9-21-24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used. (Bubble Wrap) Foam Plastic Bag None Other

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 9 (CF +1.0 °C) Observed Cooler Temp. 0.3 °C Corrected Cooler Temp. 1.3 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4 Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC442471
14. Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen.

eurofins
Environment Testing
TestAmerica
2546290
Temperature Controlled
IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)
TAL-0090(1016)
ORIGIN ID:JOTA
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES US
(708) 534-5200
TO SAMPLE RECEIVING
EUROFINS-CANTON
180 S. VAN BUREN AVENUE
BARBERTON OH 44203
(330) 497-9396
REF: 257105 266746 KS
FedEx
Express
TRK# 0201 7051 7620 9620
SATURDAY 12:00P
PRIORITY OVERNIGHT
XO CAKA
44203
OH-US CLE
RT 448 1
FZ 447
12:00
9620
09.21

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-257105-1

Login Number: 257105
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/11/2025 11:40:19 AM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-257169-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/11/2025 11:40:19 AM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-257169-1 — Eurofins Chicago

Job Narrative
500-257169-1

Revision
The report being provided is a revision of the original report sent on 10/13/2024. The report (revision 2) is being revised due to: The report and EDD have been revised to report to the MDL for Pesticides per client request..

Report revision history
Revision 1 - 12/11/2024 - Reason - The report and EDD have been revised to report the VOCs/SVOCs to the MDL where non-detects report as <MDL per client request..

Receipt
The samples were received on 9/23/2024 12:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

GC/MS VOA
Method 8260D: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: SB113 (10-12.5) (500-257169-2). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantized with this internal standard.

Method 8260D: The laboratory control sample (LCS) for analytical batch 500-789026 recovered outside control limits for the following analytes: Chloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Internal standard /surrogate responses were outside of acceptance limits for the following sample: SB115 (0-3) (500-257169-5). The sample(s) shows evidence of matrix interference, as sample was analyzed multiple times with concurring failures.

Method 8260D: The following samples were received with frozen water vials broken. The samples were analyzed for an opened 5030 bulk jar.SB114 (0-3) (500-257169-3), SB116 (0-3) (500-257169-7) and SB116 (12.5-15) (500-257169-8)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-788692 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: SB114 (0-3) (500-257169-3). Analytes associated to this internal standard were non-detect; therefore, re-analysis was not performed.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB113 (0-3) (500-257169-1), SB114 (0-3) (500-257169-3), SB115 (0-3) (500-257169-5) and SB115 (5-7.5) (500-257169-6). Elevated reporting limits (RLs) are provided.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB114 (0-3) (500-257169-3), SB115 (0-3) (500-257169-5) and SB115 (5-7.5) (500-257169-6). These results have been reported and qualified.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-788864 was outside the method criteria for the following analyte(s): 2-Nitroaniline and bis(chloroisopropyl) ether. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following samples required a dilution due to the nature of the sample matrix: SB115 (0-3) (500-257169-5) and SB115 (5-7.5) (500-257169-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB114 (7.5-12) (500-257169-4). These results have been reported and qualified.

Job ID: 500-257169-1 (Continued) Eurofins Chicago

Method 8270E: The following sample was diluted due to the nature of the sample matrix: SB116 (0-3) (500-257169-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: SB113 (10-12.5) (500-257169-2) and SB115 (0-3) (500-257169-5). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB113 (10-12.5) (500-257169-2), SB114 (0-3) (500-257169-3), SB114 (7.5-12) (500-257169-4) and SB115 (0-3) (500-257169-5). Elevated reporting limits (RLs) are provided.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-788403 and analytical batch 500-789971 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: (500-257169-D-1-B MS) and (500-257169-D-1-C MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: The following samples required a dilution due to the nature of the sample matrix: SB113 (0-3) (500-257169-1), SB117 (0-3) (500-257169-9), (500-257169-D-1-B MS) and (500-257169-D-1-C MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: Surrogate recovery for the following samples were outside the upper control limit: SB115 (5-7.5) (500-257169-6), SB116 (0-3) (500-257169-7) and SB116 (12.5-15) (500-257169-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: SB113 (0-3) (500-257169-1), SB115 (5-7.5) (500-257169-6), SB116 (0-3) (500-257169-7), SB116 (12.5-15) (500-257169-8), SB117 (0-3) (500-257169-9), SB117 (5-7.5) (500-257169-10), (500-257169-D-1-B MS) and (500-257169-D-1-C MSD). Elevated reporting limits (RLs) are provided.

Method 8082A: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: SB115 (0-3) (500-257169-5). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples were outside control limits: SB115 (5-7.5) (500-257169-6) and SB116 (0-3) (500-257169-7). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-788403 and analytical batch 500-789912 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB113 (0-3) (500-257169-1), SB113 (10-12.5) (500-257169-2), SB114 (0-3) (500-257169-3), SB114 (7.5-12) (500-257169-4), SB115 (0-3) (500-257169-5), SB115 (5-7.5) (500-257169-6), SB116 (0-3) (500-257169-7), SB116 (12.5-15) (500-257169-8), SB117 (0-3) (500-257169-9), SB117 (5-7.5) (500-257169-10), (500-257169-D-1-D MS) and (500-257169-D-1-E MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 9045D: Associated Continuing Calibration verification was above the 0.10 pH unit limit.Sample was rerun out of hold with confirming results.

Job ID: 500-257169-1 (Continued) Eurofins Chicago

SB117 (5-7.5) (500-257169-10)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB113 (0-3)
Lab Sample ID: 500-257169-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0051	J	0.0055	0.0010	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.068	J	0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.52		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	1.4		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	1.3		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.2		0.071	0.068	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.66		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	1.6		0.071	0.027	mg/Kg	2	☼	8270E	Total/NA
Chrysene	1.3		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.20		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	2.7		0.071	0.017	mg/Kg	2	☼	8270E	Total/NA
Fluorene	0.090		0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.77		0.071	0.069	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	0.024	J	0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	1.7		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	2.2		0.071	0.019	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	0.044	J	0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.077	J	0.36	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	0.082	J	0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Aluminum	13000		18		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.8		0.92		mg/Kg	1	☼	6010D	Total/NA
Barium	120		0.92		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.9		0.37		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.26		0.18		mg/Kg	1	☼	6010D	Total/NA
Calcium	110000		92		mg/Kg	5	☼	6010D	Total/NA
Chromium	24		0.92		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.7		0.46		mg/Kg	1	☼	6010D	Total/NA
Copper	20		0.92		mg/Kg	1	☼	6010D	Total/NA
Iron	29000		18		mg/Kg	1	☼	6010D	Total/NA
Lead	43		0.46		mg/Kg	1	☼	6010D	Total/NA
Magnesium	23000		9.2		mg/Kg	1	☼	6010D	Total/NA
Manganese	1800		0.92		mg/Kg	1	☼	6010D	Total/NA
Nickel	16		0.92		mg/Kg	1	☼	6010D	Total/NA
Potassium	1400		46		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.7		0.92		mg/Kg	1	☼	6010D	Total/NA
Sodium	600		92		mg/Kg	1	☼	6010D	Total/NA
Thallium	7.6		0.92		mg/Kg	1	☼	6010D	Total/NA
Vanadium	17		0.46		mg/Kg	1	☼	6010D	Total/NA
Zinc	83		1.8		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	1.8		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	8.27		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB113 (10-12.5)
Lab Sample ID: 500-257169-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0050	J	0.0052	0.00095	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.013	J	0.061	0.012	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.018	J	0.061	0.013	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.033	J	0.061	0.013	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.038	J	0.061	0.016	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.052	J	0.061	0.014	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB113 (10-12.5) (Continued)
Lab Sample ID: 500-257169-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.068		0.061	0.013	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.071		0.061	0.017	mg/Kg	1	☼	8270E	Total/NA
Aluminum	2300		22		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	16		1.1		mg/Kg	1	☼	6010D	Total/NA
Calcium	39000		22		mg/Kg	1	☼	6010D	Total/NA
Chromium	4.6		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.6		0.55		mg/Kg	1	☼	6010D	Total/NA
Copper	5.9		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	11000		22		mg/Kg	1	☼	6010D	Total/NA
Lead	10		0.55		mg/Kg	1	☼	6010D	Total/NA
Magnesium	19000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	250		1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	4.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	490		55		mg/Kg	1	☼	6010D	Total/NA
Sodium	150		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.3		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	11		0.55		mg/Kg	1	☼	6010D	Total/NA
Zinc	27		2.2		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	1.5		0.30		mg/Kg	1	☼	9012B	Total/NA
pH	8.92		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB114 (0-3)
Lab Sample ID: 500-257169-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.029		0.022		mg/Kg	1	☼	8260D	Total/NA
Chrysene	0.053	J	0.072	0.019	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.069	J	0.072	0.017	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.034	J	0.072	0.016	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.062	J	0.072	0.020	mg/Kg	2	☼	8270E	Total/NA
Aluminum	23000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.7		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	240		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	6.4		0.40		mg/Kg	1	☼	6010D	Total/NA
Calcium	190000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	8.1		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	0.79		0.50		mg/Kg	1	☼	6010D	Total/NA
Copper	1.5		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	13000		20		mg/Kg	1	☼	6010D	Total/NA
Magnesium	35000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	970		1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	1.4		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	1100		50		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.1		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	1100		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	4.9		1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.2		0.50		mg/Kg	1	☼	6010D	Total/NA
Zinc	4.1		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	0.90		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	9.86		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB114 (7.5-12) — Lab Sample ID: 500-257169-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0066		0.0061	0.0011	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.012	J	0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.066		0.036	0.0074	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.46		0.036	0.0077	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.35		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.38		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.17		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.45		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.49		0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.051		0.036	0.036	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.74		0.036	0.0085	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.19		0.036	0.035	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.010	J	0.036	0.0066	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.26		0.036	0.0079	mg/Kg	1	☼	8270E	Total/NA
Pyrene	1.1		0.036	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.015	J	0.074	0.0073	mg/Kg	1	☼	8270E	Total/NA
Diethyl phthalate	0.037	J	0.18	0.017	mg/Kg	1	☼	8270E	Total/NA
Aluminum	17000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.9		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	180		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	4.5		0.40		mg/Kg	1	☼	6010D	Total/NA
Calcium	140000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	7.0		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	1.5		0.50		mg/Kg	1	☼	6010D	Total/NA
Copper	3.9		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	11000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	9.3		0.50		mg/Kg	1	☼	6010D	Total/NA
Magnesium	23000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	1000		1.0		mg/Kg	1	☼	6010D	Total/NA
Nickel	4.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	790		50		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.2		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	620		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	4.9		1.0		mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.6		0.50		mg/Kg	1	☼	6010D	Total/NA
Zinc	21		2.0		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	4.8		0.26		mg/Kg	1	☼	9012B	Total/NA
pH	10.66		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB115 (0-3) — Lab Sample ID: 500-257169-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0051	J	0.0053	0.00098	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0014	J	0.0021	0.00043	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0022	J	0.0043	0.00073	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	2.6		0.074	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.078		0.074	0.013	mg/Kg	2	☼	8270E	Total/NA
Anthracene	14		0.074	0.015	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	9.6		0.074	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	18		0.074	0.028	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	4.7		0.074	0.074	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB115 (0-3) (Continued)
Lab Sample ID: 500-257169-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	3.9		0.074	0.022	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	12		0.074	0.072	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	3.3		0.074	0.013	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	1.3		0.15	0.015	mg/Kg	2	☼	8270E	Total/NA
Carbazole	2.7		0.37	0.029	mg/Kg	2	☼	8270E	Total/NA
Dibenzofuran	3.4		0.37	0.026	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene - DL	28		0.74	0.16	mg/Kg	20	☼	8270E	Total/NA
Benzo[a]pyrene - DL	25		0.74	0.72	mg/Kg	20	☼	8270E	Total/NA
Benzo[b]fluoranthene - DL	27		0.74	0.71	mg/Kg	20	☼	8270E	Total/NA
Chrysene - DL	28		0.74	0.20	mg/Kg	20	☼	8270E	Total/NA
Fluoranthene - DL	60		0.74	0.17	mg/Kg	20	☼	8270E	Total/NA
Phenanthrene - DL	41		0.74	0.16	mg/Kg	20	☼	8270E	Total/NA
Pyrene - DL	48		0.74	0.20	mg/Kg	20	☼	8270E	Total/NA
Aluminum	14000		20		mg/Kg	1	☼	6010D	Total/NA
Antimony	2.7		2.0		mg/Kg	1	☼	6010D	Total/NA
Arsenic	16		4.9		mg/Kg	5	☼	6010D	Total/NA
Barium	260		4.9		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.5		2.0		mg/Kg	5	☼	6010D	Total/NA
Calcium	130000		98		mg/Kg	5	☼	6010D	Total/NA
Chromium	8.6		0.98		mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.4		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	29		4.9		mg/Kg	5	☼	6010D	Total/NA
Iron	93000		98		mg/Kg	5	☼	6010D	Total/NA
Lead	83		2.5		mg/Kg	5	☼	6010D	Total/NA
Magnesium	16000		9.8		mg/Kg	1	☼	6010D	Total/NA
Manganese	4600		4.9		mg/Kg	5	☼	6010D	Total/NA
Nickel	12		4.9		mg/Kg	5	☼	6010D	Total/NA
Potassium	1000		49		mg/Kg	1	☼	6010D	Total/NA
Sodium	460		98		mg/Kg	1	☼	6010D	Total/NA
Vanadium	21		2.5		mg/Kg	5	☼	6010D	Total/NA
Zinc	160		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.039		0.017		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	13		2.4		mg/Kg	10	☼	9012B	Total/NA
pH	10.44		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB115 (5-7.5)
Lab Sample ID: 500-257169-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.020	0.0082	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0077		0.0049	0.00090	mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	9.7		0.071	0.015	mg/Kg	2	☼	8270E	Total/NA
Acenaphthylene	0.23		0.071	0.012	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	13		0.071	0.016	mg/Kg	2	☼	8270E	Total/NA
Dibenz(a,h)anthracene	6.0		0.071	0.071	mg/Kg	2	☼	8270E	Total/NA
Fluorene	16		0.071	0.021	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	17		0.071	0.070	mg/Kg	2	☼	8270E	Total/NA
Naphthalene	4.5		0.071	0.013	mg/Kg	2	☼	8270E	Total/NA
2-Methylnaphthalene	3.1		0.14	0.014	mg/Kg	2	☼	8270E	Total/NA
2-Methylphenol	0.056	J	0.36	0.038	mg/Kg	2	☼	8270E	Total/NA
3 & 4 Methylphenol	0.19	J	0.36	0.052	mg/Kg	2	☼	8270E	Total/NA
Carbazole	11		0.36	0.028	mg/Kg	2	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB115 (5-7.5) (Continued) — Lab Sample ID: 500-257169-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	12		0.36	0.025	mg/Kg	2	☼	8270E	Total/NA
Phenol	0.073	J	0.36	0.031	mg/Kg	2	☼	8270E	Total/NA
Anthracene - DL	41		1.8	0.37	mg/Kg	50	☼	8270E	Total/NA
Benzo[a]anthracene - DL	39		1.8	0.38	mg/Kg	50	☼	8270E	Total/NA
Benzo[a]pyrene - DL	32		1.8	1.7	mg/Kg	50	☼	8270E	Total/NA
Benzo[b]fluoranthene - DL	34		1.8	1.7	mg/Kg	50	☼	8270E	Total/NA
Benzo[k]fluoranthene - DL	32		1.8	0.68	mg/Kg	50	☼	8270E	Total/NA
Chrysene - DL	39		1.8	0.47	mg/Kg	50	☼	8270E	Total/NA
Fluoranthene - DL	110		1.8	0.42	mg/Kg	50	☼	8270E	Total/NA
Phenanthrene - DL	130		1.8	0.39	mg/Kg	50	☼	8270E	Total/NA
Pyrene - DL	86		1.8	0.49	mg/Kg	50	☼	8270E	Total/NA
Aluminum	12000		20		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.9		0.98		mg/Kg	1	☼	6010D	Total/NA
Barium	170		0.98		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.4		0.39		mg/Kg	1	☼	6010D	Total/NA
Calcium	94000		98		mg/Kg	5	☼	6010D	Total/NA
Chromium	7.9		0.98		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.3		0.49		mg/Kg	1	☼	6010D	Total/NA
Copper	13		0.98		mg/Kg	1	☼	6010D	Total/NA
Iron	47000		20		mg/Kg	1	☼	6010D	Total/NA
Lead	49		0.49		mg/Kg	1	☼	6010D	Total/NA
Magnesium	12000		9.8		mg/Kg	1	☼	6010D	Total/NA
Manganese	3700		4.9		mg/Kg	5	☼	6010D	Total/NA
Nickel	7.1		0.98		mg/Kg	1	☼	6010D	Total/NA
Potassium	1200		49		mg/Kg	1	☼	6010D	Total/NA
Selenium	2.3		0.98		mg/Kg	1	☼	6010D	Total/NA
Sodium	510		98		mg/Kg	1	☼	6010D	Total/NA
Vanadium	16		0.49		mg/Kg	1	☼	6010D	Total/NA
Zinc	93		2.0		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.029		0.016		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	8.7		1.2		mg/Kg	5	☼	9012B	Total/NA
pH	9.78		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB116 (0-3) — Lab Sample ID: 500-257169-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0070		0.0056		mg/Kg	1	☼	8260D	Total/NA
Acenaphthene	0.16	J	0.18	0.037	mg/Kg	5	☼	8270E	Total/NA
Anthracene	2.7		0.18	0.037	mg/Kg	5	☼	8270E	Total/NA
Benzo[a]anthracene	10		0.18	0.039	mg/Kg	5	☼	8270E	Total/NA
Benzo[a]pyrene	9.4		0.18	0.18	mg/Kg	5	☼	8270E	Total/NA
Benzo[b]fluoranthene	9.9		0.18	0.17	mg/Kg	5	☼	8270E	Total/NA
Benzo[g,h,i]perylene	3.8		0.18	0.040	mg/Kg	5	☼	8270E	Total/NA
Benzo[k]fluoranthene	9.0		0.18	0.069	mg/Kg	5	☼	8270E	Total/NA
Chrysene	10		0.18	0.048	mg/Kg	5	☼	8270E	Total/NA
Dibenz(a,h)anthracene	1.3		0.18	0.18	mg/Kg	5	☼	8270E	Total/NA
Fluoranthene	16		0.18	0.042	mg/Kg	5	☼	8270E	Total/NA
Fluorene	0.36		0.18	0.054	mg/Kg	5	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	4.7		0.18	0.18	mg/Kg	5	☼	8270E	Total/NA
Naphthalene	0.33		0.18	0.033	mg/Kg	5	☼	8270E	Total/NA
Phenanthrene	5.4		0.18	0.040	mg/Kg	5	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB116 (0-3) (Continued)
Lab Sample ID: 500-257169-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	14		0.18	0.050	mg/Kg	5	☼	8270E	Total/NA
2-Methylnaphthalene	0.19	J	0.37	0.037	mg/Kg	5	☼	8270E	Total/NA
Carbazole	0.24	J	0.92	0.072	mg/Kg	5	☼	8270E	Total/NA
Dibenzofuran	0.28	J	0.92	0.065	mg/Kg	5	☼	8270E	Total/NA
Aluminum	15000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	11		4.8		mg/Kg	5	☼	6010D	Total/NA
Barium	210		4.8		mg/Kg	5	☼	6010D	Total/NA
Beryllium	3.6		1.9		mg/Kg	5	☼	6010D	Total/NA
Calcium	89000		96		mg/Kg	5	☼	6010D	Total/NA
Chromium	520		4.8		mg/Kg	5	☼	6010D	Total/NA
Cobalt	8.4		0.48		mg/Kg	1	☼	6010D	Total/NA
Copper	34		4.8		mg/Kg	5	☼	6010D	Total/NA
Iron	92000		96		mg/Kg	5	☼	6010D	Total/NA
Lead	52		2.4		mg/Kg	5	☼	6010D	Total/NA
Magnesium	16000		9.6		mg/Kg	1	☼	6010D	Total/NA
Manganese	3700		4.8		mg/Kg	5	☼	6010D	Total/NA
Nickel	140		4.8		mg/Kg	5	☼	6010D	Total/NA
Potassium	980		48		mg/Kg	1	☼	6010D	Total/NA
Sodium	610		96		mg/Kg	1	☼	6010D	Total/NA
Vanadium	28		2.4		mg/Kg	5	☼	6010D	Total/NA
Zinc	180		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.042		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	8.1		1.3		mg/Kg	5	☼	9012B	Total/NA
pH	9.63		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB116 (12.5-15)
Lab Sample ID: 500-257169-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.026		0.026		mg/Kg	1	☼	8260D	Total/NA
Methylene Chloride	0.0075		0.0064		mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.018	J	0.042	0.0087	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.039	J	0.042	0.0090	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.042	0.0092	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.037	J	0.042	0.011	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.054		0.042	0.0099	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.017	J	0.042	0.0077	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.13		0.042	0.0092	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.057		0.042	0.012	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.043	J	0.086	0.0085	mg/Kg	1	☼	8270E	Total/NA
Aluminum	3500		25		mg/Kg	1	☼	6010D	Total/NA
Antimony	4.5		2.5		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.2		1.2		mg/Kg	1	☼	6010D	Total/NA
Barium	37		1.2		mg/Kg	1	☼	6010D	Total/NA
Calcium	54000		25		mg/Kg	1	☼	6010D	Total/NA
Chromium	11		1.2		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.3		0.62		mg/Kg	1	☼	6010D	Total/NA
Copper	2.6		1.2		mg/Kg	1	☼	6010D	Total/NA
Iron	5500		25		mg/Kg	1	☼	6010D	Total/NA
Lead	41		0.62		mg/Kg	1	☼	6010D	Total/NA
Magnesium	17000		12		mg/Kg	1	☼	6010D	Total/NA
Manganese	320		1.2		mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB116 (12.5-15) (Continued) — Lab Sample ID: 500-257169-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	5.8		1.2		mg/Kg	1	☼	6010D	Total/NA
Potassium	550		62		mg/Kg	1	☼	6010D	Total/NA
Sodium	150		120		mg/Kg	1	☼	6010D	Total/NA
Thallium	1.7		1.2		mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.5		0.62		mg/Kg	1	☼	6010D	Total/NA
Zinc	20		2.5		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	1.1		0.28		mg/Kg	1	☼	9012B	Total/NA
pH	9.13		0.20		SU	1		9045D	Total/NA

Client Sample ID: SB117 (0-3) — Lab Sample ID: 500-257169-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0035	J	0.0058	0.0011	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00099	J	0.0023	0.00046	mg/Kg	1	☼	8260D	Total/NA
Anthracene	0.044		0.037	0.0075	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.36		0.037	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.27		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.33		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.13		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.32		0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.38		0.037	0.0097	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.041		0.037	0.037	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.52		0.037	0.0085	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.031	J	0.037	0.0067	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.26		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.46		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.052	J	0.074	0.0074	mg/Kg	1	☼	8270E	Total/NA
Aluminum	15000		19		mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.9		0.95		mg/Kg	1	☼	6010D	Total/NA
Barium	170		0.95		mg/Kg	1	☼	6010D	Total/NA
Beryllium	2.5		0.38		mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.33		0.19		mg/Kg	1	☼	6010D	Total/NA
Calcium	86000		95		mg/Kg	5	☼	6010D	Total/NA
Chromium	31		0.95		mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.5		0.47		mg/Kg	1	☼	6010D	Total/NA
Copper	18		0.95		mg/Kg	1	☼	6010D	Total/NA
Iron	40000		19		mg/Kg	1	☼	6010D	Total/NA
Lead	51		0.47		mg/Kg	1	☼	6010D	Total/NA
Magnesium	9900		9.5		mg/Kg	1	☼	6010D	Total/NA
Manganese	4600		4.7		mg/Kg	5	☼	6010D	Total/NA
Nickel	13		0.95		mg/Kg	1	☼	6010D	Total/NA
Potassium	1400		47		mg/Kg	1	☼	6010D	Total/NA
Selenium	3.4		0.95		mg/Kg	1	☼	6010D	Total/NA
Sodium	540		95		mg/Kg	1	☼	6010D	Total/NA
Vanadium	26		0.47		mg/Kg	1	☼	6010D	Total/NA
Zinc	85		1.9		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.040		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	15		2.4		mg/Kg	10	☼	9012B	Total/NA
pH	7.77		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB117 (5-7.5)
Lab Sample ID: 500-257169-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.0056	J	0.0078	0.0014	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00079	J	0.0031	0.00063	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.017	J	0.057	0.012	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.016	J	0.057	0.015	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.024	J	0.057	0.013	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.026	J	0.057	0.016	mg/Kg	1	☼	8270E	Total/NA
Aluminum	12000		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.1		1.1		mg/Kg	1	☼	6010D	Total/NA
Barium	94		1.1		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.6		0.43		mg/Kg	1	☼	6010D	Total/NA
Calcium	87000		110		mg/Kg	5	☼	6010D	Total/NA
Chromium	5.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Cobalt	2.0		0.54		mg/Kg	1	☼	6010D	Total/NA
Copper	2.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Iron	9100		21		mg/Kg	1	☼	6010D	Total/NA
Lead	4.0		0.54		mg/Kg	1	☼	6010D	Total/NA
Magnesium	13000		11		mg/Kg	1	☼	6010D	Total/NA
Manganese	1300		1.1		mg/Kg	1	☼	6010D	Total/NA
Nickel	3.8		1.1		mg/Kg	1	☼	6010D	Total/NA
Potassium	970		54		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.1		1.1		mg/Kg	1	☼	6010D	Total/NA
Sodium	380		110		mg/Kg	1	☼	6010D	Total/NA
Thallium	6.0		1.1		mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.7		0.54		mg/Kg	1	☼	6010D	Total/NA
Zinc	19		2.1		mg/Kg	1	☼	6010D	Total/NA
Cyanide, Total	6.4	F1 F2	0.27		mg/Kg	1	☼	9012B	Total/NA
Sulfide	650		35		mg/Kg	1	☼	9034	Total/NA
pH	9.14	^+	0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CLE
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-257169-1	SB113 (0-3)	Solid	09/20/24 08:17	09/23/24 12:50
500-257169-2	SB113 (10-12.5)	Solid	09/20/24 08:42	09/23/24 12:50
500-257169-3	SB114 (0-3)	Solid	09/20/24 09:27	09/23/24 12:50
500-257169-4	SB114 (7.5-12)	Solid	09/20/24 09:43	09/23/24 12:50
500-257169-5	SB115 (0-3)	Solid	09/20/24 10:14	09/23/24 12:50
500-257169-6	SB115 (5-7.5)	Solid	09/20/24 10:26	09/23/24 12:50
500-257169-7	SB116 (0-3)	Solid	09/20/24 11:37	09/23/24 12:50
500-257169-8	SB116 (12.5-15)	Solid	09/20/24 11:59	09/23/24 12:50
500-257169-9	SB117 (0-3)	Solid	09/20/24 13:00	09/23/24 12:50
500-257169-10	SB117 (5-7.5)	Solid	09/20/24 13:09	09/23/24 12:50

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB113 (0-3)
Lab Sample ID: 500-257169-1
Date Collected: 09/20/24 08:17
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 92.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00088		0.0022	0.00088	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0022	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
1,1,2-Trichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
1,1-Dichloroethane	<0.00082		0.0022	0.00082	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
1,1-Dichloroethene	<0.00090		0.0022	0.00090	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
1,2-Dichloroethane	<0.0014		0.0055	0.0014	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
2-Hexanone	<0.0033		0.0055	0.0033	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0055	0.0039	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Acetone	<0.0092		0.022	0.0092	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Benzene	<0.00069		0.0022	0.00069	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Bromodichloromethane	<0.00070		0.0022	0.00070	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Bromoform	<0.0013		0.0022	0.0013	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Bromomethane	<0.0027		0.0055	0.0027	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Carbon disulfide	**0.0051**	**J**	0.0055	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Carbon tetrachloride	<0.00074		0.0022	0.00074	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Chlorobenzene	<0.00092		0.0022	0.00092	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Chloroethane	<0.0018		0.0055	0.0018	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Chloroform	<0.0016		0.0022	0.0016	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Chloromethane	<0.0011		0.0055	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
cis-1,2-Dichloroethene	<0.00088		0.0022	0.00088	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
1,3-Dichloropropene, Total	<0.0010		0.0022	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Dibromochloromethane	<0.0010		0.0022	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Methyl tert-butyl ether	<0.00070		0.0022	0.00070	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Methylene Chloride	<0.0023		0.0055	0.0023	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Styrene	<0.00098		0.0022	0.00098	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Tetrachloroethene	<0.0012		0.0022	0.0012	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Toluene	<0.00044		0.0022	0.00044	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Xylenes, Total	<0.00075		0.0044	0.00075	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
trans-1,2-Dichloroethene	<0.00082		0.0022	0.00082	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Trichloroethene	<0.00059		0.0022	0.00059	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1
Vinyl chloride	<0.00089		0.0022	0.00089	mg/Kg	☼	09/20/24 16:43	09/25/24 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*09/20/24 16:43*	*09/25/24 14:52*	*1*
4-Bromofluorobenzene (Surr)	*124*		*75 - 131*	*09/20/24 16:43*	*09/25/24 14:52*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*09/20/24 16:43*	*09/25/24 14:52*	*1*
Toluene-d8 (Surr)	*112*		*75 - 124*	*09/20/24 16:43*	*09/25/24 14:52*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.068**	**J**	0.071	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Acenaphthylene	<0.012		0.071	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Anthracene	**0.52**		0.071	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Benzo[a]anthracene	**1.4**		0.071	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Benzo[a]pyrene	**1.3**		0.071	0.069	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Benzo[b]fluoranthene	**1.2**		0.071	0.068	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Benzo[g,h,i]perylene	**0.66**		0.071	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB113 (0-3)
Lab Sample ID: 500-257169-1
Date Collected: 09/20/24 08:17
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**1.6**		0.071	0.027	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Chrysene	**1.3**		0.071	0.019	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Dibenz(a,h)anthracene	**0.20**		0.071	0.071	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Fluoranthene	**2.7**		0.071	0.017	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Fluorene	**0.090**		0.071	0.021	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Indeno[1,2,3-cd]pyrene	**0.77**		0.071	0.069	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Naphthalene	**0.024**	**J**	0.071	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Phenanthrene	**1.7**		0.071	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Pyrene	**2.2**		0.071	0.019	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2-Methylnaphthalene	**0.044**	**J**	0.14	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2-Methylphenol	<0.038		0.36	0.038	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
2-Nitrophenol	<0.048		0.71	0.048	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
3,3'-Dichlorobenzidine	<0.058		0.36	0.058	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
3 & 4 Methylphenol	<0.052		0.36	0.052	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
3-Nitroaniline	<0.032		0.71	0.032	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
4-Nitrophenol	<0.26		1.4	0.26	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Butyl benzyl phthalate	<0.035		0.36	0.035	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Carbazole	**0.077**	**J**	0.36	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Dibenzofuran	**0.082**	**J**	0.36	0.025	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB113 (0-3)
Lab Sample ID: 500-257169-1
Date Collected: 09/20/24 08:17
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.76		1.4	0.76	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
N-Nitrosodiphenylamine	<0.042		0.36	0.042	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2
Phenol	<0.031		0.36	0.031	mg/Kg	☼	10/01/24 15:05	10/02/24 17:13	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*64*		*31 - 166*	*10/01/24 15:05*	*10/02/24 17:13*	*2*
Phenol-d5 (Surr)	*70*		*30 - 153*	*10/01/24 15:05*	*10/02/24 17:13*	*2*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*10/01/24 15:05*	*10/02/24 17:13*	*2*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*	*10/01/24 15:05*	*10/02/24 17:13*	*2*
2,4,6-Tribromophenol (Surr)	*57*		*31 - 143*	*10/01/24 15:05*	*10/02/24 17:13*	*2*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*10/01/24 15:05*	*10/02/24 17:13*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.019	F2	0.035	0.019	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
4,4'-DDE	<0.018	F2	0.035	0.018	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
4,4'-DDT	<0.017	F2	0.035	0.017	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Aldrin	<0.024		0.035	0.024	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
alpha-BHC	<0.020		0.035	0.020	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
alpha-Chlordane	<0.019	F2	0.035	0.019	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
beta-BHC	<0.028		0.035	0.028	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Chlordane (technical)	<0.067		0.14	0.067	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
delta-BHC	<0.017		0.035	0.017	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Dieldrin	<0.018	F2	0.035	0.018	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Endosulfan I	<0.019	F2	0.035	0.019	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Endosulfan II	<0.019	F2	0.035	0.019	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Endosulfan sulfate	<0.019		0.035	0.019	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Endrin	<0.018	F2	0.035	0.018	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Endrin aldehyde	<0.020		0.035	0.020	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Endrin ketone	<0.017		0.035	0.017	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
gamma-BHC (Lindane)	<0.018	F2	0.035	0.018	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
gamma-Chlordane	<0.020		0.035	0.020	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Heptachlor	<0.019		0.035	0.019	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Heptachlor epoxide	<0.019		0.035	0.019	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Methoxychlor	<0.023	F2	0.17	0.023	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20
Toxaphene	<0.14		0.35	0.14	mg/Kg	☼	09/30/24 16:06	10/10/24 16:38	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/30/24 16:06*	*10/10/24 16:38*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/30/24 16:06*	*10/10/24 16:38*	*20*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17	F1	0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 13:26	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 13:26	10

Client Sample ID: SB113 (0-3)
Lab Sample ID: 500-257169-1
Date Collected: 09/20/24 08:17
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 92.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 13:26	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 13:26	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 13:26	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 13:26	10
PCB-1260	<0.17	F1	0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 13:26	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 13:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*49 - 129*	*09/30/24 16:06*	*10/10/24 13:26*	*10*
DCB Decachlorobiphenyl	*71*		*37 - 121*	*09/30/24 16:06*	*10/10/24 13:26*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		18		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Antimony	<1.8		1.8		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Arsenic	**4.8**		0.92		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Barium	**120**		0.92		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Beryllium	**2.9**		0.37		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Cadmium	**0.26**		0.18		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Calcium	**110000**		92		mg/Kg	☼	10/04/24 09:34	10/09/24 12:23	5
Chromium	**24**		0.92		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Cobalt	**3.7**		0.46		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Copper	**20**		0.92		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Iron	**29000**		18		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Lead	**43**		0.46		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Magnesium	**23000**		9.2		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Manganese	**1800**		0.92		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Nickel	**16**		0.92		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Potassium	**1400**		46		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Selenium	**1.7**		0.92		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Silver	<2.3		2.3		mg/Kg	☼	10/04/24 09:34	10/09/24 12:23	5
Sodium	**600**		92		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Thallium	**7.6**		0.92		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Vanadium	**17**		0.46		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1
Zinc	**83**		1.8		mg/Kg	☼	10/04/24 09:34	10/08/24 15:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	10/04/24 15:35	10/07/24 07:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.8**		0.26		mg/Kg	☼	10/01/24 10:44	10/01/24 14:41	1
pH (SW846 9045D)	**8.27**		0.20		SU			09/27/24 16:49	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB113 (10-12.5)
Lab Sample ID: 500-257169-2
Date Collected: 09/20/24 08:42
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 79.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00084		0.0021	0.00084	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
1,1,2,2-Tetrachloroethane	<0.0010	*3	0.0021	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
1,1,2-Trichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
1,1-Dichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
1,1-Dichloroethene	<0.00085		0.0021	0.00085	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
1,2-Dichloroethane	<0.0013		0.0052	0.0013	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
1,2-Dichloropropane	<0.00053		0.0021	0.00053	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
2-Hexanone	<0.0031		0.0052	0.0031	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0052	0.0037	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Acetone	<0.0087		0.021	0.0087	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Benzene	<0.00065		0.0021	0.00065	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Bromodichloromethane	<0.00067		0.0021	0.00067	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Bromomethane	<0.0026		0.0052	0.0026	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Carbon disulfide	**0.0050**	**J**	0.0052	0.00095	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Carbon tetrachloride	<0.00071		0.0021	0.00071	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Chlorobenzene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Chloroethane	<0.0017		0.0052	0.0017	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Chloromethane	<0.0010		0.0052	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
cis-1,2-Dichloroethene	<0.00084		0.0021	0.00084	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
1,3-Dichloropropene, Total	<0.00099		0.0021	0.00099	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Dibromochloromethane	<0.00096		0.0021	0.00096	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Methyl tert-butyl ether	<0.00067		0.0021	0.00067	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Methylene Chloride	<0.0022		0.0052	0.0022	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Styrene	<0.00093		0.0021	0.00093	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Toluene	<0.00042		0.0021	0.00042	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Xylenes, Total	<0.00071		0.0041	0.00071	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
trans-1,2-Dichloroethene	<0.00078		0.0021	0.00078	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Trichloroethene	<0.00056		0.0021	0.00056	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1
Vinyl chloride	<0.00085		0.0021	0.00085	mg/Kg	☼	09/20/24 16:43	09/25/24 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*09/20/24 16:43*	*09/25/24 15:17*	*1*
4-Bromofluorobenzene (Surr)	*116*	*3*	*75 - 131*	*09/20/24 16:43*	*09/25/24 15:17*	*1*
Dibromofluoromethane	*97*		*75 - 126*	*09/20/24 16:43*	*09/25/24 15:17*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*09/20/24 16:43*	*09/25/24 15:17*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.013**	**J**	0.061	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Acenaphthylene	<0.010		0.061	0.010	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Anthracene	**0.018**	**J**	0.061	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Benzo[a]anthracene	**0.033**	**J**	0.061	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Benzo[a]pyrene	<0.059		0.061	0.059	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Benzo[b]fluoranthene	<0.058		0.061	0.058	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Benzo[g,h,i]perylene	<0.013		0.061	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB113 (10-12.5)
Lab Sample ID: 500-257169-2
Date Collected: 09/20/24 08:42
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 79.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.023		0.061	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Chrysene	**0.038**	**J**	0.061	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Dibenz(a,h)anthracene	<0.061		0.061	0.061	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Fluoranthene	**0.052**	**J**	0.061	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Fluorene	<0.018		0.061	0.018	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Indeno[1,2,3-cd]pyrene	<0.060		0.061	0.060	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Naphthalene	<0.011		0.061	0.011	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Phenanthrene	**0.068**		0.061	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Pyrene	**0.071**		0.061	0.017	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
1,2,4-Trichlorobenzene	<0.044		0.31	0.044	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
1,2-Dichlorobenzene	<0.025		0.31	0.025	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
1,3-Dichlorobenzene	<0.028		0.31	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
1,4-Dichlorobenzene	<0.029		0.31	0.029	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2,4,5-Trichlorophenol	<0.023		0.61	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2,4,6-Trichlorophenol	<0.021		0.61	0.021	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2,4-Dichlorophenol	<0.022		0.61	0.022	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2,4-Dimethylphenol	<0.14		0.61	0.14	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2,4-Dinitrophenol	<0.35		1.2	0.35	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2,4-Dinitrotoluene	<0.035		0.31	0.035	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2,6-Dinitrotoluene	<0.021		0.31	0.021	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2-Chloronaphthalene	<0.023		0.31	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2-Chlorophenol	<0.020		0.31	0.020	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2-Methylnaphthalene	<0.012		0.12	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2-Methylphenol	<0.032		0.31	0.032	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2-Nitroaniline	<0.033		0.31	0.033	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
2-Nitrophenol	<0.042		0.61	0.042	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
3,3'-Dichlorobenzidine	<0.050		0.31	0.050	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
3 & 4 Methylphenol	<0.045		0.31	0.045	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
3-Nitroaniline	<0.028		0.61	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
4,6-Dinitro-2-methylphenol	<0.35		1.2	0.35	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
4-Bromophenyl phenyl ether	<0.042		0.31	0.042	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
4-Chloro-3-methylphenol	<0.024		0.61	0.024	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
4-Chloroaniline	<0.64		1.2	0.64	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
4-Chlorophenyl phenyl ether	<0.080		0.31	0.080	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
4-Nitroaniline	<0.045		0.61	0.045	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
4-Nitrophenol	<0.23		1.2	0.23	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Bis(2-chloroethoxy)methane	<0.023		0.31	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Bis(2-chloroethyl)ether	<0.028		0.31	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
bis(chloroisopropyl) ether	<0.044		0.31	0.044	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Bis(2-ethylhexyl) phthalate	<0.24		0.31	0.24	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Butyl benzyl phthalate	<0.030		0.31	0.030	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Carbazole	<0.024		0.31	0.024	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Dibenzofuran	<0.022		0.31	0.022	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Diethyl phthalate	<0.028		0.31	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Dimethyl phthalate	<0.013		0.31	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Di-n-butyl phthalate	<0.019		0.31	0.019	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Di-n-octyl phthalate	<0.43		0.61	0.43	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Hexachlorobenzene	<0.012		0.12	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Hexachlorobutadiene	<0.035		0.31	0.035	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1

Client Sample ID: SB113 (10-12.5) | **Lab Sample ID: 500-257169-2**
Date Collected: 09/20/24 08:42 | **Matrix: Solid**
Date Received: 09/23/24 12:50 | **Percent Solids: 79.7**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.65		1.2	0.65	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Hexachloroethane	<0.031		0.31	0.031	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Isophorone	<0.032		0.31	0.032	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Nitrobenzene	<0.019		0.061	0.019	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
N-Nitrosodi-n-propylamine	<0.012		0.12	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
N-Nitrosodiphenylamine	<0.036		0.31	0.036	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Pentachlorophenol	<0.15		1.2	0.15	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1
Phenol	<0.027		0.31	0.027	mg/Kg	☼	10/01/24 15:05	10/02/24 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*77*		*31 - 166*	*10/01/24 15:05*	*10/02/24 13:02*	*1*
Phenol-d5 (Surr)	*80*		*30 - 153*	*10/01/24 15:05*	*10/02/24 13:02*	*1*
Nitrobenzene-d5 (Surr)	*85*		*37 - 147*	*10/01/24 15:05*	*10/02/24 13:02*	*1*
2-Fluorobiphenyl (Surr)	*84*		*43 - 145*	*10/01/24 15:05*	*10/02/24 13:02*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*31 - 143*	*10/01/24 15:05*	*10/02/24 13:02*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*10/01/24 15:05*	*10/02/24 13:02*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
4,4'-DDE	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
4,4'-DDT	<0.0098		0.021	0.0098	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Aldrin	<0.014		0.021	0.014	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
alpha-BHC	<0.012		0.021	0.012	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
alpha-Chlordane	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
beta-BHC	<0.017		0.021	0.017	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Chlordane (technical)	<0.039		0.082	0.039	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
delta-BHC	<0.0099		0.021	0.0099	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Dieldrin	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Endosulfan I	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Endosulfan II	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Endosulfan sulfate	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Endrin	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Endrin aldehyde	<0.012		0.021	0.012	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Endrin ketone	<0.010		0.021	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
gamma-BHC (Lindane)	<0.010		0.021	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
gamma-Chlordane	<0.012		0.021	0.012	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Heptachlor	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Heptachlor epoxide	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Methoxychlor	<0.014		0.10	0.014	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10
Toxaphene	<0.083		0.20	0.083	mg/Kg	☼	09/30/24 16:06	10/09/24 16:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*32*	*S1-*	*33 - 148*	*09/30/24 16:06*	*10/09/24 16:01*	*10*
Tetrachloro-m-xylene	*119*		*30 - 121*	*09/30/24 16:06*	*10/09/24 16:01*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 14:12	10
PCB-1221	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 14:12	10

Client Sample ID: SB113 (10-12.5)
Lab Sample ID: 500-257169-2
Date Collected: 09/20/24 08:42
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 79.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 14:12	10
PCB-1242	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 14:12	10
PCB-1248	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 14:12	10
PCB-1254	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 14:12	10
PCB-1260	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 14:12	10
Polychlorinated biphenyls, Total	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 14:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*09/30/24 16:06*	*10/10/24 14:12*	*10*
DCB Decachlorobiphenyl	*66*		*37 - 121*	*09/30/24 16:06*	*10/10/24 14:12*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2300**		22		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Antimony	<2.2		2.2		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Arsenic	**8.8**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Barium	**16**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Beryllium	<0.44		0.44		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Cadmium	<0.22		0.22		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Calcium	**39000**		22		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Chromium	**4.6**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Cobalt	**2.6**		0.55		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Copper	**5.9**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Iron	**11000**		22		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Lead	**10**		0.55		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Magnesium	**19000**		11		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Manganese	**250**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Nickel	**4.8**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Potassium	**490**		55		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Selenium	<1.1		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Silver	<0.55		0.55		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Sodium	**150**		110		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Thallium	**1.3**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Vanadium	**11**		0.55		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1
Zinc	**27**		2.2		mg/Kg	☼	10/04/24 09:34	10/08/24 16:01	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019		mg/Kg	☼	10/04/24 15:35	10/07/24 07:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.5**		0.30		mg/Kg	☼	10/01/24 10:44	10/02/24 11:13	1
pH (SW846 9045D)	**8.92**		0.20		SU			09/27/24 16:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB114 (0-3)
Lab Sample ID: 500-257169-3
Date Collected: 09/20/24 09:27
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 90.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.029**		0.022		mg/Kg	☼		10/04/24 11:45	1
Benzene	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Bromodichloromethane	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Bromoform	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Bromomethane	<0.0056		0.0056		mg/Kg	☼		10/04/24 11:45	1
2-Butanone (MEK)	<0.0056		0.0056		mg/Kg	☼		10/04/24 11:45	1
Carbon disulfide	<0.0056		0.0056		mg/Kg	☼		10/04/24 11:45	1
Carbon tetrachloride	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Chlorobenzene	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Chloroethane	<0.0056		0.0056		mg/Kg	☼		10/04/24 11:45	1
Chloroform	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Chloromethane	<0.0056	*+	0.0056		mg/Kg	☼		10/04/24 11:45	1
cis-1,2-Dichloroethene	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Dibromochloromethane	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
1,1-Dichloroethane	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
1,2-Dichloroethane	<0.0056		0.0056		mg/Kg	☼		10/04/24 11:45	1
1,1-Dichloroethene	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
1,2-Dichloropropane	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
1,3-Dichloropropene, Total	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Ethylbenzene	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
2-Hexanone	<0.0056		0.0056		mg/Kg	☼		10/04/24 11:45	1
Methylene Chloride	<0.0056		0.0056		mg/Kg	☼		10/04/24 11:45	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056		mg/Kg	☼		10/04/24 11:45	1
Methyl tert-butyl ether	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Styrene	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Tetrachloroethene	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Toluene	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
trans-1,2-Dichloroethene	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
1,1,1-Trichloroethane	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
1,1,2-Trichloroethane	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Trichloroethene	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Vinyl chloride	<0.0022		0.0022		mg/Kg	☼		10/04/24 11:45	1
Xylenes, Total	<0.0044		0.0044		mg/Kg	☼		10/04/24 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*		*10/04/24 11:45*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*10/04/24 11:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*10/04/24 11:45*	*1*
Toluene-d8 (Surr)	*124*		*75 - 124*		*10/04/24 11:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015		0.072	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Acenaphthylene	<0.012		0.072	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Anthracene	<0.015		0.072	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Benzo[a]anthracene	<0.015		0.072	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Benzo[a]pyrene	<0.070	*3	0.072	0.070	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Benzo[b]fluoranthene	<0.069	*3	0.072	0.069	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Benzo[g,h,i]perylene	<0.016	*3	0.072	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB114 (0-3)
Lab Sample ID: 500-257169-3
Date Collected: 09/20/24 09:27
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 90.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.028	*3	0.072	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Chrysene	**0.053**	**J**	0.072	0.019	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Dibenz(a,h)anthracene	<0.072	*3	0.072	0.072	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Fluoranthene	**0.069**	**J**	0.072	0.017	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Fluorene	<0.022		0.072	0.022	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Indeno[1,2,3-cd]pyrene	<0.071	*3	0.072	0.071	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Naphthalene	<0.013		0.072	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Phenanthrene	**0.034**	**J**	0.072	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Pyrene	**0.062**	**J**	0.072	0.020	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
1,2,4-Trichlorobenzene	<0.052		0.37	0.052	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
1,3-Dichlorobenzene	<0.033		0.37	0.033	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
1,4-Dichlorobenzene	<0.034		0.37	0.034	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2,4,5-Trichlorophenol	<0.027		0.72	0.027	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2,4,6-Trichlorophenol	<0.025		0.72	0.025	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2,4-Dichlorophenol	<0.026		0.72	0.026	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2,4-Dimethylphenol	<0.16		0.72	0.16	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2,4-Dinitrophenol	<0.42		1.5	0.42	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2,4-Dinitrotoluene	<0.041		0.37	0.041	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2-Chloronaphthalene	<0.027		0.37	0.027	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2-Chlorophenol	<0.023		0.37	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2-Methylnaphthalene	<0.015		0.15	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2-Methylphenol	<0.038		0.37	0.038	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2-Nitroaniline	<0.039		0.37	0.039	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
2-Nitrophenol	<0.049		0.72	0.049	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
3,3'-Dichlorobenzidine	<0.059		0.37	0.059	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
3 & 4 Methylphenol	<0.053		0.37	0.053	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
3-Nitroaniline	<0.033		0.72	0.033	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
4,6-Dinitro-2-methylphenol	<0.41		1.5	0.41	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
4-Bromophenyl phenyl ether	<0.050		0.37	0.050	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
4-Chloro-3-methylphenol	<0.028		0.72	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
4-Chloroaniline	<0.76		1.5	0.76	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
4-Chlorophenyl phenyl ether	<0.095		0.37	0.095	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
4-Nitroaniline	<0.054		0.72	0.054	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
4-Nitrophenol	<0.27		1.5	0.27	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Bis(2-chloroethoxy)methane	<0.027		0.37	0.027	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Bis(2-chloroethyl)ether	<0.034		0.37	0.034	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
bis(chloroisopropyl) ether	<0.052		0.37	0.052	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Bis(2-ethylhexyl) phthalate	<0.29		0.37	0.29	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Butyl benzyl phthalate	<0.036		0.37	0.036	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Carbazole	<0.029		0.37	0.029	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Dibenzofuran	<0.026		0.37	0.026	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Diethyl phthalate	<0.033		0.37	0.033	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Di-n-butyl phthalate	<0.023		0.37	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Di-n-octyl phthalate	<0.51		0.72	0.51	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Hexachlorobutadiene	<0.041		0.37	0.041	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB114 (0-3)
Lab Sample ID: 500-257169-3
Date Collected: 09/20/24 09:27
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 90.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.77		1.5	0.77	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Hexachloroethane	<0.036		0.37	0.036	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Isophorone	<0.038		0.37	0.038	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Nitrobenzene	<0.023		0.072	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
N-Nitrosodi-n-propylamine	<0.014		0.15	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
N-Nitrosodiphenylamine	<0.043		0.37	0.043	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Pentachlorophenol	<0.18		1.5	0.18	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2
Phenol	<0.032		0.37	0.032	mg/Kg	☼	10/01/24 15:05	10/02/24 17:38	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*54*		*31 - 166*	*10/01/24 15:05*	*10/02/24 17:38*	*2*
Phenol-d5 (Surr)	*59*		*30 - 153*	*10/01/24 15:05*	*10/02/24 17:38*	*2*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*10/01/24 15:05*	*10/02/24 17:38*	*2*
2-Fluorobiphenyl (Surr)	*64*		*43 - 145*	*10/01/24 15:05*	*10/02/24 17:38*	*2*
2,4,6-Tribromophenol (Surr)	*26*	*S1-*	*31 - 143*	*10/01/24 15:05*	*10/02/24 17:38*	*2*
Terphenyl-d14 (Surr)	*62*		*42 - 157*	*10/01/24 15:05*	*10/02/24 17:38*	*2*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
4,4'-DDE	<0.0095		0.019	0.0095	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Chlordane (technical)	<0.035		0.074	0.035	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Endrin	<0.0095		0.019	0.0095	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
gamma-BHC (Lindane)	<0.0092		0.019	0.0092	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/30/24 16:06	10/09/24 16:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*33 - 148*	*09/30/24 16:06*	*10/09/24 16:12*	*10*
Tetrachloro-m-xylene	*80*		*30 - 121*	*09/30/24 16:06*	*10/09/24 16:12*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:27	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:27	10

Client Sample ID: SB114 (0-3)
Date Collected: 09/20/24 09:27
Date Received: 09/23/24 12:50

Lab Sample ID: 500-257169-3
Matrix: Solid
Percent Solids: 90.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:27	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:27	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:27	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:27	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:27	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*49 - 129*	*09/30/24 16:06*	*10/10/24 14:27*	*10*
DCB Decachlorobiphenyl	*67*		*37 - 121*	*09/30/24 16:06*	*10/10/24 14:27*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**23000**		20		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Antimony	<2.0		2.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Arsenic	**1.7**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Barium	**240**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Beryllium	**6.4**		0.40		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Cadmium	<0.20		0.20		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Calcium	**190000**		100		mg/Kg	☼	10/04/24 09:34	10/09/24 12:28	5
Chromium	**8.1**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Cobalt	**0.79**		0.50		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Copper	**1.5**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Iron	**13000**		20		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Lead	<2.5		2.5		mg/Kg	☼	10/04/24 09:34	10/09/24 12:28	5
Magnesium	**35000**		10		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Manganese	**970**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Nickel	**1.4**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Potassium	**1100**		50		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Selenium	**3.1**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Silver	<2.5		2.5		mg/Kg	☼	10/04/24 09:34	10/09/24 12:28	5
Sodium	**1100**		100		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Thallium	**4.9**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Vanadium	**6.2**		0.50		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1
Zinc	**4.1**		2.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	10/04/24 15:35	10/07/24 07:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.90**		0.26		mg/Kg	☼	10/01/24 10:44	10/02/24 11:15	1
pH (SW846 9045D)	**9.86**		0.20		SU			09/27/24 16:53	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB114 (7.5-12)
Lab Sample ID: 500-257169-4
Date Collected: 09/20/24 09:43
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 90.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00098		0.0024	0.00098	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
1,1,2,2-Tetrachloroethane	<0.0012		0.0024	0.0012	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
1,1,2-Trichloroethane	<0.00091		0.0024	0.00091	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
1,1-Dichloroethane	<0.00091		0.0024	0.00091	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
1,1-Dichloroethene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
1,2-Dichloroethane	<0.0016		0.0061	0.0016	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
1,2-Dichloropropane	<0.00062		0.0024	0.00062	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
2-Butanone (MEK)	<0.0027		0.0061	0.0027	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
2-Hexanone	<0.0037		0.0061	0.0037	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0061	0.0043	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Acetone	<0.010		0.024	0.010	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Benzene	<0.00076		0.0024	0.00076	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Bromodichloromethane	<0.00078		0.0024	0.00078	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Bromoform	<0.0014		0.0024	0.0014	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Bromomethane	<0.0030		0.0061	0.0030	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Carbon disulfide	**0.0066**		0.0061	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Carbon tetrachloride	<0.00083		0.0024	0.00083	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Chlorobenzene	<0.0010		0.0024	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Chloroethane	<0.0020		0.0061	0.0020	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Chloroform	<0.0017		0.0024	0.0017	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Chloromethane	<0.0012		0.0061	0.0012	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
cis-1,2-Dichloroethene	<0.00098		0.0024	0.00098	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
1,3-Dichloropropene, Total	<0.0012		0.0024	0.0012	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Dibromochloromethane	<0.0011		0.0024	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Ethylbenzene	<0.0013		0.0024	0.0013	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Methyl tert-butyl ether	<0.00078		0.0024	0.00078	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Methylene Chloride	<0.0026		0.0061	0.0026	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Styrene	<0.0011		0.0024	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Tetrachloroethene	<0.0014		0.0024	0.0014	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Toluene	<0.00049		0.0024	0.00049	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Xylenes, Total	<0.00083		0.0048	0.00083	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
trans-1,2-Dichloroethene	<0.00092		0.0024	0.00092	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Trichloroethene	<0.00066		0.0024	0.00066	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1
Vinyl chloride	<0.00099		0.0024	0.00099	mg/Kg	☼	09/20/24 16:43	09/25/24 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*09/20/24 16:43*	*09/25/24 15:42*	*1*
4-Bromofluorobenzene (Surr)	*121*		*75 - 131*	*09/20/24 16:43*	*09/25/24 15:42*	*1*
Dibromofluoromethane	*76*		*75 - 126*	*09/20/24 16:43*	*09/25/24 15:42*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*09/20/24 16:43*	*09/25/24 15:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.012**	**J**	0.036	0.0074	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Acenaphthylene	<0.0062		0.036	0.0062	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Anthracene	**0.066**		0.036	0.0074	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Benzo[a]anthracene	**0.46**		0.036	0.0077	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Benzo[a]pyrene	**0.35**		0.036	0.035	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Benzo[b]fluoranthene	**0.38**		0.036	0.035	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Benzo[g,h,i]perylene	**0.17**		0.036	0.0079	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB114 (7.5-12)
Lab Sample ID: 500-257169-4
Date Collected: 09/20/24 09:43
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 90.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.45**		0.036	0.014	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Chrysene	**0.49**		0.036	0.0096	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Dibenz(a,h)anthracene	**0.051**		0.036	0.036	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Fluoranthene	**0.74**		0.036	0.0085	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Fluorene	<0.011		0.036	0.011	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Indeno[1,2,3-cd]pyrene	**0.19**		0.036	0.035	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Naphthalene	**0.010**	**J**	0.036	0.0066	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Phenanthrene	**0.26**		0.036	0.0079	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Pyrene	**1.1**		0.036	0.010	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
1,2,4-Trichlorobenzene	<0.026		0.18	0.026	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
1,2-Dichlorobenzene	<0.015		0.18	0.015	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
1,3-Dichlorobenzene	<0.016		0.18	0.016	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
1,4-Dichlorobenzene	<0.017		0.18	0.017	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2,4,5-Trichlorophenol	<0.014		0.36	0.014	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2,4,6-Trichlorophenol	<0.012		0.36	0.012	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2,4-Dichlorophenol	<0.013		0.36	0.013	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2,4-Dimethylphenol	<0.082		0.36	0.082	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2,4-Dinitrotoluene	<0.021		0.18	0.021	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2,6-Dinitrotoluene	<0.012		0.18	0.012	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2-Chloronaphthalene	<0.014		0.18	0.014	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2-Chlorophenol	<0.012		0.18	0.012	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2-Methylnaphthalene	**0.015**	**J**	0.074	0.0073	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2-Methylphenol	<0.019		0.18	0.019	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2-Nitroaniline	<0.020		0.18	0.020	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
2-Nitrophenol	<0.025		0.36	0.025	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
3,3'-Dichlorobenzidine	<0.030		0.18	0.030	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
3 & 4 Methylphenol	<0.027		0.18	0.027	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
3-Nitroaniline	<0.017		0.36	0.017	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
4-Bromophenyl phenyl ether	<0.025		0.18	0.025	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
4-Chloro-3-methylphenol	<0.014		0.36	0.014	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
4-Chloroaniline	<0.38		0.74	0.38	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
4-Chlorophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
4-Nitroaniline	<0.027		0.36	0.027	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Bis(2-chloroethoxy)methane	<0.014		0.18	0.014	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Bis(2-chloroethyl)ether	<0.017		0.18	0.017	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
bis(chloroisopropyl) ether	<0.026		0.18	0.026	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Bis(2-ethylhexyl) phthalate	<0.14		0.18	0.14	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Butyl benzyl phthalate	<0.018		0.18	0.018	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Carbazole	<0.014		0.18	0.014	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Dibenzofuran	<0.013		0.18	0.013	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Diethyl phthalate	**0.037**	**J**	0.18	0.017	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Dimethyl phthalate	<0.0079		0.18	0.0079	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Di-n-butyl phthalate	<0.012		0.18	0.012	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Di-n-octyl phthalate	<0.25		0.36	0.25	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Hexachlorobenzene	<0.0070		0.074	0.0070	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Hexachlorobutadiene	<0.021		0.18	0.021	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB114 (7.5-12)
Lab Sample ID: 500-257169-4
Date Collected: 09/20/24 09:43
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 90.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Hexachloroethane	<0.018		0.18	0.018	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Isophorone	<0.019		0.18	0.019	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Nitrobenzene	<0.012		0.036	0.012	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
N-Nitrosodi-n-propylamine	<0.0072		0.074	0.0072	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
N-Nitrosodiphenylamine	<0.022		0.18	0.022	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Pentachlorophenol	<0.091		0.74	0.091	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1
Phenol	<0.016		0.18	0.016	mg/Kg	☼	10/01/24 15:05	10/03/24 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*31 - 166*	*10/01/24 15:05*	*10/03/24 13:07*	*1*
Phenol-d5 (Surr)	*68*		*30 - 153*	*10/01/24 15:05*	*10/03/24 13:07*	*1*
Nitrobenzene-d5 (Surr)	*68*		*37 - 147*	*10/01/24 15:05*	*10/03/24 13:07*	*1*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*10/01/24 15:05*	*10/03/24 13:07*	*1*
2,4,6-Tribromophenol (Surr)	*29*	*S1-*	*31 - 143*	*10/01/24 15:05*	*10/03/24 13:07*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*10/01/24 15:05*	*10/03/24 13:07*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0098		0.018	0.0098	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
4,4'-DDE	<0.0094		0.018	0.0094	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
4,4'-DDT	<0.0087		0.018	0.0087	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Aldrin	<0.013		0.018	0.013	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
alpha-BHC	<0.010		0.018	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
alpha-Chlordane	<0.0098		0.018	0.0098	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
beta-BHC	<0.015		0.018	0.015	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Chlordane (technical)	<0.035		0.073	0.035	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
delta-BHC	<0.0087		0.018	0.0087	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Dieldrin	<0.0096		0.018	0.0096	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Endosulfan I	<0.0099		0.018	0.0099	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Endosulfan II	<0.010		0.018	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Endosulfan sulfate	<0.010		0.018	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Endrin	<0.0093		0.018	0.0093	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Endrin aldehyde	<0.010		0.018	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Endrin ketone	<0.0089		0.018	0.0089	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
gamma-BHC (Lindane)	<0.0091		0.018	0.0091	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
gamma-Chlordane	<0.011		0.018	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Heptachlor	<0.0099		0.018	0.0099	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Heptachlor epoxide	<0.0099		0.018	0.0099	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Methoxychlor	<0.012		0.090	0.012	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10
Toxaphene	<0.073		0.18	0.073	mg/Kg	☼	09/30/24 16:06	10/09/24 16:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*33 - 148*	*09/30/24 16:06*	*10/09/24 16:24*	*10*
Tetrachloro-m-xylene	*118*		*30 - 121*	*09/30/24 16:06*	*10/09/24 16:24*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:43	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:43	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB114 (7.5-12)
Lab Sample ID: 500-257169-4
Date Collected: 09/20/24 09:43
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 90.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:43	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:43	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:43	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:43	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:43	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 14:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*49 - 129*	*09/30/24 16:06*	*10/10/24 14:43*	*10*
DCB Decachlorobiphenyl	*72*		*37 - 121*	*09/30/24 16:06*	*10/10/24 14:43*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17000**		20		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Antimony	<2.0		2.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Arsenic	**1.9**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Barium	**180**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Beryllium	**4.5**		0.40		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Cadmium	<0.20		0.20		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Calcium	**140000**		100		mg/Kg	☼	10/04/24 09:34	10/09/24 12:32	5
Chromium	**7.0**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Cobalt	**1.5**		0.50		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Copper	**3.9**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Iron	**11000**		20		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Lead	**9.3**		0.50		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Magnesium	**23000**		10		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Manganese	**1000**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Nickel	**4.3**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Potassium	**790**		50		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Selenium	**2.2**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Silver	<2.5		2.5		mg/Kg	☼	10/04/24 09:34	10/09/24 12:32	5
Sodium	**620**		100		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Thallium	**4.9**		1.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Vanadium	**6.6**		0.50		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1
Zinc	**21**		2.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:10	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	10/04/24 15:35	10/07/24 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**4.8**		0.26		mg/Kg	☼	10/01/24 10:44	10/02/24 11:17	1
pH (SW846 9045D)	**10.66**		0.20		SU			09/27/24 16:56	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB115 (0-3)
Lab Sample ID: 500-257169-5
Date Collected: 09/20/24 10:14
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 89.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00086		0.0021	0.00086	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
1,1,2,2-Tetrachloroethane	<0.0011	*3	0.0021	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
1,1,2-Trichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
1,1-Dichloroethane	<0.00080		0.0021	0.00080	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
1,1-Dichloroethene	<0.00088		0.0021	0.00088	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
1,2-Dichloroethane	<0.0014		0.0053	0.0014	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
2-Butanone (MEK)	<0.0023		0.0053	0.0023	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
2-Hexanone	<0.0032		0.0053	0.0032	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0053	0.0038	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Acetone	<0.0089		0.021	0.0089	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Benzene	<0.00067		0.0021	0.00067	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Bromodichloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Bromomethane	<0.0026		0.0053	0.0026	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Carbon disulfide	**0.0051**	**J**	0.0053	0.00098	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Carbon tetrachloride	<0.00073		0.0021	0.00073	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Chlorobenzene	<0.00090		0.0021	0.00090	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Chloroethane	<0.0017		0.0053	0.0017	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Chloromethane	<0.0010		0.0053	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
cis-1,2-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Dibromochloromethane	<0.00099		0.0021	0.00099	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Methyl tert-butyl ether	<0.00069		0.0021	0.00069	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Methylene Chloride	<0.0023		0.0053	0.0023	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Styrene	<0.00096		0.0021	0.00096	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Toluene	**0.0014**	**J**	0.0021	0.00043	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Xylenes, Total	**0.0022**	**J**	0.0043	0.00073	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
trans-1,2-Dichloroethene	<0.00081		0.0021	0.00081	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Trichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1
Vinyl chloride	<0.00087		0.0021	0.00087	mg/Kg	☼	09/20/24 16:43	09/25/24 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*09/20/24 16:43*	*09/25/24 16:07*	*1*
4-Bromofluorobenzene (Surr)	*136*	*3 S1+	*75 - 131*	*09/20/24 16:43*	*09/25/24 16:07*	*1*
Dibromofluoromethane	*97*		*75 - 126*	*09/20/24 16:43*	*09/25/24 16:07*	*1*
Toluene-d8 (Surr)	*129*	*S1+	*75 - 124*	*09/20/24 16:43*	*09/25/24 16:07*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**2.6**		0.074	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Acenaphthylene	**0.078**		0.074	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Anthracene	**14**		0.074	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Benzo[g,h,i]perylene	**9.6**		0.074	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Benzo[k]fluoranthene	**18**		0.074	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Dibenz(a,h)anthracene	**4.7**		0.074	0.074	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Fluorene	**3.9**		0.074	0.022	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2

Client Sample ID: SB115 (0-3)
Lab Sample ID: 500-257169-5
Date Collected: 09/20/24 10:14
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 89.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**12**		0.074	0.072	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Naphthalene	**3.3**		0.074	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
1,2,4-Trichlorobenzene	<0.053		0.37	0.053	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
1,2-Dichlorobenzene	<0.030		0.37	0.030	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
1,3-Dichlorobenzene	<0.034		0.37	0.034	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
1,4-Dichlorobenzene	<0.035		0.37	0.035	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2,4,5-Trichlorophenol	<0.028		0.74	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2,4,6-Trichlorophenol	<0.025		0.74	0.025	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2,4-Dichlorophenol	<0.026		0.74	0.026	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2,4-Dimethylphenol	<0.17		0.74	0.17	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2,4-Dinitrophenol	<0.43		1.5	0.43	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2,4-Dinitrotoluene	<0.042		0.37	0.042	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2,6-Dinitrotoluene	<0.025		0.37	0.025	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2-Chloronaphthalene	<0.028		0.37	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2-Chlorophenol	<0.024		0.37	0.024	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2-Methylnaphthalene	**1.3**		0.15	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2-Methylphenol	<0.039		0.37	0.039	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2-Nitroaniline	<0.040		0.37	0.040	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
2-Nitrophenol	<0.050		0.74	0.050	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
3,3'-Dichlorobenzidine	<0.061		0.37	0.061	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
3 & 4 Methylphenol	<0.054		0.37	0.054	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
3-Nitroaniline	<0.034		0.74	0.034	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
4,6-Dinitro-2-methylphenol	<0.42		1.5	0.42	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
4-Bromophenyl phenyl ether	<0.051		0.37	0.051	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
4-Chloro-3-methylphenol	<0.029		0.74	0.029	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
4-Chloroaniline	<0.78		1.5	0.78	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
4-Chlorophenyl phenyl ether	<0.097		0.37	0.097	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
4-Nitroaniline	<0.055		0.74	0.055	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
4-Nitrophenol	<0.28		1.5	0.28	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Bis(2-chloroethoxy)methane	<0.028		0.37	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Bis(2-chloroethyl)ether	<0.034		0.37	0.034	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
bis(chloroisopropyl) ether	<0.053		0.37	0.053	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Bis(2-ethylhexyl) phthalate	<0.29		0.37	0.29	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Butyl benzyl phthalate	<0.037		0.37	0.037	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Carbazole	**2.7**		0.37	0.029	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Dibenzofuran	**3.4**		0.37	0.026	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Diethyl phthalate	<0.034		0.37	0.034	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Dimethyl phthalate	<0.016		0.37	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Di-n-butyl phthalate	<0.023		0.37	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Di-n-octyl phthalate	<0.52		0.74	0.52	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Hexachlorobenzene	<0.014		0.15	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Hexachlorobutadiene	<0.042		0.37	0.042	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Hexachlorocyclopentadiene	<0.79		1.5	0.79	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Hexachloroethane	<0.037		0.37	0.037	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Isophorone	<0.038		0.37	0.038	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Nitrobenzene	<0.023		0.074	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
N-Nitrosodi-n-propylamine	<0.015		0.15	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
N-Nitrosodiphenylamine	<0.044		0.37	0.044	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2
Pentachlorophenol	<0.19		1.5	0.19	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2

Client Sample ID: SB115 (0-3)
Lab Sample ID: 500-257169-5
Date Collected: 09/20/24 10:14
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 89.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.032		0.37	0.032	mg/Kg	☼	10/01/24 15:05	10/02/24 18:03	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*58*		*31 - 166*	*10/01/24 15:05*	*10/02/24 18:03*	*2*
Phenol-d5 (Surr)	*65*		*30 - 153*	*10/01/24 15:05*	*10/02/24 18:03*	*2*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*10/01/24 15:05*	*10/02/24 18:03*	*2*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*10/01/24 15:05*	*10/02/24 18:03*	*2*
2,4,6-Tribromophenol (Surr)	*21*	*S1-*	*31 - 143*	*10/01/24 15:05*	*10/02/24 18:03*	*2*
Terphenyl-d14 (Surr)	*70*		*42 - 157*	*10/01/24 15:05*	*10/02/24 18:03*	*2*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**28**		0.74	0.16	mg/Kg	☼	10/01/24 15:05	10/03/24 13:32	20
Benzo[a]pyrene	**25**		0.74	0.72	mg/Kg	☼	10/01/24 15:05	10/03/24 13:32	20
Benzo[b]fluoranthene	**27**		0.74	0.71	mg/Kg	☼	10/01/24 15:05	10/03/24 13:32	20
Chrysene	**28**		0.74	0.20	mg/Kg	☼	10/01/24 15:05	10/03/24 13:32	20
Fluoranthene	**60**		0.74	0.17	mg/Kg	☼	10/01/24 15:05	10/03/24 13:32	20
Phenanthrene	**41**		0.74	0.16	mg/Kg	☼	10/01/24 15:05	10/03/24 13:32	20
Pyrene	**48**		0.74	0.20	mg/Kg	☼	10/01/24 15:05	10/03/24 13:32	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*0*	*S1-*	*31 - 166*	*10/01/24 15:05*	*10/03/24 13:32*	*20*
Phenol-d5 (Surr)	*0*	*S1-*	*30 - 153*	*10/01/24 15:05*	*10/03/24 13:32*	*20*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*37 - 147*	*10/01/24 15:05*	*10/03/24 13:32*	*20*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*43 - 145*	*10/01/24 15:05*	*10/03/24 13:32*	*20*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*10/01/24 15:05*	*10/03/24 13:32*	*20*
Terphenyl-d14 (Surr)	*0*	*S1-*	*42 - 157*	*10/01/24 15:05*	*10/03/24 13:32*	*20*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
4,4'-DDE	<0.0097		0.019	0.0097	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
4,4'-DDT	<0.0089		0.019	0.0089	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
Chlordane (technical)	<0.036		0.075	0.036	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
delta-BHC	<0.0090		0.019	0.0090	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
Dieldrin	<0.0098		0.019	0.0098	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
Endrin	<0.0096		0.019	0.0096	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
Endrin ketone	<0.0092		0.019	0.0092	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
gamma-BHC (Lindane)	<0.0094		0.019	0.0094	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10

Client Sample ID: SB115 (0-3)
Lab Sample ID: 500-257169-5
Date Collected: 09/20/24 10:14
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 89.0

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.012		0.093	0.012	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10
Toxaphene	<0.075		0.19	0.075	mg/Kg	☼	09/30/24 16:06	10/09/24 16:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*1164*	*S1+*	*33 - 148*	*09/30/24 16:06*	*10/09/24 16:36*	*10*
Tetrachloro-m-xylene	*99*		*30 - 121*	*09/30/24 16:06*	*10/09/24 16:36*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 14:58	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 14:58	10
PCB-1232	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 14:58	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 14:58	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 14:58	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 14:58	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 14:58	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 14:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*38*	*S1-*	*49 - 129*	*09/30/24 16:06*	*10/10/24 14:58*	*10*
DCB Decachlorobiphenyl	*54*		*37 - 121*	*09/30/24 16:06*	*10/10/24 14:58*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		20		mg/Kg	☼	10/04/24 09:34	10/08/24 16:14	1
Antimony	**2.7**		2.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:14	1
Arsenic	**16**		4.9		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Barium	**260**		4.9		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Beryllium	**3.5**		2.0		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Cadmium	<0.98		0.98		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Calcium	**130000**		98		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Chromium	**8.6**		0.98		mg/Kg	☼	10/04/24 09:34	10/08/24 16:14	1
Cobalt	**6.4**		0.49		mg/Kg	☼	10/04/24 09:34	10/08/24 16:14	1
Copper	**29**		4.9		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Iron	**93000**		98		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Lead	**83**		2.5		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Magnesium	**16000**		9.8		mg/Kg	☼	10/04/24 09:34	10/08/24 16:14	1
Manganese	**4600**		4.9		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Nickel	**12**		4.9		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Potassium	**1000**		49		mg/Kg	☼	10/04/24 09:34	10/08/24 16:14	1
Selenium	<4.9		4.9		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Silver	<2.5		2.5		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Sodium	**460**		98		mg/Kg	☼	10/04/24 09:34	10/08/24 16:14	1
Thallium	<4.9		4.9		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Vanadium	**21**		2.5		mg/Kg	☼	10/04/24 09:34	10/09/24 12:37	5
Zinc	**160**		2.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:14	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**		0.017		mg/Kg	☼	10/04/24 15:35	10/07/24 08:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB115 (0-3)
Lab Sample ID: 500-257169-5
Date Collected: 09/20/24 10:14
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 89.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	13		2.4		mg/Kg	☼	10/01/24 10:44	10/02/24 11:22	10
pH (SW846 9045D)	10.44		0.20		SU			09/27/24 16:58	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB115 (5-7.5)
Lab Sample ID: 500-257169-6
Date Collected: 09/20/24 10:26
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 91.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00079		0.0020	0.00079	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
1,1,2,2-Tetrachloroethane	<0.00097		0.0020	0.00097	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
1,1,2-Trichloroethane	<0.00073		0.0020	0.00073	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
1,1-Dichloroethane	<0.00074		0.0020	0.00074	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
1,1-Dichloroethene	<0.00080		0.0020	0.00080	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
1,2-Dichloroethane	<0.0013		0.0049	0.0013	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
1,2-Dichloropropane	<0.00050		0.0020	0.00050	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
2-Butanone (MEK)	<0.0021		0.0049	0.0021	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
2-Hexanone	<0.0030		0.0049	0.0030	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0049	0.0035	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Acetone	**0.011**	**J**	0.020	0.0082	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Benzene	<0.00061		0.0020	0.00061	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Bromodichloromethane	<0.00063		0.0020	0.00063	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Bromoform	<0.0011		0.0020	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Bromomethane	<0.0024		0.0049	0.0024	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Carbon disulfide	**0.0077**		0.0049	0.00090	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Carbon tetrachloride	<0.00067		0.0020	0.00067	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Chlorobenzene	<0.00082		0.0020	0.00082	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Chloroethane	<0.0016		0.0049	0.0016	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Chloromethane	<0.00095		0.0049	0.00095	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
cis-1,2-Dichloroethene	<0.00079		0.0020	0.00079	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
1,3-Dichloropropene, Total	<0.00094		0.0020	0.00094	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Dibromochloromethane	<0.00091		0.0020	0.00091	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Ethylbenzene	<0.0010		0.0020	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Methyl tert-butyl ether	<0.00063		0.0020	0.00063	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Methylene Chloride	<0.0021		0.0049	0.0021	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Styrene	<0.00088		0.0020	0.00088	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Toluene	<0.00039		0.0020	0.00039	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Xylenes, Total	<0.00067		0.0039	0.00067	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
trans-1,2-Dichloroethene	<0.00074		0.0020	0.00074	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Trichloroethene	<0.00053		0.0020	0.00053	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1
Vinyl chloride	<0.00080		0.0020	0.00080	mg/Kg	☼	09/20/24 16:43	09/25/24 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*09/20/24 16:43*	*09/25/24 16:32*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 131*	*09/20/24 16:43*	*09/25/24 16:32*	*1*
Dibromofluoromethane	*77*		*75 - 126*	*09/20/24 16:43*	*09/25/24 16:32*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*09/20/24 16:43*	*09/25/24 16:32*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**9.7**		0.071	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Acenaphthylene	**0.23**		0.071	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Benzo[g,h,i]perylene	**13**		0.071	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Dibenz(a,h)anthracene	**6.0**		0.071	0.071	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Fluorene	**16**		0.071	0.021	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Indeno[1,2,3-cd]pyrene	**17**		0.071	0.070	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Naphthalene	**4.5**		0.071	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB115 (5-7.5)
Lab Sample ID: 500-257169-6
Date Collected: 09/20/24 10:26
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.051		0.36	0.051	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
1,2-Dichlorobenzene	<0.029		0.36	0.029	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
1,3-Dichlorobenzene	<0.032		0.36	0.032	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
1,4-Dichlorobenzene	<0.034		0.36	0.034	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2,4,5-Trichlorophenol	<0.027		0.71	0.027	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2,4,6-Trichlorophenol	<0.024		0.71	0.024	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2,4-Dichlorophenol	<0.025		0.71	0.025	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2,4-Dimethylphenol	<0.16		0.71	0.16	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2,4-Dinitrophenol	<0.41		1.4	0.41	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2,4-Dinitrotoluene	<0.041		0.36	0.041	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2,6-Dinitrotoluene	<0.024		0.36	0.024	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2-Chloronaphthalene	<0.027		0.36	0.027	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2-Chlorophenol	<0.023		0.36	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2-Methylnaphthalene	**3.1**		0.14	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2-Methylphenol	**0.056**	**J**	0.36	0.038	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2-Nitroaniline	<0.038		0.36	0.038	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
2-Nitrophenol	<0.049		0.71	0.049	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
3,3'-Dichlorobenzidine	<0.059		0.36	0.059	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
3 & 4 Methylphenol	**0.19**	**J**	0.36	0.052	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
3-Nitroaniline	<0.033		0.71	0.033	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
4,6-Dinitro-2-methylphenol	<0.40		1.4	0.40	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
4-Bromophenyl phenyl ether	<0.049		0.36	0.049	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
4-Chloro-3-methylphenol	<0.028		0.71	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
4-Chloroaniline	<0.75		1.4	0.75	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
4-Chlorophenyl phenyl ether	<0.094		0.36	0.094	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
4-Nitroaniline	<0.053		0.71	0.053	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
4-Nitrophenol	<0.27		1.4	0.27	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Bis(2-chloroethoxy)methane	<0.027		0.36	0.027	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Bis(2-chloroethyl)ether	<0.033		0.36	0.033	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
bis(chloroisopropyl) ether	<0.051		0.36	0.051	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Bis(2-ethylhexyl) phthalate	<0.28		0.36	0.28	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Butyl benzyl phthalate	<0.036		0.36	0.036	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Carbazole	**11**		0.36	0.028	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Dibenzofuran	**12**		0.36	0.025	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Diethyl phthalate	<0.033		0.36	0.033	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Dimethyl phthalate	<0.016		0.36	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Di-n-butyl phthalate	<0.023		0.36	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Di-n-octyl phthalate	<0.50		0.71	0.50	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Hexachlorobenzene	<0.014		0.14	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Hexachlorobutadiene	<0.040		0.36	0.040	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Hexachlorocyclopentadiene	<0.76		1.4	0.76	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Hexachloroethane	<0.036		0.36	0.036	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Isophorone	<0.037		0.36	0.037	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Nitrobenzene	<0.023		0.071	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
N-Nitrosodi-n-propylamine	<0.014		0.14	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
N-Nitrosodiphenylamine	<0.043		0.36	0.043	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Pentachlorophenol	<0.18		1.4	0.18	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2
Phenol	**0.073**	**J**	0.36	0.031	mg/Kg	☼	10/01/24 15:05	10/02/24 18:53	2

Client Sample ID: SB115 (5-7.5)
Lab Sample ID: 500-257169-6
Date Collected: 09/20/24 10:26
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 91.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*46*		*31 - 166*	*10/01/24 15:05*	*10/02/24 18:53*	*2*
Phenol-d5 (Surr)	*51*		*30 - 153*	*10/01/24 15:05*	*10/02/24 18:53*	*2*
Nitrobenzene-d5 (Surr)	*55*		*37 - 147*	*10/01/24 15:05*	*10/02/24 18:53*	*2*
2-Fluorobiphenyl (Surr)	*60*		*43 - 145*	*10/01/24 15:05*	*10/02/24 18:53*	*2*
2,4,6-Tribromophenol (Surr)	*29*	*S1-*	*31 - 143*	*10/01/24 15:05*	*10/02/24 18:53*	*2*
Terphenyl-d14 (Surr)	*70*		*42 - 157*	*10/01/24 15:05*	*10/02/24 18:53*	*2*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**41**		1.8	0.37	mg/Kg	☼	10/01/24 15:05	10/03/24 13:57	50
Benzo[a]anthracene	**39**		1.8	0.38	mg/Kg	☼	10/01/24 15:05	10/03/24 13:57	50
Benzo[a]pyrene	**32**		1.8	1.7	mg/Kg	☼	10/01/24 15:05	10/03/24 13:57	50
Benzo[b]fluoranthene	**34**		1.8	1.7	mg/Kg	☼	10/01/24 15:05	10/03/24 13:57	50
Benzo[k]fluoranthene	**32**		1.8	0.68	mg/Kg	☼	10/01/24 15:05	10/03/24 13:57	50
Chrysene	**39**		1.8	0.47	mg/Kg	☼	10/01/24 15:05	10/03/24 13:57	50
Fluoranthene	**110**		1.8	0.42	mg/Kg	☼	10/01/24 15:05	10/03/24 13:57	50
Phenanthrene	**130**		1.8	0.39	mg/Kg	☼	10/01/24 15:05	10/03/24 13:57	50
Pyrene	**86**		1.8	0.49	mg/Kg	☼	10/01/24 15:05	10/03/24 13:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*0*	*S1-*	*31 - 166*	*10/01/24 15:05*	*10/03/24 13:57*	*50*
Phenol-d5 (Surr)	*0*	*S1-*	*30 - 153*	*10/01/24 15:05*	*10/03/24 13:57*	*50*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*37 - 147*	*10/01/24 15:05*	*10/03/24 13:57*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*43 - 145*	*10/01/24 15:05*	*10/03/24 13:57*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*31 - 143*	*10/01/24 15:05*	*10/03/24 13:57*	*50*
Terphenyl-d14 (Surr)	*0*	*S1-*	*42 - 157*	*10/01/24 15:05*	*10/03/24 13:57*	*50*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0094		0.018	0.0094	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
4,4'-DDE	<0.0090		0.018	0.0090	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
4,4'-DDT	<0.0083		0.018	0.0083	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Aldrin	<0.012		0.018	0.012	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
alpha-BHC	<0.0098		0.018	0.0098	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
alpha-Chlordane	<0.0093		0.018	0.0093	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
beta-BHC	<0.014		0.018	0.014	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Chlordane (technical)	<0.033		0.069	0.033	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
delta-BHC	<0.0083		0.018	0.0083	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Dieldrin	<0.0091		0.018	0.0091	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Endosulfan I	<0.0094		0.018	0.0094	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Endosulfan II	<0.0095		0.018	0.0095	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Endosulfan sulfate	<0.0096		0.018	0.0096	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Endrin	<0.0089		0.018	0.0089	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Endrin aldehyde	<0.0099		0.018	0.0099	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Endrin ketone	<0.0085		0.018	0.0085	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
gamma-BHC (Lindane)	<0.0087		0.018	0.0087	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
gamma-Chlordane	<0.010		0.018	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Heptachlor	<0.0094		0.018	0.0094	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Heptachlor epoxide	<0.0094		0.018	0.0094	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Methoxychlor	<0.011		0.086	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10
Toxaphene	<0.070		0.17	0.070	mg/Kg	☼	09/30/24 16:06	10/10/24 17:13	10

Client Sample ID: SB115 (5-7.5)
Date Collected: 09/20/24 10:26
Date Received: 09/23/24 12:50

Lab Sample ID: 500-257169-6
Matrix: Solid
Percent Solids: 91.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	1038	S1+	33 - 148	09/30/24 16:06	10/10/24 17:13	10
Tetrachloro-m-xylene	104		30 - 121	09/30/24 16:06	10/10/24 17:13	10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 15:13	10
PCB-1221	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 15:13	10
PCB-1232	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 15:13	10
PCB-1242	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 15:13	10
PCB-1248	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 15:13	10
PCB-1254	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 15:13	10
PCB-1260	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 15:13	10
Polychlorinated biphenyls, Total	<0.17		0.17		mg/Kg	☼	09/30/24 16:06	10/10/24 15:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	53		49 - 129	09/30/24 16:06	10/10/24 15:13	10
DCB Decachlorobiphenyl	503	S1+	37 - 121	09/30/24 16:06	10/10/24 15:13	10

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		20		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Antimony	<2.0		2.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Arsenic	**8.9**		0.98		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Barium	**170**		0.98		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Beryllium	**2.4**		0.39		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Cadmium	<0.20		0.20		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Calcium	**94000**		98		mg/Kg	☼	10/04/24 09:34	10/09/24 12:41	5
Chromium	**7.9**		0.98		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Cobalt	**4.3**		0.49		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Copper	**13**		0.98		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Iron	**47000**		20		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Lead	**49**		0.49		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Magnesium	**12000**		9.8		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Manganese	**3700**		4.9		mg/Kg	☼	10/04/24 09:34	10/09/24 12:41	5
Nickel	**7.1**		0.98		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Potassium	**1200**		49		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Selenium	**2.3**		0.98		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Silver	<2.4		2.4		mg/Kg	☼	10/04/24 09:34	10/09/24 12:41	5
Sodium	**510**		98		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Thallium	<4.9		4.9		mg/Kg	☼	10/04/24 09:34	10/09/24 12:41	5
Vanadium	**16**		0.49		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1
Zinc	**93**		2.0		mg/Kg	☼	10/04/24 09:34	10/08/24 16:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.016		mg/Kg	☼	10/04/24 15:35	10/07/24 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**8.7**		1.2		mg/Kg	☼	10/01/24 10:44	10/02/24 11:27	5
pH (SW846 9045D)	**9.78**		0.20		SU			09/27/24 17:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB116 (0-3)
Lab Sample ID: 500-257169-7
Date Collected: 09/20/24 11:37
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 88.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023		mg/Kg	☼		10/04/24 12:10	1
Benzene	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Bromodichloromethane	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Bromoform	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Bromomethane	<0.0056		0.0056		mg/Kg	☼		10/04/24 12:10	1
2-Butanone (MEK)	<0.0056		0.0056		mg/Kg	☼		10/04/24 12:10	1
Carbon disulfide	<0.0056		0.0056		mg/Kg	☼		10/04/24 12:10	1
Carbon tetrachloride	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Chlorobenzene	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Chloroethane	<0.0056		0.0056		mg/Kg	☼		10/04/24 12:10	1
Chloroform	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Chloromethane	<0.0056	*+	0.0056		mg/Kg	☼		10/04/24 12:10	1
cis-1,2-Dichloroethene	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Dibromochloromethane	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
1,1-Dichloroethane	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
1,2-Dichloroethane	<0.0056		0.0056		mg/Kg	☼		10/04/24 12:10	1
1,1-Dichloroethene	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
1,2-Dichloropropane	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
1,3-Dichloropropene, Total	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Ethylbenzene	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
2-Hexanone	<0.0056		0.0056		mg/Kg	☼		10/04/24 12:10	1
Methylene Chloride	**0.0070**		0.0056		mg/Kg	☼		10/04/24 12:10	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056		mg/Kg	☼		10/04/24 12:10	1
Methyl tert-butyl ether	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Styrene	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Tetrachloroethene	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Toluene	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
trans-1,2-Dichloroethene	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
1,1,1-Trichloroethane	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
1,1,2-Trichloroethane	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Trichloroethene	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Vinyl chloride	<0.0023		0.0023		mg/Kg	☼		10/04/24 12:10	1
Xylenes, Total	<0.0045		0.0045		mg/Kg	☼		10/04/24 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*		*10/04/24 12:10*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*10/04/24 12:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 134*		*10/04/24 12:10*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*		*10/04/24 12:10*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.16**	**J**	0.18	0.037	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Acenaphthylene	<0.031		0.18	0.031	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Anthracene	**2.7**		0.18	0.037	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Benzo[a]anthracene	**10**		0.18	0.039	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Benzo[a]pyrene	**9.4**		0.18	0.18	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Benzo[b]fluoranthene	**9.9**		0.18	0.17	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Benzo[g,h,i]perylene	**3.8**		0.18	0.040	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB116 (0-3)
Lab Sample ID: 500-257169-7
Date Collected: 09/20/24 11:37
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 88.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**9.0**		0.18	0.069	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Chrysene	**10**		0.18	0.048	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Dibenz(a,h)anthracene	**1.3**		0.18	0.18	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Fluoranthene	**16**		0.18	0.042	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Fluorene	**0.36**		0.18	0.054	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Indeno[1,2,3-cd]pyrene	**4.7**		0.18	0.18	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Naphthalene	**0.33**		0.18	0.033	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Phenanthrene	**5.4**		0.18	0.040	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Pyrene	**14**		0.18	0.050	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
1,2,4-Trichlorobenzene	<0.13		0.92	0.13	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
1,2-Dichlorobenzene	<0.074		0.92	0.074	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
1,3-Dichlorobenzene	<0.082		0.92	0.082	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
1,4-Dichlorobenzene	<0.086		0.92	0.086	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2,4,5-Trichlorophenol	<0.069		1.8	0.069	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2,4,6-Trichlorophenol	<0.062		1.8	0.062	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2,4-Dichlorophenol	<0.064		1.8	0.064	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2,4-Dimethylphenol	<0.41		1.8	0.41	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2,4-Dinitrophenol	<1.1		3.7	1.1	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2,4-Dinitrotoluene	<0.10		0.92	0.10	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2,6-Dinitrotoluene	<0.062		0.92	0.062	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2-Chloronaphthalene	<0.068		0.92	0.068	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2-Chlorophenol	<0.059		0.92	0.059	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2-Methylnaphthalene	**0.19**	**J**	0.37	0.037	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2-Methylphenol	<0.096		0.92	0.096	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2-Nitroaniline	<0.098		0.92	0.098	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
2-Nitrophenol	<0.12		1.8	0.12	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
3,3'-Dichlorobenzidine	<0.15		0.92	0.15	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
3 & 4 Methylphenol	<0.13		0.92	0.13	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
3-Nitroaniline	<0.083		1.8	0.083	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
4,6-Dinitro-2-methylphenol	<1.0		3.7	1.0	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
4-Bromophenyl phenyl ether	<0.12		0.92	0.12	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
4-Chloro-3-methylphenol	<0.071		1.8	0.071	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
4-Chloroaniline	<1.9		3.7	1.9	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
4-Chlorophenyl phenyl ether	<0.24		0.92	0.24	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
4-Nitroaniline	<0.13		1.8	0.13	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
4-Nitrophenol	<0.68		3.7	0.68	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Bis(2-chloroethoxy)methane	<0.068		0.92	0.068	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Bis(2-chloroethyl)ether	<0.084		0.92	0.084	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
bis(chloroisopropyl) ether	<0.13		0.92	0.13	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Bis(2-ethylhexyl) phthalate	<0.71		0.92	0.71	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Butyl benzyl phthalate	<0.091		0.92	0.091	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Carbazole	**0.24**	**J**	0.92	0.072	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Dibenzofuran	**0.28**	**J**	0.92	0.065	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Diethyl phthalate	<0.084		0.92	0.084	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Dimethyl phthalate	<0.040		0.92	0.040	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Di-n-butyl phthalate	<0.058		0.92	0.058	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Di-n-octyl phthalate	<1.3		1.8	1.3	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Hexachlorobenzene	<0.035		0.37	0.035	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Hexachlorobutadiene	<0.10		0.92	0.10	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5

Client Sample ID: SB116 (0-3)
Lab Sample ID: 500-257169-7
Date Collected: 09/20/24 11:37
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 88.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<1.9		3.7	1.9	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Hexachloroethane	<0.091		0.92	0.091	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Isophorone	<0.094		0.92	0.094	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Nitrobenzene	<0.058		0.18	0.058	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
N-Nitrosodi-n-propylamine	<0.036		0.37	0.036	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
N-Nitrosodiphenylamine	<0.11		0.92	0.11	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Pentachlorophenol	<0.46		3.7	0.46	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5
Phenol	<0.079		0.92	0.079	mg/Kg	☼	10/01/24 15:05	10/03/24 14:22	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*42*		*31 - 166*	*10/01/24 15:05*	*10/03/24 14:22*	*5*
Phenol-d5 (Surr)	*49*		*30 - 153*	*10/01/24 15:05*	*10/03/24 14:22*	*5*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*10/01/24 15:05*	*10/03/24 14:22*	*5*
2-Fluorobiphenyl (Surr)	*67*		*43 - 145*	*10/01/24 15:05*	*10/03/24 14:22*	*5*
2,4,6-Tribromophenol (Surr)	*38*		*31 - 143*	*10/01/24 15:05*	*10/03/24 14:22*	*5*
Terphenyl-d14 (Surr)	*69*		*42 - 157*	*10/01/24 15:05*	*10/03/24 14:22*	*5*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
4,4'-DDE	<0.0096		0.019	0.0096	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Chlordane (technical)	<0.035		0.074	0.035	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Endrin	<0.0095		0.019	0.0095	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Endrin ketone	<0.0091		0.019	0.0091	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
gamma-BHC (Lindane)	<0.0093		0.019	0.0093	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	09/30/24 16:06	10/10/24 17:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*5231*	*S1+*	*33 - 148*	*09/30/24 16:06*	*10/10/24 17:25*	*10*
Tetrachloro-m-xylene	*80*		*30 - 121*	*09/30/24 16:06*	*10/10/24 17:25*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 15:29	10
PCB-1221	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 15:29	10

Client Sample ID: SB116 (0-3)
Lab Sample ID: 500-257169-7

Date Collected: 09/20/24 11:37
Matrix: Solid

Date Received: 09/23/24 12:50
Percent Solids: 88.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 15:29	10
PCB-1242	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 15:29	10
PCB-1248	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 15:29	10
PCB-1254	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 15:29	10
PCB-1260	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 15:29	10
Polychlorinated biphenyls, Total	<0.18		0.18		mg/Kg	☼	09/30/24 16:06	10/10/24 15:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*49*		*49 - 129*	*09/30/24 16:06*	*10/10/24 15:29*	*10*
DCB Decachlorobiphenyl	*384*	*S1+*	*37 - 121*	*09/30/24 16:06*	*10/10/24 15:29*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		19		mg/Kg	☼	10/04/24 09:34	10/08/24 16:24	1
Antimony	<1.9		1.9		mg/Kg	☼	10/04/24 09:34	10/08/24 16:24	1
Arsenic	**11**		4.8		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Barium	**210**		4.8		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Beryllium	**3.6**		1.9		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Cadmium	<0.96		0.96		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Calcium	**89000**		96		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Chromium	**520**		4.8		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Cobalt	**8.4**		0.48		mg/Kg	☼	10/04/24 09:34	10/08/24 16:24	1
Copper	**34**		4.8		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Iron	**92000**		96		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Lead	**52**		2.4		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Magnesium	**16000**		9.6		mg/Kg	☼	10/04/24 09:34	10/08/24 16:24	1
Manganese	**3700**		4.8		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Nickel	**140**		4.8		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Potassium	**980**		48		mg/Kg	☼	10/04/24 09:34	10/08/24 16:24	1
Selenium	<4.8		4.8		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Silver	<2.4		2.4		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Sodium	**610**		96		mg/Kg	☼	10/04/24 09:34	10/08/24 16:24	1
Thallium	<4.8		4.8		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Vanadium	**28**		2.4		mg/Kg	☼	10/04/24 09:34	10/09/24 12:46	5
Zinc	**180**		1.9		mg/Kg	☼	10/04/24 09:34	10/08/24 16:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.018		mg/Kg	☼	10/04/24 15:35	10/07/24 08:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**8.1**		1.3		mg/Kg	☼	10/01/24 10:44	10/02/24 11:51	5
pH (SW846 9045D)	**9.63**		0.20		SU			09/27/24 17:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB116 (12.5-15)
Lab Sample ID: 500-257169-8
Date Collected: 09/20/24 11:59
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 77.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.026**		0.026		mg/Kg	☼		10/04/24 12:35	1
Benzene	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Bromodichloromethane	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Bromoform	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Bromomethane	<0.0064		0.0064		mg/Kg	☼		10/04/24 12:35	1
2-Butanone (MEK)	<0.0064		0.0064		mg/Kg	☼		10/04/24 12:35	1
Carbon disulfide	<0.0064		0.0064		mg/Kg	☼		10/04/24 12:35	1
Carbon tetrachloride	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Chlorobenzene	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Chloroethane	<0.0064		0.0064		mg/Kg	☼		10/04/24 12:35	1
Chloroform	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Chloromethane	<0.0064	*+	0.0064		mg/Kg	☼		10/04/24 12:35	1
cis-1,2-Dichloroethene	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Dibromochloromethane	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
1,1-Dichloroethane	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
1,2-Dichloroethane	<0.0064		0.0064		mg/Kg	☼		10/04/24 12:35	1
1,1-Dichloroethene	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
1,2-Dichloropropane	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
1,3-Dichloropropene, Total	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Ethylbenzene	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
2-Hexanone	<0.0064		0.0064		mg/Kg	☼		10/04/24 12:35	1
Methylene Chloride	**0.0075**		0.0064		mg/Kg	☼		10/04/24 12:35	1
4-Methyl-2-pentanone (MIBK)	<0.0064		0.0064		mg/Kg	☼		10/04/24 12:35	1
Methyl tert-butyl ether	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Styrene	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
1,1,2,2-Tetrachloroethane	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Tetrachloroethene	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Toluene	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
trans-1,2-Dichloroethene	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
1,1,1-Trichloroethane	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
1,1,2-Trichloroethane	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Trichloroethene	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Vinyl chloride	<0.0026		0.0026		mg/Kg	☼		10/04/24 12:35	1
Xylenes, Total	<0.0051		0.0051		mg/Kg	☼		10/04/24 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*		*10/04/24 12:35*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*10/04/24 12:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*		*10/04/24 12:35*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*		*10/04/24 12:35*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0086		0.042	0.0086	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Acenaphthylene	<0.0072		0.042	0.0072	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Anthracene	**0.018**	**J**	0.042	0.0087	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Benzo[a]anthracene	**0.039**	**J**	0.042	0.0090	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Benzo[a]pyrene	<0.041		0.042	0.041	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Benzo[b]fluoranthene	<0.040		0.042	0.040	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Benzo[g,h,i]perylene	**0.017**	**J**	0.042	0.0092	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB116 (12.5-15)
Lab Sample ID: 500-257169-8
Date Collected: 09/20/24 11:59
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 77.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.016		0.042	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Chrysene	**0.037**	**J**	0.042	0.011	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Dibenz(a,h)anthracene	<0.042		0.042	0.042	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Fluoranthene	**0.054**		0.042	0.0099	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Fluorene	<0.013		0.042	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Indeno[1,2,3-cd]pyrene	<0.041		0.042	0.041	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Naphthalene	**0.017**	**J**	0.042	0.0077	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Phenanthrene	**0.13**		0.042	0.0092	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Pyrene	**0.057**		0.042	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
1,2,4-Trichlorobenzene	<0.030		0.21	0.030	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
1,2-Dichlorobenzene	<0.017		0.21	0.017	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
1,3-Dichlorobenzene	<0.019		0.21	0.019	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
1,4-Dichlorobenzene	<0.020		0.21	0.020	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2,4,5-Trichlorophenol	<0.016		0.42	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2,4,6-Trichlorophenol	<0.014		0.42	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2,4-Dichlorophenol	<0.015		0.42	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2,4-Dimethylphenol	<0.095		0.42	0.095	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2,4-Dinitrophenol	<0.25		0.86	0.25	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2,4-Dinitrotoluene	<0.024		0.21	0.024	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2,6-Dinitrotoluene	<0.014		0.21	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2-Chloronaphthalene	<0.016		0.21	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2-Chlorophenol	<0.014		0.21	0.014	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2-Methylnaphthalene	**0.043**	**J**	0.086	0.0085	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2-Methylphenol	<0.022		0.21	0.022	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2-Nitroaniline	<0.023		0.21	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
2-Nitrophenol	<0.029		0.42	0.029	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
3,3'-Dichlorobenzidine	<0.035		0.21	0.035	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
3 & 4 Methylphenol	<0.031		0.21	0.031	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
3-Nitroaniline	<0.019		0.42	0.019	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
4,6-Dinitro-2-methylphenol	<0.24		0.86	0.24	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
4-Bromophenyl phenyl ether	<0.029		0.21	0.029	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
4-Chloro-3-methylphenol	<0.017		0.42	0.017	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
4-Chloroaniline	<0.45		0.86	0.45	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
4-Chlorophenyl phenyl ether	<0.056		0.21	0.056	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
4-Nitroaniline	<0.031		0.42	0.031	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
4-Nitrophenol	<0.16		0.86	0.16	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Bis(2-chloroethoxy)methane	<0.016		0.21	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Bis(2-chloroethyl)ether	<0.020		0.21	0.020	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
bis(chloroisopropyl) ether	<0.030		0.21	0.030	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Bis(2-ethylhexyl) phthalate	<0.17		0.21	0.17	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Butyl benzyl phthalate	<0.021		0.21	0.021	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Carbazole	<0.017		0.21	0.017	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Dibenzofuran	<0.015		0.21	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Diethyl phthalate	<0.019		0.21	0.019	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Dimethyl phthalate	<0.0092		0.21	0.0092	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Di-n-butyl phthalate	<0.013		0.21	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Di-n-octyl phthalate	<0.30		0.42	0.30	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Hexachlorobenzene	<0.0081		0.086	0.0081	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Hexachlorobutadiene	<0.024		0.21	0.024	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1

Client Sample ID: SB116 (12.5-15) | **Lab Sample ID: 500-257169-8**
Date Collected: 09/20/24 11:59 | **Matrix: Solid**
Date Received: 09/23/24 12:50 | **Percent Solids: 77.9**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.45		0.86	0.45	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Hexachloroethane	<0.021		0.21	0.021	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Isophorone	<0.022		0.21	0.022	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Nitrobenzene	<0.013		0.042	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
N-Nitrosodi-n-propylamine	<0.0084		0.086	0.0084	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
N-Nitrosodiphenylamine	<0.025		0.21	0.025	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Pentachlorophenol	<0.11		0.86	0.11	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1
Phenol	<0.018		0.21	0.018	mg/Kg	☼	10/01/24 15:05	10/02/24 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*68*		*31 - 166*	*10/01/24 15:05*	*10/02/24 13:27*	*1*
Phenol-d5 (Surr)	*71*		*30 - 153*	*10/01/24 15:05*	*10/02/24 13:27*	*1*
Nitrobenzene-d5 (Surr)	*73*		*37 - 147*	*10/01/24 15:05*	*10/02/24 13:27*	*1*
2-Fluorobiphenyl (Surr)	*73*		*43 - 145*	*10/01/24 15:05*	*10/02/24 13:27*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*31 - 143*	*10/01/24 15:05*	*10/02/24 13:27*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*10/01/24 15:05*	*10/02/24 13:27*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
4,4'-DDE	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
4,4'-DDT	<0.0098		0.021	0.0098	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Aldrin	<0.014		0.021	0.014	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
alpha-BHC	<0.012		0.021	0.012	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
alpha-Chlordane	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
beta-BHC	<0.017		0.021	0.017	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Chlordane (technical)	<0.039		0.082	0.039	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
delta-BHC	<0.0098		0.021	0.0098	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Dieldrin	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Endosulfan I	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Endosulfan II	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Endosulfan sulfate	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Endrin	<0.010		0.021	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Endrin aldehyde	<0.012		0.021	0.012	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Endrin ketone	<0.010		0.021	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
gamma-BHC (Lindane)	<0.010		0.021	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
gamma-Chlordane	<0.012		0.021	0.012	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Heptachlor	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Heptachlor epoxide	<0.011		0.021	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Methoxychlor	<0.014		0.10	0.014	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10
Toxaphene	<0.082		0.20	0.082	mg/Kg	☼	09/30/24 16:06	10/10/24 17:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*291*	*S1+*	*33 - 148*	*09/30/24 16:06*	*10/10/24 17:36*	*10*
Tetrachloro-m-xylene	*100*		*30 - 121*	*09/30/24 16:06*	*10/10/24 17:36*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 15:44	10
PCB-1221	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 15:44	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB116 (12.5-15)
Lab Sample ID: 500-257169-8
Date Collected: 09/20/24 11:59
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 77.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 15:44	10
PCB-1242	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 15:44	10
PCB-1248	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 15:44	10
PCB-1254	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 15:44	10
PCB-1260	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 15:44	10
Polychlorinated biphenyls, Total	<0.20		0.20		mg/Kg	☼	09/30/24 16:06	10/10/24 15:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*49 - 129*	*09/30/24 16:06*	*10/10/24 15:44*	*10*
DCB Decachlorobiphenyl	*72*		*37 - 121*	*09/30/24 16:06*	*10/10/24 15:44*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3500**		25		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Antimony	**4.5**		2.5		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Arsenic	**5.2**		1.2		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Barium	**37**		1.2		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Beryllium	<0.50		0.50		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Cadmium	<0.25		0.25		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Calcium	**54000**		25		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Chromium	**11**		1.2		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Cobalt	**2.3**		0.62		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Copper	**2.6**		1.2		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Iron	**5500**		25		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Lead	**41**		0.62		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Magnesium	**17000**		12		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Manganese	**320**		1.2		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Nickel	**5.8**		1.2		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Potassium	**550**		62		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Selenium	<1.2		1.2		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Silver	<0.62		0.62		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Sodium	**150**		120		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Thallium	**1.7**		1.2		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Vanadium	**7.5**		0.62		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1
Zinc	**20**		2.5		mg/Kg	☼	10/04/24 09:34	10/08/24 16:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.021		0.021		mg/Kg	☼	10/04/24 15:35	10/07/24 08:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.1**		0.28		mg/Kg	☼	10/01/24 10:44	10/02/24 11:33	1
pH (SW846 9045D)	**9.13**		0.20		SU			09/27/24 17:08	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB117 (0-3)
Lab Sample ID: 500-257169-9
Date Collected: 09/20/24 13:00
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 89.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00093		0.0023	0.00093	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
1,1,2,2-Tetrachloroethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
1,1,2-Trichloroethane	<0.00086		0.0023	0.00086	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
1,1-Dichloroethane	<0.00087		0.0023	0.00087	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
1,1-Dichloroethene	<0.00095		0.0023	0.00095	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
1,2-Dichloroethane	<0.0015		0.0058	0.0015	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
1,2-Dichloropropane	<0.00059		0.0023	0.00059	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
2-Butanone (MEK)	<0.0025		0.0058	0.0025	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
2-Hexanone	<0.0035		0.0058	0.0035	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0058	0.0041	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Acetone	<0.0097		0.023	0.0097	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Benzene	<0.00072		0.0023	0.00072	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Bromodichloromethane	<0.00074		0.0023	0.00074	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Bromoform	<0.0013		0.0023	0.0013	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Bromomethane	<0.0028		0.0058	0.0028	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Carbon disulfide	**0.0035**	**J**	0.0058	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Carbon tetrachloride	<0.00078		0.0023	0.00078	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Chlorobenzene	<0.00097		0.0023	0.00097	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Chloroethane	<0.0019		0.0058	0.0019	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Chloroform	<0.0017		0.0023	0.0017	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Chloromethane	<0.0011		0.0058	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
cis-1,2-Dichloroethene	<0.00093		0.0023	0.00093	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
1,3-Dichloropropene, Total	<0.0011		0.0023	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Dibromochloromethane	<0.0011		0.0023	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Ethylbenzene	<0.0012		0.0023	0.0012	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Methyl tert-butyl ether	<0.00074		0.0023	0.00074	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Methylene Chloride	<0.0025		0.0058	0.0025	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Styrene	<0.0010		0.0023	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Tetrachloroethene	<0.0013		0.0023	0.0013	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Toluene	**0.00099**	**J**	0.0023	0.00046	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Xylenes, Total	<0.00079		0.0046	0.00079	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
trans-1,2-Dichloroethene	<0.00087		0.0023	0.00087	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Trichloroethene	<0.00063		0.0023	0.00063	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1
Vinyl chloride	<0.00094		0.0023	0.00094	mg/Kg	☼	09/20/24 16:43	09/25/24 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*09/20/24 16:43*	*09/25/24 16:56*	*1*
4-Bromofluorobenzene (Surr)	*111*		*75 - 131*	*09/20/24 16:43*	*09/25/24 16:56*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*09/20/24 16:43*	*09/25/24 16:56*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*09/20/24 16:43*	*09/25/24 16:56*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.037	0.0075	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Acenaphthylene	<0.0062		0.037	0.0062	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Anthracene	**0.044**		0.037	0.0075	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Benzo[a]anthracene	**0.36**		0.037	0.0078	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Benzo[a]pyrene	**0.27**		0.037	0.035	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Benzo[b]fluoranthene	**0.33**		0.037	0.035	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Benzo[g,h,i]perylene	**0.13**		0.037	0.0080	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1

Client Sample ID: SB117 (0-3)
Lab Sample ID: 500-257169-9
Date Collected: 09/20/24 13:00
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 89.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.32**		0.037	0.014	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Chrysene	**0.38**		0.037	0.0097	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Dibenz(a,h)anthracene	**0.041**		0.037	0.037	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Fluoranthene	**0.52**		0.037	0.0085	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Fluorene	<0.011		0.037	0.011	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Indeno[1,2,3-cd]pyrene	**0.14**		0.037	0.036	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Naphthalene	**0.031**	J	0.037	0.0067	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Phenanthrene	**0.26**		0.037	0.0080	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Pyrene	**0.46**		0.037	0.010	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
1,2,4-Trichlorobenzene	<0.026		0.19	0.026	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
1,4-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2,4-Dimethylphenol	<0.082		0.37	0.082	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2,4-Dinitrophenol	<0.21		0.74	0.21	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2,4-Dinitrotoluene	<0.021		0.19	0.021	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2,6-Dinitrotoluene	<0.013		0.19	0.013	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2-Methylnaphthalene	**0.052**	J	0.074	0.0074	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2-Methylphenol	<0.019		0.19	0.019	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
3,3'-Dichlorobenzidine	<0.030		0.19	0.030	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
3 & 4 Methylphenol	<0.027		0.19	0.027	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
4,6-Dinitro-2-methylphenol	<0.21		0.74	0.21	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
4-Bromophenyl phenyl ether	<0.025		0.19	0.025	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
4-Chloro-3-methylphenol	<0.014		0.37	0.014	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
4-Chloroaniline	<0.39		0.74	0.39	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
4-Chlorophenyl phenyl ether	<0.048		0.19	0.048	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
4-Nitroaniline	<0.027		0.37	0.027	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
4-Nitrophenol	<0.14		0.74	0.14	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
bis(chloroisopropyl) ether	<0.026		0.19	0.026	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Bis(2-ethylhexyl) phthalate	<0.14		0.19	0.14	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Butyl benzyl phthalate	<0.018		0.19	0.018	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Carbazole	<0.015		0.19	0.015	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Dibenzofuran	<0.013		0.19	0.013	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Dimethyl phthalate	<0.0080		0.19	0.0080	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Hexachlorobenzene	<0.0071		0.074	0.0071	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB117 (0-3)
Lab Sample ID: 500-257169-9
Date Collected: 09/20/24 13:00
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 89.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.74	0.39	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Hexachloroethane	<0.018		0.19	0.018	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Isophorone	<0.019		0.19	0.019	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
N-Nitrosodi-n-propylamine	<0.0073		0.074	0.0073	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
N-Nitrosodiphenylamine	<0.022		0.19	0.022	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Pentachlorophenol	<0.092		0.74	0.092	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1
Phenol	<0.016		0.19	0.016	mg/Kg	☼	10/01/24 15:05	10/03/24 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*50*		*31 - 166*	*10/01/24 15:05*	*10/03/24 14:47*	*1*
Phenol-d5 (Surr)	*54*		*30 - 153*	*10/01/24 15:05*	*10/03/24 14:47*	*1*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*10/01/24 15:05*	*10/03/24 14:47*	*1*
2-Fluorobiphenyl (Surr)	*69*		*43 - 145*	*10/01/24 15:05*	*10/03/24 14:47*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*31 - 143*	*10/01/24 15:05*	*10/03/24 14:47*	*1*
Terphenyl-d14 (Surr)	*67*		*42 - 157*	*10/01/24 15:05*	*10/03/24 14:47*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.020		0.038	0.020	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
4,4'-DDE	<0.020		0.038	0.020	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
4,4'-DDT	<0.018		0.038	0.018	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Aldrin	<0.026		0.038	0.026	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
alpha-BHC	<0.021		0.038	0.021	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
alpha-Chlordane	<0.020		0.038	0.020	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
beta-BHC	<0.031		0.038	0.031	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Chlordane (technical)	<0.072		0.15	0.072	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
delta-BHC	<0.018		0.038	0.018	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Dieldrin	<0.020		0.038	0.020	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Endosulfan I	<0.020		0.038	0.020	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Endosulfan II	<0.021		0.038	0.021	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Endosulfan sulfate	<0.021		0.038	0.021	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Endrin	<0.019		0.038	0.019	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Endrin aldehyde	<0.022		0.038	0.022	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Endrin ketone	<0.018		0.038	0.018	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
gamma-BHC (Lindane)	<0.019		0.038	0.019	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
gamma-Chlordane	<0.022		0.038	0.022	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Heptachlor	<0.020		0.038	0.020	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Heptachlor epoxide	<0.020		0.038	0.020	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Methoxychlor	<0.025		0.19	0.025	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20
Toxaphene	<0.15		0.37	0.15	mg/Kg	☼	09/30/24 16:06	10/10/24 17:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*	*09/30/24 16:06*	*10/10/24 17:48*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*	*09/30/24 16:06*	*10/10/24 17:48*	*20*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 15:59	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 15:59	10

Client Sample ID: SB117 (0-3)
Date Collected: 09/20/24 13:00
Date Received: 09/23/24 12:50

Lab Sample ID: 500-257169-9
Matrix: Solid
Percent Solids: 89.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 15:59	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 15:59	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 15:59	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 15:59	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 15:59	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 15:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*49 - 129*	*09/30/24 16:06*	*10/10/24 15:59*	*10*
DCB Decachlorobiphenyl	*80*		*37 - 121*	*09/30/24 16:06*	*10/10/24 15:59*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		19		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Antimony	<1.9		1.9		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Arsenic	**8.9**		0.95		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Barium	**170**		0.95		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Beryllium	**2.5**		0.38		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Cadmium	**0.33**		0.19		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Calcium	**86000**		95		mg/Kg	☼	10/04/24 09:34	10/09/24 12:50	5
Chromium	**31**		0.95		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Cobalt	**4.5**		0.47		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Copper	**18**		0.95		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Iron	**40000**		19		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Lead	**51**		0.47		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Magnesium	**9900**		9.5		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Manganese	**4600**		4.7		mg/Kg	☼	10/04/24 09:34	10/09/24 12:50	5
Nickel	**13**		0.95		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Potassium	**1400**		47		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Selenium	**3.4**		0.95		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Silver	<2.4		2.4		mg/Kg	☼	10/04/24 09:34	10/09/24 12:50	5
Sodium	**540**		95		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Thallium	<4.7		4.7		mg/Kg	☼	10/04/24 09:34	10/09/24 12:50	5
Vanadium	**26**		0.47		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1
Zinc	**85**		1.9		mg/Kg	☼	10/04/24 09:34	10/08/24 16:42	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.040**		0.018		mg/Kg	☼	10/04/24 15:35	10/07/24 08:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**15**		2.4		mg/Kg	☼	10/01/24 10:44	10/02/24 11:38	10
pH (SW846 9045D)	**7.77**		0.20		SU			09/27/24 17:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB117 (5-7.5)
Lab Sample ID: 500-257169-10
Date Collected: 09/20/24 13:09
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 85.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0013		0.0031	0.0013	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0031	0.0015	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
1,1,2-Trichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
1,1-Dichloroethane	<0.0012		0.0031	0.0012	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
1,1-Dichloroethene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
1,2-Dichloroethane	<0.0020		0.0078	0.0020	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
1,2-Dichloropropane	<0.00081		0.0031	0.00081	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
2-Butanone (MEK)	<0.0034		0.0078	0.0034	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
2-Hexanone	<0.0047		0.0078	0.0047	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0078	0.0056	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Acetone	<0.013		0.031	0.013	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Benzene	<0.00098		0.0031	0.00098	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Bromodichloromethane	<0.0010		0.0031	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Bromoform	<0.0018		0.0031	0.0018	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Bromomethane	<0.0038		0.0078	0.0038	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Carbon disulfide	**0.0056**	**J**	0.0078	0.0014	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Carbon tetrachloride	<0.0011		0.0031	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Chlorobenzene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Chloroethane	<0.0026		0.0078	0.0026	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Chloroform	<0.0022		0.0031	0.0022	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Chloromethane	<0.0015		0.0078	0.0015	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
cis-1,2-Dichloroethene	<0.0013		0.0031	0.0013	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
1,3-Dichloropropene, Total	<0.0015		0.0031	0.0015	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Dibromochloromethane	<0.0014		0.0031	0.0014	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Ethylbenzene	<0.0016		0.0031	0.0016	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Methyl tert-butyl ether	<0.0010		0.0031	0.0010	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Methylene Chloride	<0.0033		0.0078	0.0033	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Styrene	<0.0014		0.0031	0.0014	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Tetrachloroethene	<0.0018		0.0031	0.0018	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Toluene	**0.00079**	**J**	0.0031	0.00063	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Xylenes, Total	<0.0011		0.0062	0.0011	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
trans-1,2-Dichloroethene	<0.0012		0.0031	0.0012	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Trichloroethene	<0.00085		0.0031	0.00085	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1
Vinyl chloride	<0.0013		0.0031	0.0013	mg/Kg	☼	09/20/24 16:43	09/25/24 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*09/20/24 16:43*	*09/25/24 17:21*	*1*
4-Bromofluorobenzene (Surr)	*124*		*75 - 131*	*09/20/24 16:43*	*09/25/24 17:21*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*09/20/24 16:43*	*09/25/24 17:21*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/20/24 16:43*	*09/25/24 17:21*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.012		0.057	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Acenaphthylene	<0.0097		0.057	0.0097	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Anthracene	<0.012		0.057	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Benzo[a]anthracene	**0.017**	**J**	0.057	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Benzo[a]pyrene	<0.055		0.057	0.055	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Benzo[b]fluoranthene	<0.055		0.057	0.055	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Benzo[g,h,i]perylene	<0.012		0.057	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB117 (5-7.5)
Lab Sample ID: 500-257169-10
Date Collected: 09/20/24 13:09
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 85.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.022		0.057	0.022	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Chrysene	**0.016**	**J**	0.057	0.015	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Dibenz(a,h)anthracene	<0.057		0.057	0.057	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Fluoranthene	**0.024**	**J**	0.057	0.013	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Fluorene	<0.017		0.057	0.017	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Indeno[1,2,3-cd]pyrene	<0.056		0.057	0.056	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Naphthalene	<0.010		0.057	0.010	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Phenanthrene	<0.012		0.057	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Pyrene	**0.026**	**J**	0.057	0.016	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
1,2,4-Trichlorobenzene	<0.041		0.29	0.041	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
1,2-Dichlorobenzene	<0.023		0.29	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
1,3-Dichlorobenzene	<0.026		0.29	0.026	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
1,4-Dichlorobenzene	<0.027		0.29	0.027	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2,4,5-Trichlorophenol	<0.022		0.57	0.022	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2,4,6-Trichlorophenol	<0.020		0.57	0.020	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2,4-Dichlorophenol	<0.020		0.57	0.020	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2,4-Dimethylphenol	<0.13		0.57	0.13	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2,4-Dinitrophenol	<0.33		1.2	0.33	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2,4-Dinitrotoluene	<0.033		0.29	0.033	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2,6-Dinitrotoluene	<0.020		0.29	0.020	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2-Chloronaphthalene	<0.021		0.29	0.021	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2-Chlorophenol	<0.019		0.29	0.019	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2-Methylnaphthalene	<0.012		0.12	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2-Methylphenol	<0.030		0.29	0.030	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2-Nitroaniline	<0.031		0.29	0.031	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
2-Nitrophenol	<0.039		0.57	0.039	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
3,3'-Dichlorobenzidine	<0.047		0.29	0.047	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
3 & 4 Methylphenol	<0.042		0.29	0.042	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
3-Nitroaniline	<0.026		0.57	0.026	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
4,6-Dinitro-2-methylphenol	<0.32		1.2	0.32	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
4-Bromophenyl phenyl ether	<0.039		0.29	0.039	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
4-Chloro-3-methylphenol	<0.022		0.57	0.022	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
4-Chloroaniline	<0.60		1.2	0.60	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
4-Chlorophenyl phenyl ether	<0.075		0.29	0.075	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
4-Nitroaniline	<0.042		0.57	0.042	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
4-Nitrophenol	<0.21		1.2	0.21	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Bis(2-chloroethoxy)methane	<0.021		0.29	0.021	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Bis(2-chloroethyl)ether	<0.026		0.29	0.026	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
bis(chloroisopropyl) ether	<0.041		0.29	0.041	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Bis(2-ethylhexyl) phthalate	<0.22		0.29	0.22	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Butyl benzyl phthalate	<0.029		0.29	0.029	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Carbazole	<0.023		0.29	0.023	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Dibenzofuran	<0.020		0.29	0.020	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Diethyl phthalate	<0.026		0.29	0.026	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Dimethyl phthalate	<0.012		0.29	0.012	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Di-n-butyl phthalate	<0.018		0.29	0.018	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Di-n-octyl phthalate	<0.40		0.57	0.40	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Hexachlorobenzene	<0.011		0.12	0.011	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Hexachlorobutadiene	<0.032		0.29	0.032	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB117 (5-7.5)
Lab Sample ID: 500-257169-10
Date Collected: 09/20/24 13:09
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 85.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.61		1.2	0.61	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Hexachloroethane	<0.029		0.29	0.029	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Isophorone	<0.030		0.29	0.030	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Nitrobenzene	<0.018		0.057	0.018	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
N-Nitrosodi-n-propylamine	<0.011		0.12	0.011	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
N-Nitrosodiphenylamine	<0.034		0.29	0.034	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Pentachlorophenol	<0.14		1.2	0.14	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1
Phenol	<0.025		0.29	0.025	mg/Kg	☼	10/01/24 15:05	10/02/24 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*73*		*31 - 166*	*10/01/24 15:05*	*10/02/24 13:52*	*1*
Phenol-d5 (Surr)	*77*		*30 - 153*	*10/01/24 15:05*	*10/02/24 13:52*	*1*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*	*10/01/24 15:05*	*10/02/24 13:52*	*1*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*	*10/01/24 15:05*	*10/02/24 13:52*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*31 - 143*	*10/01/24 15:05*	*10/02/24 13:52*	*1*
Terphenyl-d14 (Surr)	*90*		*42 - 157*	*10/01/24 15:05*	*10/02/24 13:52*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
4,4'-DDE	<0.0096		0.019	0.0096	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
4,4'-DDT	<0.0089		0.019	0.0089	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
alpha-BHC	<0.011		0.019	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
alpha-Chlordane	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Chlordane (technical)	<0.036		0.074	0.036	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
delta-BHC	<0.0090		0.019	0.0090	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Dieldrin	<0.0098		0.019	0.0098	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Endrin	<0.0096		0.019	0.0096	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Endrin ketone	<0.0091		0.019	0.0091	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
gamma-BHC (Lindane)	<0.0093		0.019	0.0093	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Methoxychlor	<0.012		0.092	0.012	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10
Toxaphene	<0.075		0.19	0.075	mg/Kg	☼	09/30/24 16:06	10/10/24 17:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*33 - 148*	*09/30/24 16:06*	*10/10/24 17:59*	*10*
Tetrachloro-m-xylene	*111*		*30 - 121*	*09/30/24 16:06*	*10/10/24 17:59*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 16:15	10
PCB-1221	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 16:15	10

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257169-1

Client Sample ID: SB117 (5-7.5)

Date Collected: 09/20/24 13:09
Date Received: 09/23/24 12:50

Lab Sample ID: 500-257169-10

Matrix: Solid
Percent Solids: 85.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 16:15	10
PCB-1242	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 16:15	10
PCB-1248	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 16:15	10
PCB-1254	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 16:15	10
PCB-1260	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 16:15	10
Polychlorinated biphenyls, Total	<0.19		0.19		mg/Kg	☼	09/30/24 16:06	10/10/24 16:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*49 - 129*	*09/30/24 16:06*	*10/10/24 16:15*	*10*
DCB Decachlorobiphenyl	*84*		*37 - 121*	*09/30/24 16:06*	*10/10/24 16:15*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		21		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Antimony	<2.1		2.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Arsenic	**4.1**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Barium	**94**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Beryllium	**1.6**		0.43		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Cadmium	<0.21		0.21		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Calcium	**87000**		110		mg/Kg	☼	10/04/24 09:34	10/09/24 12:54	5
Chromium	**5.8**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Cobalt	**2.0**		0.54		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Copper	**2.8**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Iron	**9100**		21		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Lead	**4.0**		0.54		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Magnesium	**13000**		11		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Manganese	**1300**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Nickel	**3.8**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Potassium	**970**		54		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Selenium	**1.1**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Silver	<2.7		2.7		mg/Kg	☼	10/04/24 09:34	10/09/24 12:54	5
Sodium	**380**		110		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Thallium	**6.0**		1.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Vanadium	**9.7**		0.54		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1
Zinc	**19**		2.1		mg/Kg	☼	10/04/24 09:34	10/08/24 16:46	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	10/04/24 15:35	10/07/24 08:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**6.4**	**F1 F2**	0.27		mg/Kg	☼	10/01/24 10:44	10/01/24 16:26	1
Sulfide (SW846 9034)	**650**		35		mg/Kg	☼	09/27/24 09:15	09/27/24 10:55	1
pH (SW846 9045D)	**9.14**	**^+**	0.20		SU			09/27/24 17:16	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

General Chemistry

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 787399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	5035	
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	5035	
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	5035	
500-257169-5	SB115 (0-3)	Total/NA	Solid	5035	
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	5035	
500-257169-9	SB117 (0-3)	Total/NA	Solid	5035	
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	5035	

Analysis Batch: 787594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	8260D	787399
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	8260D	787399
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	8260D	787399
500-257169-5	SB115 (0-3)	Total/NA	Solid	8260D	787399
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	8260D	787399
500-257169-9	SB117 (0-3)	Total/NA	Solid	8260D	787399
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	8260D	787399
MB 500-787594/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-787594/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-787594/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 789026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-3	SB114 (0-3)	Total/NA	Solid	8260D	
500-257169-7	SB116 (0-3)	Total/NA	Solid	8260D	
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	8260D	
MB 500-789026/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-789026/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-789026/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 788593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	3546	
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	3546	
500-257169-3	SB114 (0-3)	Total/NA	Solid	3546	
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	3546	
500-257169-5	SB115 (0-3)	Total/NA	Solid	3546	
500-257169-5 - DL	SB115 (0-3)	Total/NA	Solid	3546	
500-257169-6 - DL	SB115 (5-7.5)	Total/NA	Solid	3546	
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	3546	
500-257169-7	SB116 (0-3)	Total/NA	Solid	3546	
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	3546	
500-257169-9	SB117 (0-3)	Total/NA	Solid	3546	
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	3546	
MB 500-788593/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-788593/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC/MS Semi VOA

Analysis Batch: 788692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	8270E	788593
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	8270E	788593
500-257169-3	SB114 (0-3)	Total/NA	Solid	8270E	788593
500-257169-5	SB115 (0-3)	Total/NA	Solid	8270E	788593
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	8270E	788593
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	8270E	788593
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	8270E	788593
MB 500-788593/1-A	Method Blank	Total/NA	Solid	8270E	788593
LCS 500-788593/2-A	Lab Control Sample	Total/NA	Solid	8270E	788593

Analysis Batch: 788864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	8270E	788593
500-257169-5 - DL	SB115 (0-3)	Total/NA	Solid	8270E	788593
500-257169-6 - DL	SB115 (5-7.5)	Total/NA	Solid	8270E	788593
500-257169-7	SB116 (0-3)	Total/NA	Solid	8270E	788593
500-257169-9	SB117 (0-3)	Total/NA	Solid	8270E	788593

GC Semi VOA

Prep Batch: 788403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	3541	
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	3541	
500-257169-3	SB114 (0-3)	Total/NA	Solid	3541	
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	3541	
500-257169-5	SB115 (0-3)	Total/NA	Solid	3541	
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	3541	
500-257169-7	SB116 (0-3)	Total/NA	Solid	3541	
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	3541	
500-257169-9	SB117 (0-3)	Total/NA	Solid	3541	
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	3541	
MB 500-788403/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-788403/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-788403/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-257169-1 MS	SB113 (0-3)	Total/NA	Solid	3541	
500-257169-1 MS	SB113 (0-3)	Total/NA	Solid	3541	
500-257169-1 MSD	SB113 (0-3)	Total/NA	Solid	3541	
500-257169-1 MSD	SB113 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 789720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	8081B	788403
500-257169-3	SB114 (0-3)	Total/NA	Solid	8081B	788403
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	8081B	788403
500-257169-5	SB115 (0-3)	Total/NA	Solid	8081B	788403
MB 500-788403/1-A	Method Blank	Total/NA	Solid	8081B	788403
LCS 500-788403/2-A	Lab Control Sample	Total/NA	Solid	8081B	788403

GC Semi VOA

Analysis Batch: 789912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	8082A	788403
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	8082A	788403
500-257169-3	SB114 (0-3)	Total/NA	Solid	8082A	788403
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	8082A	788403
500-257169-5	SB115 (0-3)	Total/NA	Solid	8082A	788403
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	8082A	788403
500-257169-7	SB116 (0-3)	Total/NA	Solid	8082A	788403
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	8082A	788403
500-257169-9	SB117 (0-3)	Total/NA	Solid	8082A	788403
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	8082A	788403
MB 500-788403/1-A	Method Blank	Total/NA	Solid	8082A	788403
LCS 500-788403/3-A	Lab Control Sample	Total/NA	Solid	8082A	788403
500-257169-1 MS	SB113 (0-3)	Total/NA	Solid	8082A	788403
500-257169-1 MSD	SB113 (0-3)	Total/NA	Solid	8082A	788403

Analysis Batch: 789971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	8081B	788403
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	8081B	788403
500-257169-7	SB116 (0-3)	Total/NA	Solid	8081B	788403
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	8081B	788403
500-257169-9	SB117 (0-3)	Total/NA	Solid	8081B	788403
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	8081B	788403
500-257169-1 MS	SB113 (0-3)	Total/NA	Solid	8081B	788403
500-257169-1 MSD	SB113 (0-3)	Total/NA	Solid	8081B	788403

Metals

Prep Batch: 789084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	3050B	
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	3050B	
500-257169-3	SB114 (0-3)	Total/NA	Solid	3050B	
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	3050B	
500-257169-5	SB115 (0-3)	Total/NA	Solid	3050B	
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	3050B	
500-257169-7	SB116 (0-3)	Total/NA	Solid	3050B	
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	3050B	
500-257169-9	SB117 (0-3)	Total/NA	Solid	3050B	
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	3050B	
MB 500-789084/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-789084/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 789127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	7471B	
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	7471B	
500-257169-3	SB114 (0-3)	Total/NA	Solid	7471B	
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	7471B	
500-257169-5	SB115 (0-3)	Total/NA	Solid	7471B	
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 789127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-7	SB116 (0-3)	Total/NA	Solid	7471B	
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	7471B	
500-257169-9	SB117 (0-3)	Total/NA	Solid	7471B	
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	7471B	
MB 500-789127/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-789127/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 789396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	7471B	789127
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	7471B	789127
500-257169-3	SB114 (0-3)	Total/NA	Solid	7471B	789127
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	7471B	789127
500-257169-5	SB115 (0-3)	Total/NA	Solid	7471B	789127
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	7471B	789127
500-257169-7	SB116 (0-3)	Total/NA	Solid	7471B	789127
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	7471B	789127
500-257169-9	SB117 (0-3)	Total/NA	Solid	7471B	789127
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	7471B	789127
MB 500-789127/12-A	Method Blank	Total/NA	Solid	7471B	789127
LCS 500-789127/13-A	Lab Control Sample	Total/NA	Solid	7471B	789127

Analysis Batch: 789732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	6010D	789084
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	6010D	789084
500-257169-3	SB114 (0-3)	Total/NA	Solid	6010D	789084
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	6010D	789084
500-257169-5	SB115 (0-3)	Total/NA	Solid	6010D	789084
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	6010D	789084
500-257169-7	SB116 (0-3)	Total/NA	Solid	6010D	789084
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	6010D	789084
500-257169-9	SB117 (0-3)	Total/NA	Solid	6010D	789084
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	6010D	789084
MB 500-789084/1-A	Method Blank	Total/NA	Solid	6010D	789084
LCS 500-789084/2-A	Lab Control Sample	Total/NA	Solid	6010D	789084

Analysis Batch: 789836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	6010D	789084
500-257169-3	SB114 (0-3)	Total/NA	Solid	6010D	789084
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	6010D	789084
500-257169-5	SB115 (0-3)	Total/NA	Solid	6010D	789084
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	6010D	789084
500-257169-7	SB116 (0-3)	Total/NA	Solid	6010D	789084
500-257169-9	SB117 (0-3)	Total/NA	Solid	6010D	789084
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	6010D	789084

General Chemistry

Prep Batch: 628696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	9030B	
MB 240-628696/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 240-628696/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 628745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	9034	628696
MB 240-628696/1-A	Method Blank	Total/NA	Solid	9034	628696
LCS 240-628696/2-A	Lab Control Sample	Total/NA	Solid	9034	628696

Analysis Batch: 788329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	9045D	
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	9045D	
500-257169-3	SB114 (0-3)	Total/NA	Solid	9045D	
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	9045D	
500-257169-5	SB115 (0-3)	Total/NA	Solid	9045D	
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	9045D	
500-257169-7	SB116 (0-3)	Total/NA	Solid	9045D	
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	9045D	
500-257169-9	SB117 (0-3)	Total/NA	Solid	9045D	
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-788329/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-788329/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 788388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	Moisture	
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	Moisture	
500-257169-3	SB114 (0-3)	Total/NA	Solid	Moisture	
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	Moisture	
500-257169-5	SB115 (0-3)	Total/NA	Solid	Moisture	
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	Moisture	
500-257169-1 DU	SB113 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 788401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-7	SB116 (0-3)	Total/NA	Solid	Moisture	
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	Moisture	
500-257169-9	SB117 (0-3)	Total/NA	Solid	Moisture	
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	Moisture	
500-257169-7 DU	SB116 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 788480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-788480/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-788480/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 788493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	9010C	

General Chemistry (Continued)

Prep Batch: 788493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	9010C	
500-257169-3	SB114 (0-3)	Total/NA	Solid	9010C	
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	9010C	
500-257169-5	SB115 (0-3)	Total/NA	Solid	9010C	
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	9010C	
500-257169-7	SB116 (0-3)	Total/NA	Solid	9010C	
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	9010C	
500-257169-9	SB117 (0-3)	Total/NA	Solid	9010C	
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	9010C	
MB 500-788493/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-788493/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-257169-1 MS	SB113 (0-3)	Total/NA	Solid	9010C	
500-257169-1 MSD	SB113 (0-3)	Total/NA	Solid	9010C	
500-257169-10 MS	SB117 (5-7.5)	Total/NA	Solid	9010C	
500-257169-10 MSD	SB117 (5-7.5)	Total/NA	Solid	9010C	

Analysis Batch: 788746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-2	SB113 (10-12.5)	Total/NA	Solid	9012B	788493
500-257169-3	SB114 (0-3)	Total/NA	Solid	9012B	788493
500-257169-4	SB114 (7.5-12)	Total/NA	Solid	9012B	788493
500-257169-5	SB115 (0-3)	Total/NA	Solid	9012B	788493
500-257169-6	SB115 (5-7.5)	Total/NA	Solid	9012B	788493
500-257169-7	SB116 (0-3)	Total/NA	Solid	9012B	788493
500-257169-8	SB116 (12.5-15)	Total/NA	Solid	9012B	788493
500-257169-9	SB117 (0-3)	Total/NA	Solid	9012B	788493
500-257169-1 MS	SB113 (0-3)	Total/NA	Solid	9012B	788493
500-257169-1 MSD	SB113 (0-3)	Total/NA	Solid	9012B	788493

Analysis Batch: 788777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	Total/NA	Solid	9012B	788493
500-257169-10	SB117 (5-7.5)	Total/NA	Solid	9012B	788493
MB 500-788493/1-A	Method Blank	Total/NA	Solid	9012B	788493
LCS 500-788493/2-A	Lab Control Sample	Total/NA	Solid	9012B	788493
500-257169-10 MS	SB117 (5-7.5)	Total/NA	Solid	9012B	788493
500-257169-10 MSD	SB117 (5-7.5)	Total/NA	Solid	9012B	788493

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-257169-1	SB113 (0-3)	95	124	95	112
500-257169-2	SB113 (10-12.5)	104	116 *3	97	107
500-257169-3	SB114 (0-3)	104	101	98	124
500-257169-4	SB114 (7.5-12)	95	121	76	107
500-257169-5	SB115 (0-3)	92	136 *3 S1+	97	129 S1+
500-257169-6	SB115 (5-7.5)	93	112	77	108
500-257169-7	SB116 (0-3)	116	103	107	104
500-257169-8	SB116 (12.5-15)	110	105	104	101
500-257169-9	SB117 (0-3)	95	111	99	108
500-257169-10	SB117 (5-7.5)	94	124	93	105
LCS 500-787594/4	Lab Control Sample	92	94	94	104
LCS 500-789026/4	Lab Control Sample	108	101	101	108
LCSD 500-787594/5	Lab Control Sample Dup	89	98	96	102
LCSD 500-789026/5	Lab Control Sample Dup	96	93	99	104
MB 500-787594/7	Method Blank	97	102	99	101
MB 500-789026/7	Method Blank	103	103	102	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-257169-1	SB113 (0-3)	64	70	72	71	57	66
500-257169-2	SB113 (10-12.5)	77	80	85	84	72	86
500-257169-3	SB114 (0-3)	54	59	66	64	26 S1-	62
500-257169-4	SB114 (7.5-12)	58	68	68	81	29 S1-	81
500-257169-5	SB115 (0-3)	58	65	70	72	21 S1-	70
500-257169-5 - DL	SB115 (0-3)	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
500-257169-6	SB115 (5-7.5)	46	51	55	60	29 S1-	70
500-257169-6 - DL	SB115 (5-7.5)	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
500-257169-7	SB116 (0-3)	42	49	57	67	38	69
500-257169-8	SB116 (12.5-15)	68	71	73	73	69	81
500-257169-9	SB117 (0-3)	50	54	66	69	49	67
500-257169-10	SB117 (5-7.5)	73	77	83	78	66	90
LCS 500-788593/2-A	Lab Control Sample	87	90	95	89	80	95
MB 500-788593/1-A	Method Blank	86	87	96	90	79	93

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCBP2 (33-148)	TCX2 (30-121)								
500-257169-1	SB113 (0-3)	0 S1-	0 S1-								
500-257169-1 MS	SB113 (0-3)	0 S1-	0 S1-								
500-257169-1 MSD	SB113 (0-3)	0 S1-	0 S1-								
500-257169-2	SB113 (10-12.5)	32 S1-	119								
500-257169-3	SB114 (0-3)	64	80								
500-257169-4	SB114 (7.5-12)	70	118								
500-257169-5	SB115 (0-3)	1164 S1+	99								
500-257169-6	SB115 (5-7.5)	1038 S1+	104								
500-257169-7	SB116 (0-3)	5231 S1+	80								
500-257169-8	SB116 (12.5-15)	291 S1+	100								
500-257169-9	SB117 (0-3)	0 S1-	0 S1-								
500-257169-10	SB117 (5-7.5)	110	111								
LCS 500-788403/2-A	Lab Control Sample	97	75								
MB 500-788403/1-A	Method Blank	89	73								

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (49-129)	TCX2 (49-129)	DCBP1 (37-121)	DCBP2 (37-121)						
500-257169-1	SB113 (0-3)	66		71							
500-257169-1 MS	SB113 (0-3)	88		115							
500-257169-1 MSD	SB113 (0-3)	102		84							
500-257169-2	SB113 (10-12.5)	60		66							
500-257169-3	SB114 (0-3)	65		67							
500-257169-4	SB114 (7.5-12)	59		72							
500-257169-5	SB115 (0-3)		38 S1-		54						
500-257169-6	SB115 (5-7.5)	53		503 S1+							
500-257169-7	SB116 (0-3)	49		384 S1+							
500-257169-8	SB116 (12.5-15)	55		72							
500-257169-9	SB117 (0-3)	69		80							
500-257169-10	SB117 (5-7.5)	79		84							
LCS 500-788403/3-A	Lab Control Sample	83	89	94	98						
MB 500-788403/1-A	Method Blank	77	85	88	99						

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257169-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-787594/7
Matrix: Solid
Analysis Batch: 787594

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			09/25/24 11:10	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			09/25/24 11:10	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			09/25/24 11:10	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			09/25/24 11:10	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			09/25/24 11:10	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			09/25/24 11:10	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/25/24 11:10	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			09/25/24 11:10	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			09/25/24 11:10	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			09/25/24 11:10	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			09/25/24 11:10	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			09/25/24 11:10	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			09/25/24 11:10	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			09/25/24 11:10	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			09/25/24 11:10	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			09/25/24 11:10	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			09/25/24 11:10	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			09/25/24 11:10	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			09/25/24 11:10	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			09/25/24 11:10	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			09/25/24 11:10	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			09/25/24 11:10	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			09/25/24 11:10	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			09/25/24 11:10	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			09/25/24 11:10	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			09/25/24 11:10	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			09/25/24 11:10	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			09/25/24 11:10	1
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			09/25/24 11:10	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			09/25/24 11:10	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			09/25/24 11:10	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			09/25/24 11:10	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			09/25/24 11:10	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			09/25/24 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*		*09/25/24 11:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*		*09/25/24 11:10*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*09/25/24 11:10*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*		*09/25/24 11:10*	*1*

Lab Sample ID: LCS 500-787594/4
Matrix: Solid
Analysis Batch: 787594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	0.0500	0.0428		mg/Kg		86	47 - 138
Acetone	0.0500	0.0362		mg/Kg		72	40 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-787594/4
Matrix: Solid
Analysis Batch: 787594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0476		mg/Kg		95	70 - 125
Bromodichloromethane	0.0500	0.0455		mg/Kg		91	67 - 129
Bromoform	0.0500	0.0441		mg/Kg		88	68 - 136
Bromomethane	0.0500	0.0428		mg/Kg		86	70 - 130
1,1-Dichloroethane	0.0500	0.0456		mg/Kg		91	70 - 125
Carbon disulfide	0.0500	0.0449		mg/Kg		90	70 - 129
1,2-Dichloroethane	0.0500	0.0417		mg/Kg		83	70 - 130
Carbon tetrachloride	0.0500	0.0404		mg/Kg		81	75 - 125
Chlorobenzene	0.0500	0.0466		mg/Kg		93	50 - 150
1,1-Dichloroethene	0.0500	0.0415		mg/Kg		83	70 - 120
Chloroethane	0.0500	0.0470		mg/Kg		94	75 - 125
1,2-Dichloropropane	0.0500	0.0491		mg/Kg		98	70 - 125
Chloroform	0.0500	0.0441		mg/Kg		88	57 - 135
Chloromethane	0.0500	0.0468		mg/Kg		94	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0454		mg/Kg		91	70 - 125
2-Hexanone	0.0500	0.0476		mg/Kg		95	48 - 146
cis-1,3-Dichloropropene	0.0500	0.0473		mg/Kg		95	70 - 125
4-Methyl-2-pentanone (MIBK)	0.0500	0.0494		mg/Kg		99	50 - 148
Dibromochloromethane	0.0500	0.0447		mg/Kg		89	69 - 125
Ethylbenzene	0.0500	0.0490		mg/Kg		98	61 - 136
Methyl tert-butyl ether	0.0500	0.0441		mg/Kg		88	50 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.0496		mg/Kg		99	70 - 122
Methylene Chloride	0.0500	0.0410		mg/Kg		82	70 - 126
Styrene	0.0500	0.0505		mg/Kg		101	70 - 125
Tetrachloroethene	0.0500	0.0415		mg/Kg		83	70 - 124
Toluene	0.0500	0.0481		mg/Kg		96	70 - 125
1,1,1-Trichloroethane	0.0500	0.0405		mg/Kg		81	70 - 128
1,1,2-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0444		mg/Kg		89	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0465		mg/Kg		93	70 - 125
Trichloroethene	0.0500	0.0423		mg/Kg		85	70 - 125
Vinyl chloride	0.0500	0.0437		mg/Kg		87	70 - 125
Xylenes, Total	0.100	0.0932		mg/Kg		93	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*
Dibromofluoromethane	*94*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 124*

Lab Sample ID: LCSD 500-787594/5
Matrix: Solid
Analysis Batch: 787594

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	0.0500	0.0447		mg/Kg		89	47 - 138	4	30
Acetone	0.0500	0.0332		mg/Kg		66	40 - 150	9	30
Benzene	0.0500	0.0478		mg/Kg		96	70 - 125	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-787594/5
Matrix: Solid
Analysis Batch: 787594

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromodichloromethane			0.0500	0.0455		mg/Kg		91	67 - 129	0	30
Bromoform			0.0500	0.0448		mg/Kg		90	68 - 136	2	30
Bromomethane			0.0500	0.0452		mg/Kg		90	70 - 130	5	30
1,1-Dichloroethane			0.0500	0.0467		mg/Kg		93	70 - 125	2	30
Carbon disulfide			0.0500	0.0450		mg/Kg		90	70 - 129	0	30
1,2-Dichloroethane			0.0500	0.0416		mg/Kg		83	70 - 130	0	30
Carbon tetrachloride			0.0500	0.0410		mg/Kg		82	75 - 125	2	30
Chlorobenzene			0.0500	0.0465		mg/Kg		93	50 - 150	0	30
1,1-Dichloroethene			0.0500	0.0431		mg/Kg		86	70 - 120	4	30
Chloroethane			0.0500	0.0532		mg/Kg		106	75 - 125	12	30
1,2-Dichloropropane			0.0500	0.0505		mg/Kg		101	70 - 125	3	30
Chloroform			0.0500	0.0442		mg/Kg		88	57 - 135	0	30
Chloromethane			0.0500	0.0515		mg/Kg		103	70 - 125	10	30
cis-1,2-Dichloroethene			0.0500	0.0457		mg/Kg		91	70 - 125	1	30
2-Hexanone			0.0500	0.0502		mg/Kg		100	48 - 146	5	30
cis-1,3-Dichloropropene			0.0500	0.0480		mg/Kg		96	70 - 125	1	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0518		mg/Kg		104	50 - 148	5	30
Dibromochloromethane			0.0500	0.0448		mg/Kg		90	69 - 125	0	30
Ethylbenzene			0.0500	0.0468		mg/Kg		94	61 - 136	5	30
Methyl tert-butyl ether			0.0500	0.0450		mg/Kg		90	50 - 140	2	30
1,1,2,2-Tetrachloroethane			0.0500	0.0513		mg/Kg		103	70 - 122	3	30
Methylene Chloride			0.0500	0.0432		mg/Kg		86	70 - 126	5	30
Styrene			0.0500	0.0508		mg/Kg		102	70 - 125	1	30
Tetrachloroethene			0.0500	0.0419		mg/Kg		84	70 - 124	1	30
Toluene			0.0500	0.0483		mg/Kg		97	70 - 125	0	30
1,1,1-Trichloroethane			0.0500	0.0405		mg/Kg		81	70 - 128	0	30
1,1,2-Trichloroethane			0.0500	0.0466		mg/Kg		93	70 - 125	1	30
trans-1,2-Dichloroethene			0.0500	0.0452		mg/Kg		90	70 - 125	2	30
trans-1,3-Dichloropropene			0.0500	0.0467		mg/Kg		93	70 - 125	1	30
Trichloroethene			0.0500	0.0424		mg/Kg		85	70 - 125	0	30
Vinyl chloride			0.0500	0.0477		mg/Kg		95	70 - 125	9	30
Xylenes, Total			0.100	0.0932		mg/Kg		93	53 - 147	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*
Dibromofluoromethane	*96*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 124*

Lab Sample ID: MB 500-789026/7
Matrix: Solid
Analysis Batch: 789026

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<0.0050		0.0050		mg/Kg			10/04/24 10:55	1
Acetone	<0.020		0.020		mg/Kg			10/04/24 10:55	1
Benzene	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Bromodichloromethane	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-789026/7
Matrix: Solid
Analysis Batch: 789026

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Bromomethane	<0.0050		0.0050		mg/Kg			10/04/24 10:55	1
1,1-Dichloroethane	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Carbon disulfide	<0.0050		0.0050		mg/Kg			10/04/24 10:55	1
1,2-Dichloroethane	<0.0050		0.0050		mg/Kg			10/04/24 10:55	1
Carbon tetrachloride	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Chlorobenzene	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
1,1-Dichloroethene	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Chloroethane	<0.0050		0.0050		mg/Kg			10/04/24 10:55	1
1,2-Dichloropropane	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Chloroform	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Chloromethane	<0.0050		0.0050		mg/Kg			10/04/24 10:55	1
cis-1,2-Dichloroethene	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
1,3-Dichloropropene, Total	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
2-Hexanone	<0.0050		0.0050		mg/Kg			10/04/24 10:55	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/Kg			10/04/24 10:55	1
Dibromochloromethane	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Ethylbenzene	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Methyl tert-butyl ether	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Methylene Chloride	<0.0050		0.0050		mg/Kg			10/04/24 10:55	1
Styrene	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Tetrachloroethene	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Toluene	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
1,1,1-Trichloroethane	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
1,1,2-Trichloroethane	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
trans-1,2-Dichloroethene	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Trichloroethene	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Vinyl chloride	<0.0020		0.0020		mg/Kg			10/04/24 10:55	1
Xylenes, Total	<0.0040		0.0040		mg/Kg			10/04/24 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*		*10/04/24 10:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*10/04/24 10:55*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*10/04/24 10:55*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*		*10/04/24 10:55*	*1*

Lab Sample ID: LCS 500-789026/4
Matrix: Solid
Analysis Batch: 789026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	0.0500	0.0493		mg/Kg		99	47 - 138
Acetone	0.0500	0.0449		mg/Kg		90	40 - 150
Benzene	0.0500	0.0513		mg/Kg		103	70 - 125
Bromodichloromethane	0.0500	0.0548		mg/Kg		110	67 - 129
Bromoform	0.0500	0.0476		mg/Kg		95	68 - 136
Bromomethane	0.0500	0.0424		mg/Kg		85	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-789026/4
Matrix: Solid
Analysis Batch: 789026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.0478		mg/Kg		96	70 - 125
Carbon disulfide	0.0500	0.0485		mg/Kg		97	70 - 129
1,2-Dichloroethane	0.0500	0.0509		mg/Kg		102	70 - 130
Carbon tetrachloride	0.0500	0.0512		mg/Kg		102	75 - 125
Chlorobenzene	0.0500	0.0499		mg/Kg		100	50 - 150
1,1-Dichloroethene	0.0500	0.0454		mg/Kg		91	70 - 120
Chloroethane	0.0500	0.0462		mg/Kg		92	75 - 125
1,2-Dichloropropane	0.0500	0.0544		mg/Kg		109	70 - 125
Chloroform	0.0500	0.0495		mg/Kg		99	57 - 135
Chloromethane	0.0500	0.0658	*+	mg/Kg		132	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0486		mg/Kg		97	70 - 125
2-Hexanone	0.0500	0.0576		mg/Kg		115	48 - 146
cis-1,3-Dichloropropene	0.0500	0.0526		mg/Kg		105	70 - 125
4-Methyl-2-pentanone (MIBK)	0.0500	0.0586		mg/Kg		117	50 - 148
Dibromochloromethane	0.0500	0.0485		mg/Kg		97	69 - 125
Ethylbenzene	0.0500	0.0523		mg/Kg		105	61 - 136
Methyl tert-butyl ether	0.0500	0.0492		mg/Kg		98	50 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.0557		mg/Kg		111	70 - 122
Methylene Chloride	0.0500	0.0430		mg/Kg		86	70 - 126
Styrene	0.0500	0.0535		mg/Kg		107	70 - 125
Tetrachloroethene	0.0500	0.0437		mg/Kg		87	70 - 124
Toluene	0.0500	0.0545		mg/Kg		109	70 - 125
1,1,1-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 128
1,1,2-Trichloroethane	0.0500	0.0513		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0481		mg/Kg		96	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0496		mg/Kg		99	70 - 125
Trichloroethene	0.0500	0.0478		mg/Kg		96	70 - 125
Vinyl chloride	0.0500	0.0526		mg/Kg		105	70 - 125
Xylenes, Total	0.100	0.102		mg/Kg		102	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*108*		*75 - 124*

Lab Sample ID: LCSD 500-789026/5
Matrix: Solid
Analysis Batch: 789026

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	0.0500	0.0491		mg/Kg		98	47 - 138	0	30
Acetone	0.0500	0.0461		mg/Kg		92	40 - 150	3	30
Benzene	0.0500	0.0529		mg/Kg		106	70 - 125	3	30
Bromodichloromethane	0.0500	0.0508		mg/Kg		102	67 - 129	8	30
Bromoform	0.0500	0.0445		mg/Kg		89	68 - 136	7	30
Bromomethane	0.0500	0.0457		mg/Kg		91	70 - 130	8	30
1,1-Dichloroethane	0.0500	0.0516		mg/Kg		103	70 - 125	8	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-789026/5
Matrix: Solid
Analysis Batch: 789026

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			0.0500	0.0520		mg/Kg		104	70 - 129	7	30
1,2-Dichloroethane			0.0500	0.0478		mg/Kg		96	70 - 130	6	30
Carbon tetrachloride			0.0500	0.0454		mg/Kg		91	75 - 125	12	30
Chlorobenzene			0.0500	0.0488		mg/Kg		98	50 - 150	2	30
1,1-Dichloroethene			0.0500	0.0485		mg/Kg		97	70 - 120	7	30
Chloroethane			0.0500	0.0495		mg/Kg		99	75 - 125	7	30
1,2-Dichloropropane			0.0500	0.0550		mg/Kg		110	70 - 125	1	30
Chloroform			0.0500	0.0479		mg/Kg		96	57 - 135	3	30
Chloromethane			0.0500	0.0506		mg/Kg		101	70 - 125	26	30
cis-1,2-Dichloroethene			0.0500	0.0494		mg/Kg		99	70 - 125	2	30
2-Hexanone			0.0500	0.0545		mg/Kg		109	48 - 146	6	30
cis-1,3-Dichloropropene			0.0500	0.0522		mg/Kg		104	70 - 125	1	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0574		mg/Kg		115	50 - 148	2	30
Dibromochloromethane			0.0500	0.0467		mg/Kg		93	69 - 125	4	30
Ethylbenzene			0.0500	0.0495		mg/Kg		99	61 - 136	6	30
Methyl tert-butyl ether			0.0500	0.0492		mg/Kg		98	50 - 140	0	30
1,1,2,2-Tetrachloroethane			0.0500	0.0516		mg/Kg		103	70 - 122	8	30
Methylene Chloride			0.0500	0.0450		mg/Kg		90	70 - 126	4	30
Styrene			0.0500	0.0526		mg/Kg		105	70 - 125	2	30
Tetrachloroethene			0.0500	0.0434		mg/Kg		87	70 - 124	1	30
Toluene			0.0500	0.0513		mg/Kg		103	70 - 125	6	30
1,1,1-Trichloroethane			0.0500	0.0455		mg/Kg		91	70 - 128	9	30
1,1,2-Trichloroethane			0.0500	0.0485		mg/Kg		97	70 - 125	5	30
trans-1,2-Dichloroethene			0.0500	0.0493		mg/Kg		99	70 - 125	3	30
trans-1,3-Dichloropropene			0.0500	0.0500		mg/Kg		100	70 - 125	1	30
Trichloroethene			0.0500	0.0457		mg/Kg		91	70 - 125	4	30
Vinyl chloride			0.0500	0.0397		mg/Kg		79	70 - 125	28	30
Xylenes, Total			0.100	0.0993		mg/Kg		99	53 - 147	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*
Dibromofluoromethane	*99*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 124*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-788593/1-A
Matrix: Solid
Analysis Batch: 788692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		10/01/24 15:05	10/02/24 11:22	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-788593/1-A
Matrix: Solid
Analysis Batch: 788692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
4-Chloro-3-methylphenol	<0.013		0.33	0.013	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Carbazole	<0.013		0.17	0.013	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		10/01/24 15:05	10/02/24 11:22	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257169-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-788593/1-A
Matrix: Solid
Analysis Batch: 788692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Isophorone	<0.017		0.17	0.017	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		10/01/24 15:05	10/02/24 11:22	1
Phenol	<0.014		0.17	0.014	mg/Kg		10/01/24 15:05	10/02/24 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*86*		*31 - 166*	*10/01/24 15:05*	*10/02/24 11:22*	*1*
Phenol-d5 (Surr)	*87*		*30 - 153*	*10/01/24 15:05*	*10/02/24 11:22*	*1*
Nitrobenzene-d5 (Surr)	*96*		*37 - 147*	*10/01/24 15:05*	*10/02/24 11:22*	*1*
2-Fluorobiphenyl (Surr)	*90*		*43 - 145*	*10/01/24 15:05*	*10/02/24 11:22*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*31 - 143*	*10/01/24 15:05*	*10/02/24 11:22*	*1*
Terphenyl-d14 (Surr)	*93*		*42 - 157*	*10/01/24 15:05*	*10/02/24 11:22*	*1*

Lab Sample ID: LCS 500-788593/2-A
Matrix: Solid
Analysis Batch: 788692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	3.01		mg/Kg		90	63 - 109
Acenaphthylene	3.33	3.03		mg/Kg		91	61 - 115
Anthracene	3.33	3.06		mg/Kg		92	68 - 120
Benzo[a]anthracene	3.33	3.02		mg/Kg		91	70 - 121
Benzo[a]pyrene	3.33	3.20		mg/Kg		96	73 - 132
Benzo[b]fluoranthene	3.33	3.34		mg/Kg		100	68 - 123
Benzo[g,h,i]perylene	3.33	3.57		mg/Kg		107	65 - 126
Benzo[k]fluoranthene	3.33	3.27		mg/Kg		98	64 - 128
Chrysene	3.33	2.96		mg/Kg		89	70 - 123
Dibenz(a,h)anthracene	3.33	3.54		mg/Kg		106	66 - 125
Fluoranthene	3.33	2.80		mg/Kg		84	66 - 123
Fluorene	3.33	2.93		mg/Kg		88	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	3.38		mg/Kg		101	66 - 131
Naphthalene	3.33	2.92		mg/Kg		88	54 - 98
Phenanthrene	3.33	3.03		mg/Kg		91	65 - 115
Pyrene	3.33	3.29		mg/Kg		99	71 - 128
1,2,4-Trichlorobenzene	3.33	2.76		mg/Kg		83	49 - 100
1,2-Dichlorobenzene	3.33	2.75		mg/Kg		82	47 - 94
1,3-Dichlorobenzene	3.33	2.64		mg/Kg		79	47 - 92
1,4-Dichlorobenzene	3.33	2.73		mg/Kg		82	46 - 92
2,4,5-Trichlorophenol	3.33	2.75		mg/Kg		82	48 - 121
2,4,6-Trichlorophenol	3.33	2.72		mg/Kg		82	50 - 121
2,4-Dichlorophenol	3.33	2.83		mg/Kg		85	51 - 109
2,4-Dimethylphenol	3.33	3.10		mg/Kg		93	48 - 93
2,4-Dinitrophenol	6.67	4.19		mg/Kg		63	10 - 130
2,4-Dinitrotoluene	3.33	2.89		mg/Kg		87	65 - 120

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257169-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-788593/2-A
Matrix: Solid
Analysis Batch: 788692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	3.33	2.93		mg/Kg		88	66 - 117
2-Chloronaphthalene	3.33	2.98		mg/Kg		89	60 - 107
2-Chlorophenol	3.33	2.91		mg/Kg		87	50 - 102
2-Methylnaphthalene	3.33	2.53		mg/Kg		76	58 - 103
2-Methylphenol	3.33	2.93		mg/Kg		88	50 - 104
2-Nitroaniline	3.33	3.39		mg/Kg		102	61 - 126
2-Nitrophenol	3.33	2.78		mg/Kg		83	41 - 114
3,3'-Dichlorobenzidine	3.33	2.57		mg/Kg		77	36 - 131
3 & 4 Methylphenol	3.33	2.96		mg/Kg		89	49 - 109
3-Nitroaniline	3.33	2.56		mg/Kg		77	44 - 124
4,6-Dinitro-2-methylphenol	6.67	5.29		mg/Kg		79	36 - 138
4-Bromophenyl phenyl ether	3.33	3.00		mg/Kg		90	57 - 124
4-Chloro-3-methylphenol	3.33	2.99		mg/Kg		90	57 - 113
4-Chloroaniline	3.33	2.50		mg/Kg		75	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.83		mg/Kg		85	60 - 112
4-Nitroaniline	3.33	2.64		mg/Kg		79	60 - 115
4-Nitrophenol	6.67	5.35		mg/Kg		80	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.96		mg/Kg		89	54 - 102
Bis(2-chloroethyl)ether	3.33	2.89		mg/Kg		87	49 - 99
bis(chloroisopropyl) ether	3.33	3.29		mg/Kg		99	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	3.38		mg/Kg		101	70 - 139
Butyl benzyl phthalate	3.33	3.43		mg/Kg		103	65 - 140
Carbazole	3.33	2.85		mg/Kg		86	68 - 120
Dibenzofuran	3.33	2.85		mg/Kg		85	64 - 112
Diethyl phthalate	3.33	3.12		mg/Kg		94	66 - 115
Dimethyl phthalate	3.33	2.94		mg/Kg		88	65 - 114
Di-n-butyl phthalate	3.33	3.14		mg/Kg		94	69 - 125
Di-n-octyl phthalate	3.33	2.73		mg/Kg		82	61 - 131
Hexachlorobenzene	3.33	3.14		mg/Kg		94	52 - 126
Hexachlorobutadiene	3.33	2.83		mg/Kg		85	42 - 103
Hexachlorocyclopentadiene	3.33	2.41		mg/Kg		72	10 - 100
Hexachloroethane	3.33	2.94		mg/Kg		88	45 - 95
Isophorone	3.33	3.01		mg/Kg		90	47 - 108
Nitrobenzene	3.33	3.07		mg/Kg		92	52 - 105
N-Nitrosodi-n-propylamine	3.33	3.17		mg/Kg		95	48 - 110
N-Nitrosodiphenylamine	3.33	3.06		mg/Kg		92	67 - 112
Pentachlorophenol	6.67	4.66		mg/Kg		70	32 - 128
Phenol	3.33	2.95		mg/Kg		88	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*87*		*31 - 166*
Phenol-d5 (Surr)	*90*		*30 - 153*
Nitrobenzene-d5 (Surr)	*95*		*37 - 147*
2-Fluorobiphenyl (Surr)	*89*		*43 - 145*
2,4,6-Tribromophenol (Surr)	*80*		*31 - 143*
Terphenyl-d14 (Surr)	*95*		*42 - 157*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-788403/1-A
Matrix: Solid
Analysis Batch: 789720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		09/30/24 16:06	10/09/24 11:56	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		09/30/24 16:06	10/09/24 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*33 - 148*	*09/30/24 16:06*	*10/09/24 11:56*	*1*
Tetrachloro-m-xylene	*73*		*30 - 121*	*09/30/24 16:06*	*10/09/24 11:56*	*1*

Lab Sample ID: LCS 500-788403/2-A
Matrix: Solid
Analysis Batch: 789720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0125		mg/Kg		94	47 - 137
4,4'-DDE	0.0133	0.0134		mg/Kg		101	50 - 130
4,4'-DDT	0.0133	0.0148		mg/Kg		111	46 - 143
Aldrin	0.0133	0.0136		mg/Kg		102	52 - 122
alpha-BHC	0.0133	0.0128		mg/Kg		96	50 - 123
beta-BHC	0.0133	0.0117		mg/Kg		88	44 - 140
delta-BHC	0.0133	0.0132		mg/Kg		99	57 - 125
Dieldrin	0.0133	0.0143		mg/Kg		107	51 - 133
Endosulfan I	0.0133	0.0134		mg/Kg		100	30 - 120
Endosulfan II	0.0133	0.0133		mg/Kg		100	30 - 120
Endosulfan sulfate	0.0133	0.0130		mg/Kg		98	42 - 150
Endrin	0.0133	0.0130		mg/Kg		97	43 - 144
Endrin aldehyde	0.0133	0.0123		mg/Kg		92	39 - 131
Endrin ketone	0.0133	0.0135		mg/Kg		101	51 - 135
gamma-BHC (Lindane)	0.0133	0.0129		mg/Kg		96	50 - 122
Heptachlor	0.0133	0.0127		mg/Kg		95	53 - 129

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-788403/2-A
Matrix: Solid
Analysis Batch: 789720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide	0.0133	0.0134		mg/Kg		101	50 - 139
Methoxychlor	0.0133	0.0149		mg/Kg		111	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*97*		*33 - 148*
Tetrachloro-m-xylene	*75*		*30 - 121*

Lab Sample ID: 500-257169-1 MS
Matrix: Solid
Analysis Batch: 789971

Client Sample ID: SB113 (0-3)
Prep Type: Total/NA
Prep Batch: 788403

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	<0.019	F2	0.0142	0.0770		mg/Kg	☼	NC	47 - 137
4,4'-DDE	<0.018	F2	0.0142	0.0876		mg/Kg	☼	NC	50 - 130
Aldrin	<0.024		0.0142	0.123		mg/Kg	☼	NC	52 - 122
alpha-BHC	<0.020		0.0142	<0.020		mg/Kg	☼	NC	50 - 123
beta-BHC	<0.028		0.0142	0.0492		mg/Kg	☼	NC	44 - 140
delta-BHC	<0.017		0.0142	0.0735		mg/Kg	☼	NC	57 - 125
Dieldrin	<0.018	F2	0.0142	0.149		mg/Kg	☼	NC	51 - 133
Endosulfan I	<0.019	F2	0.0142	0.177		mg/Kg	☼	NC	30 - 120
Endosulfan II	<0.019	F2	0.0142	0.0346	J	mg/Kg	☼	NC	30 - 120
Endosulfan sulfate	<0.019		0.0142	0.0215	J	mg/Kg	☼	NC	42 - 150
Endrin	<0.018	F2	0.0142	0.0693		mg/Kg	☼	NC	43 - 144
Endrin aldehyde	<0.020		0.0142	<0.021		mg/Kg	☼	NC	39 - 131
Endrin ketone	<0.017		0.0142	<0.018		mg/Kg	☼	NC	51 - 135
Heptachlor	<0.019		0.0142	0.110		mg/Kg	☼	NC	53 - 129
Heptachlor epoxide	<0.019		0.0142	<0.019		mg/Kg	☼	NC	50 - 139
Methoxychlor	<0.023	F2	0.0142	0.193		mg/Kg	☼	NC	45 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*

Lab Sample ID: 500-257169-1 MSD
Matrix: Solid
Analysis Batch: 789971

Client Sample ID: SB113 (0-3)
Prep Type: Total/NA
Prep Batch: 788403

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	<0.019	F2	0.0142	0.0212	J F2	mg/Kg	☼	NC	47 - 137	114	30
4,4'-DDE	<0.018	F2	0.0142	0.0525	F2	mg/Kg	☼	NC	50 - 130	50	30
4,4'-DDT	<0.017	F2	0.0142	0.0362		mg/Kg	☼	NC	46 - 143	NC	30
Aldrin	<0.024		0.0142	0.127		mg/Kg	☼	NC	52 - 122	3	30
alpha-BHC	<0.020		0.0142	<0.020		mg/Kg	☼	NC	50 - 123	NC	30
beta-BHC	<0.028		0.0142	0.0532		mg/Kg	☼	NC	44 - 140	8	30
delta-BHC	<0.017		0.0142	0.0744		mg/Kg	☼	NC	57 - 125	1	30
Dieldrin	<0.018	F2	0.0142	0.0241	J F2	mg/Kg	☼	NC	51 - 133	144	30
Endosulfan I	<0.019	F2	0.0142	0.118	F2	mg/Kg	☼	NC	30 - 120	40	30
Endosulfan II	<0.019	F2	0.0142	0.0203	J F2	mg/Kg	☼	NC	30 - 120	52	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-257169-1 MSD
Matrix: Solid
Analysis Batch: 789971

Client Sample ID: SB113 (0-3)
Prep Type: Total/NA
Prep Batch: 788403

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endosulfan sulfate	<0.019		0.0142	0.0269	J	mg/Kg	☼	NC	42 - 150	22	30
Endrin	<0.018	F2	0.0142	0.0192	J F2	mg/Kg	☼	NC	43 - 144	113	30
Endrin aldehyde	<0.020		0.0142	<0.020		mg/Kg	☼	NC	39 - 131	NC	30
Endrin ketone	<0.017		0.0142	<0.017		mg/Kg	☼	NC	51 - 135	NC	30
gamma-BHC (Lindane)	<0.018	F2	0.0142	0.0285	J	mg/Kg	☼	NC	50 - 122	NC	30
Heptachlor	<0.019		0.0142	0.127		mg/Kg	☼	NC	53 - 129	14	30
Heptachlor epoxide	<0.019		0.0142	<0.019		mg/Kg	☼	NC	50 - 139	NC	30
Methoxychlor	<0.023	F2	0.0142	0.0812	J F2	mg/Kg	☼	NC	45 - 144	81	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*0*	*S1-*	*33 - 148*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-788403/1-A
Matrix: Solid
Analysis Batch: 789912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1016	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1221	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1221	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1232	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1232	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1242	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1242	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1248	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1248	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1254	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1254	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1260	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
PCB-1260	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1
Polychlorinated biphenyls, Total	<0.017		0.017		mg/Kg		09/30/24 16:06	10/10/24 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*49 - 129*	*09/30/24 16:06*	*10/10/24 12:55*	*1*
Tetrachloro-m-xylene	*77*		*49 - 129*	*09/30/24 16:06*	*10/10/24 12:55*	*1*
DCB Decachlorobiphenyl	*99*		*37 - 121*	*09/30/24 16:06*	*10/10/24 12:55*	*1*
DCB Decachlorobiphenyl	*88*		*37 - 121*	*09/30/24 16:06*	*10/10/24 12:55*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-788403/3-A
Matrix: Solid
Analysis Batch: 789912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788403

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.148		mg/Kg		89	57 - 120		
PCB-1016			0.167	0.162		mg/Kg		97	57 - 120		
PCB-1260			0.167	0.179		mg/Kg		108	61 - 125		
PCB-1260			0.167	0.186		mg/Kg		112	61 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*89*		*49 - 129*
Tetrachloro-m-xylene	*83*		*49 - 129*
DCB Decachlorobiphenyl	*98*		*37 - 121*
DCB Decachlorobiphenyl	*94*		*37 - 121*

Lab Sample ID: 500-257169-1 MS
Matrix: Solid
Analysis Batch: 789912

Client Sample ID: SB113 (0-3)
Prep Type: Total/NA
Prep Batch: 788403

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	<0.17	F1	0.177	0.233	F1	mg/Kg	☼	131	57 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*49 - 129*
DCB Decachlorobiphenyl	*115*		*37 - 121*

Lab Sample ID: 500-257169-1 MSD
Matrix: Solid
Analysis Batch: 789912

Client Sample ID: SB113 (0-3)
Prep Type: Total/NA
Prep Batch: 788403

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.17	F1	0.179	0.298	F1	mg/Kg	☼	167	57 - 120	25	30
PCB-1260	<0.17	F1 *3	0.179	0.229	F1	mg/Kg	☼	128	61 - 125	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*102*		*49 - 129*
DCB Decachlorobiphenyl	*84*		*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-789084/1-A
Matrix: Solid
Analysis Batch: 789732

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Antimony	<2.0		2.0		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Arsenic	<1.0		1.0		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Barium	<1.0		1.0		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Beryllium	<0.40		0.40		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Cadmium	<0.20		0.20		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Calcium	<20		20		mg/Kg		10/04/24 09:34	10/08/24 15:29	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-789084/1-A
Matrix: Solid
Analysis Batch: 789732

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<1.0		1.0		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Cobalt	<0.50		0.50		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Copper	<1.0		1.0		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Iron	<20		20		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Lead	<0.50		0.50		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Magnesium	<10		10		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Manganese	<1.0		1.0		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Nickel	<1.0		1.0		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Potassium	<50		50		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Selenium	<1.0		1.0		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Silver	<0.50		0.50		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Sodium	<100		100		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Thallium	<1.0		1.0		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Vanadium	<0.50		0.50		mg/Kg		10/04/24 09:34	10/08/24 15:29	1
Zinc	<2.0		2.0		mg/Kg		10/04/24 09:34	10/08/24 15:29	1

Lab Sample ID: LCS 500-789084/2-A
Matrix: Solid
Analysis Batch: 789732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	196		mg/Kg		98	80 - 120
Antimony	50.0	52.4		mg/Kg		105	80 - 120
Arsenic	10.0	9.69		mg/Kg		97	80 - 120
Barium	200	203		mg/Kg		102	80 - 120
Beryllium	5.00	5.17		mg/Kg		103	80 - 120
Cadmium	5.00	4.77		mg/Kg		95	80 - 120
Calcium	1000	1010		mg/Kg		101	80 - 120
Chromium	20.0	20.3		mg/Kg		101	80 - 120
Cobalt	50.0	50.5		mg/Kg		101	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Iron	100	94.8		mg/Kg		95	80 - 120
Lead	10.0	9.82		mg/Kg		98	80 - 120
Magnesium	1000	973		mg/Kg		97	80 - 120
Manganese	50.0	50.1		mg/Kg		100	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120
Potassium	1000	1000		mg/Kg		100	80 - 120
Selenium	10.0	9.12		mg/Kg		91	80 - 120
Silver	5.00	4.56		mg/Kg		91	80 - 120
Sodium	1000	1010		mg/Kg		101	80 - 120
Thallium	10.0	9.71		mg/Kg		97	80 - 120
Vanadium	50.0	50.5		mg/Kg		101	80 - 120
Zinc	50.0	51.9		mg/Kg		104	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-789127/12-A
Matrix: Solid
Analysis Batch: 789396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789127

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		10/04/24 15:35	10/07/24 07:16	1

Lab Sample ID: LCS 500-789127/13-A
Matrix: Solid
Analysis Batch: 789396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.172		mg/Kg		103	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-788493/1-A
Matrix: Solid
Analysis Batch: 788777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		10/01/24 10:44	10/01/24 14:25	1

Lab Sample ID: LCS 500-788493/2-A
Matrix: Solid
Analysis Batch: 788777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.16		mg/Kg		90	85 - 115

Lab Sample ID: 500-257169-1 MS
Matrix: Solid
Analysis Batch: 788746

Client Sample ID: SB113 (0-3)
Prep Type: Total/NA
Prep Batch: 788493

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	1.8		2.54	4.94		mg/Kg	☼	123	75 - 125

Lab Sample ID: 500-257169-1 MSD
Matrix: Solid
Analysis Batch: 788746

Client Sample ID: SB113 (0-3)
Prep Type: Total/NA
Prep Batch: 788493

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	1.8		2.47	5.52	F1	mg/Kg	☼	150	75 - 125	11	20

Lab Sample ID: 500-257169-10 MS
Matrix: Solid
Analysis Batch: 788777

Client Sample ID: SB117 (5-7.5)
Prep Type: Total/NA
Prep Batch: 788493

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	6.4	F1 F2	2.68	9.09		mg/Kg	☼	102	75 - 125

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 500-257169-10 MSD
Matrix: Solid
Analysis Batch: 788777

Client Sample ID: SB117 (5-7.5)
Prep Type: Total/NA
Prep Batch: 788493

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	6.4	F1 F2	2.66	14.1	F1 F2	mg/Kg	☼	289	75 - 125	43	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-628696/1-A
Matrix: Solid
Analysis Batch: 628745

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<30		30		mg/Kg		09/27/24 09:15	09/27/24 10:55	1

Lab Sample ID: LCS 240-628696/2-A
Matrix: Solid
Analysis Batch: 628745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	83.8	81.2		mg/Kg		97	56 - 120

Client Sample ID: SB113 (0-3)

Lab Sample ID: 500-257169-1

Date Collected: 09/20/24 08:17

Matrix: Solid

Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788329	ST	EET CHI	09/27/24 16:49
Total/NA	Analysis	Moisture		1	788388	ER	EET CHI	09/30/24 15:02

Client Sample ID: SB113 (0-3)

Lab Sample ID: 500-257169-1

Date Collected: 09/20/24 08:17

Matrix: Solid

Date Received: 09/23/24 12:50

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787399		EET CHI	09/20/24 16:43
Total/NA	Analysis	8260D		1	787594	W1T	EET CHI	09/25/24 14:52
Total/NA	Prep	3546			788593	LH	EET CHI	10/01/24 15:05
Total/NA	Analysis	8270E		2	788692	H7CM	EET CHI	10/02/24 17:13
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8081B		20	789971	H7CM	EET CHI	10/10/24 16:38
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8082A		10	789912	H7CM	EET CHI	10/10/24 13:26
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		5	789836	SJ	EET CHI	10/09/24 12:23
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 15:56
Total/NA	Prep	7471B			789127	MJG	EET CHI	10/04/24 15:35
Total/NA	Analysis	7471B		1	789396	MJG	EET CHI	10/07/24 07:49
Total/NA	Prep	9010C			788493	AC	EET CHI	10/01/24 10:44 - 10/01/24 11:14 [1]
Total/NA	Analysis	9012B		1	788777	AC	EET CHI	10/01/24 14:41

Client Sample ID: SB113 (10-12.5)

Lab Sample ID: 500-257169-2

Date Collected: 09/20/24 08:42

Matrix: Solid

Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788329	ST	EET CHI	09/27/24 16:51
Total/NA	Analysis	Moisture		1	788388	ER	EET CHI	09/30/24 15:02

Client Sample ID: SB113 (10-12.5)

Lab Sample ID: 500-257169-2

Date Collected: 09/20/24 08:42

Matrix: Solid

Date Received: 09/23/24 12:50

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787399		EET CHI	09/20/24 16:43
Total/NA	Analysis	8260D		1	787594	W1T	EET CHI	09/25/24 15:17
Total/NA	Prep	3546			788593	LH	EET CHI	10/01/24 15:05
Total/NA	Analysis	8270E		1	788692	H7CM	EET CHI	10/02/24 13:02
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8081B		10	789720	GLR	EET CHI	10/09/24 16:01

Client Sample ID: SB113 (10-12.5)
Lab Sample ID: 500-257169-2
Date Collected: 09/20/24 08:42
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 ¹
Total/NA	Analysis	8082A		10	789912	H7CM	EET CHI	10/10/24 14:12
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 ¹
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 16:01
Total/NA	Prep	7471B			789127	MJG	EET CHI	10/04/24 15:35
Total/NA	Analysis	7471B		1	789396	MJG	EET CHI	10/07/24 07:51
Total/NA	Prep	9010C			788493	AC	EET CHI	10/01/24 10:44 - 10/01/24 11:14 ¹
Total/NA	Analysis	9012B		1	788746	AC	EET CHI	10/02/24 11:13

Client Sample ID: SB114 (0-3)
Lab Sample ID: 500-257169-3
Date Collected: 09/20/24 09:27
Matrix: Solid
Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788329	ST	EET CHI	09/27/24 16:53
Total/NA	Analysis	Moisture		1	788388	ER	EET CHI	09/30/24 15:02

Client Sample ID: SB114 (0-3)
Lab Sample ID: 500-257169-3
Date Collected: 09/20/24 09:27
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	789026	W1T	EET CHI	10/04/24 11:45
Total/NA	Prep	3546			788593	LH	EET CHI	10/01/24 15:05
Total/NA	Analysis	8270E		2	788692	H7CM	EET CHI	10/02/24 17:38
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 ¹
Total/NA	Analysis	8081B		10	789720	GLR	EET CHI	10/09/24 16:12
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 ¹
Total/NA	Analysis	8082A		10	789912	H7CM	EET CHI	10/10/24 14:27
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 ¹
Total/NA	Analysis	6010D		5	789836	SJ	EET CHI	10/09/24 12:28
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 ¹
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 16:05
Total/NA	Prep	7471B			789127	MJG	EET CHI	10/04/24 15:35
Total/NA	Analysis	7471B		1	789396	MJG	EET CHI	10/07/24 07:52
Total/NA	Prep	9010C			788493	AC	EET CHI	10/01/24 10:44 - 10/01/24 11:14 ¹
Total/NA	Analysis	9012B		1	788746	AC	EET CHI	10/02/24 11:15

Client Sample ID: SB114 (7.5-12)
Lab Sample ID: 500-257169-4
Date Collected: 09/20/24 09:43
Matrix: Solid
Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788329	ST	EET CHI	09/27/24 16:56
Total/NA	Analysis	Moisture		1	788388	ER	EET CHI	09/30/24 15:02

Client Sample ID: SB114 (7.5-12)

Lab Sample ID: 500-257169-4

Date Collected: 09/20/24 09:43

Matrix: Solid

Date Received: 09/23/24 12:50

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787399		EET CHI	09/20/24 16:43
Total/NA	Analysis	8260D		1	787594	W1T	EET CHI	09/25/24 15:42
Total/NA	Prep	3546			788593	LH	EET CHI	10/01/24 15:05
Total/NA	Analysis	8270E		1	788864	H7CM	EET CHI	10/03/24 13:07
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8081B		10	789720	GLR	EET CHI	10/09/24 16:24
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8082A		10	789912	H7CM	EET CHI	10/10/24 14:43
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		5	789836	SJ	EET CHI	10/09/24 12:32
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 16:10
Total/NA	Prep	7471B			789127	MJG	EET CHI	10/04/24 15:35
Total/NA	Analysis	7471B		1	789396	MJG	EET CHI	10/07/24 07:54
Total/NA	Prep	9010C			788493	AC	EET CHI	10/01/24 10:44 - 10/01/24 11:14 [1]
Total/NA	Analysis	9012B		1	788746	AC	EET CHI	10/02/24 11:17

Client Sample ID: SB115 (0-3)

Lab Sample ID: 500-257169-5

Date Collected: 09/20/24 10:14

Matrix: Solid

Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788329	ST	EET CHI	09/27/24 16:58
Total/NA	Analysis	Moisture		1	788388	ER	EET CHI	09/30/24 15:02

Client Sample ID: SB115 (0-3)

Lab Sample ID: 500-257169-5

Date Collected: 09/20/24 10:14

Matrix: Solid

Date Received: 09/23/24 12:50

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787399		EET CHI	09/20/24 16:43
Total/NA	Analysis	8260D		1	787594	W1T	EET CHI	09/25/24 16:07
Total/NA	Prep	3546			788593	LH	EET CHI	10/01/24 15:05
Total/NA	Analysis	8270E		2	788692	H7CM	EET CHI	10/02/24 18:03
Total/NA	Prep	3546	DL		788593	LH	EET CHI	10/01/24 15:05
Total/NA	Analysis	8270E	DL	20	788864	H7CM	EET CHI	10/03/24 13:32
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8081B		10	789720	GLR	EET CHI	10/09/24 16:36
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8082A		10	789912	H7CM	EET CHI	10/10/24 14:58
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		5	789836	SJ	EET CHI	10/09/24 12:37
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 16:14

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257169-1

Client Sample ID: SB115 (0-3)
Date Collected: 09/20/24 10:14
Date Received: 09/23/24 12:50

Lab Sample ID: 500-257169-5
Matrix: Solid
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			789127	MJG	EET CHI	10/04/24 15:35
Total/NA	Analysis	7471B		1	789396	MJG	EET CHI	10/07/24 08:01
Total/NA	Prep	9010C			788493	AC	EET CHI	10/01/24 10:44 - 10/01/24 11:14 [1]
Total/NA	Analysis	9012B		10	788746	AC	EET CHI	10/02/24 11:22

Client Sample ID: SB115 (5-7.5)
Date Collected: 09/20/24 10:26
Date Received: 09/23/24 12:50

Lab Sample ID: 500-257169-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788329	ST	EET CHI	09/27/24 17:01
Total/NA	Analysis	Moisture		1	788388	ER	EET CHI	09/30/24 15:02

Client Sample ID: SB115 (5-7.5)
Date Collected: 09/20/24 10:26
Date Received: 09/23/24 12:50

Lab Sample ID: 500-257169-6
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787399		EET CHI	09/20/24 16:43
Total/NA	Analysis	8260D		1	787594	W1T	EET CHI	09/25/24 16:32
Total/NA	Prep	3546			788593	LH	EET CHI	10/01/24 15:05
Total/NA	Analysis	8270E		2	788692	H7CM	EET CHI	10/02/24 18:53
Total/NA	Prep	3546	DL		788593	LH	EET CHI	10/01/24 15:05
Total/NA	Analysis	8270E	DL	50	788864	H7CM	EET CHI	10/03/24 13:57
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8081B		10	789971	H7CM	EET CHI	10/10/24 17:13
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8082A		10	789912	H7CM	EET CHI	10/10/24 15:13
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		5	789836	SJ	EET CHI	10/09/24 12:41
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 16:19
Total/NA	Prep	7471B			789127	MJG	EET CHI	10/04/24 15:35
Total/NA	Analysis	7471B		1	789396	MJG	EET CHI	10/07/24 08:03
Total/NA	Prep	9010C			788493	AC	EET CHI	10/01/24 10:44 - 10/01/24 11:14 [1]
Total/NA	Analysis	9012B		5	788746	AC	EET CHI	10/02/24 11:27

Client Sample ID: SB116 (0-3)
Date Collected: 09/20/24 11:37
Date Received: 09/23/24 12:50

Lab Sample ID: 500-257169-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788329	ST	EET CHI	09/27/24 17:06
Total/NA	Analysis	Moisture		1	788401	ER	EET CHI	09/30/24 15:55

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257169-1

Client Sample ID: SB116 (0-3)

Lab Sample ID: 500-257169-7
Date Collected: 09/20/24 11:37
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	789026	W1T	EET CHI	10/04/24 12:10
Total/NA	Prep	3546			788593	LH	EET CHI	10/01/24 15:05
Total/NA	Analysis	8270E		5	788864	H7CM	EET CHI	10/03/24 14:22
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8081B		10	789971	H7CM	EET CHI	10/10/24 17:25
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8082A		10	789912	H7CM	EET CHI	10/10/24 15:29
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		5	789836	SJ	EET CHI	10/09/24 12:46
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 16:24
Total/NA	Prep	7471B			789127	MJG	EET CHI	10/04/24 15:35
Total/NA	Analysis	7471B		1	789396	MJG	EET CHI	10/07/24 08:05
Total/NA	Prep	9010C			788493	AC	EET CHI	10/01/24 10:44 - 10/01/24 11:14 [1]
Total/NA	Analysis	9012B		5	788746	AC	EET CHI	10/02/24 11:51

Client Sample ID: SB116 (12.5-15)

Lab Sample ID: 500-257169-8
Date Collected: 09/20/24 11:59
Matrix: Solid
Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788329	ST	EET CHI	09/27/24 17:08
Total/NA	Analysis	Moisture		1	788401	ER	EET CHI	09/30/24 15:55

Client Sample ID: SB116 (12.5-15)

Lab Sample ID: 500-257169-8
Date Collected: 09/20/24 11:59
Matrix: Solid
Date Received: 09/23/24 12:50
Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	789026	W1T	EET CHI	10/04/24 12:35
Total/NA	Prep	3546			788593	LH	EET CHI	10/01/24 15:05
Total/NA	Analysis	8270E		1	788692	H7CM	EET CHI	10/02/24 13:27
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8081B		10	789971	H7CM	EET CHI	10/10/24 17:36
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8082A		10	789912	H7CM	EET CHI	10/10/24 15:44
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 16:28
Total/NA	Prep	7471B			789127	MJG	EET CHI	10/04/24 15:35
Total/NA	Analysis	7471B		1	789396	MJG	EET CHI	10/07/24 08:06
Total/NA	Prep	9010C			788493	AC	EET CHI	10/01/24 10:44 - 10/01/24 11:14 [1]
Total/NA	Analysis	9012B		1	788746	AC	EET CHI	10/02/24 11:33

Client Sample ID: SB117 (0-3)

Lab Sample ID: 500-257169-9

Date Collected: 09/20/24 13:00

Matrix: Solid

Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788329	ST	EET CHI	09/27/24 17:11
Total/NA	Analysis	Moisture		1	788401	ER	EET CHI	09/30/24 15:55

Client Sample ID: SB117 (0-3)

Lab Sample ID: 500-257169-9

Date Collected: 09/20/24 13:00

Matrix: Solid

Date Received: 09/23/24 12:50

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787399		EET CHI	09/20/24 16:43
Total/NA	Analysis	8260D		1	787594	W1T	EET CHI	09/25/24 16:56
Total/NA	Prep	3546			788593	LH	EET CHI	10/01/24 15:05
Total/NA	Analysis	8270E		1	788864	H7CM	EET CHI	10/03/24 14:47
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8081B		20	789971	H7CM	EET CHI	10/10/24 17:48
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8082A		10	789912	H7CM	EET CHI	10/10/24 15:59
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		5	789836	SJ	EET CHI	10/09/24 12:50
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 16:42
Total/NA	Prep	7471B			789127	MJG	EET CHI	10/04/24 15:35
Total/NA	Analysis	7471B		1	789396	MJG	EET CHI	10/07/24 08:08
Total/NA	Prep	9010C			788493	AC	EET CHI	10/01/24 10:44 - 10/01/24 11:14 [1]
Total/NA	Analysis	9012B		10	788746	AC	EET CHI	10/02/24 11:38

Client Sample ID: SB117 (5-7.5)

Lab Sample ID: 500-257169-10

Date Collected: 09/20/24 13:09

Matrix: Solid

Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	788329	ST	EET CHI	09/27/24 17:16
Total/NA	Analysis	Moisture		1	788401	ER	EET CHI	09/30/24 15:55

Client Sample ID: SB117 (5-7.5)

Lab Sample ID: 500-257169-10

Date Collected: 09/20/24 13:09

Matrix: Solid

Date Received: 09/23/24 12:50

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			787399		EET CHI	09/20/24 16:43
Total/NA	Analysis	8260D		1	787594	W1T	EET CHI	09/25/24 17:21
Total/NA	Prep	3546			788593	LH	EET CHI	10/01/24 15:05
Total/NA	Analysis	8270E		1	788692	H7CM	EET CHI	10/02/24 13:52
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8081B		10	789971	H7CM	EET CHI	10/10/24 17:59

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB117 (5-7.5)
Lab Sample ID: 500-257169-10

Date Collected: 09/20/24 13:09
Matrix: Solid

Date Received: 09/23/24 12:50
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			788403	SV	EET CHI	09/30/24 16:06 - 09/30/24 21:48 [1]
Total/NA	Analysis	8082A		10	789912	H7CM	EET CHI	10/10/24 16:15
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		5	789836	SJ	EET CHI	10/09/24 12:54
Total/NA	Prep	3050B			789084	BDE	EET CHI	10/04/24 09:34 - 10/04/24 15:34 [1]
Total/NA	Analysis	6010D		1	789732	DAJ	EET CHI	10/08/24 16:46
Total/NA	Prep	7471B			789127	MJG	EET CHI	10/04/24 15:35
Total/NA	Analysis	7471B		1	789396	MJG	EET CHI	10/07/24 08:10
Total/NA	Prep	9010C			788493	AC	EET CHI	10/01/24 10:44 - 10/01/24 11:14 [1]
Total/NA	Analysis	9012B		1	788777	AC	EET CHI	10/01/24 16:26
Total/NA	Prep	9030B			628696	C5SV	EET CLE	09/27/24 09:15
Total/NA	Analysis	9034		1	628745	C5SV	EET CLE	09/27/24 10:55

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	02-13-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D		Solid	1,3-Dichloropropene, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record

670149 eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☒ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JACOB HARTSOCK	Site Contact:	Date:	COC No
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier:	1 of 1 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name: 8080 S LAKE SHORE	☐ 1 week			
Site	☐ 2 days			Job / SDG No: 500-257169
PO# 24-0124-103	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL TAL	SUL FIDE	500-257169 COC	Sample Specific Notes
1 SB113 (0-3)	9/20/24	817	G	SO	4			X			
2 SB 113 (10-12.5)		842						X			
3 SB114 (0-3)		927									
4 SB114 (7.5-10)		943									
5 SB 115 (0-3)		1014									
6 SB 115 (5-7.5)		1026									
7 SB 116 (0-3)		1137									
8 SB 116 (12.5-15)		1159									
9 SB 117 (0-3)		100									
10 SB117 (5-7.5)		109						X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: STIRS IN FREEZER 9/20 @ 4:43

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd 1.9 Corr'd 1.6 Therm ID No _____		
Relinquished by	Company: PIONEER	Date/Time: 9/20/24	Received by: Tristan Bryant	Company: EETA	Date/Time: 9/23/24 1030
Relinquished by: Tristan Bryant	Company: EETA	Date/Time: 9/23/24 1250	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received at Laboratory by: [illegible]	Company: EETA	Date/Time: 9/23/24 1250

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-192998.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-257169-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/7/2024			Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B Sulfide	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB117 (5-7 5) (500-257169-10)	9/20/24	13:09 Central	G	Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 9/24/24 1600	Company	Received by: [signature]	Date/Time: 9/26/24 920	Company: Euro
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:		

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Interlab Site Name

Cooler Received on 9/26/24 Opened on 9/26/24

Cooler unpacked by: JF

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # 8c Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam (Plastic Bag) None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 72 (CF -0.1 °C) Observed Cooler Temp. 1.0 °C Corrected Cooler Temp 0.9 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes) No	**Tests that are not checked for pH by Receiving:**
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No NA	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	**VOAs**
-Were tamper/custody seals intact and uncompromised?	Yes No (NA)	**Oil and Grease**
3 Shippers' packing slip attached to the cooler(s)?	(Yes) No	**TOC**
4. Did custody papers accompany the sample(s)?	(Yes) No	
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No	
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12. Are these work share samples and all listed on the COC?	(Yes) No	
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA	pH Strip Lot# HC447997
14. Were VOAs on the COC?	Yes No	
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes No NA	
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No	
17 Was a LL Hg or Me Hg trip blank present?	Yes No	

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s). _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

SHIP DATE: 24SEP24
ACTWGT: 52.00 LB MAN
CAD: 0675958/CAFI3854

BILL SENDER

Part # 159469-434 MTW EXP 02/25

RECEIVING
CANTON
VAN BUREN AVENUE

BARBERTON OH 44203

115 159 169 191 192 206 220 221 227

FedEx Express

E

TRK# 0201 7051 7620 9803

WED - 25 SEP 10:30A
PRIORITY OVERNIGHT

NX CAKA

44203
CLE

Temperature Controlled

IF THIS SHIPMENT IS DELAYED IN TRANSIT,
STORE REFRIGERATED (2° TO 8° C / 36° TO 47° F)

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-257169-1

Login Number: 257169
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-257169-1

Login Number: 257169
List Number: 2
Creator: Foltyn, Tristan

List Source: Eurofins Cleveland
List Creation: 09/26/24 10:07 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 12/9/2024 4:47:26 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-260898-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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12/9/2024 4:47:26 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-260898-2 — Eurofins Chicago

Job Narrative
500-260898-2

Receipt
The samples were received on 12/03/24 12:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB113 (10-12.5)
Lab Sample ID: 500-260898-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	17		9.7		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	35		20		mg/Kg	1	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-2
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-2
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-260898-1	SB113 (10-12.5)	Solid	12/02/24 09:58	12/03/24 12:50

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB113 (10-12.5)
Lab Sample ID: 500-260898-1
Date Collected: 12/02/24 09:58
Matrix: Solid
Date Received: 12/03/24 12:50
Percent Solids: 83.8

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.2		1.2		mg/Kg	☼	12/02/24 09:58	12/04/24 02:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*12/02/24 09:58*	*12/04/24 02:46*	*50*
4-Bromofluorobenzene	*106*		*60 - 130*	*12/02/24 09:58*	*12/04/24 02:46*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**17**		9.7		mg/Kg	☼	12/05/24 16:40	12/06/24 20:57	1
Oil Range Organics (C28-C36)	**35**		20		mg/Kg	☼	12/05/24 16:40	12/06/24 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*50 - 126*	*12/05/24 16:40*	*12/06/24 20:57*	*1*
2-Fluorobiphenyl (Surr)	*69*		*40 - 133*	*12/05/24 16:40*	*12/06/24 20:57*	*1*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-2
Project/Site: 8080 District (24-0124-103)

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-2
Project/Site: 8080 District (24-0124-103)

GC VOA

Prep Batch: 797880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260898-1	SB113 (10-12.5)	Total/NA	Solid	5035	
500-260898-1 MS	SB113 (10-12.5)	Total/NA	Solid	5035	
500-260898-1 MSD	SB113 (10-12.5)	Total/NA	Solid	5035	

Analysis Batch: 797882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260898-1	SB113 (10-12.5)	Total/NA	Solid	8015D	797880
MB 500-797882/3	Method Blank	Total/NA	Solid	8015D	
LCS 500-797882/4	Lab Control Sample	Total/NA	Solid	8015D	
500-260898-1 MS	SB113 (10-12.5)	Total/NA	Solid	8015D	797880
500-260898-1 MSD	SB113 (10-12.5)	Total/NA	Solid	8015D	797880

GC Semi VOA

Prep Batch: 798262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260898-1	SB113 (10-12.5)	Total/NA	Solid	3541	
MB 500-798262/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-798262/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-260898-1 MS	SB113 (10-12.5)	Total/NA	Solid	3541	
500-260898-1 MSD	SB113 (10-12.5)	Total/NA	Solid	3541	

Analysis Batch: 798387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260898-1	SB113 (10-12.5)	Total/NA	Solid	8015D	798262
MB 500-798262/1-A	Method Blank	Total/NA	Solid	8015D	798262
LCS 500-798262/2-A	Lab Control Sample	Total/NA	Solid	8015D	798262
500-260898-1 MS	SB113 (10-12.5)	Total/NA	Solid	8015D	798262
500-260898-1 MSD	SB113 (10-12.5)	Total/NA	Solid	8015D	798262

General Chemistry

Analysis Batch: 798034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260898-1	SB113 (10-12.5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-260898-2

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-260898-1	SB113 (10-12.5)	96	106
500-260898-1 MS	SB113 (10-12.5)	100	106
500-260898-1 MSD	SB113 (10-12.5)	98	104
LCS 500-797882/4	Lab Control Sample	100	106
MB 500-797882/3	Method Blank	98	107

Surrogate Legend

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-260898-1	SB113 (10-12.5)	82	69
500-260898-1 MS	SB113 (10-12.5)	79	68
500-260898-1 MSD	SB113 (10-12.5)	79	68
LCS 500-798262/2-A	Lab Control Sample	81	76
MB 500-798262/1-A	Method Blank	82	79

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 500-260898-1 MS
Matrix: Solid
Analysis Batch: 797882

Client Sample ID: SB113 (10-12.5)
Prep Type: Total/NA
Prep Batch: 797880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	<1.2		24.6	22.8		mg/Kg	☼	93	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*100*		*70 - 130*
4-Bromofluorobenzene	*106*		*60 - 130*

Lab Sample ID: 500-260898-1 MSD
Matrix: Solid
Analysis Batch: 797882

Client Sample ID: SB113 (10-12.5)
Prep Type: Total/NA
Prep Batch: 797880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C6-C9)	<1.2		24.6	22.9		mg/Kg	☼	93	70 - 130	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*70 - 130*
4-Bromofluorobenzene	*104*		*60 - 130*

Lab Sample ID: MB 500-797882/3
Matrix: Solid
Analysis Batch: 797882

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			12/04/24 01:34	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*		*12/04/24 01:34*	*50*
4-Bromofluorobenzene	*107*		*60 - 130*		*12/04/24 01:34*	*50*

Lab Sample ID: LCS 500-797882/4
Matrix: Solid
Analysis Batch: 797882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	19.9	17.8		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*100*		*70 - 130*
4-Bromofluorobenzene	*106*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-798262/1-A
Matrix: Solid
Analysis Batch: 798387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		12/05/24 16:40	12/06/24 14:16	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		12/05/24 16:40	12/06/24 14:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*50 - 126*	*12/05/24 16:40*	*12/06/24 14:16*	*1*
2-Fluorobiphenyl (Surr)	*79*		*40 - 133*	*12/05/24 16:40*	*12/06/24 14:16*	*1*

Lab Sample ID: LCS 500-798262/2-A
Matrix: Solid
Analysis Batch: 798387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	48.9		mg/Kg		73	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*81*		*50 - 126*
2-Fluorobiphenyl (Surr)	*76*		*40 - 133*

Lab Sample ID: 500-260898-1 MS
Matrix: Solid
Analysis Batch: 798387

Client Sample ID: SB113 (10-12.5)
Prep Type: Total/NA
Prep Batch: 798262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	17		77.8	67.5		mg/Kg	☼	65	60 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*79*		*50 - 126*
2-Fluorobiphenyl (Surr)	*68*		*40 - 133*

Lab Sample ID: 500-260898-1 MSD
Matrix: Solid
Analysis Batch: 798387

Client Sample ID: SB113 (10-12.5)
Prep Type: Total/NA
Prep Batch: 798262

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	17		77.2	68.8		mg/Kg	☼	67	60 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*79*		*50 - 126*
2-Fluorobiphenyl (Surr)	*68*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-260898-2

Client Sample ID: SB113 (10-12.5)
Date Collected: 12/02/24 09:58
Date Received: 12/03/24 12:50

Lab Sample ID: 500-260898-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	798034	MF	EET CHI	12/04/24 13:11

Client Sample ID: SB113 (10-12.5)
Date Collected: 12/02/24 09:58
Date Received: 12/03/24 12:50

Lab Sample ID: 500-260898-1
Matrix: Solid
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			797880	WRE	EET CHI	12/02/24 09:58
Total/NA	Analysis	8015D		50	797882	WRE	EET CHI	12/04/24 02:46
Total/NA	Prep	3541			798262	SV	EET CHI	12/05/24 16:40 - 12/05/24 21:55 [1]
Total/NA	Analysis	8015D		1	798387	SB	EET CHI	12/06/24 20:57

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-2
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734819

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARTSOCK	Site Contact	Date:	COC No: 1 of 1 COCs
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier:	Sampler:
Address	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client / Lab Sampling
City/State/Zip	TAT if different from Below: ☐ 2 weeks 10 DAY ☐ 1 week ☐ 2 days 5 DAY FOR SB113 ☐ 1 day			
Phone				
Fax				
Project Name: 8080 S LAKE STONE Dr				Job / SDG No.: 500-260898
Site				
P O #				

500-260898 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TOC	SVOCs/PNAs	FILTERED SVOCs/PNAs	TCLP MERCURY	Sample Specific Notes
1	SB113 (10-12.5)	12/2/24	958	G	SO	2			X				5 DAY
2	NMW-2		1139		GW	4				X	X		
3	NMW-4		130		GW	4				X	X		
4	SB80 (0-3)		301		SO	1						X	
5	SB86 (0-3)		333		SO	1						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 4.0 Corr'd 0.7 | Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	12/3/24	Received by	EEA	12/3/24 0940
Relinquished by	EEA	12/3/24 1250	Received by		
Relinquished by			Received in Laboratory by:	EEA	12/3/24 1250

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-260898-2

Login Number: 260898
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 12/13/2024 4:57:25 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-261186-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

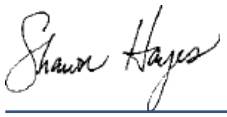
Eurofins Chicago

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Job ID: 500-261186-1 — Eurofins Chicago

Job Narrative
500-261186-1

Receipt
The samples were received on 12/06/24 17:52. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.3º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following samples required a dilution due to the nature of the sample matrix: SB21b (10-12.5) (500-261186-3), SB21c (12.5-15) (500-261186-6) and SB21d (10-12.5) (500-261186-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261186-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB24 (7.5-10) — Lab Sample ID: 500-261186-1

No Detections.

Client Sample ID: SB21b (10-12.5) — Lab Sample ID: 500-261186-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	3.5		1.3		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	16000		1900		mg/Kg	200	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	17000		3800		mg/Kg	200	☼	8015D	Total/NA

Client Sample ID: SB21c (12.5-15) — Lab Sample ID: 500-261186-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	4.5		1.6		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	4800		190		mg/Kg	20	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	5300		390		mg/Kg	20	☼	8015D	Total/NA

Client Sample ID: SB21d (10-12.5) — Lab Sample ID: 500-261186-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	19		3.0		mg/Kg	100	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	27000		2100		mg/Kg	200	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	15000		4200		mg/Kg	200	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261186-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261186-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261186-1	SB24 (7.5-10)	Solid	12/06/24 09:12	12/06/24 17:52
500-261186-3	SB21b (10-12.5)	Solid	12/06/24 10:49	12/06/24 17:52
500-261186-6	SB21c (12.5-15)	Solid	12/06/24 12:13	12/06/24 17:52
500-261186-9	SB21d (10-12.5)	Solid	12/06/24 14:14	12/06/24 17:52

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261186-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB24 (7.5-10)
Lab Sample ID: 500-261186-1
Date Collected: 12/06/24 09:12
Matrix: Solid
Date Received: 12/06/24 17:52
Percent Solids: 87.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	12/12/24 16:20	12/13/24 08:36	1

Client Sample ID: SB21b (10-12.5)

Lab Sample ID: 500-261186-3
Date Collected: 12/06/24 10:49
Matrix: Solid
Date Received: 12/06/24 17:52
Percent Solids: 85.4

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	3.5		1.3		mg/Kg	☼	12/06/24 10:49	12/11/24 05:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*70 - 130*	*12/06/24 10:49*	*12/11/24 05:56*	*50*
4-Bromofluorobenzene	*100*		*60 - 130*	*12/06/24 10:49*	*12/11/24 05:56*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16000		1900		mg/Kg	☼	12/10/24 07:38	12/11/24 21:22	200
Oil Range Organics (C28-C36)	17000		3800		mg/Kg	☼	12/10/24 07:38	12/11/24 21:22	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/10/24 07:38*	*12/11/24 21:22*	*200*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/10/24 07:38*	*12/11/24 21:22*	*200*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261186-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21c (12.5-15)
Lab Sample ID: 500-261186-6
Date Collected: 12/06/24 12:13
Matrix: Solid
Date Received: 12/06/24 17:52
Percent Solids: 83.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	4.5		1.6		mg/Kg	☼	12/06/24 12:13	12/11/24 07:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*70 - 130*	*12/06/24 12:13*	*12/11/24 07:08*	*50*
4-Bromofluorobenzene	*99*		*60 - 130*	*12/06/24 12:13*	*12/11/24 07:08*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4800		190		mg/Kg	☼	12/10/24 07:38	12/11/24 14:14	20
Oil Range Organics (C28-C36)	5300		390		mg/Kg	☼	12/10/24 07:38	12/11/24 14:14	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/10/24 07:38*	*12/11/24 14:14*	*20*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/10/24 07:38*	*12/11/24 14:14*	*20*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261186-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21d (10-12.5)
Lab Sample ID: 500-261186-9
Date Collected: 12/06/24 14:14
Matrix: Solid
Date Received: 12/06/24 17:52
Percent Solids: 79.1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	19		3.0		mg/Kg	☼	12/06/24 14:14	12/11/24 08:20	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*70 - 130*	*12/06/24 14:14*	*12/11/24 08:20*	*100*
4-Bromofluorobenzene	*101*		*60 - 130*	*12/06/24 14:14*	*12/11/24 08:20*	*100*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	27000		2100		mg/Kg	☼	12/10/24 07:38	12/11/24 21:50	200
Oil Range Organics (C28-C36)	15000		4200		mg/Kg	☼	12/10/24 07:38	12/11/24 21:50	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/10/24 07:38*	*12/11/24 21:50*	*200*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/10/24 07:38*	*12/11/24 21:50*	*200*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261186-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC VOA

Prep Batch: 798470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261186-3	SB21b (10-12.5)	Total/NA	Solid	5035	
500-261186-6	SB21c (12.5-15)	Total/NA	Solid	5035	
500-261186-9	SB21d (10-12.5)	Total/NA	Solid	5035	

Analysis Batch: 798834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261186-3	SB21b (10-12.5)	Total/NA	Solid	8015D	798470
500-261186-6	SB21c (12.5-15)	Total/NA	Solid	8015D	798470
500-261186-9	SB21d (10-12.5)	Total/NA	Solid	8015D	798470
MB 500-798834/3	Method Blank	Total/NA	Solid	8015D	
LCS 500-798834/4	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 798691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261186-3	SB21b (10-12.5)	Total/NA	Solid	3541	
500-261186-6	SB21c (12.5-15)	Total/NA	Solid	3541	
500-261186-9	SB21d (10-12.5)	Total/NA	Solid	3541	
MB 500-798691/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-798691/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 798796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-798691/1-A	Method Blank	Total/NA	Solid	8015D	798691
LCS 500-798691/2-A	Lab Control Sample	Total/NA	Solid	8015D	798691

Analysis Batch: 798883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261186-3	SB21b (10-12.5)	Total/NA	Solid	8015D	798691
500-261186-6	SB21c (12.5-15)	Total/NA	Solid	8015D	798691
500-261186-9	SB21d (10-12.5)	Total/NA	Solid	8015D	798691

Metals

Prep Batch: 799167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261186-1	SB24 (7.5-10)	Total/NA	Solid	7471B	
MB 500-799167/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-799167/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 799351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261186-1	SB24 (7.5-10)	Total/NA	Solid	7471B	799167
MB 500-799167/12-A	Method Blank	Total/NA	Solid	7471B	799167
LCS 500-799167/13-A	Lab Control Sample	Total/NA	Solid	7471B	799167

General Chemistry

Analysis Batch: 798783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261186-1	SB24 (7.5-10)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 798783 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261186-3	SB21b (10-12.5)	Total/NA	Solid	Moisture	
500-261186-6	SB21c (12.5-15)	Total/NA	Solid	Moisture	
500-261186-9	SB21d (10-12.5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261186-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-261186-3	SB21b (10-12.5)	91	100
500-261186-6	SB21c (12.5-15)	91	99
500-261186-9	SB21d (10-12.5)	92	101
LCS 500-798834/4	Lab Control Sample	100	104
MB 500-798834/3	Method Blank	93	104

Surrogate Legend

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-261186-3	SB21b (10-12.5)	0 S1-	0 S1-
500-261186-6	SB21c (12.5-15)	0 S1-	0 S1-
500-261186-9	SB21d (10-12.5)	0 S1-	0 S1-
LCS 500-798691/2-A	Lab Control Sample	89	85
MB 500-798691/1-A	Method Blank	86	85

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-798834/3
Matrix: Solid
Analysis Batch: 798834

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			12/10/24 20:57	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*70 - 130*		*12/10/24 20:57*	*50*
4-Bromofluorobenzene	*104*		*60 - 130*		*12/10/24 20:57*	*50*

Lab Sample ID: LCS 500-798834/4
Matrix: Solid
Analysis Batch: 798834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			19.9	18.6		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*100*		*70 - 130*
4-Bromofluorobenzene	*104*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-798691/1-A
Matrix: Solid
Analysis Batch: 798796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		12/10/24 07:38	12/10/24 18:08	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		12/10/24 07:38	12/10/24 18:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*86*		*50 - 126*	*12/10/24 07:38*	*12/10/24 18:08*	*1*
2-Fluorobiphenyl (Surr)	*85*		*40 - 133*	*12/10/24 07:38*	*12/10/24 18:08*	*1*

Lab Sample ID: LCS 500-798691/2-A
Matrix: Solid
Analysis Batch: 798796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798691

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	56.1		mg/Kg		84	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*89*		*50 - 126*
2-Fluorobiphenyl (Surr)	*85*		*40 - 133*

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-799167/12-A
Matrix: Solid
Analysis Batch: 799351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		12/12/24 16:20	12/13/24 07:37	1

Lab Sample ID: LCS 500-799167/13-A
Matrix: Solid
Analysis Batch: 799351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.171		mg/Kg		102	80 - 120

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261186-1

Client Sample ID: SB24 (7.5-10)
Date Collected: 12/06/24 09:12
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261186-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	798783	MF	EET CHI	12/10/24 12:48

Client Sample ID: SB24 (7.5-10)
Date Collected: 12/06/24 09:12
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261186-1
Matrix: Solid
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			799167	MJG	EET CHI	12/12/24 16:20
Total/NA	Analysis	7471B		1	799351	MJG	EET CHI	12/13/24 08:36

Client Sample ID: SB21b (10-12.5)
Date Collected: 12/06/24 10:49
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261186-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	798783	MF	EET CHI	12/10/24 12:48

Client Sample ID: SB21b (10-12.5)
Date Collected: 12/06/24 10:49
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261186-3
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			798470	WRE	EET CHI	12/06/24 10:49
Total/NA	Analysis	8015D		50	798834	WRE	EET CHI	12/11/24 05:56
Total/NA	Prep	3541			798691	FRG	EET CHI	12/10/24 07:38 - 12/10/24 13:15 [1]
Total/NA	Analysis	8015D		200	798883	H7CM	EET CHI	12/11/24 21:22

Client Sample ID: SB21c (12.5-15)
Date Collected: 12/06/24 12:13
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261186-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	798783	MF	EET CHI	12/10/24 12:48

Client Sample ID: SB21c (12.5-15)
Date Collected: 12/06/24 12:13
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261186-6
Matrix: Solid
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			798470	WRE	EET CHI	12/06/24 12:13
Total/NA	Analysis	8015D		50	798834	WRE	EET CHI	12/11/24 07:08
Total/NA	Prep	3541			798691	FRG	EET CHI	12/10/24 07:38 - 12/10/24 13:15 [1]
Total/NA	Analysis	8015D		20	798883	H7CM	EET CHI	12/11/24 14:14

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261186-1

Client Sample ID: SB21d (10-12.5)
Date Collected: 12/06/24 14:14
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261186-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	798783	MF	EET CHI	12/10/24 12:48

Client Sample ID: SB21d (10-12.5)
Date Collected: 12/06/24 14:14
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261186-9
Matrix: Solid
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			798470	WRE	EET CHI	12/06/24 14:14
Total/NA	Analysis	8015D		100	798834	WRE	EET CHI	12/11/24 08:20
Total/NA	Prep	3541			798691	FRG	EET CHI	12/10/24 07:38 - 12/10/24 13:15 [1]
Total/NA	Analysis	8015D		200	798883	H7CM	EET CHI	12/11/24 21:50

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261186-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone 708-534-5200 Fax 708-534-5211

MKE 232

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-131397-51411 2
Client Contact: Jake Hartsock	Phone:	E-Mail: Jim Knapp@et.eurofinsus com	State of Origin:	Page: Page 1 of 2
Company: Pioneer Engineering & Environmental Srvc	PWSID:			Job #: 500-261186
Address: 2753 W 31st Street	Due Date Requested: 10 DAY			Preservation Codes:
City: Chicago	TAT Requested (days):			
State, Zip: IL, 60608	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: jhartsock@pioneerees com	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

500-261186 COC

Analysis Requested

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TOTAL MERCURY	TPH	HOLD	Total Number of containers	Special Instructions/Note:
				Preservation Code:								
1	SB24 (7.5-10)	12/6/24	912	G	Solid			X				
2	SB21b (7.5-10)		1037		Solid					X		
3	SB21b (10-12.5)		1049		Solid				X			
4	SB21b (15-17.5)		1100		Solid					X		
5	SB21c (7.5-10)		1204		Solid					X		
6	SB21c (12.5-15)		1213		Solid				X			
7	SB21c (15-17.5)		1227		Solid					X		
8	SB21d (7.5-10)		201		Solid					X		
9	SB21d (10-12.5)		214		Solid				X			
10	SB21d (15-17.5)		230		Solid					X		
					Solid							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II, III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	12/9/24		[signature]	12-6-24 1631	EETA
[signature]	12-6-24 1752	EETA	[signature]	12/6/24 1752	EETA

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		0.9 → 0.3 48 qt

Ver: 10/10/2024

12/13/2024

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-261186-1

Login Number: 261186
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 12/31/2024 5:29:04 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-261388-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
12/31/2024 5:29:04 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-261388-1 — Eurofins Chicago

Job Narrative
500-261388-1

Receipt
The samples were received on 12/11/24 12:55. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following samples required a dilution due to the nature of the sample matrix: SB21e(12.5-15) (500-261388-2), SB70b(12.5-15) (500-261388-8), SB70d(10-12.5) (500-261388-14) and SB70e(10-12.5) (500-261388-19). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21e(7.5-10) — Lab Sample ID: 500-261388-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	54		8.9		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	53		18		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB21e(12.5-15) — Lab Sample ID: 500-261388-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	16		3.3		mg/Kg	100	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	11000		1000		mg/Kg	100	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	8700		2000		mg/Kg	100	☼	8015D	Total/NA

Client Sample ID: SB21e(15-17.5) — Lab Sample ID: 500-261388-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	17		9.6		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB21a(7.5-10) — Lab Sample ID: 500-261388-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	42		9.1		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	100		18		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB21a(15-17.5) — Lab Sample ID: 500-261388-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	21		9.5		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	26		19		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB70b(7.5-10) — Lab Sample ID: 500-261388-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	7.4		1.4		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	580		92		mg/Kg	10	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	670		180		mg/Kg	10	☼	8015D	Total/NA

Client Sample ID: SB70b(12.5-15) — Lab Sample ID: 500-261388-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	250		25		mg/Kg	1000	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	8900		880		mg/Kg	100	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	5300		1800		mg/Kg	100	☼	8015D	Total/NA

Client Sample ID: SB70b(17.5-20) — Lab Sample ID: 500-261388-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	71		9.4		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	65		19		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB70c(7.5-10) — Lab Sample ID: 500-261388-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oil Range Organics (C28-C36)	23		18		mg/Kg	1	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB70c(12.5-15) — Lab Sample ID: 500-261388-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	110		13		mg/Kg	500	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	1000		94		mg/Kg	10	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	540		190		mg/Kg	10	☼	8015D	Total/NA

Client Sample ID: SB70c(17.5-20) — Lab Sample ID: 500-261388-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	21		9.5		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB70d(7.5-10) — Lab Sample ID: 500-261388-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	1.5		1.0		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	450		91		mg/Kg	10	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	630		180		mg/Kg	10	☼	8015D	Total/NA

Client Sample ID: SB70d(10-12.5) — Lab Sample ID: 500-261388-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	400		28		mg/Kg	1000	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	17000		1900		mg/Kg	200	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	7700		3900		mg/Kg	200	☼	8015D	Total/NA

Client Sample ID: SB70d(17.5-20) — Lab Sample ID: 500-261388-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	20		9.3		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB70a(7.5-10) — Lab Sample ID: 500-261388-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	45		9.2		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	75		19		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB70a(17.5-20) — Lab Sample ID: 500-261388-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	24		9.4		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	30		19		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB70e(7.5-10) — Lab Sample ID: 500-261388-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	18		8.8		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	30		18		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB70e(10-12.5) — Lab Sample ID: 500-261388-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	190		10		mg/Kg	500	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	10000		860		mg/Kg	100	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	5600		1700		mg/Kg	100	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70e(15-17.5) — Lab Sample ID: 500-261388-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	1.2		1.2		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	26		9.3		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	22		19		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB80(12.5-15) — Lab Sample ID: 500-261388-21

No Detections.

Client Sample ID: SB118(10-12.5) — Lab Sample ID: 500-261388-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	31		11		mg/Kg	500	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	4200		450		mg/Kg	50	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	3200		910		mg/Kg	50	☼	8015D	Total/NA

Client Sample ID: SB118(12.5-15) — Lab Sample ID: 500-261388-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	82		9.3		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	57		19		mg/Kg	1	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
9034	Sulfide, Reactive	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7.3.4	Sulfide, Reactive	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261388-1	SB21e(7.5-10)	Solid	12/09/24 10:36	12/11/24 12:55
500-261388-2	SB21e(12.5-15)	Solid	12/09/24 10:45	12/11/24 12:55
500-261388-3	SB21e(15-17.5)	Solid	12/09/24 10:52	12/11/24 12:55
500-261388-4	SB21a(7.5-10)	Solid	12/09/24 11:36	12/11/24 12:55
500-261388-5	SB21a(15-17.5)	Solid	12/09/24 11:45	12/11/24 12:55
500-261388-7	SB70b(7.5-10)	Solid	12/09/24 12:11	12/11/24 12:55
500-261388-8	SB70b(12.5-15)	Solid	12/09/24 12:16	12/11/24 12:55
500-261388-9	SB70b(17.5-20)	Solid	12/09/24 12:37	12/11/24 12:55
500-261388-10	SB70c(7.5-10)	Solid	12/09/24 13:17	12/11/24 12:55
500-261388-11	SB70c(12.5-15)	Solid	12/09/24 13:36	12/11/24 12:55
500-261388-12	SB70c(17.5-20)	Solid	12/09/24 13:47	12/11/24 12:55
500-261388-13	SB70d(7.5-10)	Solid	12/09/24 14:12	12/11/24 12:55
500-261388-14	SB70d(10-12.5)	Solid	12/09/24 14:36	12/11/24 12:55
500-261388-15	SB70d(17.5-20)	Solid	12/09/24 14:47	12/11/24 12:55
500-261388-16	SB70a(7.5-10)	Solid	12/10/24 10:01	12/11/24 12:55
500-261388-17	SB70a(17.5-20)	Solid	12/10/24 10:22	12/11/24 12:55
500-261388-18	SB70e(7.5-10)	Solid	12/10/24 11:33	12/11/24 12:55
500-261388-19	SB70e(10-12.5)	Solid	12/10/24 11:41	12/11/24 12:55
500-261388-20	SB70e(15-17.5)	Solid	12/10/24 11:54	12/11/24 12:55
500-261388-21	SB80(12.5-15)	Solid	12/10/24 12:57	12/11/24 12:55
500-261388-22	SB118(10-12.5)	Solid	12/10/24 14:02	12/11/24 12:55
500-261388-23	SB118(12.5-15)	Solid	12/10/24 14:09	12/11/24 12:55

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB21e(7.5-10)

Date Collected: 12/09/24 10:36
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-1

Matrix: Solid
Percent Solids: 89.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.7		1.7		mg/Kg	☼	12/09/24 10:36	12/18/24 11:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*12/09/24 10:36*	*12/18/24 11:11*	*50*
4-Bromofluorobenzene	*102*		*60 - 130*	*12/09/24 10:36*	*12/18/24 11:11*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**54**		8.9		mg/Kg	☼	12/18/24 07:40	12/19/24 06:08	1
Oil Range Organics (C28-C36)	**53**		18		mg/Kg	☼	12/18/24 07:40	12/19/24 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*87*		*50 - 126*	*12/18/24 07:40*	*12/19/24 06:08*	*1*
2-Fluorobiphenyl (Surr)	*78*		*40 - 133*	*12/18/24 07:40*	*12/19/24 06:08*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21e(12.5-15)
Lab Sample ID: 500-261388-2
Date Collected: 12/09/24 10:45
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 81.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	16		3.3		mg/Kg	☼	12/09/24 10:45	12/16/24 04:33	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*12/09/24 10:45*	*12/16/24 04:33*	*100*
4-Bromofluorobenzene	*104*		*60 - 130*	*12/09/24 10:45*	*12/16/24 04:33*	*100*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11000		1000		mg/Kg	☼	12/13/24 08:51	12/18/24 13:30	100
Oil Range Organics (C28-C36)	8700		2000		mg/Kg	☼	12/13/24 08:51	12/18/24 13:30	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/13/24 08:51*	*12/18/24 13:30*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/13/24 08:51*	*12/18/24 13:30*	*100*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB21e(15-17.5)

Date Collected: 12/09/24 10:52
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-3

Matrix: Solid
Percent Solids: 84.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.1		1.1		mg/Kg	☼	12/09/24 10:52	12/18/24 12:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*70 - 130*	*12/09/24 10:52*	*12/18/24 12:58*	*50*
4-Bromofluorobenzene	*99*		*60 - 130*	*12/09/24 10:52*	*12/18/24 12:58*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**17**		9.6		mg/Kg	☼	12/18/24 07:40	12/19/24 06:36	1
Oil Range Organics (C28-C36)	<19		19		mg/Kg	☼	12/18/24 07:40	12/19/24 06:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*84*		*50 - 126*	*12/18/24 07:40*	*12/19/24 06:36*	*1*
2-Fluorobiphenyl (Surr)	*63*		*40 - 133*	*12/18/24 07:40*	*12/19/24 06:36*	*1*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB21a(7.5-10)

Date Collected: 12/09/24 11:36
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-4

Matrix: Solid
Percent Solids: 86.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.80		0.80		mg/Kg	☼	12/09/24 11:36	12/12/24 22:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*70 - 130*	*12/09/24 11:36*	*12/12/24 22:07*	*50*
4-Bromofluorobenzene	*104*		*60 - 130*	*12/09/24 11:36*	*12/12/24 22:07*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**42**		9.1		mg/Kg	☼	12/13/24 08:51	12/17/24 18:41	1
Oil Range Organics (C28-C36)	**100**		18		mg/Kg	☼	12/13/24 08:51	12/17/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*86*		*50 - 126*	*12/13/24 08:51*	*12/17/24 18:41*	*1*
2-Fluorobiphenyl (Surr)	*64*		*40 - 133*	*12/13/24 08:51*	*12/17/24 18:41*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21a(15-17.5)
Lab Sample ID: 500-261388-5
Date Collected: 12/09/24 11:45
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 84.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.5		1.5		mg/Kg	☼	12/09/24 11:45	12/16/24 02:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*70 - 130*	*12/09/24 11:45*	*12/16/24 02:45*	*50*
4-Bromofluorobenzene	*100*		*60 - 130*	*12/09/24 11:45*	*12/16/24 02:45*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**21**		9.5		mg/Kg	☼	12/13/24 08:51	12/17/24 19:09	1
Oil Range Organics (C28-C36)	**26**		19		mg/Kg	☼	12/13/24 08:51	12/17/24 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*90*		*50 - 126*	*12/13/24 08:51*	*12/17/24 19:09*	*1*
2-Fluorobiphenyl (Surr)	*55*		*40 - 133*	*12/13/24 08:51*	*12/17/24 19:09*	*1*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB70b(7.5-10)

Date Collected: 12/09/24 12:11
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-7

Matrix: Solid
Percent Solids: 86.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	7.4		1.4		mg/Kg	☼	12/09/24 12:11	12/18/24 13:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*12/09/24 12:11*	*12/18/24 13:34*	*50*
4-Bromofluorobenzene	*103*		*60 - 130*	*12/09/24 12:11*	*12/18/24 13:34*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	580		92		mg/Kg	☼	12/18/24 07:40	12/19/24 12:22	10
Oil Range Organics (C28-C36)	670		180		mg/Kg	☼	12/18/24 07:40	12/19/24 12:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*88*		*50 - 126*	*12/18/24 07:40*	*12/19/24 12:22*	*10*
2-Fluorobiphenyl (Surr)	*75*		*40 - 133*	*12/18/24 07:40*	*12/19/24 12:22*	*10*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB70b(12.5-15)

Date Collected: 12/09/24 12:16
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-8

Matrix: Solid
Percent Solids: 89.7

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	250		25		mg/Kg	☼	12/09/24 12:16	12/13/24 01:05	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*70 - 130*	*12/09/24 12:16*	*12/13/24 01:05*	*1000*
4-Bromofluorobenzene	*105*		*60 - 130*	*12/09/24 12:16*	*12/13/24 01:05*	*1000*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	8900		880		mg/Kg	☼	12/13/24 08:51	12/18/24 13:59	100
Oil Range Organics (C28-C36)	5300		1800		mg/Kg	☼	12/13/24 08:51	12/18/24 13:59	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/13/24 08:51*	*12/18/24 13:59*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/13/24 08:51*	*12/18/24 13:59*	*100*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB70b(17.5-20)

Date Collected: 12/09/24 12:37
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-9

Matrix: Solid
Percent Solids: 86.1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.3		1.3		mg/Kg	☼	12/19/24 01:51	12/19/24 07:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*70 - 130*	*12/19/24 01:51*	*12/19/24 07:42*	*50*
4-Bromofluorobenzene	*106*		*60 - 130*	*12/19/24 01:51*	*12/19/24 07:42*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**71**		9.4		mg/Kg	☼	12/18/24 07:40	12/19/24 12:50	1
Oil Range Organics (C28-C36)	**65**		19		mg/Kg	☼	12/18/24 07:40	12/19/24 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*83*		*50 - 126*	*12/18/24 07:40*	*12/19/24 12:50*	*1*
2-Fluorobiphenyl (Surr)	*70*		*40 - 133*	*12/18/24 07:40*	*12/19/24 12:50*	*1*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB70c(7.5-10)

Date Collected: 12/09/24 13:17
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-10

Matrix: Solid
Percent Solids: 88.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.97		0.97		mg/Kg	☼	12/09/24 13:17	12/22/24 05:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*12/09/24 13:17*	*12/22/24 05:48*	*50*
4-Bromofluorobenzene	*103*		*60 - 130*	*12/09/24 13:17*	*12/22/24 05:48*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<9.1		9.1		mg/Kg	☼	12/18/24 07:40	12/19/24 13:19	1
Oil Range Organics (C28-C36)	**23**		18		mg/Kg	☼	12/18/24 07:40	12/19/24 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*83*		*50 - 126*	*12/18/24 07:40*	*12/19/24 13:19*	*1*
2-Fluorobiphenyl (Surr)	*70*		*40 - 133*	*12/18/24 07:40*	*12/19/24 13:19*	*1*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB70c(12.5-15)

Date Collected: 12/09/24 13:36
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-11

Matrix: Solid
Percent Solids: 86.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	110		13		mg/Kg	☼	12/09/24 13:36	12/13/24 02:16	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*12/09/24 13:36*	*12/13/24 02:16*	*500*
4-Bromofluorobenzene	*105*		*60 - 130*	*12/09/24 13:36*	*12/13/24 02:16*	*500*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1000		94		mg/Kg	☼	12/13/24 08:51	12/18/24 14:27	10
Oil Range Organics (C28-C36)	540		190		mg/Kg	☼	12/13/24 08:51	12/18/24 14:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*78*		*50 - 126*	*12/13/24 08:51*	*12/18/24 14:27*	*10*
2-Fluorobiphenyl (Surr)	*122*		*40 - 133*	*12/13/24 08:51*	*12/18/24 14:27*	*10*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70c(17.5-20)
Lab Sample ID: 500-261388-12
Date Collected: 12/09/24 13:47
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 86.9

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.2		1.2		mg/Kg	☼	12/09/24 13:47	12/18/24 14:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*12/09/24 13:47*	*12/18/24 14:45*	*50*
4-Bromofluorobenzene	*102*		*60 - 130*	*12/09/24 13:47*	*12/18/24 14:45*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**21**		9.5		mg/Kg	☼	12/18/24 07:40	12/19/24 13:48	1
Oil Range Organics (C28-C36)	<19		19		mg/Kg	☼	12/18/24 07:40	12/19/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*50 - 126*	*12/18/24 07:40*	*12/19/24 13:48*	*1*
2-Fluorobiphenyl (Surr)	*62*		*40 - 133*	*12/18/24 07:40*	*12/19/24 13:48*	*1*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB70d(7.5-10)

Date Collected: 12/09/24 14:12
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-13

Matrix: Solid
Percent Solids: 88.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	1.5		1.0		mg/Kg	☼	12/09/24 14:12	12/18/24 15:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*12/09/24 14:12*	*12/18/24 15:21*	*50*
4-Bromofluorobenzene	*102*		*60 - 130*	*12/09/24 14:12*	*12/18/24 15:21*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	450		91		mg/Kg	☼	12/18/24 07:40	12/19/24 14:16	10
Oil Range Organics (C28-C36)	630		180		mg/Kg	☼	12/18/24 07:40	12/19/24 14:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*50 - 126*	*12/18/24 07:40*	*12/19/24 14:16*	*10*
2-Fluorobiphenyl (Surr)	*59*		*40 - 133*	*12/18/24 07:40*	*12/19/24 14:16*	*10*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70d(10-12.5)
Lab Sample ID: 500-261388-14
Date Collected: 12/09/24 14:36
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 81.8

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	400		28		mg/Kg	☼	12/09/24 14:36	12/13/24 03:27	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*70 - 130*	*12/09/24 14:36*	*12/13/24 03:27*	*1000*
4-Bromofluorobenzene	*110*		*60 - 130*	*12/09/24 14:36*	*12/13/24 03:27*	*1000*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	17000		1900		mg/Kg	☼	12/13/24 08:51	12/18/24 14:56	200
Oil Range Organics (C28-C36)	7700		3900		mg/Kg	☼	12/13/24 08:51	12/18/24 14:56	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/13/24 08:51*	*12/18/24 14:56*	*200*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/13/24 08:51*	*12/18/24 14:56*	*200*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB70d(17.5-20)

Date Collected: 12/09/24 14:47
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-15

Matrix: Solid
Percent Solids: 84.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.4		1.4		mg/Kg	☼	12/19/24 01:53	12/19/24 09:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*70 - 130*	*12/19/24 01:53*	*12/19/24 09:29*	*50*
4-Bromofluorobenzene	*106*		*60 - 130*	*12/19/24 01:53*	*12/19/24 09:29*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**20**		9.3		mg/Kg	☼	12/18/24 07:40	12/19/24 14:45	1
Oil Range Organics (C28-C36)	<19		19		mg/Kg	☼	12/18/24 07:40	12/19/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*78*		*50 - 126*	*12/18/24 07:40*	*12/19/24 14:45*	*1*
2-Fluorobiphenyl (Surr)	*60*		*40 - 133*	*12/18/24 07:40*	*12/19/24 14:45*	*1*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB70a(7.5-10)

Lab Sample ID: 500-261388-16

Date Collected: 12/10/24 10:01
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 88.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.1		1.1		mg/Kg	☼	12/10/24 10:01	12/13/24 04:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*70 - 130*	*12/10/24 10:01*	*12/13/24 04:38*	*50*
4-Bromofluorobenzene	*101*		*60 - 130*	*12/10/24 10:01*	*12/13/24 04:38*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**45**		9.2		mg/Kg	☼	12/13/24 08:51	12/17/24 22:00	1
Oil Range Organics (C28-C36)	**75**		19		mg/Kg	☼	12/13/24 08:51	12/17/24 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*88*		*50 - 126*	*12/13/24 08:51*	*12/17/24 22:00*	*1*
2-Fluorobiphenyl (Surr)	*79*		*40 - 133*	*12/13/24 08:51*	*12/17/24 22:00*	*1*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB70a(17.5-20)

Lab Sample ID: 500-261388-17

Date Collected: 12/10/24 10:22
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 83.1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.3		1.3		mg/Kg	☼	12/10/24 10:22	12/13/24 05:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*70 - 130*	*12/10/24 10:22*	*12/13/24 05:14*	*50*
4-Bromofluorobenzene	*100*		*60 - 130*	*12/10/24 10:22*	*12/13/24 05:14*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**24**		9.4		mg/Kg	☼	12/13/24 08:51	12/17/24 22:29	1
Oil Range Organics (C28-C36)	**30**		19		mg/Kg	☼	12/13/24 08:51	12/17/24 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*79*		*50 - 126*	*12/13/24 08:51*	*12/17/24 22:29*	*1*
2-Fluorobiphenyl (Surr)	*62*		*40 - 133*	*12/13/24 08:51*	*12/17/24 22:29*	*1*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB70e(7.5-10)

Lab Sample ID: 500-261388-18

Date Collected: 12/10/24 11:33
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 93.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg	☼	12/10/24 11:33	12/18/24 17:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*70 - 130*	*12/10/24 11:33*	*12/18/24 17:08*	*50*
4-Bromofluorobenzene	*101*		*60 - 130*	*12/10/24 11:33*	*12/18/24 17:08*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**18**		8.8		mg/Kg	☼	12/18/24 07:40	12/19/24 15:13	1
Oil Range Organics (C28-C36)	**30**		18		mg/Kg	☼	12/18/24 07:40	12/19/24 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*69*		*50 - 126*	*12/18/24 07:40*	*12/19/24 15:13*	*1*
2-Fluorobiphenyl (Surr)	*56*		*40 - 133*	*12/18/24 07:40*	*12/19/24 15:13*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70e(10-12.5)
Lab Sample ID: 500-261388-19
Date Collected: 12/10/24 11:41
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 91.8

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	190		10		mg/Kg	☼	12/10/24 11:41	12/13/24 05:49	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*12/10/24 11:41*	*12/13/24 05:49*	*500*
4-Bromofluorobenzene	*86*		*60 - 130*	*12/10/24 11:41*	*12/13/24 05:49*	*500*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	10000		860		mg/Kg	☼	12/13/24 08:51	12/18/24 15:24	100
Oil Range Organics (C28-C36)	5600		1700		mg/Kg	☼	12/13/24 08:51	12/18/24 15:24	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/13/24 08:51*	*12/18/24 15:24*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/13/24 08:51*	*12/18/24 15:24*	*100*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB70e(15-17.5)

Date Collected: 12/10/24 11:54
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-20

Matrix: Solid
Percent Solids: 84.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	1.2		1.2		mg/Kg	☼	12/10/24 11:54	12/18/24 17:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*12/10/24 11:54*	*12/18/24 17:44*	*50*
4-Bromofluorobenzene	*100*		*60 - 130*	*12/10/24 11:54*	*12/18/24 17:44*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	26		9.3		mg/Kg	☼	12/18/24 07:40	12/19/24 15:42	1
Oil Range Organics (C28-C36)	22		19		mg/Kg	☼	12/18/24 07:40	12/19/24 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*50 - 126*	*12/18/24 07:40*	*12/19/24 15:42*	*1*
2-Fluorobiphenyl (Surr)	*51*		*40 - 133*	*12/18/24 07:40*	*12/19/24 15:42*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB80(12.5-15)
Lab Sample ID: 500-261388-21
Date Collected: 12/10/24 12:57
Matrix: Solid
Date Received: 12/11/24 12:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive (SW846 9034)	<470		470		mg/Kg		12/31/24 09:50	12/31/24 15:47	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB118(10-12.5)

Date Collected: 12/10/24 14:02
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-22

Matrix: Solid
Percent Solids: 86.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	31		11		mg/Kg	☼	12/10/24 12:57	12/13/24 07:00	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*12/10/24 12:57*	*12/13/24 07:00*	*500*
4-Bromofluorobenzene	*100*		*60 - 130*	*12/10/24 12:57*	*12/13/24 07:00*	*500*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4200		450		mg/Kg	☼	12/13/24 08:51	12/18/24 15:53	50
Oil Range Organics (C28-C36)	3200		910		mg/Kg	☼	12/13/24 08:51	12/18/24 15:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/13/24 08:51*	*12/18/24 15:53*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/13/24 08:51*	*12/18/24 15:53*	*50*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB118(12.5-15)

Date Collected: 12/10/24 14:09
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-23

Matrix: Solid
Percent Solids: 85.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.2		1.2		mg/Kg	☼	12/10/24 14:02	12/18/24 18:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*12/10/24 14:02*	*12/18/24 18:19*	*50*
4-Bromofluorobenzene	*99*		*60 - 130*	*12/10/24 14:02*	*12/18/24 18:19*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**82**		9.3		mg/Kg	☼	12/18/24 07:40	12/19/24 17:08	1
Oil Range Organics (C28-C36)	**57**		19		mg/Kg	☼	12/18/24 07:40	12/19/24 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*50 - 126*	*12/18/24 07:40*	*12/19/24 17:08*	*1*
2-Fluorobiphenyl (Surr)	*57*		*40 - 133*	*12/18/24 07:40*	*12/19/24 17:08*	*1*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC VOA

Prep Batch: 799041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-1	SB21e(7.5-10)	Total/NA	Solid	5035	
500-261388-2	SB21e(12.5-15)	Total/NA	Solid	5035	
500-261388-3	SB21e(15-17.5)	Total/NA	Solid	5035	
500-261388-4	SB21a(7.5-10)	Total/NA	Solid	5035	
500-261388-5	SB21a(15-17.5)	Total/NA	Solid	5035	
500-261388-7	SB70b(7.5-10)	Total/NA	Solid	5035	
500-261388-8	SB70b(12.5-15)	Total/NA	Solid	5035	
500-261388-10	SB70c(7.5-10)	Total/NA	Solid	5035	
500-261388-11	SB70c(12.5-15)	Total/NA	Solid	5035	
500-261388-12	SB70c(17.5-20)	Total/NA	Solid	5035	
500-261388-13	SB70d(7.5-10)	Total/NA	Solid	5035	
500-261388-14	SB70d(10-12.5)	Total/NA	Solid	5035	
500-261388-16	SB70a(7.5-10)	Total/NA	Solid	5035	
500-261388-17	SB70a(17.5-20)	Total/NA	Solid	5035	
500-261388-18	SB70e(7.5-10)	Total/NA	Solid	5035	
500-261388-19	SB70e(10-12.5)	Total/NA	Solid	5035	
500-261388-20	SB70e(15-17.5)	Total/NA	Solid	5035	
500-261388-22	SB118(10-12.5)	Total/NA	Solid	5035	
500-261388-23	SB118(12.5-15)	Total/NA	Solid	5035	
500-261388-1 MS	SB21e(7.5-10)	Total/NA	Solid	5035	
500-261388-1 MSD	SB21e(7.5-10)	Total/NA	Solid	5035	
500-261388-4 MS	SB21a(7.5-10)	Total/NA	Solid	5035	
500-261388-4 MSD	SB21a(7.5-10)	Total/NA	Solid	5035	
500-261388-5 MS	SB21a(15-17.5)	Total/NA	Solid	5035	
500-261388-5 MSD	SB21a(15-17.5)	Total/NA	Solid	5035	

Analysis Batch: 799213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-4	SB21a(7.5-10)	Total/NA	Solid	8015D	799041
500-261388-8	SB70b(12.5-15)	Total/NA	Solid	8015D	799041
500-261388-11	SB70c(12.5-15)	Total/NA	Solid	8015D	799041
500-261388-14	SB70d(10-12.5)	Total/NA	Solid	8015D	799041
500-261388-16	SB70a(7.5-10)	Total/NA	Solid	8015D	799041
500-261388-17	SB70a(17.5-20)	Total/NA	Solid	8015D	799041
500-261388-19	SB70e(10-12.5)	Total/NA	Solid	8015D	799041
500-261388-22	SB118(10-12.5)	Total/NA	Solid	8015D	799041
MB 500-799213/5	Method Blank	Total/NA	Solid	8015D	
LCS 500-799213/6	Lab Control Sample	Total/NA	Solid	8015D	
500-261388-4 MS	SB21a(7.5-10)	Total/NA	Solid	8015D	799041
500-261388-4 MSD	SB21a(7.5-10)	Total/NA	Solid	8015D	799041

Analysis Batch: 799450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-2	SB21e(12.5-15)	Total/NA	Solid	8015D	799041
500-261388-5	SB21a(15-17.5)	Total/NA	Solid	8015D	799041
MB 500-799450/5	Method Blank	Total/NA	Solid	8015D	
LCS 500-799450/6	Lab Control Sample	Total/NA	Solid	8015D	
500-261388-5 MS	SB21a(15-17.5)	Total/NA	Solid	8015D	799041
500-261388-5 MSD	SB21a(15-17.5)	Total/NA	Solid	8015D	799041

GC VOA

Analysis Batch: 799820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-1	SB21e(7.5-10)	Total/NA	Solid	8015D	799041
500-261388-3	SB21e(15-17.5)	Total/NA	Solid	8015D	799041
500-261388-7	SB70b(7.5-10)	Total/NA	Solid	8015D	799041
500-261388-12	SB70c(17.5-20)	Total/NA	Solid	8015D	799041
500-261388-13	SB70d(7.5-10)	Total/NA	Solid	8015D	799041
500-261388-18	SB70e(7.5-10)	Total/NA	Solid	8015D	799041
500-261388-20	SB70e(15-17.5)	Total/NA	Solid	8015D	799041
500-261388-23	SB118(12.5-15)	Total/NA	Solid	8015D	799041
MB 500-799820/3	Method Blank	Total/NA	Solid	8015D	
LCS 500-799820/4	Lab Control Sample	Total/NA	Solid	8015D	
500-261388-1 MS	SB21e(7.5-10)	Total/NA	Solid	8015D	799041
500-261388-1 MSD	SB21e(7.5-10)	Total/NA	Solid	8015D	799041

Analysis Batch: 800032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-9	SB70b(17.5-20)	Total/NA	Solid	8015D	800033
500-261388-15	SB70d(17.5-20)	Total/NA	Solid	8015D	800033
MB 500-800032/5	Method Blank	Total/NA	Solid	8015D	
LCS 500-800032/6	Lab Control Sample	Total/NA	Solid	8015D	
500-261388-9 MS	SB70b(17.5-20)	Total/NA	Solid	8015D	800033
500-261388-9 MSD	SB70b(17.5-20)	Total/NA	Solid	8015D	800033

Prep Batch: 800033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-9	SB70b(17.5-20)	Total/NA	Solid	5030B	
500-261388-15	SB70d(17.5-20)	Total/NA	Solid	5030B	
500-261388-9 MS	SB70b(17.5-20)	Total/NA	Solid	5030B	
500-261388-9 MSD	SB70b(17.5-20)	Total/NA	Solid	5030B	

Analysis Batch: 800426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-10	SB70c(7.5-10)	Total/NA	Solid	8015D	799041
MB 500-800426/5	Method Blank	Total/NA	Solid	8015D	
LCS 500-800426/6	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 799282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-2	SB21e(12.5-15)	Total/NA	Solid	3541	
500-261388-4	SB21a(7.5-10)	Total/NA	Solid	3541	
500-261388-5	SB21a(15-17.5)	Total/NA	Solid	3541	
500-261388-8	SB70b(12.5-15)	Total/NA	Solid	3541	
500-261388-11	SB70c(12.5-15)	Total/NA	Solid	3541	
500-261388-14	SB70d(10-12.5)	Total/NA	Solid	3541	
500-261388-16	SB70a(7.5-10)	Total/NA	Solid	3541	
500-261388-17	SB70a(17.5-20)	Total/NA	Solid	3541	
500-261388-19	SB70e(10-12.5)	Total/NA	Solid	3541	
500-261388-22	SB118(10-12.5)	Total/NA	Solid	3541	
MB 500-799282/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-799282/2-A	Lab Control Sample	Total/NA	Solid	3541	

GC Semi VOA

Analysis Batch: 799521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-799282/1-A	Method Blank	Total/NA	Solid	8015D	799282
LCS 500-799282/2-A	Lab Control Sample	Total/NA	Solid	8015D	799282

Analysis Batch: 799686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-4	SB21a(7.5-10)	Total/NA	Solid	8015D	799282
500-261388-5	SB21a(15-17.5)	Total/NA	Solid	8015D	799282
500-261388-16	SB70a(7.5-10)	Total/NA	Solid	8015D	799282
500-261388-17	SB70a(17.5-20)	Total/NA	Solid	8015D	799282

Prep Batch: 799864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-1	SB21e(7.5-10)	Total/NA	Solid	3541	
500-261388-3	SB21e(15-17.5)	Total/NA	Solid	3541	
500-261388-7	SB70b(7.5-10)	Total/NA	Solid	3541	
500-261388-9	SB70b(17.5-20)	Total/NA	Solid	3541	
500-261388-10	SB70c(7.5-10)	Total/NA	Solid	3541	
500-261388-12	SB70c(17.5-20)	Total/NA	Solid	3541	
500-261388-13	SB70d(7.5-10)	Total/NA	Solid	3541	
500-261388-15	SB70d(17.5-20)	Total/NA	Solid	3541	
500-261388-18	SB70e(7.5-10)	Total/NA	Solid	3541	
500-261388-20	SB70e(15-17.5)	Total/NA	Solid	3541	
500-261388-23	SB118(12.5-15)	Total/NA	Solid	3541	
MB 500-799864/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-799864/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 799878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-1	SB21e(7.5-10)	Total/NA	Solid	8015D	799864
500-261388-2	SB21e(12.5-15)	Total/NA	Solid	8015D	799282
500-261388-3	SB21e(15-17.5)	Total/NA	Solid	8015D	799864
500-261388-8	SB70b(12.5-15)	Total/NA	Solid	8015D	799282
500-261388-11	SB70c(12.5-15)	Total/NA	Solid	8015D	799282
500-261388-14	SB70d(10-12.5)	Total/NA	Solid	8015D	799282
500-261388-19	SB70e(10-12.5)	Total/NA	Solid	8015D	799282
500-261388-22	SB118(10-12.5)	Total/NA	Solid	8015D	799282
MB 500-799864/1-A	Method Blank	Total/NA	Solid	8015D	799864
LCS 500-799864/2-A	Lab Control Sample	Total/NA	Solid	8015D	799864

Analysis Batch: 800074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-7	SB70b(7.5-10)	Total/NA	Solid	8015D	799864
500-261388-9	SB70b(17.5-20)	Total/NA	Solid	8015D	799864
500-261388-10	SB70c(7.5-10)	Total/NA	Solid	8015D	799864
500-261388-12	SB70c(17.5-20)	Total/NA	Solid	8015D	799864
500-261388-13	SB70d(7.5-10)	Total/NA	Solid	8015D	799864
500-261388-15	SB70d(17.5-20)	Total/NA	Solid	8015D	799864
500-261388-18	SB70e(7.5-10)	Total/NA	Solid	8015D	799864
500-261388-20	SB70e(15-17.5)	Total/NA	Solid	8015D	799864
500-261388-23	SB118(12.5-15)	Total/NA	Solid	8015D	799864

General Chemistry

Analysis Batch: 799409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-21	SB80(12.5-15)	Total/NA	Solid	Moisture	

Analysis Batch: 800725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-1	SB21e(7.5-10)	Total/NA	Solid	Moisture	
500-261388-2	SB21e(12.5-15)	Total/NA	Solid	Moisture	
500-261388-3	SB21e(15-17.5)	Total/NA	Solid	Moisture	

Analysis Batch: 800729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-4	SB21a(7.5-10)	Total/NA	Solid	Moisture	
500-261388-5	SB21a(15-17.5)	Total/NA	Solid	Moisture	
500-261388-7	SB70b(7.5-10)	Total/NA	Solid	Moisture	
500-261388-8	SB70b(12.5-15)	Total/NA	Solid	Moisture	
500-261388-9	SB70b(17.5-20)	Total/NA	Solid	Moisture	
500-261388-10	SB70c(7.5-10)	Total/NA	Solid	Moisture	
500-261388-11	SB70c(12.5-15)	Total/NA	Solid	Moisture	
500-261388-12	SB70c(17.5-20)	Total/NA	Solid	Moisture	
500-261388-13	SB70d(7.5-10)	Total/NA	Solid	Moisture	
500-261388-14	SB70d(10-12.5)	Total/NA	Solid	Moisture	
500-261388-15	SB70d(17.5-20)	Total/NA	Solid	Moisture	
500-261388-16	SB70a(7.5-10)	Total/NA	Solid	Moisture	
500-261388-17	SB70a(17.5-20)	Total/NA	Solid	Moisture	
500-261388-18	SB70e(7.5-10)	Total/NA	Solid	Moisture	
500-261388-19	SB70e(10-12.5)	Total/NA	Solid	Moisture	
500-261388-20	SB70e(15-17.5)	Total/NA	Solid	Moisture	
500-261388-22	SB118(10-12.5)	Total/NA	Solid	Moisture	
500-261388-23	SB118(12.5-15)	Total/NA	Solid	Moisture	

Prep Batch: 801242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-21	SB80(12.5-15)	Total/NA	Solid	7.3.4	
MB 500-801242/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 500-801242/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
500-261388-21 MS	SB80(12.5-15)	Total/NA	Solid	7.3.4	
500-261388-21 MSD	SB80(12.5-15)	Total/NA	Solid	7.3.4	

Analysis Batch: 801325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261388-21	SB80(12.5-15)	Total/NA	Solid	9034	801242
MB 500-801242/1-A	Method Blank	Total/NA	Solid	9034	801242
LCS 500-801242/2-A	Lab Control Sample	Total/NA	Solid	9034	801242
500-261388-21 MS	SB80(12.5-15)	Total/NA	Solid	9034	801242
500-261388-21 MSD	SB80(12.5-15)	Total/NA	Solid	9034	801242

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	TFT1 (70-130)	BFB1 (60-130)										
500-261388-1	SB21e(7.5-10)	96	102										
500-261388-1 MS	SB21e(7.5-10)	101	102										
500-261388-1 MSD	SB21e(7.5-10)	100	102										
500-261388-2	SB21e(12.5-15)	96	104										
500-261388-3	SB21e(15-17.5)	93	99										
500-261388-4	SB21a(7.5-10)	97	104										
500-261388-4 MS	SB21a(7.5-10)	101	104										
500-261388-4 MSD	SB21a(7.5-10)	101	104										
500-261388-5	SB21a(15-17.5)	92	100										
500-261388-5 MS	SB21a(15-17.5)	99	103										
500-261388-5 MSD	SB21a(15-17.5)	99	101										
500-261388-7	SB70b(7.5-10)	98	103										
500-261388-8	SB70b(12.5-15)	97	105										
500-261388-9	SB70b(17.5-20)	100	106										
500-261388-9 MS	SB70b(17.5-20)	103	104										
500-261388-9 MSD	SB70b(17.5-20)	101	103										
500-261388-10	SB70c(7.5-10)	98	103										
500-261388-11	SB70c(12.5-15)	96	105										
500-261388-12	SB70c(17.5-20)	95	102										
500-261388-13	SB70d(7.5-10)	96	102										
500-261388-14	SB70d(10-12.5)	97	110										
500-261388-15	SB70d(17.5-20)	99	106										
500-261388-16	SB70a(7.5-10)	93	101										
500-261388-17	SB70a(17.5-20)	92	100										
500-261388-18	SB70e(7.5-10)	91	101										
500-261388-19	SB70e(10-12.5)	98	86										
500-261388-20	SB70e(15-17.5)	94	100										
500-261388-22	SB118(10-12.5)	94	100										
500-261388-23	SB118(12.5-15)	94	99										
LCS 500-799213/6	Lab Control Sample	99	104										
LCS 500-799450/6	Lab Control Sample	100	103										
LCS 500-799820/4	Lab Control Sample	101	104										
LCS 500-800032/6	Lab Control Sample	103	106										
LCS 500-800426/6	Lab Control Sample	104	106										
MB 500-799213/5	Method Blank	97	105										
MB 500-799450/5	Method Blank	94	102										
MB 500-799820/3	Method Blank	98	107										
MB 500-800032/5	Method Blank	100	107										
MB 500-800426/5	Method Blank	101	106										

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	OTPH (50-126)	FBP (40-133)								
500-261388-1	SB21e(7.5-10)	87	78								
500-261388-2	SB21e(12.5-15)	0 S1-	0 S1-								
500-261388-3	SB21e(15-17.5)	84	63								
500-261388-4	SB21a(7.5-10)	86	64								
500-261388-5	SB21a(15-17.5)	90	55								
500-261388-7	SB70b(7.5-10)	88	75								
500-261388-8	SB70b(12.5-15)	0 S1-	0 S1-								
500-261388-9	SB70b(17.5-20)	83	70								
500-261388-10	SB70c(7.5-10)	83	70								
500-261388-11	SB70c(12.5-15)	78	122								
500-261388-12	SB70c(17.5-20)	82	62								
500-261388-13	SB70d(7.5-10)	74	59								
500-261388-14	SB70d(10-12.5)	0 S1-	0 S1-								
500-261388-15	SB70d(17.5-20)	78	60								
500-261388-16	SB70a(7.5-10)	88	79								
500-261388-17	SB70a(17.5-20)	79	62								
500-261388-18	SB70e(7.5-10)	69	56								
500-261388-19	SB70e(10-12.5)	0 S1-	0 S1-								
500-261388-20	SB70e(15-17.5)	74	51								
500-261388-22	SB118(10-12.5)	0 S1-	0 S1-								
500-261388-23	SB118(12.5-15)	76	57								
LCS 500-799282/2-A	Lab Control Sample	90	83								
LCS 500-799864/2-A	Lab Control Sample	88	85								
MB 500-799282/1-A	Method Blank	89	79								
MB 500-799864/1-A	Method Blank	86	88								

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 500-261388-1 MS
Matrix: Solid
Analysis Batch: 799820

Client Sample ID: SB21e(7.5-10)
Prep Type: Total/NA
Prep Batch: 799041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)	<1.7		33.3	33.7		mg/Kg	☼	101	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*101*		*70 - 130*
4-Bromofluorobenzene	*102*		*60 - 130*

Lab Sample ID: 500-261388-1 MSD
Matrix: Solid
Analysis Batch: 799820

Client Sample ID: SB21e(7.5-10)
Prep Type: Total/NA
Prep Batch: 799041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C6-C9)	<1.7		33.3	33.5		mg/Kg	☼	101	70 - 130	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*100*		*70 - 130*
4-Bromofluorobenzene	*102*		*60 - 130*

Lab Sample ID: 500-261388-4 MS
Matrix: Solid
Analysis Batch: 799213

Client Sample ID: SB21a(7.5-10)
Prep Type: Total/NA
Prep Batch: 799041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)	<0.80		15.8	15.2		mg/Kg	☼	92	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*101*		*70 - 130*
4-Bromofluorobenzene	*104*		*60 - 130*

Lab Sample ID: 500-261388-4 MSD
Matrix: Solid
Analysis Batch: 799213

Client Sample ID: SB21a(7.5-10)
Prep Type: Total/NA
Prep Batch: 799041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C6-C9)	<0.80		15.8	16.1		mg/Kg	☼	97	70 - 130	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*101*		*70 - 130*
4-Bromofluorobenzene	*104*		*60 - 130*

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 500-261388-5 MS
Matrix: Solid
Analysis Batch: 799450

Client Sample ID: SB21a(15-17.5)
Prep Type: Total/NA
Prep Batch: 799041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	<1.5		29.9	30.0		mg/Kg	☼	100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*99*		*70 - 130*
4-Bromofluorobenzene	*103*		*60 - 130*

Lab Sample ID: 500-261388-5 MSD
Matrix: Solid
Analysis Batch: 799450

Client Sample ID: SB21a(15-17.5)
Prep Type: Total/NA
Prep Batch: 799041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C6-C9)	<1.5		29.9	30.0		mg/Kg	☼	100	70 - 130	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*99*		*70 - 130*
4-Bromofluorobenzene	*101*		*60 - 130*

Lab Sample ID: MB 500-799213/5
Matrix: Solid
Analysis Batch: 799213

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			12/12/24 20:56	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*70 - 130*		*12/12/24 20:56*	*50*
4-Bromofluorobenzene	*105*		*60 - 130*		*12/12/24 20:56*	*50*

Lab Sample ID: LCS 500-799213/6
Matrix: Solid
Analysis Batch: 799213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	19.9	18.6		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*99*		*70 - 130*
4-Bromofluorobenzene	*104*		*60 - 130*

Lab Sample ID: MB 500-799450/5
Matrix: Solid
Analysis Batch: 799450

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			12/16/24 01:34	50

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 500-799450/5
Matrix: Solid
Analysis Batch: 799450

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		70 - 130		12/16/24 01:34	50
4-Bromofluorobenzene	102		60 - 130		12/16/24 01:34	50

Lab Sample ID: LCS 500-799450/6
Matrix: Solid
Analysis Batch: 799450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			19.9	19.1		mg/Kg		96	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	100		70 - 130
4-Bromofluorobenzene	103		60 - 130

Lab Sample ID: MB 500-799820/3
Matrix: Solid
Analysis Batch: 799820

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			12/18/24 10:00	50

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		70 - 130		12/18/24 10:00	50
4-Bromofluorobenzene	107		60 - 130		12/18/24 10:00	50

Lab Sample ID: LCS 500-799820/4
Matrix: Solid
Analysis Batch: 799820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			19.9	19.2		mg/Kg		97	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	101		70 - 130
4-Bromofluorobenzene	104		60 - 130

Lab Sample ID: MB 500-800032/5
Matrix: Solid
Analysis Batch: 800032

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			12/19/24 06:30	50

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		70 - 130		12/19/24 06:30	50
4-Bromofluorobenzene	107		60 - 130		12/19/24 06:30	50

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: LCS 500-800032/6
Matrix: Solid
Analysis Batch: 800032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			19.9	18.4		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*103*		*70 - 130*
4-Bromofluorobenzene	*106*		*60 - 130*

Lab Sample ID: 500-261388-9 MS
Matrix: Solid
Analysis Batch: 800032

Client Sample ID: SB70b(17.5-20)
Prep Type: Total/NA
Prep Batch: 800033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)	<1.3		26.3	25.1		mg/Kg	☼	96	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*103*		*70 - 130*
4-Bromofluorobenzene	*104*		*60 - 130*

Lab Sample ID: 500-261388-9 MSD
Matrix: Solid
Analysis Batch: 800032

Client Sample ID: SB70b(17.5-20)
Prep Type: Total/NA
Prep Batch: 800033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C6-C9)	<1.3		26.3	25.6		mg/Kg	☼	97	70 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*101*		*70 - 130*
4-Bromofluorobenzene	*103*		*60 - 130*

Lab Sample ID: MB 500-800426/5
Matrix: Solid
Analysis Batch: 800426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			12/22/24 02:15	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*70 - 130*		*12/22/24 02:15*	*50*
4-Bromofluorobenzene	*106*		*60 - 130*		*12/22/24 02:15*	*50*

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 500-800426/6
Matrix: Solid
Analysis Batch: 800426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			19.9	19.0		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*70 - 130*
4-Bromofluorobenzene	*106*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-799282/1-A
Matrix: Solid
Analysis Batch: 799521

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		12/13/24 08:51	12/16/24 13:06	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		12/13/24 08:51	12/16/24 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*89*		*50 - 126*	*12/13/24 08:51*	*12/16/24 13:06*	*1*
2-Fluorobiphenyl (Surr)	*79*		*40 - 133*	*12/13/24 08:51*	*12/16/24 13:06*	*1*

Lab Sample ID: LCS 500-799282/2-A
Matrix: Solid
Analysis Batch: 799521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799282

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	52.1		mg/Kg		78	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*90*		*50 - 126*
2-Fluorobiphenyl (Surr)	*83*		*40 - 133*

Lab Sample ID: MB 500-799864/1-A
Matrix: Solid
Analysis Batch: 799878

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799864

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		12/18/24 07:40	12/19/24 02:20	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		12/18/24 07:40	12/19/24 02:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*86*		*50 - 126*	*12/18/24 07:40*	*12/19/24 02:20*	*1*
2-Fluorobiphenyl (Surr)	*88*		*40 - 133*	*12/18/24 07:40*	*12/19/24 02:20*	*1*

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 500-799864/2-A
Matrix: Solid
Analysis Batch: 799878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	53.3		mg/Kg		80	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*88*		*50 - 126*
2-Fluorobiphenyl (Surr)	*85*		*40 - 133*

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 500-801242/1-A
Matrix: Solid
Analysis Batch: 801325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 801242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	<500		500		mg/Kg		12/31/24 09:50	12/31/24 15:47	1

Lab Sample ID: LCS 500-801242/2-A
Matrix: Solid
Analysis Batch: 801325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 801242

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide, Reactive			37.6	<39		mg/Kg		89	70 - 130		

Lab Sample ID: 500-261388-21 MS
Matrix: Solid
Analysis Batch: 801325

Client Sample ID: SB80(12.5-15)
Prep Type: Total/NA
Prep Batch: 801242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide, Reactive	<470		36.7	<490		mg/Kg					

Lab Sample ID: 500-261388-21 MSD
Matrix: Solid
Analysis Batch: 801325

Client Sample ID: SB80(12.5-15)
Prep Type: Total/NA
Prep Batch: 801242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Reactive	<470		36.7	<490		mg/Kg		NC	70 - 130	NC	30

Client Sample ID: SB21e(7.5-10)
Lab Sample ID: 500-261388-1
Date Collected: 12/09/24 10:36
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800725	ER	EET CHI	12/26/24 10:43

Client Sample ID: SB21e(7.5-10)
Lab Sample ID: 500-261388-1
Date Collected: 12/09/24 10:36
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/09/24 10:36
Total/NA	Analysis	8015D		50	799820	WRE	EET CHI	12/18/24 11:11
Total/NA	Prep	3541			799864	FRG	EET CHI	12/18/24 07:40 - 12/18/24 14:03 [1]
Total/NA	Analysis	8015D		1	799878	SB	EET CHI	12/19/24 06:08

Client Sample ID: SB21e(12.5-15)
Lab Sample ID: 500-261388-2
Date Collected: 12/09/24 10:45
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800725	ER	EET CHI	12/26/24 10:43

Client Sample ID: SB21e(12.5-15)
Lab Sample ID: 500-261388-2
Date Collected: 12/09/24 10:45
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/09/24 10:45
Total/NA	Analysis	8015D		100	799450	WRE	EET CHI	12/16/24 04:33
Total/NA	Prep	3541			799282	FRG	EET CHI	12/13/24 08:51 - 12/13/24 14:51 [1]
Total/NA	Analysis	8015D		100	799878	SB	EET CHI	12/18/24 13:30

Client Sample ID: SB21e(15-17.5)
Lab Sample ID: 500-261388-3
Date Collected: 12/09/24 10:52
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800725	ER	EET CHI	12/26/24 10:43

Client Sample ID: SB21e(15-17.5)
Lab Sample ID: 500-261388-3
Date Collected: 12/09/24 10:52
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/09/24 10:52
Total/NA	Analysis	8015D		50	799820	WRE	EET CHI	12/18/24 12:58
Total/NA	Prep	3541			799864	FRG	EET CHI	12/18/24 07:40 - 12/18/24 14:03 [1]
Total/NA	Analysis	8015D		1	799878	SB	EET CHI	12/19/24 06:36

Client Sample ID: SB21a(7.5-10)
Lab Sample ID: 500-261388-4
Date Collected: 12/09/24 11:36
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB21a(7.5-10)
Lab Sample ID: 500-261388-4
Date Collected: 12/09/24 11:36
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/09/24 11:36
Total/NA	Analysis	8015D		50	799213	WRE	EET CHI	12/12/24 22:07
Total/NA	Prep	3541			799282	FRG	EET CHI	12/13/24 08:51 - 12/13/24 14:51 [1]
Total/NA	Analysis	8015D		1	799686	SB	EET CHI	12/17/24 18:41

Client Sample ID: SB21a(15-17.5)
Lab Sample ID: 500-261388-5
Date Collected: 12/09/24 11:45
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB21a(15-17.5)
Lab Sample ID: 500-261388-5
Date Collected: 12/09/24 11:45
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/09/24 11:45
Total/NA	Analysis	8015D		50	799450	WRE	EET CHI	12/16/24 02:45
Total/NA	Prep	3541			799282	FRG	EET CHI	12/13/24 08:51 - 12/13/24 14:51 [1]
Total/NA	Analysis	8015D		1	799686	SB	EET CHI	12/17/24 19:09

Client Sample ID: SB70b(7.5-10)
Lab Sample ID: 500-261388-7
Date Collected: 12/09/24 12:11
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70b(7.5-10)
Lab Sample ID: 500-261388-7
Date Collected: 12/09/24 12:11
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/09/24 12:11
Total/NA	Analysis	8015D		50	799820	WRE	EET CHI	12/18/24 13:34
Total/NA	Prep	3541			799864	FRG	EET CHI	12/18/24 07:40 - 12/18/24 14:03 [1]
Total/NA	Analysis	8015D		10	800074	H7CM	EET CHI	12/19/24 12:22

Client Sample ID: SB70b(12.5-15)
Lab Sample ID: 500-261388-8
Date Collected: 12/09/24 12:16
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70b(12.5-15)
Lab Sample ID: 500-261388-8
Date Collected: 12/09/24 12:16
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/09/24 12:16
Total/NA	Analysis	8015D		1000	799213	WRE	EET CHI	12/13/24 01:05
Total/NA	Prep	3541			799282	FRG	EET CHI	12/13/24 08:51 - 12/13/24 14:51 [1]
Total/NA	Analysis	8015D		100	799878	SB	EET CHI	12/18/24 13:59

Client Sample ID: SB70b(17.5-20)
Lab Sample ID: 500-261388-9
Date Collected: 12/09/24 12:37
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70b(17.5-20)
Lab Sample ID: 500-261388-9
Date Collected: 12/09/24 12:37
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030B			800033	WRE	EET CHI	12/19/24 01:51
Total/NA	Analysis	8015D		50	800032	WRE	EET CHI	12/19/24 07:42
Total/NA	Prep	3541			799864	FRG	EET CHI	12/18/24 07:40 - 12/18/24 14:03 [1]
Total/NA	Analysis	8015D		1	800074	H7CM	EET CHI	12/19/24 12:50

Client Sample ID: SB70c(7.5-10)
Lab Sample ID: 500-261388-10
Date Collected: 12/09/24 13:17
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70c(7.5-10)
Lab Sample ID: 500-261388-10
Date Collected: 12/09/24 13:17
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/09/24 13:17
Total/NA	Analysis	8015D		50	800426	WRE	EET CHI	12/22/24 05:48
Total/NA	Prep	3541			799864	FRG	EET CHI	12/18/24 07:40 - 12/18/24 14:03 [1]
Total/NA	Analysis	8015D		1	800074	H7CM	EET CHI	12/19/24 13:19

Client Sample ID: SB70c(12.5-15)
Lab Sample ID: 500-261388-11
Date Collected: 12/09/24 13:36
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70c(12.5-15)
Lab Sample ID: 500-261388-11
Date Collected: 12/09/24 13:36
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/09/24 13:36
Total/NA	Analysis	8015D		500	799213	WRE	EET CHI	12/13/24 02:16
Total/NA	Prep	3541			799282	FRG	EET CHI	12/13/24 08:51 - 12/13/24 14:51 [1]
Total/NA	Analysis	8015D		10	799878	SB	EET CHI	12/18/24 14:27

Client Sample ID: SB70c(17.5-20)
Lab Sample ID: 500-261388-12
Date Collected: 12/09/24 13:47
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70c(17.5-20)
Lab Sample ID: 500-261388-12
Date Collected: 12/09/24 13:47
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/09/24 13:47
Total/NA	Analysis	8015D		50	799820	WRE	EET CHI	12/18/24 14:45
Total/NA	Prep	3541			799864	FRG	EET CHI	12/18/24 07:40 - 12/18/24 14:03 [1]
Total/NA	Analysis	8015D		1	800074	H7CM	EET CHI	12/19/24 13:48

Client Sample ID: SB70d(7.5-10)
Lab Sample ID: 500-261388-13
Date Collected: 12/09/24 14:12
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70d(7.5-10)
Lab Sample ID: 500-261388-13
Date Collected: 12/09/24 14:12
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/09/24 14:12
Total/NA	Analysis	8015D		50	799820	WRE	EET CHI	12/18/24 15:21
Total/NA	Prep	3541			799864	FRG	EET CHI	12/18/24 07:40 - 12/18/24 14:03 [1]
Total/NA	Analysis	8015D		10	800074	H7CM	EET CHI	12/19/24 14:16

Client Sample ID: SB70d(10-12.5)
Lab Sample ID: 500-261388-14
Date Collected: 12/09/24 14:36
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70d(10-12.5)
Lab Sample ID: 500-261388-14
Date Collected: 12/09/24 14:36
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/09/24 14:36
Total/NA	Analysis	8015D		1000	799213	WRE	EET CHI	12/13/24 03:27
Total/NA	Prep	3541			799282	FRG	EET CHI	12/13/24 08:51 - 12/13/24 14:51 [1]
Total/NA	Analysis	8015D		200	799878	SB	EET CHI	12/18/24 14:56

Client Sample ID: SB70d(17.5-20)
Lab Sample ID: 500-261388-15
Date Collected: 12/09/24 14:47
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70d(17.5-20)
Lab Sample ID: 500-261388-15
Date Collected: 12/09/24 14:47
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030B			800033	WRE	EET CHI	12/19/24 01:53
Total/NA	Analysis	8015D		50	800032	WRE	EET CHI	12/19/24 09:29
Total/NA	Prep	3541			799864	FRG	EET CHI	12/18/24 07:40 - 12/18/24 14:03 [1]
Total/NA	Analysis	8015D		1	800074	H7CM	EET CHI	12/19/24 14:45

Client Sample ID: SB70a(7.5-10)
Lab Sample ID: 500-261388-16
Date Collected: 12/10/24 10:01
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70a(7.5-10)
Lab Sample ID: 500-261388-16
Date Collected: 12/10/24 10:01
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/10/24 10:01
Total/NA	Analysis	8015D		50	799213	WRE	EET CHI	12/13/24 04:38
Total/NA	Prep	3541			799282	FRG	EET CHI	12/13/24 08:51 - 12/13/24 14:51 [1]
Total/NA	Analysis	8015D		1	799686	SB	EET CHI	12/17/24 22:00

Client Sample ID: SB70a(17.5-20)
Lab Sample ID: 500-261388-17
Date Collected: 12/10/24 10:22
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70a(17.5-20)
Lab Sample ID: 500-261388-17
Date Collected: 12/10/24 10:22
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/10/24 10:22
Total/NA	Analysis	8015D		50	799213	WRE	EET CHI	12/13/24 05:14
Total/NA	Prep	3541			799282	FRG	EET CHI	12/13/24 08:51 - 12/13/24 14:51 [1]
Total/NA	Analysis	8015D		1	799686	SB	EET CHI	12/17/24 22:29

Client Sample ID: SB70e(7.5-10)
Lab Sample ID: 500-261388-18
Date Collected: 12/10/24 11:33
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70e(7.5-10)
Lab Sample ID: 500-261388-18
Date Collected: 12/10/24 11:33
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/10/24 11:33
Total/NA	Analysis	8015D		50	799820	WRE	EET CHI	12/18/24 17:08
Total/NA	Prep	3541			799864	FRG	EET CHI	12/18/24 07:40 - 12/18/24 14:03 [1]
Total/NA	Analysis	8015D		1	800074	H7CM	EET CHI	12/19/24 15:13

Client Sample ID: SB70e(10-12.5)
Lab Sample ID: 500-261388-19
Date Collected: 12/10/24 11:41
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70e(10-12.5)
Lab Sample ID: 500-261388-19
Date Collected: 12/10/24 11:41
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/10/24 11:41
Total/NA	Analysis	8015D		500	799213	WRE	EET CHI	12/13/24 05:49
Total/NA	Prep	3541			799282	FRG	EET CHI	12/13/24 08:51 - 12/13/24 14:51 [1]
Total/NA	Analysis	8015D		100	799878	SB	EET CHI	12/18/24 15:24

Client Sample ID: SB70e(15-17.5)
Lab Sample ID: 500-261388-20
Date Collected: 12/10/24 11:54
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB70e(15-17.5)
Lab Sample ID: 500-261388-20
Date Collected: 12/10/24 11:54
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/10/24 11:54
Total/NA	Analysis	8015D		50	799820	WRE	EET CHI	12/18/24 17:44
Total/NA	Prep	3541			799864	FRG	EET CHI	12/18/24 07:40 - 12/18/24 14:03 [1]
Total/NA	Analysis	8015D		1	800074	H7CM	EET CHI	12/19/24 15:42

Client Sample ID: SB80(12.5-15)
Lab Sample ID: 500-261388-21
Date Collected: 12/10/24 12:57
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			801242	TR	EET CHI	12/31/24 09:50
Total/NA	Analysis	9034		1	801325	TR	EET CHI	12/31/24 15:47
Total/NA	Analysis	Moisture		1	799409	MF	EET CHI	12/14/24 09:25

Client Sample ID: SB118(10-12.5)
Lab Sample ID: 500-261388-22
Date Collected: 12/10/24 14:02
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Client Sample ID: SB118(10-12.5)
Lab Sample ID: 500-261388-22
Date Collected: 12/10/24 14:02
Matrix: Solid
Date Received: 12/11/24 12:55
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/10/24 12:57
Total/NA	Analysis	8015D		500	799213	WRE	EET CHI	12/13/24 07:00
Total/NA	Prep	3541			799282	FRG	EET CHI	12/13/24 08:51 - 12/13/24 14:51 [1]
Total/NA	Analysis	8015D		50	799878	SB	EET CHI	12/18/24 15:53

Client Sample ID: SB118(12.5-15)
Lab Sample ID: 500-261388-23
Date Collected: 12/10/24 14:09
Matrix: Solid
Date Received: 12/11/24 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800729	ER	EET CHI	12/26/24 11:03

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261388-1

Client Sample ID: SB118(12.5-15)

Date Collected: 12/10/24 14:09
Date Received: 12/11/24 12:55

Lab Sample ID: 500-261388-23

Matrix: Solid
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799041	WRE	EET CHI	12/10/24 14:02
Total/NA	Analysis	8015D		50	799820	WRE	EET CHI	12/18/24 18:19
Total/NA	Prep	3541			799864	FRG	EET CHI	12/18/24 07:40 - 12/18/24 14:03 [1]
Total/NA	Analysis	8015D		1	800074	H7CM	EET CHI	12/19/24 17:08

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261388-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
9034	7.3.4	Solid	Sulfide, Reactive
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 719720

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact	Date	COC No 2
Company Name Pioneer	Tel/Email: JHartsock@pioneeramer...	Lab Contact	Carrier:	1 of 2 COCs
Address 2755 W. 31st St	Analysis Turnaround Time			Sampler
City/State/Zip Chicago, IL, 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
Phone	TAT if different from Below 5day			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name 8080 S. Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No 500-261388
PO# 24-0124-103	☐ 1 day			

500-261388 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TPH	Hold	Sample Specific Notes
1 SB21e (7.5-10)	12/9/24	10:30am	G	S	2				X	
2 SB21e (12.5-15)		10:45am						X		
3 SB21e (15-17.5)		10:57am							X	
4 SB21a (7.5-10)		11:30am						X		
5 SB21a (15-17.5)		11:45am						X		
6 SB21a (17.5-20)		11:57am							X	
7 SB70b (7.5-10)		12:11pm						[redacted]	X	
8 SB70b (12.5-15)		12:16pm						X	[redacted]	
9 SB70b (17.5-20)		12:32pm							X	
10 SB70c (7.5-10)		1:17pm							X	
11 SB70c (12.5-15)		1:31pm						X		
12 SB70c (17.5-20)		1:47pm							X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 2.1 Corr'd 1.7 | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pioneer	12/10/24	[signature]	EETA	12/11/24 0920
Relinquished by [signature]	Company EETA 12/11/24	Date/Time 1255	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by [signature]	Company EETA	Date/Time 12/11/24 1255

Chain of Custody Record 719727

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact:	Date:	COC No 2
Company Name Pioneer	Tel/Email: JHartsock@pioneeresc.com	Lab Contact	Carrier:	2 of 2 COCs
Address 2753 W. 51st St.	Analysis Turnaround Time			Sampler
City/State/Zip Chicago, IL, 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only.
Phone	TAT if different from Below 5 day			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name 8080 S. Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO# 24-0124-103	☐ 1 day			500-26/388

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPH	Hold	Sample Specific Notes
13	SB70d (7.5-10)	12/4/24	2:12pm	G	S	2				X	
14	SB70d (10-12.5)	↓	2:36pm	↓	↓	↓			X		
15	SB70d (17.5-20)	↓	2:47pm	↓	↓	↓				X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pioneer	12/10/24	[signature]	EETA	12/11/24 0920
[signature]	EETA 12/11/24	1255			
			Received in Laboratory by [signature]	EETA	12/11/24 1255

12/31/2024

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708 534-5211

MKE 232

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JIM	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-131397-51411 16
Client Contact: Jake Hartsock	Phone:	E-Mail: Jim Knapp@et.eurofinsus com	State of Origin:	Page: Page 16 of 24
Company: Pioneer Engineering & Environmental Srvc	PWSID:	Analysis Requested		Job #: 500-261388
Address: 2753 W 31st Street	Due Date Requested:			Preservation Codes:
City: Chicago	TAT Requested (days): 10 DAY (EXCEPT 7 DAY REACTIVE SULFIDE)			
State Zip: IL, 60608	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: jhartsock@pioneerees com	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TPH	HOLD	REACTIVE SULFIDE	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
16 SB70a (7.5-10)	12/10/24	1001	G	Solid			X				
17 SB70a (17.5-20)		1022		Solid			X				
18 SB70e (7.5-10)		1133		Solid				X			
19 SB70e (10-12.5)		1141		Solid			X				
20 SB70e (15-17.5)		1154		Solid				X			
21 SB80 (12.5-15)		1257		Solid					X		
22 SB118 (10-12.5)		202		Solid			X				
23 SB118 (12.5-15)		209		Solid				X			
				Solid							
				Solid							
				Solid							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: *REACTIVE SULFIDE TEST HAS 7 DAY MAX HOLD TIME

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	12/11/24			12/11/24 0920	EETA
	12/11/24 1255	EETA		12/11/24 1255	EETA

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-261388-1

Login Number: 261388
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 12/27/2024 6:17:49 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-261656-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
12/27/2024 6:17:49 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-261656-1 — Eurofins Chicago

Job Narrative
500-261656-1

Receipt
The samples were received on 12/16/2024 11:06 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following samples required a dilution due to the nature of the sample matrix: B119 (15-17.5) (500-261656-1), B61b (12.5-15) (500-261656-4) and B61c (12.5-15) (500-261656-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261656-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: B119 (15-17.5) — Lab Sample ID: 500-261656-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	26		5.9		mg/Kg	200	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	6400		410		mg/Kg	40	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	7500		830		mg/Kg	40	☼	8015D	Total/NA

Client Sample ID: B119 (22.5-25) — Lab Sample ID: 500-261656-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	8.1		4.0		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	2600		180		mg/Kg	10	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	1700		360		mg/Kg	10	☼	8015D	Total/NA

Client Sample ID: B61b (7.5-10) — Lab Sample ID: 500-261656-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	19		1.5		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	180		9.2		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	240		19		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: B61b (12.5-15) — Lab Sample ID: 500-261656-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	52		9.8		mg/Kg	200	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	23000		1400		mg/Kg	100	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	11000		2800		mg/Kg	100	☼	8015D	Total/NA

Client Sample ID: B61b (17.5-19) — Lab Sample ID: 500-261656-5

No Detections.

Client Sample ID: B61c (7.5-10) — Lab Sample ID: 500-261656-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	10		1.2		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	23		9.0		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	34		18		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: B61c (12.5-15) — Lab Sample ID: 500-261656-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	39		5.5		mg/Kg	200	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	8300		990		mg/Kg	100	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	8500		2000		mg/Kg	100	☼	8015D	Total/NA

Client Sample ID: B61c (15-17) — Lab Sample ID: 500-261656-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	20		4.2		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	2300		100		mg/Kg	5	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	2800		210		mg/Kg	5	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261656-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261656-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261656-1	B119 (15-17.5)	Solid	12/13/24 09:41	12/16/24 11:06
500-261656-2	B119 (22.5-25)	Solid	12/13/24 10:11	12/16/24 11:06
500-261656-3	B61b (7.5-10)	Solid	12/13/24 11:39	12/16/24 11:06
500-261656-4	B61b (12.5-15)	Solid	12/13/24 12:12	12/16/24 11:06
500-261656-5	B61b (17.5-19)	Solid	12/13/24 12:27	12/16/24 11:06
500-261656-6	B61c (7.5-10)	Solid	12/13/24 13:40	12/16/24 11:06
500-261656-7	B61c (12.5-15)	Solid	12/13/24 13:51	12/16/24 11:06
500-261656-8	B61c (15-17)	Solid	12/13/24 14:09	12/16/24 11:06

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261656-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: B119 (15-17.5)
Lab Sample ID: 500-261656-1
Date Collected: 12/13/24 09:41
Matrix: Solid
Date Received: 12/16/24 11:06
Percent Solids: 76.1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	26		5.9		mg/Kg	☼	12/13/24 09:41	12/18/24 18:55	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*12/13/24 09:41*	*12/18/24 18:55*	*200*
4-Bromofluorobenzene	*100*		*60 - 130*	*12/13/24 09:41*	*12/18/24 18:55*	*200*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	6400		410		mg/Kg	☼	12/20/24 14:54	12/27/24 11:33	40
Oil Range Organics (C28-C36)	7500		830		mg/Kg	☼	12/20/24 14:54	12/27/24 11:33	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/20/24 14:54*	*12/27/24 11:33*	*40*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/20/24 14:54*	*12/27/24 11:33*	*40*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261656-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: B119 (22.5-25)
Lab Sample ID: 500-261656-2

Date Collected: 12/13/24 10:11
Matrix: Solid

Date Received: 12/16/24 11:06
Percent Solids: 43.9

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	8.1		4.0		mg/Kg	☼	12/13/24 10:11	12/19/24 10:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*12/13/24 10:11*	*12/19/24 10:05*	*50*
4-Bromofluorobenzene	*104*		*60 - 130*	*12/13/24 10:11*	*12/19/24 10:05*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2600		180		mg/Kg	☼	12/20/24 14:54	12/27/24 12:02	10
Oil Range Organics (C28-C36)	1700		360		mg/Kg	☼	12/20/24 14:54	12/27/24 12:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*97*		*50 - 126*	*12/20/24 14:54*	*12/27/24 12:02*	*10*
2-Fluorobiphenyl (Surr)	*80*		*40 - 133*	*12/20/24 14:54*	*12/27/24 12:02*	*10*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261656-1

Client Sample ID: B61b (7.5-10)

Date Collected: 12/13/24 11:39
Date Received: 12/16/24 11:06

Lab Sample ID: 500-261656-3

Matrix: Solid
Percent Solids: 86.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	19		1.5		mg/Kg	☼	12/13/24 11:39	12/18/24 20:06	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*70 - 130*	*12/13/24 11:39*	*12/18/24 20:06*	*50*
4-Bromofluorobenzene	*102*		*60 - 130*	*12/13/24 11:39*	*12/18/24 20:06*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	180		9.2		mg/Kg	☼	12/20/24 14:54	12/26/24 18:04	1
Oil Range Organics (C28-C36)	240		19		mg/Kg	☼	12/20/24 14:54	12/26/24 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*83*		*50 - 126*	*12/20/24 14:54*	*12/26/24 18:04*	*1*
2-Fluorobiphenyl (Surr)	*82*		*40 - 133*	*12/20/24 14:54*	*12/26/24 18:04*	*1*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261656-1

Client Sample ID: B61b (12.5-15)

Date Collected: 12/13/24 12:12
Date Received: 12/16/24 11:06

Lab Sample ID: 500-261656-4

Matrix: Solid
Percent Solids: 57.4

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	52		9.8		mg/Kg	☼	12/13/24 12:12	12/18/24 20:42	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*12/13/24 12:12*	*12/18/24 20:42*	*200*
4-Bromofluorobenzene	*102*		*60 - 130*	*12/13/24 12:12*	*12/18/24 20:42*	*200*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	23000		1400		mg/Kg	☼	12/20/24 14:54	12/27/24 12:30	100
Oil Range Organics (C28-C36)	11000		2800		mg/Kg	☼	12/20/24 14:54	12/27/24 12:30	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/20/24 14:54*	*12/27/24 12:30*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/20/24 14:54*	*12/27/24 12:30*	*100*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261656-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: B61b (17.5-19)
Lab Sample ID: 500-261656-5
Date Collected: 12/13/24 12:27
Matrix: Solid
Date Received: 12/16/24 11:06
Percent Solids: 48.9

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<3.2		3.2		mg/Kg	☼	12/13/24 12:27	12/18/24 21:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*70 - 130*	*12/13/24 12:27*	*12/18/24 21:53*	*50*
4-Bromofluorobenzene	*99*		*60 - 130*	*12/13/24 12:27*	*12/18/24 21:53*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<17		17		mg/Kg	☼	12/20/24 14:54	12/26/24 19:58	1
Oil Range Organics (C28-C36)	<34		34		mg/Kg	☼	12/20/24 14:54	12/26/24 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*81*		*50 - 126*	*12/20/24 14:54*	*12/26/24 19:58*	*1*
2-Fluorobiphenyl (Surr)	*46*		*40 - 133*	*12/20/24 14:54*	*12/26/24 19:58*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261656-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: B61c (7.5-10)
Lab Sample ID: 500-261656-6
Date Collected: 12/13/24 13:40
Matrix: Solid
Date Received: 12/16/24 11:06
Percent Solids: 91.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	10		1.2		mg/Kg	☼	12/13/24 13:40	12/18/24 23:04	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*70 - 130*	*12/13/24 13:40*	*12/18/24 23:04*	*50*
4-Bromofluorobenzene	*104*		*60 - 130*	*12/13/24 13:40*	*12/18/24 23:04*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	23		9.0		mg/Kg	☼	12/20/24 14:54	12/26/24 20:27	1
Oil Range Organics (C28-C36)	34		18		mg/Kg	☼	12/20/24 14:54	12/26/24 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*84*		*50 - 126*	*12/20/24 14:54*	*12/26/24 20:27*	*1*
2-Fluorobiphenyl (Surr)	*68*		*40 - 133*	*12/20/24 14:54*	*12/26/24 20:27*	*1*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261656-1

Client Sample ID: B61c (12.5-15)

Date Collected: 12/13/24 13:51
Date Received: 12/16/24 11:06

Lab Sample ID: 500-261656-7

Matrix: Solid
Percent Solids: 81.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	39		5.5		mg/Kg	☼	12/13/24 13:51	12/18/24 23:40	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*12/13/24 13:51*	*12/18/24 23:40*	*200*
4-Bromofluorobenzene	*100*		*60 - 130*	*12/13/24 13:51*	*12/18/24 23:40*	*200*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	8300		990		mg/Kg	☼	12/20/24 14:54	12/27/24 12:59	100
Oil Range Organics (C28-C36)	8500		2000		mg/Kg	☼	12/20/24 14:54	12/27/24 12:59	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/20/24 14:54*	*12/27/24 12:59*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/20/24 14:54*	*12/27/24 12:59*	*100*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261656-1

Client Sample ID: B61c (15-17)
Date Collected: 12/13/24 14:09
Date Received: 12/16/24 11:06

Lab Sample ID: 500-261656-8
Matrix: Solid
Percent Solids: 39.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	20		4.2		mg/Kg	☼	12/13/24 14:09	12/19/24 00:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*70 - 130*	*12/13/24 14:09*	*12/19/24 00:51*	*50*
4-Bromofluorobenzene	*100*		*60 - 130*	*12/13/24 14:09*	*12/19/24 00:51*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2300		100		mg/Kg	☼	12/20/24 14:54	12/26/24 21:24	5
Oil Range Organics (C28-C36)	2800		210		mg/Kg	☼	12/20/24 14:54	12/26/24 21:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*77*		*50 - 126*	*12/20/24 14:54*	*12/26/24 21:24*	*5*
2-Fluorobiphenyl (Surr)	*66*		*40 - 133*	*12/20/24 14:54*	*12/26/24 21:24*	*5*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261656-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC VOA

Prep Batch: 799638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261656-1	B119 (15-17.5)	Total/NA	Solid	5035	
500-261656-2	B119 (22.5-25)	Total/NA	Solid	5035	
500-261656-3	B61b (7.5-10)	Total/NA	Solid	5035	
500-261656-4	B61b (12.5-15)	Total/NA	Solid	5035	
500-261656-5	B61b (17.5-19)	Total/NA	Solid	5035	
500-261656-6	B61c (7.5-10)	Total/NA	Solid	5035	
500-261656-7	B61c (12.5-15)	Total/NA	Solid	5035	
500-261656-8	B61c (15-17)	Total/NA	Solid	5035	

Analysis Batch: 799820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261656-1	B119 (15-17.5)	Total/NA	Solid	8015D	799638
500-261656-3	B61b (7.5-10)	Total/NA	Solid	8015D	799638
500-261656-4	B61b (12.5-15)	Total/NA	Solid	8015D	799638
500-261656-5	B61b (17.5-19)	Total/NA	Solid	8015D	799638
500-261656-6	B61c (7.5-10)	Total/NA	Solid	8015D	799638
500-261656-7	B61c (12.5-15)	Total/NA	Solid	8015D	799638
500-261656-8	B61c (15-17)	Total/NA	Solid	8015D	799638
MB 500-799820/3	Method Blank	Total/NA	Solid	8015D	
LCS 500-799820/4	Lab Control Sample	Total/NA	Solid	8015D	

Analysis Batch: 800032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261656-2	B119 (22.5-25)	Total/NA	Solid	8015D	799638
MB 500-800032/5	Method Blank	Total/NA	Solid	8015D	
LCS 500-800032/6	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 800398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261656-1	B119 (15-17.5)	Total/NA	Solid	3541	
500-261656-2	B119 (22.5-25)	Total/NA	Solid	3541	
500-261656-3	B61b (7.5-10)	Total/NA	Solid	3541	
500-261656-4	B61b (12.5-15)	Total/NA	Solid	3541	
500-261656-5	B61b (17.5-19)	Total/NA	Solid	3541	
500-261656-6	B61c (7.5-10)	Total/NA	Solid	3541	
500-261656-7	B61c (12.5-15)	Total/NA	Solid	3541	
500-261656-8	B61c (15-17)	Total/NA	Solid	3541	
MB 500-800398/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-800398/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-261656-3 MS	B61b (7.5-10)	Total/NA	Solid	3541	
500-261656-3 MSD	B61b (7.5-10)	Total/NA	Solid	3541	

Analysis Batch: 800638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-800398/1-A	Method Blank	Total/NA	Solid	8015D	800398
LCS 500-800398/2-A	Lab Control Sample	Total/NA	Solid	8015D	800398

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261656-1
Project/Site: 8080 District (24-0124-103)

GC Semi VOA

Analysis Batch: 800693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261656-3	B61b (7.5-10)	Total/NA	Solid	8015D	800398
500-261656-5	B61b (17.5-19)	Total/NA	Solid	8015D	800398
500-261656-6	B61c (7.5-10)	Total/NA	Solid	8015D	800398
500-261656-8	B61c (15-17)	Total/NA	Solid	8015D	800398
MB 500-800398/1-A	Method Blank	Total/NA	Solid	8015D	800398
LCS 500-800398/2-A	Lab Control Sample	Total/NA	Solid	8015D	800398
500-261656-3 MS	B61b (7.5-10)	Total/NA	Solid	8015D	800398
500-261656-3 MSD	B61b (7.5-10)	Total/NA	Solid	8015D	800398

Analysis Batch: 800849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261656-1	B119 (15-17.5)	Total/NA	Solid	8015D	800398
500-261656-2	B119 (22.5-25)	Total/NA	Solid	8015D	800398
500-261656-4	B61b (12.5-15)	Total/NA	Solid	8015D	800398
500-261656-7	B61c (12.5-15)	Total/NA	Solid	8015D	800398

General Chemistry

Analysis Batch: 799817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261656-1	B119 (15-17.5)	Total/NA	Solid	Moisture	
500-261656-4	B61b (12.5-15)	Total/NA	Solid	Moisture	
500-261656-7	B61c (12.5-15)	Total/NA	Solid	Moisture	

Analysis Batch: 800756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261656-2	B119 (22.5-25)	Total/NA	Solid	Moisture	
500-261656-3	B61b (7.5-10)	Total/NA	Solid	Moisture	
500-261656-5	B61b (17.5-19)	Total/NA	Solid	Moisture	

Analysis Batch: 800764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261656-6	B61c (7.5-10)	Total/NA	Solid	Moisture	
500-261656-8	B61c (15-17)	Total/NA	Solid	Moisture	
500-261656-6 DU	B61c (7.5-10)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261656-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT1 (70-130)	BFB1 (60-130)
500-261656-1	B119 (15-17.5)	95	100
500-261656-2	B119 (22.5-25)	98	104
500-261656-3	B61b (7.5-10)	111	102
500-261656-4	B61b (12.5-15)	95	102
500-261656-5	B61b (17.5-19)	93	99
500-261656-6	B61c (7.5-10)	92	104
500-261656-7	B61c (12.5-15)	95	100
500-261656-8	B61c (15-17)	93	100
LCS 500-799820/4	Lab Control Sample	101	104
LCS 500-800032/6	Lab Control Sample	103	106
MB 500-799820/3	Method Blank	98	107
MB 500-800032/5	Method Blank	100	107

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH (50-126)	FBP (40-133)
500-261656-1	B119 (15-17.5)	0 S1-	0 S1-
500-261656-2	B119 (22.5-25)	97	80
500-261656-3	B61b (7.5-10)	83	82
500-261656-3 MS	B61b (7.5-10)	87	85
500-261656-3 MSD	B61b (7.5-10)	79	77
500-261656-4	B61b (12.5-15)	0 S1-	0 S1-
500-261656-5	B61b (17.5-19)	81	46
500-261656-6	B61c (7.5-10)	84	68
500-261656-7	B61c (12.5-15)	0 S1-	0 S1-
500-261656-8	B61c (15-17)	77	66
LCS 500-800398/2-A	Lab Control Sample	81	69
LCS 500-800398/2-A	Lab Control Sample	84	76
MB 500-800398/1-A	Method Blank	82	61
MB 500-800398/1-A	Method Blank	86	65

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-799820/3
Matrix: Solid
Analysis Batch: 799820

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			12/18/24 10:00	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*		*12/18/24 10:00*	*50*
4-Bromofluorobenzene	*107*		*60 - 130*		*12/18/24 10:00*	*50*

Lab Sample ID: LCS 500-799820/4
Matrix: Solid
Analysis Batch: 799820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	19.9	19.2		mg/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*101*		*70 - 130*
4-Bromofluorobenzene	*104*		*60 - 130*

Lab Sample ID: MB 500-800032/5
Matrix: Solid
Analysis Batch: 800032

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			12/19/24 06:30	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*70 - 130*		*12/19/24 06:30*	*50*
4-Bromofluorobenzene	*107*		*60 - 130*		*12/19/24 06:30*	*50*

Lab Sample ID: LCS 500-800032/6
Matrix: Solid
Analysis Batch: 800032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	19.9	18.4		mg/Kg		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*103*		*70 - 130*
4-Bromofluorobenzene	*106*		*60 - 130*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261656-1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-800398/1-A
Matrix: Solid
Analysis Batch: 800638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 800398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		12/20/24 14:54	12/24/24 01:16	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		12/20/24 14:54	12/24/24 01:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*50 - 126*	*12/20/24 14:54*	*12/24/24 01:16*	*1*
2-Fluorobiphenyl (Surr)	*61*		*40 - 133*	*12/20/24 14:54*	*12/24/24 01:16*	*1*

Lab Sample ID: MB 500-800398/1-A
Matrix: Solid
Analysis Batch: 800693

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 800398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		12/20/24 14:54	12/26/24 14:15	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		12/20/24 14:54	12/26/24 14:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*86*		*50 - 126*	*12/20/24 14:54*	*12/26/24 14:15*	*1*
2-Fluorobiphenyl (Surr)	*65*		*40 - 133*	*12/20/24 14:54*	*12/26/24 14:15*	*1*

Lab Sample ID: LCS 500-800398/2-A
Matrix: Solid
Analysis Batch: 800638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 800398

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	48.1		mg/Kg		72	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*81*		*50 - 126*
2-Fluorobiphenyl (Surr)	*69*		*40 - 133*

Lab Sample ID: LCS 500-800398/2-A
Matrix: Solid
Analysis Batch: 800693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 800398

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	50.0		mg/Kg		75	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*84*		*50 - 126*
2-Fluorobiphenyl (Surr)	*76*		*40 - 133*

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 500-261656-3 MS
Matrix: Solid
Analysis Batch: 800693

Client Sample ID: B61b (7.5-10)
Prep Type: Total/NA
Prep Batch: 800398

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	180		76.1	256		mg/Kg	☼	95	60 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*87*		*50 - 126*
2-Fluorobiphenyl (Surr)	*85*		*40 - 133*

Lab Sample ID: 500-261656-3 MSD
Matrix: Solid
Analysis Batch: 800693

Client Sample ID: B61b (7.5-10)
Prep Type: Total/NA
Prep Batch: 800398

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	180		75.1	263		mg/Kg	☼	106	60 - 125	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*79*		*50 - 126*
2-Fluorobiphenyl (Surr)	*77*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261656-1

Client Sample ID: B119 (15-17.5)
Date Collected: 12/13/24 09:41
Date Received: 12/16/24 11:06

Lab Sample ID: 500-261656-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	799817	MF	EET CHI	12/17/24 15:56

Client Sample ID: B119 (15-17.5)
Date Collected: 12/13/24 09:41
Date Received: 12/16/24 11:06

Lab Sample ID: 500-261656-1
Matrix: Solid
Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799638	WRE	EET CHI	12/13/24 09:41
Total/NA	Analysis	8015D		200	799820	WRE	EET CHI	12/18/24 18:55
Total/NA	Prep	3541			800398	SV	EET CHI	12/20/24 14:54 - 12/20/24 21:02 [1]
Total/NA	Analysis	8015D		40	800849	SB	EET CHI	12/27/24 11:33

Client Sample ID: B119 (22.5-25)
Date Collected: 12/13/24 10:11
Date Received: 12/16/24 11:06

Lab Sample ID: 500-261656-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800756	ER	EET CHI	12/26/24 13:05

Client Sample ID: B119 (22.5-25)
Date Collected: 12/13/24 10:11
Date Received: 12/16/24 11:06

Lab Sample ID: 500-261656-2
Matrix: Solid
Percent Solids: 43.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799638	WRE	EET CHI	12/13/24 10:11
Total/NA	Analysis	8015D		50	800032	WRE	EET CHI	12/19/24 10:05
Total/NA	Prep	3541			800398	SV	EET CHI	12/20/24 14:54 - 12/20/24 21:02 [1]
Total/NA	Analysis	8015D		10	800849	SB	EET CHI	12/27/24 12:02

Client Sample ID: B61b (7.5-10)
Date Collected: 12/13/24 11:39
Date Received: 12/16/24 11:06

Lab Sample ID: 500-261656-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800756	ER	EET CHI	12/26/24 13:05

Client Sample ID: B61b (7.5-10)
Date Collected: 12/13/24 11:39
Date Received: 12/16/24 11:06

Lab Sample ID: 500-261656-3
Matrix: Solid
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799638	WRE	EET CHI	12/13/24 11:39
Total/NA	Analysis	8015D		50	799820	WRE	EET CHI	12/18/24 20:06
Total/NA	Prep	3541			800398	SV	EET CHI	12/20/24 14:54 - 12/20/24 21:02 [1]
Total/NA	Analysis	8015D		1	800693	H7CM	EET CHI	12/26/24 18:04

Client Sample ID: B61b (12.5-15)
Lab Sample ID: 500-261656-4
Date Collected: 12/13/24 12:12
Matrix: Solid
Date Received: 12/16/24 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	799817	MF	EET CHI	12/17/24 15:56

Client Sample ID: B61b (12.5-15)
Lab Sample ID: 500-261656-4
Date Collected: 12/13/24 12:12
Matrix: Solid
Date Received: 12/16/24 11:06
Percent Solids: 57.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799638	WRE	EET CHI	12/13/24 12:12
Total/NA	Analysis	8015D		200	799820	WRE	EET CHI	12/18/24 20:42
Total/NA	Prep	3541			800398	SV	EET CHI	12/20/24 14:54 - 12/20/24 21:02 [1]
Total/NA	Analysis	8015D		100	800849	SB	EET CHI	12/27/24 12:30

Client Sample ID: B61b (17.5-19)
Lab Sample ID: 500-261656-5
Date Collected: 12/13/24 12:27
Matrix: Solid
Date Received: 12/16/24 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800756	ER	EET CHI	12/26/24 13:05

Client Sample ID: B61b (17.5-19)
Lab Sample ID: 500-261656-5
Date Collected: 12/13/24 12:27
Matrix: Solid
Date Received: 12/16/24 11:06
Percent Solids: 48.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799638	WRE	EET CHI	12/13/24 12:27
Total/NA	Analysis	8015D		50	799820	WRE	EET CHI	12/18/24 21:53
Total/NA	Prep	3541			800398	SV	EET CHI	12/20/24 14:54 - 12/20/24 21:02 [1]
Total/NA	Analysis	8015D		1	800693	H7CM	EET CHI	12/26/24 19:58

Client Sample ID: B61c (7.5-10)
Lab Sample ID: 500-261656-6
Date Collected: 12/13/24 13:40
Matrix: Solid
Date Received: 12/16/24 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800764	ER	EET CHI	12/26/24 13:27

Client Sample ID: B61c (7.5-10)
Lab Sample ID: 500-261656-6
Date Collected: 12/13/24 13:40
Matrix: Solid
Date Received: 12/16/24 11:06
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799638	WRE	EET CHI	12/13/24 13:40
Total/NA	Analysis	8015D		50	799820	WRE	EET CHI	12/18/24 23:04
Total/NA	Prep	3541			800398	SV	EET CHI	12/20/24 14:54 - 12/20/24 21:02 [1]
Total/NA	Analysis	8015D		1	800693	H7CM	EET CHI	12/26/24 20:27

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261656-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: B61c (12.5-15)
Lab Sample ID: 500-261656-7
Date Collected: 12/13/24 13:51
Matrix: Solid
Date Received: 12/16/24 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	799817	MF	EET CHI	12/17/24 15:56

Client Sample ID: B61c (12.5-15)
Lab Sample ID: 500-261656-7
Date Collected: 12/13/24 13:51
Matrix: Solid
Date Received: 12/16/24 11:06
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799638	WRE	EET CHI	12/13/24 13:51
Total/NA	Analysis	8015D		200	799820	WRE	EET CHI	12/18/24 23:40
Total/NA	Prep	3541			800398	SV	EET CHI	12/20/24 14:54 - 12/20/24 21:02 [1]
Total/NA	Analysis	8015D		100	800849	SB	EET CHI	12/27/24 12:59

Client Sample ID: B61c (15-17)
Lab Sample ID: 500-261656-8
Date Collected: 12/13/24 14:09
Matrix: Solid
Date Received: 12/16/24 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800764	ER	EET CHI	12/26/24 13:27

Client Sample ID: B61c (15-17)
Lab Sample ID: 500-261656-8
Date Collected: 12/13/24 14:09
Matrix: Solid
Date Received: 12/16/24 11:06
Percent Solids: 39.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799638	WRE	EET CHI	12/13/24 14:09
Total/NA	Analysis	8015D		50	799820	WRE	EET CHI	12/19/24 00:51
Total/NA	Prep	3541			800398	SV	EET CHI	12/20/24 14:54 - 12/20/24 21:02 [1]
Total/NA	Analysis	8015D		5	800693	H7CM	EET CHI	12/26/24 21:24

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261656-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax. 708-534-5211

MKE 232

Chain of Custody Record

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Client Information	Sampler: JM	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-131397-51411 7
Client Contact: Jake Hartsock	Phone:	E-Mail: Jim Knapp@et eurofinsus com	State of Origin:	Page: Page 1 of 2
Company: Pioneer Engineering & Environmental Srvc	PWSID:	Analysis Requested		Job #: 500-261656
Address: 2753 W 31st Street	Due Date Requested:			Preservation Codes:
City: Chicago	TAT Requested (days): 10 DAY			
State, Zip: IL, 60608	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: jhartsock@pioneerees com	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

500-261656 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7-DH	HOLD	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
1 B119 (15-17.5)	12/13/24	941	G	Solid			X			
2 B119 (22.5-25)		1011		Solid				X		
3 B61b (7.5-10)		1139		Solid				X		
4 B61b (12.5-15)		1212		Solid			X			
5 B61b (17.5-19)		1227		Solid				X		
6 B61C (7.5-10)		140		Solid				X		
7 B61C (12.5-15)		151		Solid			X			
8 B61C (15-17)		209		Solid				X		
				~~Solid~~						
				~~Solid~~						
				~~Solid~~						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	12/16/24			12/16/24 0955	EETA
	12/16/24 1106	EETA		12/16/24 1106	EETA
	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 4.1 → 3.7

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-261656-1

Login Number: 261656
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 1/3/2025 5:20:53 PM Revision 1

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-261722-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

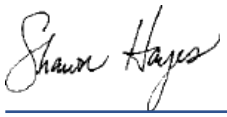
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Revision 1

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Job ID: 500-261722-1 — Eurofins Chicago

Job Narrative
500-261722-1

Revision
The report being provided is a revision of the original report sent on 12/31/2024. The report (revision 1) is being revised due to: to correct the reactive sulfide result that was off by a factor or 10X..

Receipt
The samples were received on 12/17/24 10:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.9º C.

Receipt Exceptions
All samples taken off HOLD for TPH by client on 12/18.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following samples required a dilution due to the nature of the sample matrix: SB61d (17.5-20) (500-261722-2) and SB61e (10-12.5) (500-261722-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61d (10-12.5) — Lab Sample ID: 500-261722-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	6.1		1.6		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	400	F2	48		mg/Kg	5	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	1100		97		mg/Kg	5	☼	8015D	Total/NA

Client Sample ID: SB61d (17.5-20) — Lab Sample ID: 500-261722-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	8.9		3.5		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	6700		440		mg/Kg	25	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	6600		890		mg/Kg	25	☼	8015D	Total/NA

Client Sample ID: SB61d (25-27.5) — Lab Sample ID: 500-261722-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.32		0.034		mg/Kg	50	☼	8260D	Total/NA
Toluene	1.3		0.034		mg/Kg	50	☼	8260D	Total/NA
Ethylbenzene	0.066		0.034		mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.96		0.068		mg/Kg	50	☼	8260D	Total/NA
Gasoline Range Organics (C6-C9)	8.0		2.7		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	1700		170		mg/Kg	10	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	1500		340		mg/Kg	10	☼	8015D	Total/NA

Client Sample ID: SB61e (7.5-10) — Lab Sample ID: 500-261722-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	3.6		1.3		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	91		9.4		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	160		19		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB61e (10-12.5) — Lab Sample ID: 500-261722-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	50		23		mg/Kg	500	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	26000		2800		mg/Kg	200	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	14000		5600		mg/Kg	200	☼	8015D	Total/NA

Client Sample ID: SB61e (22.5-25) — Lab Sample ID: 500-261722-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	50		10		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	46		20		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB61a (7.5-10) — Lab Sample ID: 500-261722-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	2.0		1.2		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	150		8.9		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	180		18		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB61a (17.5-20) — Lab Sample ID: 500-261722-8

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
9034	Sulfide, Reactive	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7.3.4	Sulfide, Reactive	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261722-1	SB61d (10-12.5)	Solid	12/16/24 10:08	12/17/24 10:50
500-261722-2	SB61d (17.5-20)	Solid	12/16/24 10:33	12/17/24 10:50
500-261722-3	SB61d (25-27.5)	Solid	12/16/24 11:17	12/17/24 10:50
500-261722-4	SB61e (7.5-10)	Solid	12/16/24 12:39	12/17/24 10:50
500-261722-5	SB61e (10-12.5)	Solid	12/16/24 12:55	12/17/24 10:50
500-261722-6	SB61e (22.5-25)	Solid	12/16/24 13:18	12/17/24 10:50
500-261722-7	SB61a (7.5-10)	Solid	12/16/24 14:37	12/17/24 10:50
500-261722-8	SB61a (17.5-20)	Solid	12/16/24 15:09	12/17/24 10:50

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61d (10-12.5)
Lab Sample ID: 500-261722-1

Date Collected: 12/16/24 10:08
Matrix: Solid

Date Received: 12/17/24 10:50
Percent Solids: 85.8

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	6.1		1.6		mg/Kg	☼	12/16/24 10:08	12/19/24 11:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*70 - 130*	*12/16/24 10:08*	*12/19/24 11:16*	*50*
4-Bromofluorobenzene	*105*		*60 - 130*	*12/16/24 10:08*	*12/19/24 11:16*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	400	F2	48		mg/Kg	☼	12/23/24 07:01	12/27/24 16:49	5
Oil Range Organics (C28-C36)	1100		97		mg/Kg	☼	12/23/24 07:01	12/27/24 16:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*79*		*50 - 126*	*12/23/24 07:01*	*12/27/24 16:49*	*5*
2-Fluorobiphenyl (Surr)	*74*		*40 - 133*	*12/23/24 07:01*	*12/27/24 16:49*	*5*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61d (17.5-20)
Lab Sample ID: 500-261722-2
Date Collected: 12/16/24 10:33
Matrix: Solid
Date Received: 12/17/24 10:50
Percent Solids: 46.8

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	8.9		3.5		mg/Kg	☼	12/16/24 10:33	12/19/24 13:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*12/16/24 10:33*	*12/19/24 13:03*	*50*
4-Bromofluorobenzene	*103*		*60 - 130*	*12/16/24 10:33*	*12/19/24 13:03*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	6700		440		mg/Kg	☼	12/23/24 07:01	12/30/24 10:27	25
Oil Range Organics (C28-C36)	6600		890		mg/Kg	☼	12/23/24 07:01	12/30/24 10:27	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/23/24 07:01*	*12/30/24 10:27*	*25*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/23/24 07:01*	*12/30/24 10:27*	*25*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261722-1

Client Sample ID: SB61d (25-27.5)

Date Collected: 12/16/24 11:17
Date Received: 12/17/24 10:50

Lab Sample ID: 500-261722-3

Matrix: Solid
Percent Solids: 49.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.32		0.034		mg/Kg	☼	12/16/24 11:17	12/30/24 12:30	50
Toluene	1.3		0.034		mg/Kg	☼	12/16/24 11:17	12/30/24 12:30	50
Ethylbenzene	0.066		0.034		mg/Kg	☼	12/16/24 11:17	12/30/24 12:30	50
Xylenes, Total	0.96		0.068		mg/Kg	☼	12/16/24 11:17	12/30/24 12:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*75 - 126*	*12/16/24 11:17*	*12/30/24 12:30*	*50*
Toluene-d8 (Surr)	*104*		*75 - 120*	*12/16/24 11:17*	*12/30/24 12:30*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*12/16/24 11:17*	*12/30/24 12:30*	*50*
Dibromofluoromethane (Surr)	*105*		*75 - 120*	*12/16/24 11:17*	*12/30/24 12:30*	*50*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	8.0		2.7		mg/Kg	☼	12/16/24 11:17	12/22/24 03:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*70 - 130*	*12/16/24 11:17*	*12/22/24 03:26*	*50*
4-Bromofluorobenzene	*104*		*60 - 130*	*12/16/24 11:17*	*12/22/24 03:26*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1700		170		mg/Kg	☼	12/23/24 07:01	12/30/24 10:56	10
Oil Range Organics (C28-C36)	1500		340		mg/Kg	☼	12/23/24 07:01	12/30/24 10:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*50 - 126*	*12/23/24 07:01*	*12/30/24 10:56*	*10*
2-Fluorobiphenyl (Surr)	*60*		*40 - 133*	*12/23/24 07:01*	*12/30/24 10:56*	*10*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61e (7.5-10)
Lab Sample ID: 500-261722-4
Date Collected: 12/16/24 12:39
Matrix: Solid
Date Received: 12/17/24 10:50
Percent Solids: 88.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	3.6		1.3		mg/Kg	☼	12/16/24 12:39	12/19/24 14:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*70 - 130*	*12/16/24 12:39*	*12/19/24 14:15*	*50*
4-Bromofluorobenzene	*102*		*60 - 130*	*12/16/24 12:39*	*12/19/24 14:15*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	91		9.4		mg/Kg	☼	12/23/24 07:01	12/27/24 19:12	1
Oil Range Organics (C28-C36)	160		19		mg/Kg	☼	12/23/24 07:01	12/27/24 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*50 - 126*	*12/23/24 07:01*	*12/27/24 19:12*	*1*
2-Fluorobiphenyl (Surr)	*81*		*40 - 133*	*12/23/24 07:01*	*12/27/24 19:12*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61e (10-12.5)
Lab Sample ID: 500-261722-5
Date Collected: 12/16/24 12:55
Matrix: Solid
Date Received: 12/17/24 10:50
Percent Solids: 56.4

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	50		23		mg/Kg	☼	12/16/24 12:55	12/19/24 14:51	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*12/16/24 12:55*	*12/19/24 14:51*	*500*
4-Bromofluorobenzene	*105*		*60 - 130*	*12/16/24 12:55*	*12/19/24 14:51*	*500*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	26000		2800		mg/Kg	☼	12/23/24 07:01	12/30/24 11:25	200
Oil Range Organics (C28-C36)	14000		5600		mg/Kg	☼	12/23/24 07:01	12/30/24 11:25	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*12/23/24 07:01*	*12/30/24 11:25*	*200*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*12/23/24 07:01*	*12/30/24 11:25*	*200*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61e (22.5-25)
Lab Sample ID: 500-261722-6
Date Collected: 12/16/24 13:18
Matrix: Solid
Date Received: 12/17/24 10:50
Percent Solids: 81.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.3		1.3		mg/Kg	☼	12/16/24 13:18	12/22/24 05:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*70 - 130*	*12/16/24 13:18*	*12/22/24 05:13*	*50*
4-Bromofluorobenzene	*103*		*60 - 130*	*12/16/24 13:18*	*12/22/24 05:13*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**50**		10		mg/Kg	☼	12/23/24 07:01	12/27/24 20:09	1
Oil Range Organics (C28-C36)	**46**		20		mg/Kg	☼	12/23/24 07:01	12/27/24 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*72*		*50 - 126*	*12/23/24 07:01*	*12/27/24 20:09*	*1*
2-Fluorobiphenyl (Surr)	*64*		*40 - 133*	*12/23/24 07:01*	*12/27/24 20:09*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61a (7.5-10)
Lab Sample ID: 500-261722-7
Date Collected: 12/16/24 14:37
Matrix: Solid
Date Received: 12/17/24 10:50
Percent Solids: 90.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	2.0		1.2		mg/Kg	☼	12/16/24 14:37	12/19/24 16:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*12/16/24 14:37*	*12/19/24 16:38*	*50*
4-Bromofluorobenzene	*103*		*60 - 130*	*12/16/24 14:37*	*12/19/24 16:38*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	150		8.9		mg/Kg	☼	12/23/24 07:01	12/27/24 20:38	1
Oil Range Organics (C28-C36)	180		18		mg/Kg	☼	12/23/24 07:01	12/27/24 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*79*		*50 - 126*	*12/23/24 07:01*	*12/27/24 20:38*	*1*
2-Fluorobiphenyl (Surr)	*72*		*40 - 133*	*12/23/24 07:01*	*12/27/24 20:38*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61a (17.5-20)
Lab Sample ID: 500-261722-8
Date Collected: 12/16/24 15:09
Matrix: Solid
Date Received: 12/17/24 10:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive (SW846 9034)	<50		50		mg/Kg		12/31/24 09:50	12/31/24 15:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 799835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261722-3	SB61d (25-27.5)	Total/NA	Solid	5035	

Analysis Batch: 801020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261722-3	SB61d (25-27.5)	Total/NA	Solid	8260D	799835
MB 500-801020/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-801020/4	Lab Control Sample	Total/NA	Solid	8260D	

GC VOA

Prep Batch: 799835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261722-1	SB61d (10-12.5)	Total/NA	Solid	5035	
500-261722-2	SB61d (17.5-20)	Total/NA	Solid	5035	
500-261722-3	SB61d (25-27.5)	Total/NA	Solid	5035	
500-261722-4	SB61e (7.5-10)	Total/NA	Solid	5035	
500-261722-5	SB61e (10-12.5)	Total/NA	Solid	5035	
500-261722-6	SB61e (22.5-25)	Total/NA	Solid	5035	
500-261722-7	SB61a (7.5-10)	Total/NA	Solid	5035	
500-261722-3 MS	SB61d (25-27.5)	Total/NA	Solid	5035	
500-261722-3 MSD	SB61d (25-27.5)	Total/NA	Solid	5035	

Analysis Batch: 800032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261722-1	SB61d (10-12.5)	Total/NA	Solid	8015D	799835
500-261722-2	SB61d (17.5-20)	Total/NA	Solid	8015D	799835
500-261722-4	SB61e (7.5-10)	Total/NA	Solid	8015D	799835
500-261722-5	SB61e (10-12.5)	Total/NA	Solid	8015D	799835
500-261722-7	SB61a (7.5-10)	Total/NA	Solid	8015D	799835
MB 500-800032/5	Method Blank	Total/NA	Solid	8015D	
LCS 500-800032/6	Lab Control Sample	Total/NA	Solid	8015D	

Analysis Batch: 800426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261722-3	SB61d (25-27.5)	Total/NA	Solid	8015D	799835
500-261722-6	SB61e (22.5-25)	Total/NA	Solid	8015D	799835
MB 500-800426/5	Method Blank	Total/NA	Solid	8015D	
LCS 500-800426/6	Lab Control Sample	Total/NA	Solid	8015D	
500-261722-3 MS	SB61d (25-27.5)	Total/NA	Solid	8015D	799835
500-261722-3 MSD	SB61d (25-27.5)	Total/NA	Solid	8015D	799835

GC Semi VOA

Prep Batch: 800508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261722-1	SB61d (10-12.5)	Total/NA	Solid	3541	
500-261722-2	SB61d (17.5-20)	Total/NA	Solid	3541	
500-261722-3	SB61d (25-27.5)	Total/NA	Solid	3541	
500-261722-4	SB61e (7.5-10)	Total/NA	Solid	3541	
500-261722-5	SB61e (10-12.5)	Total/NA	Solid	3541	
500-261722-6	SB61e (22.5-25)	Total/NA	Solid	3541	
500-261722-7	SB61a (7.5-10)	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 800508 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-800508/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-800508/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-261722-1 MS	SB61d (10-12.5)	Total/NA	Solid	3541	
500-261722-1 MSD	SB61d (10-12.5)	Total/NA	Solid	3541	

Analysis Batch: 800849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261722-1	SB61d (10-12.5)	Total/NA	Solid	8015D	800508
500-261722-4	SB61e (7.5-10)	Total/NA	Solid	8015D	800508
500-261722-6	SB61e (22.5-25)	Total/NA	Solid	8015D	800508
500-261722-7	SB61a (7.5-10)	Total/NA	Solid	8015D	800508
MB 500-800508/1-A	Method Blank	Total/NA	Solid	8015D	800508
LCS 500-800508/2-A	Lab Control Sample	Total/NA	Solid	8015D	800508
500-261722-1 MS	SB61d (10-12.5)	Total/NA	Solid	8015D	800508
500-261722-1 MSD	SB61d (10-12.5)	Total/NA	Solid	8015D	800508

Analysis Batch: 801022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261722-2	SB61d (17.5-20)	Total/NA	Solid	8015D	800508
500-261722-3	SB61d (25-27.5)	Total/NA	Solid	8015D	800508
500-261722-5	SB61e (10-12.5)	Total/NA	Solid	8015D	800508

General Chemistry

Analysis Batch: 800766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261722-1	SB61d (10-12.5)	Total/NA	Solid	Moisture	
500-261722-2	SB61d (17.5-20)	Total/NA	Solid	Moisture	
500-261722-3	SB61d (25-27.5)	Total/NA	Solid	Moisture	
500-261722-4	SB61e (7.5-10)	Total/NA	Solid	Moisture	
500-261722-5	SB61e (10-12.5)	Total/NA	Solid	Moisture	
500-261722-6	SB61e (22.5-25)	Total/NA	Solid	Moisture	
500-261722-7	SB61a (7.5-10)	Total/NA	Solid	Moisture	
500-261722-8	SB61a (17.5-20)	Total/NA	Solid	Moisture	
500-261722-6 DU	SB61e (22.5-25)	Total/NA	Solid	Moisture	

Analysis Batch: 801423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261722-8	SB61a (17.5-20)	Total/NA	Solid	9034	801558
MB 500-801558/1-A	Method Blank	Total/NA	Solid	9034	801558
LCS 500-801558/2-A	Lab Control Sample	Total/NA	Solid	9034	801558

Prep Batch: 801558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261722-8	SB61a (17.5-20)	Total/NA	Solid	7.3.4	
MB 500-801558/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 500-801558/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-126)	(75-120)	(72-124)	(75-120)
500-261722-3	SB61d (25-27.5)	115	104	95	105
LCS 500-801020/4	Lab Control Sample	110	100	89	109
MB 500-801020/7	Method Blank	119	106	99	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-261722-1	SB61d (10-12.5)	102	105
500-261722-2	SB61d (17.5-20)	94	103
500-261722-3	SB61d (25-27.5)	99	104
500-261722-3 MS	SB61d (25-27.5)	103	104
500-261722-3 MSD	SB61d (25-27.5)	103	103
500-261722-4	SB61e (7.5-10)	100	102
500-261722-5	SB61e (10-12.5)	98	105
500-261722-6	SB61e (22.5-25)	99	103
500-261722-7	SB61a (7.5-10)	98	103
LCS 500-800032/6	Lab Control Sample	103	106
LCS 500-800426/6	Lab Control Sample	104	106
MB 500-800032/5	Method Blank	100	107
MB 500-800426/5	Method Blank	101	106

Surrogate Legend

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-261722-1	SB61d (10-12.5)	79	74
500-261722-1 MS	SB61d (10-12.5)	82	75
500-261722-1 MSD	SB61d (10-12.5)	87	81
500-261722-2	SB61d (17.5-20)	0 S1-	0 S1-
500-261722-3	SB61d (25-27.5)	76	60
500-261722-4	SB61e (7.5-10)	82	81
500-261722-5	SB61e (10-12.5)	0 S1-	0 S1-
500-261722-6	SB61e (22.5-25)	72	64
500-261722-7	SB61a (7.5-10)	79	72
LCS 500-800508/2-A	Lab Control Sample	78	78
MB 500-800508/1-A	Method Blank	74	46

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-801020/7
Matrix: Solid
Analysis Batch: 801020

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00025		0.00025		mg/Kg			12/30/24 11:15	1
Toluene	<0.00025		0.00025		mg/Kg			12/30/24 11:15	1
Ethylbenzene	<0.00025		0.00025		mg/Kg			12/30/24 11:15	1
Xylenes, Total	<0.00050		0.00050		mg/Kg			12/30/24 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*75 - 126*		*12/30/24 11:15*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*12/30/24 11:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*12/30/24 11:15*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 120*		*12/30/24 11:15*	*1*

Lab Sample ID: LCS 500-801020/4
Matrix: Solid
Analysis Batch: 801020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0430		mg/Kg		86	70 - 120
Toluene	0.0500	0.0451		mg/Kg		90	70 - 125
Ethylbenzene	0.0500	0.0470		mg/Kg		94	70 - 123
Xylenes, Total	0.100	0.0933		mg/Kg		93	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*
Toluene-d8 (Surr)	*100*		*75 - 120*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*
Dibromofluoromethane (Surr)	*109*		*75 - 120*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 500-261722-3 MS
Matrix: Solid
Analysis Batch: 800426

Client Sample ID: SB61d (25-27.5)
Prep Type: Total/NA
Prep Batch: 799835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	8.0		54.2	60.4		mg/Kg	☼	97	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*103*		*70 - 130*
4-Bromofluorobenzene	*104*		*60 - 130*

Lab Sample ID: 500-261722-3 MSD
Matrix: Solid
Analysis Batch: 800426

Client Sample ID: SB61d (25-27.5)
Prep Type: Total/NA
Prep Batch: 799835

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C6-C9)	8.0		54.2	62.1		mg/Kg	☼	100	70 - 130	3	30

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 500-261722-3 MSD
Matrix: Solid
Analysis Batch: 800426

Client Sample ID: SB61d (25-27.5)
Prep Type: Total/NA
Prep Batch: 799835

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene	103		70 - 130
4-Bromofluorobenzene	103		60 - 130

Lab Sample ID: MB 500-800032/5
Matrix: Solid
Analysis Batch: 800032

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			12/19/24 06:30	50

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		70 - 130		12/19/24 06:30	50
4-Bromofluorobenzene	107		60 - 130		12/19/24 06:30	50

Lab Sample ID: LCS 500-800032/6
Matrix: Solid
Analysis Batch: 800032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			19.9	18.4		mg/Kg		93	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	103		70 - 130
4-Bromofluorobenzene	106		60 - 130

Lab Sample ID: MB 500-800426/5
Matrix: Solid
Analysis Batch: 800426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg			12/22/24 02:15	50

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		70 - 130		12/22/24 02:15	50
4-Bromofluorobenzene	106		60 - 130		12/22/24 02:15	50

Lab Sample ID: LCS 500-800426/6
Matrix: Solid
Analysis Batch: 800426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			19.9	19.0		mg/Kg		95	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	104		70 - 130
4-Bromofluorobenzene	106		60 - 130

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-800508/1-A
Matrix: Solid
Analysis Batch: 800849

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 800508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		12/23/24 07:01	12/27/24 14:25	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		12/23/24 07:01	12/27/24 14:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*50 - 126*	*12/23/24 07:01*	*12/27/24 14:25*	*1*
2-Fluorobiphenyl (Surr)	*46*		*40 - 133*	*12/23/24 07:01*	*12/27/24 14:25*	*1*

Lab Sample ID: LCS 500-800508/2-A
Matrix: Solid
Analysis Batch: 800849

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 800508

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	49.6		mg/Kg		74	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*78*		*50 - 126*
2-Fluorobiphenyl (Surr)	*78*		*40 - 133*

Lab Sample ID: 500-261722-1 MS
Matrix: Solid
Analysis Batch: 800849

Client Sample ID: SB61d (10-12.5)
Prep Type: Total/NA
Prep Batch: 800508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	400	F2	75.8	376	4	mg/Kg	☼	-28	60 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*82*		*50 - 126*
2-Fluorobiphenyl (Surr)	*75*		*40 - 133*

Lab Sample ID: 500-261722-1 MSD
Matrix: Solid
Analysis Batch: 800849

Client Sample ID: SB61d (10-12.5)
Prep Type: Total/NA
Prep Batch: 800508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	400	F2	77.2	743	4 F2	mg/Kg	☼	447	60 - 125	65	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*87*		*50 - 126*
2-Fluorobiphenyl (Surr)	*81*		*40 - 133*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 500-801558/1-A
Matrix: Solid
Analysis Batch: 801423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 801558

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	<50		50		mg/Kg		12/31/24 09:50	12/31/24 15:47	1

Lab Sample ID: LCS 500-801558/2-A
Matrix: Solid
Analysis Batch: 801423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 801558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	93.9	83.2		mg/Kg		89	70 - 130

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261722-1

Client Sample ID: SB61d (10-12.5)
Date Collected: 12/16/24 10:08
Date Received: 12/17/24 10:50

Lab Sample ID: 500-261722-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800766	ER	EET CHI	12/26/24 13:50

Client Sample ID: SB61d (10-12.5)
Date Collected: 12/16/24 10:08
Date Received: 12/17/24 10:50

Lab Sample ID: 500-261722-1
Matrix: Solid
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799835	WRE	EET CHI	12/16/24 10:08
Total/NA	Analysis	8015D		50	800032	WRE	EET CHI	12/19/24 11:16
Total/NA	Prep	3541			800508	SV	EET CHI	12/23/24 07:01 - 12/23/24 13:30 [1]
Total/NA	Analysis	8015D		5	800849	SB	EET CHI	12/27/24 16:49

Client Sample ID: SB61d (17.5-20)
Date Collected: 12/16/24 10:33
Date Received: 12/17/24 10:50

Lab Sample ID: 500-261722-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800766	ER	EET CHI	12/26/24 13:50

Client Sample ID: SB61d (17.5-20)
Date Collected: 12/16/24 10:33
Date Received: 12/17/24 10:50

Lab Sample ID: 500-261722-2
Matrix: Solid
Percent Solids: 46.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799835	WRE	EET CHI	12/16/24 10:33
Total/NA	Analysis	8015D		50	800032	WRE	EET CHI	12/19/24 13:03
Total/NA	Prep	3541			800508	SV	EET CHI	12/23/24 07:01 - 12/23/24 13:30 [1]
Total/NA	Analysis	8015D		25	801022	SB	EET CHI	12/30/24 10:27

Client Sample ID: SB61d (25-27.5)
Date Collected: 12/16/24 11:17
Date Received: 12/17/24 10:50

Lab Sample ID: 500-261722-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800766	ER	EET CHI	12/26/24 13:50

Client Sample ID: SB61d (25-27.5)
Date Collected: 12/16/24 11:17
Date Received: 12/17/24 10:50

Lab Sample ID: 500-261722-3
Matrix: Solid
Percent Solids: 49.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799835	WRE	EET CHI	12/16/24 11:17
Total/NA	Analysis	8260D		50	801020	PMF	EET CHI	12/30/24 12:30
Total/NA	Prep	5035			799835	WRE	EET CHI	12/16/24 11:17
Total/NA	Analysis	8015D		50	800426	WRE	EET CHI	12/22/24 03:26

Client Sample ID: SB61d (25-27.5)

Lab Sample ID: 500-261722-3
Date Collected: 12/16/24 11:17
Matrix: Solid
Date Received: 12/17/24 10:50
Percent Solids: 49.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3541			800508	SV	EET CHI	12/23/24 07:01 - 12/23/24 13:30 [1]
Total/NA	Analysis	8015D		10	801022	SB	EET CHI	12/30/24 10:56

Client Sample ID: SB61e (7.5-10)

Lab Sample ID: 500-261722-4
Date Collected: 12/16/24 12:39
Matrix: Solid
Date Received: 12/17/24 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800766	ER	EET CHI	12/26/24 13:50

Client Sample ID: SB61e (7.5-10)

Lab Sample ID: 500-261722-4
Date Collected: 12/16/24 12:39
Matrix: Solid
Date Received: 12/17/24 10:50
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799835	WRE	EET CHI	12/16/24 12:39
Total/NA	Analysis	8015D		50	800032	WRE	EET CHI	12/19/24 14:15
Total/NA	Prep	3541			800508	SV	EET CHI	12/23/24 07:01 - 12/23/24 13:30 [1]
Total/NA	Analysis	8015D		1	800849	SB	EET CHI	12/27/24 19:12

Client Sample ID: SB61e (10-12.5)

Lab Sample ID: 500-261722-5
Date Collected: 12/16/24 12:55
Matrix: Solid
Date Received: 12/17/24 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800766	ER	EET CHI	12/26/24 13:50

Client Sample ID: SB61e (10-12.5)

Lab Sample ID: 500-261722-5
Date Collected: 12/16/24 12:55
Matrix: Solid
Date Received: 12/17/24 10:50
Percent Solids: 56.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799835	WRE	EET CHI	12/16/24 12:55
Total/NA	Analysis	8015D		500	800032	WRE	EET CHI	12/19/24 14:51
Total/NA	Prep	3541			800508	SV	EET CHI	12/23/24 07:01 - 12/23/24 13:30 [1]
Total/NA	Analysis	8015D		200	801022	SB	EET CHI	12/30/24 11:25

Client Sample ID: SB61e (22.5-25)

Lab Sample ID: 500-261722-6
Date Collected: 12/16/24 13:18
Matrix: Solid
Date Received: 12/17/24 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800766	ER	EET CHI	12/26/24 13:50

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261722-1

Client Sample ID: SB61e (22.5-25)

Lab Sample ID: 500-261722-6
Date Collected: 12/16/24 13:18
Matrix: Solid
Date Received: 12/17/24 10:50
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799835	WRE	EET CHI	12/16/24 13:18
Total/NA	Analysis	8015D		50	800426	WRE	EET CHI	12/22/24 05:13
Total/NA	Prep	3541			800508	SV	EET CHI	12/23/24 07:01 - 12/23/24 13:30 [1]
Total/NA	Analysis	8015D		1	800849	SB	EET CHI	12/27/24 20:09

Client Sample ID: SB61a (7.5-10)

Lab Sample ID: 500-261722-7
Date Collected: 12/16/24 14:37
Matrix: Solid
Date Received: 12/17/24 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800766	ER	EET CHI	12/26/24 13:50

Client Sample ID: SB61a (7.5-10)

Lab Sample ID: 500-261722-7
Date Collected: 12/16/24 14:37
Matrix: Solid
Date Received: 12/17/24 10:50
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			799835	WRE	EET CHI	12/16/24 14:37
Total/NA	Analysis	8015D		50	800032	WRE	EET CHI	12/19/24 16:38
Total/NA	Prep	3541			800508	SV	EET CHI	12/23/24 07:01 - 12/23/24 13:30 [1]
Total/NA	Analysis	8015D		1	800849	SB	EET CHI	12/27/24 20:38

Client Sample ID: SB61a (17.5-20)

Lab Sample ID: 500-261722-8
Date Collected: 12/16/24 15:09
Matrix: Solid
Date Received: 12/17/24 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			801558	TR	EET CHI	12/31/24 09:50
Total/NA	Analysis	9034		1	801423	LP	EET CHI	12/31/24 15:47
Total/NA	Analysis	Moisture		1	800766	ER	EET CHI	12/26/24 13:50

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261722-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
9034	7.3.4	Solid	Sulfide, Reactive
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone 708-534-5200 Fax 708-534-5211

MKE 232

Chain of Custody Record

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Client Information	Sampler: JIM	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500 131397 51411 4
Client Contact: Jake Hartsock	Phone:	E-Mail: Jim Knapp@et eurofinsus com	State of Origin:	Page: Page 1 of 2
Company: Pioneer Engineering & Environmental Srvc	PWSID:			Job #: 500-261722
Address: 2753 W 31st Street	Due Date Requested:			
City: Chicago	TAT Requested (days): 10 DAY *(7 DAY SURFINE)			
State, Zip: IL, 60608	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: jhartsock@pioneerees com	WO #:			
Project Name: 8080 District (24 0124-103)	Project #: 50023681			
Site:	SSOW#:			

500-261722 COC

Analysis Requested

Preservation Codes:

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TPH	HOLD TPH	REACTIVE SURFINE	BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
1 SBG1 d (10-12.5)	12/16/24	1008	G	Solid				X				
2 SBG1 d (17.5-20)		1033		Solid			X					
3 SBG1 d (25-27.5)		1117		Solid				X		X		
4 SBG1 e (7.5-10)		1239		Solid				X				
5 SBG1 e (10-12.5)		1255		Solid			X					
6 SBG1 e (22.5-25)		118		Solid				X				
7 SBG1 a (7.5-10)		237		Solid				X				
~~SBG1 a (10-12.5)~~				Solid			X					
8 SBG1 a (17.5-20)		309		Solid					X			
~~SBG1 a~~				Solid			X					
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time: 12/17/24	Company	Received by:	Date/Time: 12/17/24 0910	Company: EETA
Relinquished by:	Date/Time: 12/17/24 1090	Company: EETA	Received by:	Date/Time: 12/17/24 1050	Company: EETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks: 2.3-1.9

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-261722-1

Login Number: 261722
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 1/3/2025 5:45:05 PM Revision 1

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-261797-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

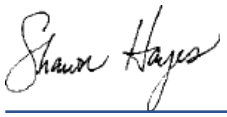
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Revision 1

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Job ID: 500-261797-1 — Eurofins Chicago

Job Narrative
500-261797-1

Revision
The report being provided is a revision of the original report sent on 12/31/2024. The report (revision 1) is being revised due to: to correct the reactive sulfide result that was off by a factor or 10X..

Receipt
The samples were received on 12/18/24 13:15. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6º C.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10a (3-5) — Lab Sample ID: 500-261797-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.11		0.034		mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.16		0.034		mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.68		0.034		mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.67		0.034		mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.5		0.034		mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.51		0.034		mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.58		0.034		mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.86		0.034		mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.18		0.034		mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	1.1		0.034		mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.61		0.034		mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.45		0.034		mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.81		0.034		mg/Kg	1	☼	8270E	Total/NA

Client Sample ID: SB10a (7.5-10) — Lab Sample ID: 500-261797-2

No Detections.

Client Sample ID: SB10b (5-7.5) — Lab Sample ID: 500-261797-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.063		0.039		mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.17		0.039		mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	1.5		0.039		mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	2.4		0.039		mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	4.6		0.039		mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1.4		0.039		mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	2.0		0.039		mg/Kg	1	☼	8270E	Total/NA
Chrysene	1.4		0.039		mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.43		0.039		mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	2.0		0.039		mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.1		0.039		mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.051		0.039		mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.36		0.039		mg/Kg	1	☼	8270E	Total/NA
Pyrene	1.8		0.039		mg/Kg	1	☼	8270E	Total/NA

Client Sample ID: SB10c (5-7.5) — Lab Sample ID: 500-261797-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.067		0.040		mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.046		0.040		mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.15		0.040		mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.087		0.040		mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.15		0.040		mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.059		0.040		mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.056		0.040		mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.21		0.040		mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.27		0.040		mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.12		0.040		mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	1.2		0.040		mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.22		0.040		mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10d (5-7.5) — Lab Sample ID: 500-261797-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.042		0.037		mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.080		0.037		mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.073		0.037		mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.055		0.037		mg/Kg	1	☼	8270E	Total/NA

Client Sample ID: SB10e (5-7.5) — Lab Sample ID: 500-261797-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.043		0.033		mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.065		0.033		mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.34		0.033		mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.29		0.033		mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.64		0.033		mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.18		0.033		mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.21		0.033		mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.51		0.033		mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.092		0.033		mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.49		0.033		mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.22		0.033		mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.10		0.033		mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	1.3		0.033		mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.36		0.033		mg/Kg	1	☼	8270E	Total/NA

Client Sample ID: SB10a (0-3) — Lab Sample ID: 500-261797-16

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
9034	Sulfide, Reactive	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3546	Microwave Extraction	SW846	EET CHI
7.3.4	Sulfide, Reactive	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261797-1	SB10a (3-5)	Solid	12/17/24 09:01	12/18/24 13:15
500-261797-2	SB10a (7.5-10)	Solid	12/17/24 09:10	12/18/24 13:15
500-261797-5	SB10b (5-7.5)	Solid	12/17/24 10:00	12/18/24 13:15
500-261797-8	SB10c (5-7.5)	Solid	12/17/24 11:09	12/18/24 13:15
500-261797-11	SB10d (5-7.5)	Solid	12/17/24 12:45	12/18/24 13:15
500-261797-14	SB10e (5-7.5)	Solid	12/17/24 13:35	12/18/24 13:15
500-261797-16	SB10a (0-3)	Solid	12/17/24 13:30	12/18/24 13:15

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261797-1

Client Sample ID: SB10a (3-5)
Date Collected: 12/17/24 09:01
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-1
Matrix: Solid
Percent Solids: 94.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Acenaphthylene	**0.11**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Anthracene	**0.16**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Benzo[a]anthracene	**0.68**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Benzo[a]pyrene	**0.67**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Benzo[b]fluoranthene	**1.5**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Benzo[g,h,i]perylene	**0.51**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Benzo[k]fluoranthene	**0.58**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Chrysene	**0.86**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Dibenz(a,h)anthracene	**0.18**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Fluoranthene	**1.1**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Indeno[1,2,3-cd]pyrene	**0.61**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Naphthalene	<0.034		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Phenanthrene	**0.45**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Pyrene	**0.81**		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1
Fluorene	<0.034		0.034		mg/Kg	☼	12/20/24 15:17	12/23/24 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*	*12/20/24 15:17*	*12/23/24 17:59*	*1*
2-Fluorobiphenyl (Surr)	*85*		*43 - 145*	*12/20/24 15:17*	*12/23/24 17:59*	*1*
Terphenyl-d14 (Surr)	*89*		*42 - 157*	*12/20/24 15:17*	*12/23/24 17:59*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10a (7.5-10)
Lab Sample ID: 500-261797-2
Date Collected: 12/17/24 09:10
Matrix: Solid
Date Received: 12/18/24 13:15
Percent Solids: 92.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Acenaphthylene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Anthracene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Benzo[a]anthracene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Benzo[a]pyrene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Benzo[b]fluoranthene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Benzo[g,h,i]perylene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Benzo[k]fluoranthene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Chrysene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Dibenz(a,h)anthracene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Fluoranthene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Naphthalene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Phenanthrene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Pyrene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1
Fluorene	<0.035		0.035		mg/Kg	☼	12/20/24 15:17	12/23/24 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*90*		*37 - 147*	*12/20/24 15:17*	*12/23/24 18:23*	*1*
2-Fluorobiphenyl (Surr)	*93*		*43 - 145*	*12/20/24 15:17*	*12/23/24 18:23*	*1*
Terphenyl-d14 (Surr)	*94*		*42 - 157*	*12/20/24 15:17*	*12/23/24 18:23*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10b (5-7.5)
Lab Sample ID: 500-261797-5
Date Collected: 12/17/24 10:00
Matrix: Solid
Date Received: 12/18/24 13:15
Percent Solids: 81.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Acenaphthylene	**0.063**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Anthracene	**0.17**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Benzo[a]anthracene	**1.5**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Benzo[a]pyrene	**2.4**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Benzo[b]fluoranthene	**4.6**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Benzo[g,h,i]perylene	**1.4**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Benzo[k]fluoranthene	**2.0**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Chrysene	**1.4**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Dibenz(a,h)anthracene	**0.43**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Fluoranthene	**2.0**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Indeno[1,2,3-cd]pyrene	**2.1**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Naphthalene	**0.051**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Phenanthrene	**0.36**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Pyrene	**1.8**		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1
Fluorene	<0.039		0.039		mg/Kg	☼	12/20/24 15:17	12/23/24 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*12/20/24 15:17*	*12/23/24 18:47*	*1*
2-Fluorobiphenyl (Surr)	*80*		*43 - 145*	*12/20/24 15:17*	*12/23/24 18:47*	*1*
Terphenyl-d14 (Surr)	*80*		*42 - 157*	*12/20/24 15:17*	*12/23/24 18:47*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10c (5-7.5)
Lab Sample ID: 500-261797-8
Date Collected: 12/17/24 11:09
Matrix: Solid
Date Received: 12/18/24 13:15
Percent Solids: 80.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Acenaphthylene	**0.067**		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Anthracene	**0.046**		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Benzo[a]anthracene	**0.15**		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Benzo[a]pyrene	**0.087**		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Benzo[b]fluoranthene	**0.15**		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Benzo[g,h,i]perylene	**0.059**		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Benzo[k]fluoranthene	**0.056**		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Chrysene	**0.21**		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Dibenz(a,h)anthracene	<0.040		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Fluoranthene	**0.27**		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Naphthalene	**0.12**		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Phenanthrene	**1.2**		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Pyrene	**0.22**		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1
Fluorene	<0.040		0.040		mg/Kg	☼	12/20/24 15:17	12/23/24 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*12/20/24 15:17*	*12/23/24 19:11*	*1*
2-Fluorobiphenyl (Surr)	*82*		*43 - 145*	*12/20/24 15:17*	*12/23/24 19:11*	*1*
Terphenyl-d14 (Surr)	*75*		*42 - 157*	*12/20/24 15:17*	*12/23/24 19:11*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10d (5-7.5)
Lab Sample ID: 500-261797-11
Date Collected: 12/17/24 12:45
Matrix: Solid
Date Received: 12/18/24 13:15
Percent Solids: 89.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Acenaphthylene	<0.037		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Anthracene	<0.037		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Benzo[a]anthracene	<0.037		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Benzo[a]pyrene	<0.037		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Benzo[b]fluoranthene	**0.042**		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Benzo[g,h,i]perylene	<0.037		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Benzo[k]fluoranthene	<0.037		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Chrysene	<0.037		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Dibenz(a,h)anthracene	<0.037		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Fluoranthene	**0.080**		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Naphthalene	<0.037		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Phenanthrene	**0.073**		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Pyrene	**0.055**		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1
Fluorene	<0.037		0.037		mg/Kg	☼	12/20/24 15:17	12/23/24 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*87*		*37 - 147*	*12/20/24 15:17*	*12/23/24 19:35*	*1*
2-Fluorobiphenyl (Surr)	*91*		*43 - 145*	*12/20/24 15:17*	*12/23/24 19:35*	*1*
Terphenyl-d14 (Surr)	*92*		*42 - 157*	*12/20/24 15:17*	*12/23/24 19:35*	*1*

Client Sample ID: SB10e (5-7.5)
Lab Sample ID: 500-261797-14
Date Collected: 12/17/24 13:35
Matrix: Solid
Date Received: 12/18/24 13:15
Percent Solids: 83.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Acenaphthylene	**0.043**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Anthracene	**0.065**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Benzo[a]anthracene	**0.34**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Benzo[a]pyrene	**0.29**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Benzo[b]fluoranthene	**0.64**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Benzo[g,h,i]perylene	**0.18**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Benzo[k]fluoranthene	**0.21**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Chrysene	**0.51**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Dibenz(a,h)anthracene	**0.092**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Fluoranthene	**0.49**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Indeno[1,2,3-cd]pyrene	**0.22**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Naphthalene	**0.10**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Phenanthrene	**1.3**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Pyrene	**0.36**		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1
Fluorene	<0.033		0.033		mg/Kg	☼	12/20/24 15:17	12/23/24 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*85*		*37 - 147*	*12/20/24 15:17*	*12/23/24 19:59*	*1*
2-Fluorobiphenyl (Surr)	*92*		*43 - 145*	*12/20/24 15:17*	*12/23/24 19:59*	*1*
Terphenyl-d14 (Surr)	*90*		*42 - 157*	*12/20/24 15:17*	*12/23/24 19:59*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10a (0-3)
Lab Sample ID: 500-261797-16
Date Collected: 12/17/24 13:30
Matrix: Solid
Date Received: 12/18/24 13:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive (SW846 9034)	<47		47		mg/Kg		12/31/24 09:50	12/31/24 15:47	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

GC/MS Semi VOA

Prep Batch: 800403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261797-1	SB10a (3-5)	Total/NA	Solid	3546	
500-261797-2	SB10a (7.5-10)	Total/NA	Solid	3546	
500-261797-5	SB10b (5-7.5)	Total/NA	Solid	3546	
500-261797-8	SB10c (5-7.5)	Total/NA	Solid	3546	
500-261797-11	SB10d (5-7.5)	Total/NA	Solid	3546	
500-261797-14	SB10e (5-7.5)	Total/NA	Solid	3546	
MB 500-800403/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-800403/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 800575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261797-1	SB10a (3-5)	Total/NA	Solid	8270E	800403
500-261797-2	SB10a (7.5-10)	Total/NA	Solid	8270E	800403
500-261797-5	SB10b (5-7.5)	Total/NA	Solid	8270E	800403
500-261797-8	SB10c (5-7.5)	Total/NA	Solid	8270E	800403
500-261797-11	SB10d (5-7.5)	Total/NA	Solid	8270E	800403
500-261797-14	SB10e (5-7.5)	Total/NA	Solid	8270E	800403
MB 500-800403/1-A	Method Blank	Total/NA	Solid	8270E	800403
LCS 500-800403/2-A	Lab Control Sample	Total/NA	Solid	8270E	800403

General Chemistry

Analysis Batch: 800725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261797-1	SB10a (3-5)	Total/NA	Solid	Moisture	
500-261797-2	SB10a (7.5-10)	Total/NA	Solid	Moisture	
500-261797-5	SB10b (5-7.5)	Total/NA	Solid	Moisture	
500-261797-8	SB10c (5-7.5)	Total/NA	Solid	Moisture	
500-261797-11	SB10d (5-7.5)	Total/NA	Solid	Moisture	
500-261797-14	SB10e (5-7.5)	Total/NA	Solid	Moisture	
500-261797-16	SB10a (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 801423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261797-16	SB10a (0-3)	Total/NA	Solid	9034	801558
MB 500-801558/1-A	Method Blank	Total/NA	Solid	9034	801558
LCS 500-801558/2-A	Lab Control Sample	Total/NA	Solid	9034	801558

Prep Batch: 801558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261797-16	SB10a (0-3)	Total/NA	Solid	7.3.4	
MB 500-801558/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 500-801558/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		NBZ	FBP	TPHL						
Lab Sample ID	Client Sample ID	(37-147)	(43-145)	(42-157)						
500-261797-1	SB10a (3-5)	83	85	89						
500-261797-2	SB10a (7.5-10)	90	93	94						
500-261797-5	SB10b (5-7.5)	76	80	80						
500-261797-8	SB10c (5-7.5)	76	82	75						
500-261797-11	SB10d (5-7.5)	87	91	92						
500-261797-14	SB10e (5-7.5)	85	92	90						
LCS 500-800403/2-A	Lab Control Sample	91	91	110						
MB 500-800403/1-A	Method Blank	88	89	109						

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-800403/1-A
Matrix: Solid
Analysis Batch: 800575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 800403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Acenaphthylene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Anthracene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Benzo[a]anthracene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Benzo[a]pyrene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Benzo[b]fluoranthene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Benzo[g,h,i]perylene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Benzo[k]fluoranthene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Chrysene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Dibenz(a,h)anthracene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Fluoranthene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Naphthalene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Phenanthrene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Pyrene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1
Fluorene	<0.033		0.033		mg/Kg		12/20/24 15:17	12/23/24 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*88*		*37 - 147*	*12/20/24 15:17*	*12/23/24 12:47*	*1*
2-Fluorobiphenyl (Surr)	*89*		*43 - 145*	*12/20/24 15:17*	*12/23/24 12:47*	*1*
Terphenyl-d14 (Surr)	*109*		*42 - 157*	*12/20/24 15:17*	*12/23/24 12:47*	*1*

Lab Sample ID: LCS 500-800403/2-A
Matrix: Solid
Analysis Batch: 800575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 800403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	3.00		mg/Kg		90	63 - 109
Acenaphthylene	3.33	3.11		mg/Kg		93	61 - 115
Anthracene	3.33	3.09		mg/Kg		93	68 - 120
Benzo[a]anthracene	3.33	3.34		mg/Kg		100	70 - 121
Benzo[a]pyrene	3.33	3.73		mg/Kg		112	73 - 132
Benzo[b]fluoranthene	3.33	3.67		mg/Kg		110	68 - 123
Benzo[g,h,i]perylene	3.33	3.86		mg/Kg		116	65 - 126
Benzo[k]fluoranthene	3.33	3.54		mg/Kg		106	64 - 128
Chrysene	3.33	3.32		mg/Kg		100	70 - 123
Dibenz(a,h)anthracene	3.33	4.03		mg/Kg		121	66 - 125
Fluoranthene	3.33	2.88		mg/Kg		86	66 - 123
Indeno[1,2,3-cd]pyrene	3.33	3.91		mg/Kg		117	66 - 131
Naphthalene	3.33	3.02		mg/Kg		91	54 - 98
Phenanthrene	3.33	2.97		mg/Kg		89	65 - 115
Pyrene	3.33	3.85		mg/Kg		116	71 - 128
Fluorene	3.33	2.87		mg/Kg		86	62 - 113

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*91*		*37 - 147*
2-Fluorobiphenyl (Surr)	*91*		*43 - 145*
Terphenyl-d14 (Surr)	*110*		*42 - 157*

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 500-801558/1-A
Matrix: Solid
Analysis Batch: 801423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 801558

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	<50		50		mg/Kg		12/31/24 09:50	12/31/24 15:47	1

Lab Sample ID: LCS 500-801558/2-A
Matrix: Solid
Analysis Batch: 801423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 801558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	93.9	83.2		mg/Kg		89	70 - 130

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261797-1

Client Sample ID: SB10a (3-5)
Date Collected: 12/17/24 09:01
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800725	ER	EET CHI	12/26/24 10:43

Client Sample ID: SB10a (3-5)
Date Collected: 12/17/24 09:01
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-1
Matrix: Solid
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			800403	LH	EET CHI	12/20/24 15:17
Total/NA	Analysis	8270E		1	800575	W1T	EET CHI	12/23/24 17:59

Client Sample ID: SB10a (7.5-10)
Date Collected: 12/17/24 09:10
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800725	ER	EET CHI	12/26/24 10:43

Client Sample ID: SB10a (7.5-10)
Date Collected: 12/17/24 09:10
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-2
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			800403	LH	EET CHI	12/20/24 15:17
Total/NA	Analysis	8270E		1	800575	W1T	EET CHI	12/23/24 18:23

Client Sample ID: SB10b (5-7.5)
Date Collected: 12/17/24 10:00
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800725	ER	EET CHI	12/26/24 10:43

Client Sample ID: SB10b (5-7.5)
Date Collected: 12/17/24 10:00
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-5
Matrix: Solid
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			800403	LH	EET CHI	12/20/24 15:17
Total/NA	Analysis	8270E		1	800575	W1T	EET CHI	12/23/24 18:47

Client Sample ID: SB10c (5-7.5)
Date Collected: 12/17/24 11:09
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800725	ER	EET CHI	12/26/24 10:43

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261797-1

Client Sample ID: SB10c (5-7.5)
Date Collected: 12/17/24 11:09
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-8
Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			800403	LH	EET CHI	12/20/24 15:17
Total/NA	Analysis	8270E		1	800575	W1T	EET CHI	12/23/24 19:11

Client Sample ID: SB10d (5-7.5)
Date Collected: 12/17/24 12:45
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800725	ER	EET CHI	12/26/24 10:43

Client Sample ID: SB10d (5-7.5)
Date Collected: 12/17/24 12:45
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-11
Matrix: Solid
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			800403	LH	EET CHI	12/20/24 15:17
Total/NA	Analysis	8270E		1	800575	W1T	EET CHI	12/23/24 19:35

Client Sample ID: SB10e (5-7.5)
Date Collected: 12/17/24 13:35
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	800725	ER	EET CHI	12/26/24 10:43

Client Sample ID: SB10e (5-7.5)
Date Collected: 12/17/24 13:35
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-14
Matrix: Solid
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			800403	LH	EET CHI	12/20/24 15:17
Total/NA	Analysis	8270E		1	800575	W1T	EET CHI	12/23/24 19:59

Client Sample ID: SB10a (0-3)
Date Collected: 12/17/24 13:30
Date Received: 12/18/24 13:15

Lab Sample ID: 500-261797-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			801558	TR	EET CHI	12/31/24 09:50
Total/NA	Analysis	9034		1	801423	LP	EET CHI	12/31/24 15:47
Total/NA	Analysis	Moisture		1	800725	ER	EET CHI	12/26/24 10:43

Laboratory References:
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261797-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9034	7.3.4	Solid	Sulfide, Reactive
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone 708-534-5200 Fax 708-534-5211

MKE 232

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JM	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-131397-51411 3
Client Contact: Jake Hartsock	Phone:	E-Mail: Jim Knapp@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Pioneer Engineering & Environmental Srvc	PWSID:	Analysis Requested		Job #: 500-261797
Address: 2753 W 31st Street	Due Date Requested: 5 DAY			Preservation Codes:
City: Chicago	TAT Requested (days): 7 DAY SUCHAR			
State, Zip: IL, 60608	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: jhartsock@pioneerees com	WO #:			Other:
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

500-261797 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PNAs	HOLD	REACTIVE SULFIDE	Total Number of containers	Special Instructions/Note.
		Preservation Code:									
1 SB10a (3-5)	12/17/24	901	G	Solid			X				
2 SB10a (7.5-10)		910		Solid			X				
3 SB10a (10-12.5)		917		Solid				X			
4 SB10b (3-5)		952		Solid				X			
5 SB10b (5-7.5)		1000		Solid			X				
6 SB10b (7.5-10)		1007		Solid				X			
7 SB10c (3-5)		1100		Solid				X			
8 SB10c (5-7.5)		1109		Solid			X				
9 SB10c (7.5-10)		1115		Solid				X			
10 SB10d (3-5)		1239		Solid				X			
11 SB10d (5-7.5)		1245		Solid			X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12/18/24	PIONEER		12/18/24 0910	EETA
2		12/18/24 1315	EETA		12/18/24 1315	EETA
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 0.9-0.6

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708 534-5200 Fax 708-534 5211

MKE 232

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: JIM	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-131397 51411 5
Client Contact: Jake Hartsock	Phone:	E-Mail: Jim Knapp@et.eurofinsus com	State of Origin:	Page: Page 5 of 24
Company: Pioneer Engineering & Environmental Srvc	PWSID:			Job #: 500-261797
Address: 2753 W 31st Street	Due Date Requested: 10 Day			
City: Chicago	TAT Requested (days): 7 SUCRATE			
State Zip: IL, 60608	Compliance Project Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: jhartsock@pioneerees com	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

Analysis Requested

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PNAS	HOCD	REACTIVE SUCRATE	Total Number of containers	Special Instructions/Note:
					Preservation Code:							
12	SB10d (7.5-10)	12/17/24	1249	G	Solid				X			
13	SB10e (3-5)	↓	130	↓	Solid				X			
14	SB10e (5-7.5)	↓	135	↓	Solid			X				
15	SB10e (7.5-10)	↓	139	↓	Solid				X			
16	SB10a (0-3)	↓	130	↓	Solid					X		
					Solid							
					Solid							
					Solid							
					Solid							
					Solid							
					Solid							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III, IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	12/18/24	PIONEER	[signature]	12/18/24 0910	EETA
[signature]	12/18/24 1315	EETA	[signature]	12/18/24 1315	EETA

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		0.9 → 0.6

Ver 10/10/2024

1/3/2025 (Rev. 1)

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-261797-1

Login Number: 261797
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

March 20, 2025

Pioneer Environmental Services LLC
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S. Lake Shore Drive
ABB0268

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/04/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Emily Ducote For Daniel Galeher
Project Manager

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Notes and Definitions

Item	Definition
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comment
H	Holding time for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Analysis Case Narrative

6010:
Sample ABB0268-02: G= Sample diluted due to interferences which resulted in elevated reporting limits for Antimony and Thallium.

Samples ABB0268-03, -05, and -06: G= Samples diluted due to interferences which resulted in elevated reporting limits for Thallium.

Sample ABB0268-02: S=The MS and the MSD percent recoveries for the following analytes were outside laboratory control limits (75% - 125%):

Antimony; 50%, 49%
Beryllium; 69%, 68%
Cadmium; 60%, 59%
Chromium; 47%, 52%
Cobalt; 62%, 62%
Lead; 59%, 59%
Nickel; 56%, 59%
Selenium; 68%, 69%
Thallium; 0%, 0%
Vanadium; 63%, 63%

Sample ABB0268-06: S=The MS percent recoveries for the following analytes were outside laboratory control limits (75% - 125%):

Lead; 74%
Selenium; 64%
Thallium; 0%

8270:
Sample ABB0268-01 was analyzed at a 10x dilution due to bad matrix. At this dilution, the surrogate spike was diluted to the lower end of the calibrated range and 5 out of the 6 surrogates recovered below the acceptance ranges.

Samples ABB0268-03, -05, and -06 were analyzed at a 5x dilution due to bad matrix.

8270 SIM:
Sample ABB0268-07 required dilutions for many of the compounds. The MS and MSD performed on this sample were spiked with amounts that were below the native sample concentration and therefore recovery cannot be accurately calculated.

8081:

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Pioneer Environmental Services LLC	Project:	Pioneer Environmental - General	
2753 West 31st Street	Project Number:	8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager:	Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample ABB0268-01: S=The MS and/or the MSD percent recoveries for the following analytes were outside laboratory control limits due to matrix interference:
gamma-BHC; 122%, 148% (Limit: 49% - 109%)
gamma-Chlordane; 34%, 33% (Limit: 43% - 113%)

8260:
The CCV in sequence SB00441 recovered outside control limit for several analytes. Corrective action: None, these analytes were either not detected in the associated samples or if detected were less than the Reporting Limit.

Samples ABB0268-01 through -06: S=The Blank Spike exceeded the upper acceptance limit for Chloromethane, resulting in a high bias. There were no detects in the samples.

Sample ABB0268-02: H = SPLP Cyanide was received past the holding time for the 1312 leaching procedure.

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB0268-01	SB120 (0-3)	Solid	02/03/2025 10:49	02/04/2025
ABB0268-01	SB120 (0-3)	Solid	02/03/2025 10:49	02/04/2025
ABB0268-02	SB121 (0-3)	Solid	02/03/2025 12:03	02/04/2025
ABB0268-02	SB121 (0-3)	Solid	02/03/2025 12:03	02/04/2025
ABB0268-03	SB122 (0-3)	Solid	02/03/2025 13:08	02/04/2025
ABB0268-03	SB122 (0-3)	Solid	02/03/2025 13:08	02/04/2025
ABB0268-04	SB122 (15-17.5)	Solid	02/03/2025 13:24	02/04/2025
ABB0268-04	SB122 (15-17.5)	Solid	02/03/2025 13:24	02/04/2025
ABB0268-05	SB123 (0-3)	Solid	02/03/2025 14:30	02/04/2025
ABB0268-05	SB123 (0-3)	Solid	02/03/2025 14:30	02/04/2025
ABB0268-06	SB123 (5-7.5)	Solid	02/03/2025 14:46	02/04/2025
ABB0268-06	SB123 (5-7.5)	Solid	02/03/2025 14:46	02/04/2025
ABB0268-07	SB124 (0-3)	Solid	02/03/2025 15:18	02/04/2025

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results

Sample: SB120 (0-3)

ABB0268-01 (Solid)

SVOC

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,2,4-Trichlorobenzene	ND		0.149	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
1,2-Dichlorobenzene	ND		0.0802	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
1,3-Dichlorobenzene	ND		0.0859	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
1,4-Dichlorobenzene	ND		0.0630	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
2,4,5-Trichlorophenol	ND		0.602	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
2,4,6-Trichlorophenol	ND		0.613	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
2,4-Dichlorophenol	ND		0.573	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
2,4-Dimethylphenol	ND		0.922	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
2,4-Dinitrophenol	ND		1.21	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
2,4-Dinitrotoluene	ND		0.235	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
2,6-Dinitrotoluene	ND		0.0859	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
2-Chloronaphthalene	ND		0.0974	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
2-Chlorophenol	ND		0.544	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
2-Methylnaphthalene	0.684		0.103	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
2-Nitroaniline	ND		0.636	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
2-Nitrophenol	ND		0.647	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
3,3-Dichlorobenzidine	ND		0.567	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
3-Nitroaniline	ND		0.607	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
4,6-Dinitro-2-methylphenol	ND		0.985	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
4-Bromophenyl phenyl ether	ND		0.103	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
4-Chloro-3-methylphenol	ND		0.590	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
4-Chloroaniline	ND		0.796	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
4-Chlorophenyl phenyl ether	ND		0.0745	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
4-Nitroaniline	ND		0.372	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
4-Nitrophenol	ND		0.521	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Acenaphthene	0.863		0.0917	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Acenaphthylene	ND		0.0802	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Anthracene	0.527		0.0688	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Benzo(a)anthracene	0.493		0.0573	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Benzo(a)pyrene	0.607		0.235	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Benzo(b)fluoranthene	0.556		0.0745	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Benzo(g,h,i)perylene	0.353	J	0.201	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Benzo(k)fluoranthene	0.212	J	0.132	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Bis(2-chloroethoxy)methane	ND		0.109	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
bis(2-Chloroethyl)ether	ND		0.166	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Bis(2-chloroisopropyl)ether	ND		0.138	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Bis(2-ethylhexyl)phthalate	ND		0.676	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Butyl benzyl phthalate	ND		0.670	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Carbazole	0.180	J	0.0745	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Chrysene	0.426		0.0745	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Dibenzo(a,h)anthracene	0.267	J	0.212	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Dibenzofuran	0.602		0.0859	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Diethyl phthalate	ND		0.561	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Dimethyl phthalate	ND		0.624	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Di-n-butyl phthalate	ND		0.521	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB120 (0-3) (Continued)
ABB0268-01 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Di-n-octyl phthalate	ND		0.751	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Fluoranthene	1.21		0.172	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Fluorene	0.560		0.0859	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Hexachlorobenzene	ND		0.613	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Hexachlorobutadiene	ND		0.590	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Hexachlorocyclopentadiene	ND		0.498	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Hexachloroethane	ND		0.556	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Indeno(1,2,3-cd)pyrene	0.485		0.258	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Isophorone	ND		0.0917	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
m,p-Cresol	ND		0.136	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Naphthalene	0.252	J	0.0859	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Nitrobenzene	ND		0.0688	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
N-Nitroso-di-n-propylamine	ND		0.212	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
N-Nitrosodiphenylamine	ND		0.158	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
O-Cresol	ND		0.132	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Pentachlorophenol	ND		1.00	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Phenanthrene	1.23		0.0745	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Phenol	ND		0.579	1.91	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Pyrene	0.926		0.0802	0.382	mg/kg dry	02/03/25 10:49	02/07/25	5	8270C	BB00662
Surrogate: 2,4,6-Tribromophenol	*28%*	S	*38-105*				*02/07/25*	*5*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*30%*	S	*40-110*				*02/07/25*	*5*	*8270C*	
Surrogate: 2-Fluorophenol	*30%*	S	*41-105*				*02/07/25*	*5*	*8270C*	
Surrogate: 4-Terphenyl-d14	*16%*	S	*26-133*				*02/07/25*	*5*	*8270C*	
Surrogate: Nitrobenzene-d5	*31%*		*27-129*				*02/07/25*	*5*	*8270C*	
Surrogate: Phenol-d5	*29%*	S	*43-105*				*02/07/25*	*5*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	0.00167		0.000435	0.00152	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
4,4´-DDE	0.00178		0.000458	0.00152	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
4,4´-DDT	ND		0.00120	0.00152	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Aldrin	ND		0.000218	0.000764	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
alpha-BHC	ND		0.000378	0.000764	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
alpha-Chlordane	0.000970		0.000206	0.000764	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
beta-BHC	ND		0.000367	0.000764	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Chlordane, Technical	ND		0.0226	0.0381	mg/kg dry	02/03/25 10:49	02/12/25	1	8081	BB00672
delta-BHC	ND		0.000218	0.000764	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Dieldrin	ND		0.000470	0.00152	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Endosulfan I	ND		0.000183	0.000764	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Endosulfan II	ND		0.000389	0.00152	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Endosulfan sulfate	ND		0.000401	0.00152	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Endrin	ND		0.000493	0.00152	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Endrin aldehyde	ND		0.000447	0.00152	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Endrin ketone	ND		0.000527	0.00152	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB120 (0-3) (Continued)
ABB0268-01 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	ND		0.000241	0.000764	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
gamma-Chlordane	0.00269		0.000275	0.000764	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Heptachlor	ND		0.000355	0.000764	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Heptachlor epoxide	ND		0.000183	0.000764	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Methoxychlor	ND		0.00710	0.00764	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Toxaphene	ND		0.0456	0.0954	mg/kg dry	02/03/25 10:49	02/11/25	1	8081	BB00672
Surrogate: Decachlorobiphenyl		*78%*		*29-133*			*02/11/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*56%*		*36-118*			*02/11/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	0.0274		0.00394	0.0192	mg/kg dry	02/03/25 10:49	02/07/25	1	8082	BB00672
Aroclor 1221	ND		0.00431	0.0192	mg/kg dry	02/03/25 10:49	02/07/25	1	8082	BB00672
Aroclor 1232	ND		0.00345	0.0192	mg/kg dry	02/03/25 10:49	02/07/25	1	8082	BB00672
Aroclor 1242	ND		0.00351	0.0192	mg/kg dry	02/03/25 10:49	02/07/25	1	8082	BB00672
Aroclor 1248	ND		0.00389	0.0192	mg/kg dry	02/03/25 10:49	02/07/25	1	8082	BB00672
Aroclor 1254	ND		0.00445	0.0192	mg/kg dry	02/03/25 10:49	02/07/25	1	8082	BB00672
Aroclor 1260	0.0967		0.00757	0.0192	mg/kg dry	02/03/25 10:49	02/07/25	1	8082	BB00672
Surrogate: Decachlorobiphenyl		*47%*		*20-142*			*02/07/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene		*51%*		*22-123*			*02/07/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	0.700		0.0486	0.106	mg/kg dry	02/03/25 10:49	02/10/25	1	7471B	BB00863

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - CVAA - TCLP Leached

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0000860	0.000500	mg/L	02/03/25 10:49	02/26/25	1	7470A	BB01706

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	0.30		0.061	0.069	mg/kg dry	02/03/25 10:49	02/06/25	1	9014	BB00774
pH	8.95		0.100	0.100	pH Units	02/03/25 10:49	02/06/25	1	SW 9045D	BB00858
Temperature	21.6		1.00	1.00	pH Units	02/03/25 10:49	02/06/25	1	SW 9045D	BB00858
Percent Moisture	13.16341		0.1	0.1	%	02/03/25 10:49	02/05/25	1	ASTM-D2216	BB00664

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB120 (0-3) (Continued)
ABB0268-01 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035										
1,1,1-Trichloroethane	ND		0.000333	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
1,1,2,2-Tetrachloroethane	ND	S,	0.000433	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
1,1,2-Trichloroethane	ND		0.000417	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
1,1-Dichloroethane	ND		0.000375	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
1,1-Dichloroethene	ND		0.000400	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
1,2-Dichloroethane	ND		0.000275	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
1,2-Dichloropropane	ND		0.00137	0.00417	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
2-Butanone	ND	S,	0.00197	0.0167	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
2-Hexanone	ND	S,	0.000617	0.0208	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
4-Methyl-2-pentanone	ND	S,	0.000625	0.0208	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Acetone	ND	S,	0.00442	0.0208	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Benzene	ND		0.000258	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Bromoform	ND		0.00137	0.00417	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Bromomethane	ND	S,	0.000383	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Carbon disulfide	ND		0.00125	0.00417	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Carbon tetrachloride	ND	S,	0.000325	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Chlorobenzene	ND		0.000242	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Chloroethane	ND	S,	0.00229	0.00417	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Chloroform	ND		0.000375	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Chloromethane	ND	S,	0.00321	0.00417	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
cis-1,2-Dichloroethene	ND		0.000317	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
cis-1,3-dichloropropene	ND		0.000208	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Dibromochloromethane	ND		0.000358	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Ethylbenzene	ND		0.000325	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
m,p-Xylene	ND		0.000500	0.00167	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Methyl tert-butyl ether	ND	S,	0.000292	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Methylene chloride	ND	S,	0.00215	0.00417	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
o-Xylene	ND		0.000225	0.00167	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Styrene	ND		0.000242	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Tetrachloroethene	ND	S,	0.000500	0.00167	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Toluene	ND		0.000392	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
trans-1,2-Dichloroethene	ND		0.000308	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
trans-1,3-dichloropropene	ND		0.000217	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Trichloroethene	ND		0.000300	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Vinyl chloride	ND		0.000858	0.00417	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	BB00705
Surrogate: 4-Bromofluorobenzene	*98%*			*76-119*			*02/05/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*101%*			*66-137*			*02/05/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*102%*			*80-120*			*02/05/25*	*1*	*8260B*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
Total 1,3-Dichloropropene	ND		0.000208	0.000833	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	[CALC]
Total Xylenes	ND		0.000225	0.00167	mg/kg dry	02/03/25 10:49	02/05/25	1	8260B	[CALC]

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB120 (0-3) (Continued)
ABB0268-01 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	5170		540	1000	mg/kg Dry	02/03/25 10:49	02/06/25	100	6010B	BB00783
Antimony	ND		0.610	5.00	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Arsenic	6.70		0.330	5.00	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Barium	94.6		0.530	2.50	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Beryllium	0.559		0.0290	0.300	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Cadmium	0.961		0.0300	0.250	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Calcium	85500		1310	2500	mg/kg Dry	02/03/25 10:49	02/06/25	100	6010B	BB00783
Chromium	19.0		0.0870	0.250	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Cobalt	5.58		0.0910	1.25	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Copper	61.9		1.10	5.00	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Iron	20600		302	500	mg/kg Dry	02/03/25 10:49	02/06/25	20	6010B	BB00783
Lead	195		0.210	1.25	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Magnesium	33200		254	500	mg/kg Dry	02/03/25 10:49	02/06/25	20	6010B	BB00783
Manganese	673		2.75	3.75	mg/kg Dry	02/03/25 10:49	02/06/25	5	6010B	BB00783
Nickel	15.8		0.260	1.25	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Potassium	758		20.2	25.0	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Selenium	0.382	J	0.360	5.00	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Silver	0.379	J	0.260	0.500	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Sodium	253		19.2	25.0	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Thallium	0.812	J	0.230	1.25	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Vanadium	13.9		0.190	1.25	mg/kg Dry	02/03/25 10:49	02/06/25	1	6010B	BB00783
Zinc	237		6.00	25.0	mg/kg Dry	02/03/25 10:49	02/06/25	5	6010B	BB00783

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached										
Copper	0.0272	J	0.00530	0.0500	mg/L	02/03/25 10:49	02/25/25	1	6010B	BB01651
Zinc	0.0580	J	0.0120	0.100	mg/L	02/03/25 10:49	02/25/25	1	6010B	BB01651

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results

(Continued)

Sample: SB121 (0-3)

ABB0268-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
1,2,4-Trichlorobenzene	ND	0.0311	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
1,2-Dichlorobenzene	ND	0.0168	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
1,3-Dichlorobenzene	ND	0.0180	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
1,4-Dichlorobenzene	ND	0.0132	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
2,4,5-Trichlorophenol	ND	0.126	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
2,4,6-Trichlorophenol	ND	0.128	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
2,4-Dichlorophenol	ND	0.120	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
2,4-Dimethylphenol	ND	0.193	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
2,4-Dinitrophenol	ND	0.253	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
2,4-Dinitrotoluene	ND	0.0491	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
2,6-Dinitrotoluene	ND	0.0180	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
2-Chloronaphthalene	ND	0.0204	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
2-Chlorophenol	ND	0.114	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
2-Methylnaphthalene	ND	0.0216	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
2-Nitroaniline	ND	0.133	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
2-Nitrophenol	ND	0.135	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
3,3-Dichlorobenzidine	ND	0.119	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
3-Nitroaniline	ND	0.127	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
4,6-Dinitro-2-methylphenol	ND	0.206	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
4-Bromophenyl phenyl ether	ND	0.0216	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
4-Chloro-3-methylphenol	ND	0.123	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
4-Chloroaniline	ND	0.166	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
4-Chlorophenyl phenyl ether	ND	0.0156	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
4-Nitroaniline	ND	0.0778	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
4-Nitrophenol	ND	0.109	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Acenaphthene	ND	0.0192	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Acenaphthylene	ND	0.0168	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Anthracene	0.0615 J	0.0144	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Benzo(a)anthracene	0.0675 J	0.0120	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Benzo(a)pyrene	0.109	0.0491	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Benzo(b)fluoranthene	0.0962	0.0156	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Benzo(g,h,i)perylene	0.0690 J	0.0419	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Benzo(k)fluoranthene	0.0311 J	0.0275	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Bis(2-chloroethoxy)methane	ND	0.0228	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
bis(2-Chloroethyl)ether	ND	0.0347	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Bis(2-chloroisopropyl)ether	ND	0.0287	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Bis(2-ethylhexyl)phthalate	ND	0.141	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Butyl benzyl phthalate	ND	0.140	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Carbazole	ND	0.0156	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Chrysene	0.0667 J	0.0156	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Dibenzo(a,h)anthracene	0.0539 J	0.0443	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Dibenzofuran	ND	0.0180	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Diethyl phthalate	ND	0.117	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Dimethyl phthalate	ND	0.131	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Di-n-butyl phthalate	ND	0.109	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB121 (0-3) (Continued)
ABB0268-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)									
Di-n-octyl phthalate	ND	0.157	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Fluoranthene	0.160	0.0359	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Fluorene	0.0531 J	0.0180	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Hexachlorobenzene	ND	0.128	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Hexachlorobutadiene	ND	0.123	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Hexachlorocyclopentadiene	ND	0.104	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Hexachloroethane	ND	0.116	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Indeno(1,2,3-cd)pyrene	0.0994	0.0539	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Isophorone	ND	0.0192	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
m,p-Cresol	ND	0.0284	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Naphthalene	ND	0.0180	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Nitrobenzene	ND	0.0144	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
N-Nitroso-di-n-propylamine	ND	0.0443	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
N-Nitrosodiphenylamine	ND	0.0330	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
O-Cresol	ND	0.0275	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Pentachlorophenol	ND	0.210	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Phenanthrene	0.0906	0.0156	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Phenol	ND	0.121	0.399	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Pyrene	0.133	0.0168	0.0799	mg/kg dry	02/03/25 12:03	02/07/25	1	8270C	BB00662
Surrogate: 2,4,6-Tribromophenol	*60%*		*38-105*			*02/07/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*68%*		*40-110*			*02/07/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*72%*		*41-105*			*02/07/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*37%*		*26-133*			*02/07/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*74%*		*27-129*			*02/07/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*71%*		*43-105*			*02/07/25*	*1*	*8270C*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides									
4,4´-DDD	ND	0.000909	0.00318	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
4,4´-DDE	ND	0.000957	0.00318	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
4,4´-DDT	ND	0.00251	0.00318	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Aldrin	ND	0.000454	0.00160	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
alpha-BHC	ND	0.000789	0.00160	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
alpha-Chlordane	ND	0.000430	0.00160	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
beta-BHC	ND	0.000765	0.00160	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Chlordane, Technical	ND	0.0471	0.0796	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
delta-BHC	ND	0.000454	0.00160	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Dieldrin	ND	0.000981	0.00318	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Endosulfan I	ND	0.000383	0.00160	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Endosulfan II	ND	0.000813	0.00318	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Endosulfan sulfate	ND	0.000837	0.00318	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Endrin	ND	0.00103	0.00318	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Endrin aldehyde	ND	0.000933	0.00318	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Endrin ketone	ND	0.00110	0.00318	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB121 (0-3) (Continued)
ABB0268-02 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	ND		0.000502	0.00160	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
gamma-Chlordane	ND		0.000574	0.00160	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Heptachlor	ND		0.000741	0.00160	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Heptachlor epoxide	ND		0.000383	0.00160	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Methoxychlor	ND		0.0148	0.0160	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Toxaphene	ND		0.0952	0.199	mg/kg dry	02/03/25 12:03	02/11/25	1	8081	BB00672
Surrogate: Decachlorobiphenyl		*78%*		*29-133*			*02/11/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*68%*		*36-118*			*02/11/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00411	0.0200	mg/kg dry	02/03/25 12:03	02/08/25	1	8082	BB00672
Aroclor 1221	ND		0.00449	0.0200	mg/kg dry	02/03/25 12:03	02/08/25	1	8082	BB00672
Aroclor 1232	ND		0.00360	0.0200	mg/kg dry	02/03/25 12:03	02/08/25	1	8082	BB00672
Aroclor 1242	ND		0.00366	0.0200	mg/kg dry	02/03/25 12:03	02/08/25	1	8082	BB00672
Aroclor 1248	ND		0.00406	0.0200	mg/kg dry	02/03/25 12:03	02/08/25	1	8082	BB00672
Aroclor 1254	ND		0.00463	0.0200	mg/kg dry	02/03/25 12:03	02/08/25	1	8082	BB00672
Aroclor 1260	ND		0.00789	0.0200	mg/kg dry	02/03/25 12:03	02/08/25	1	8082	BB00672
Surrogate: Decachlorobiphenyl		*67%*		*20-142*			*02/08/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene		*71%*		*22-123*			*02/08/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0526	0.115	mg/kg dry	02/03/25 12:03	02/10/25	1	7471B	BB00863

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	21		0.64	0.72	mg/kg dry	02/03/25 12:03	02/06/25	10	9014	BB00774
pH	10.8		0.100	0.100	pH Units	02/03/25 12:03	02/06/25	1	SW 9045D	BB00858
Temperature	21.4		1.00	1.00	pH Units	02/03/25 12:03	02/06/25	1	SW 9045D	BB00858
Percent Moisture	16.70733		0.1	0.1	%	02/03/25 12:03	02/05/25	1	ASTM-D2216	BB00664

Wet Chemistry - SPLP Leached

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	ND	H,	0.053	0.060	mg/L	02/03/25 12:03	02/27/25	1	9014	BB01872

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB121 (0-3) (Continued)
ABB0268-02 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035										
1,1,1-Trichloroethane	ND		0.000561	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
1,1,2,2-Tetrachloroethane	ND	S,	0.000730	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
1,1,2-Trichloroethane	ND		0.000702	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
1,1-Dichloroethane	ND		0.000632	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
1,1-Dichloroethene	ND		0.000674	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
1,2-Dichloroethane	ND		0.000463	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
1,2-Dichloropropane	ND		0.00230	0.00702	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
2-Butanone	ND	S,	0.00333	0.0281	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
2-Hexanone	ND	S,	0.00104	0.0351	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
4-Methyl-2-pentanone	ND	S,	0.00105	0.0351	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Acetone	0.0115	S, J	0.00745	0.0351	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Benzene	ND		0.000435	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Bromoform	ND		0.00230	0.00702	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Bromomethane	ND	S,	0.000646	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Carbon disulfide	ND		0.00211	0.00702	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Carbon tetrachloride	ND	S,	0.000547	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Chlorobenzene	ND		0.000407	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Chloroethane	ND	S,	0.00386	0.00702	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Chloroform	ND		0.000632	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Chloromethane	ND	S,	0.00540	0.00702	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
cis-1,2-Dichloroethene	ND		0.000533	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
cis-1,3-dichloropropene	ND		0.000351	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Dibromochloromethane	ND		0.000603	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Ethylbenzene	ND		0.000547	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
m,p-Xylene	ND		0.000842	0.00281	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Methyl tert-butyl ether	ND	S,	0.000491	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Methylene chloride	ND	S,	0.00362	0.00702	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
o-Xylene	ND		0.000379	0.00281	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Styrene	ND		0.000407	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Tetrachloroethene	ND	S,	0.000842	0.00281	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Toluene	ND		0.000660	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
trans-1,2-Dichloroethene	ND		0.000519	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
trans-1,3-dichloropropene	ND		0.000365	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Trichloroethene	ND		0.000505	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Vinyl chloride	ND		0.00145	0.00702	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	BB00705
Surrogate: 4-Bromofluorobenzene	*102%*			*76-119*			*02/05/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*100%*			*66-137*			*02/05/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*104%*			*80-120*			*02/05/25*	*1*	*8260B*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
Total 1,3-Dichloropropene	ND		0.000351	0.00140	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	[CALC]
Total Xylenes	ND		0.000379	0.00281	mg/kg dry	02/03/25 12:03	02/05/25	1	8260B	[CALC]

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2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results

(Continued)

Sample: SB121 (0-3) (Continued)

ABB0268-02 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	32800		1080	2000	mg/kg Dry	02/03/25 12:03	02/06/25	200	6010B	BB00783
Antimony	ND	G, S,	3.05	25.0	mg/kg Dry	02/03/25 12:03	02/06/25	5	6010B	BB00783
Arsenic	0.414	J	0.330	5.00	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Barium	364		2.65	12.5	mg/kg Dry	02/03/25 12:03	02/06/25	5	6010B	BB00783
Beryllium	5.08	S	0.0290	0.300	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Cadmium	0.0534	S, J	0.0300	0.250	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Calcium	235000		2620	5000	mg/kg Dry	02/03/25 12:03	02/06/25	200	6010B	BB00783
Chromium	31.2	S	0.0870	0.250	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Cobalt	ND	S,	0.0910	1.25	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Copper	1.74	J	1.10	5.00	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Iron	5360		75.5	125	mg/kg Dry	02/03/25 12:03	02/06/25	5	6010B	BB00783
Lead	13.0	S	0.210	1.25	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Magnesium	17000		254	500	mg/kg Dry	02/03/25 12:03	02/06/25	20	6010B	BB00783
Manganese	8520		55.0	75.0	mg/kg Dry	02/03/25 12:03	02/06/25	100	6010B	BB00783
Nickel	3.52	S	0.260	1.25	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Potassium	1690		20.2	25.0	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Selenium	4.22	S, J	0.360	5.00	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Silver	0.515		0.260	0.500	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Sodium	1190		19.2	25.0	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Thallium	3.65	G, S, J	1.15	6.25	mg/kg Dry	02/03/25 12:03	02/06/25	5	6010B	BB00783
Vanadium	8.15	S	0.190	1.25	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783
Zinc	9.12		1.20	5.00	mg/kg Dry	02/03/25 12:03	02/06/25	1	6010B	BB00783

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2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results

(Continued)

Sample: SB122 (0-3)

ABB0268-03 (Solid)

SVOC

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,2,4-Trichlorobenzene	ND		0.159	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
1,2-Dichlorobenzene	ND		0.0857	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
1,3-Dichlorobenzene	ND		0.0918	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
1,4-Dichlorobenzene	ND		0.0673	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
2,4,5-Trichlorophenol	ND		0.643	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
2,4,6-Trichlorophenol	ND		0.655	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
2,4-Dichlorophenol	ND		0.612	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
2,4-Dimethylphenol	ND		0.985	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
2,4-Dinitrophenol	ND		1.29	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
2,4-Dinitrotoluene	ND		0.251	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
2,6-Dinitrotoluene	ND		0.0918	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
2-Chloronaphthalene	ND		0.104	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
2-Chlorophenol	ND		0.581	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
2-Methylnaphthalene	0.114	J	0.110	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
2-Nitroaniline	ND		0.679	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
2-Nitrophenol	ND		0.692	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
3,3-Dichlorobenzidine	ND		0.606	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
3-Nitroaniline	ND		0.649	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
4,6-Dinitro-2-methylphenol	ND		1.05	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
4-Bromophenyl phenyl ether	ND		0.110	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
4-Chloro-3-methylphenol	ND		0.630	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
4-Chloroaniline	ND		0.851	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
4-Chlorophenyl phenyl ether	ND		0.0796	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
4-Nitroaniline	ND		0.398	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
4-Nitrophenol	ND		0.557	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Acenaphthene	ND		0.0979	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Acenaphthylene	ND		0.0857	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Anthracene	0.349	J	0.0734	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Benzo(a)anthracene	0.651		0.0612	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Benzo(a)pyrene	0.898		0.251	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Benzo(b)fluoranthene	1.06		0.0796	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Benzo(g,h,i)perylene	0.710		0.214	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Benzo(k)fluoranthene	0.381	J	0.141	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Bis(2-chloroethoxy)methane	ND		0.116	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
bis(2-Chloroethyl)ether	ND		0.177	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Bis(2-chloroisopropyl)ether	ND		0.147	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Bis(2-ethylhexyl)phthalate	ND		0.722	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Butyl benzyl phthalate	ND		0.716	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Carbazole	ND		0.0796	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Chrysene	0.708		0.0796	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Dibenzo(a,h)anthracene	0.322	J	0.226	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Dibenzofuran	ND		0.0918	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Diethyl phthalate	ND		0.600	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Dimethyl phthalate	ND		0.667	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Di-n-butyl phthalate	ND		0.557	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662

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2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB122 (0-3) (Continued)
ABB0268-03 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)									
Di-n-octyl phthalate	ND	0.802	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Fluoranthene	1.30	0.184	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Fluorene	0.269 J	0.0918	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Hexachlorobenzene	ND	0.655	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Hexachlorobutadiene	ND	0.630	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Hexachlorocyclopentadiene	ND	0.532	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Hexachloroethane	ND	0.594	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Indeno(1,2,3-cd)pyrene	0.830	0.275	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Isophorone	ND	0.0979	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
m,p-Cresol	ND	0.145	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Naphthalene	ND	0.0918	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Nitrobenzene	ND	0.0734	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
N-Nitroso-di-n-propylamine	ND	0.226	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
N-Nitrosodiphenylamine	ND	0.169	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
O-Cresol	ND	0.141	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Pentachlorophenol	ND	1.07	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Phenanthrene	0.669	0.0796	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Phenol	ND	0.618	2.04	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Pyrene	1.13	0.0857	0.408	mg/kg dry	02/03/25 13:08	02/07/25	5	8270C	BB00662
Surrogate: 2,4,6-Tribromophenol	*58%*		*38-105*			*02/07/25*	*5*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*65%*		*40-110*			*02/07/25*	*5*	*8270C*	
Surrogate: 2-Fluorophenol	*63%*		*41-105*			*02/07/25*	*5*	*8270C*	
Surrogate: 4-Terphenyl-d14	*35%*		*26-133*			*02/07/25*	*5*	*8270C*	
Surrogate: Nitrobenzene-d5	*65%*		*27-129*			*02/07/25*	*5*	*8270C*	
Surrogate: Phenol-d5	*62%*		*43-105*			*02/07/25*	*5*	*8270C*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides									
4,4´-DDD	ND	0.000465	0.00163	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
4,4´-DDE	ND	0.000489	0.00163	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
4,4´-DDT	ND	0.00128	0.00163	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Aldrin	ND	0.000232	0.000816	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
alpha-BHC	ND	0.000404	0.000816	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
alpha-Chlordane	0.000505 J	0.000220	0.000816	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
beta-BHC	ND	0.000392	0.000816	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Chlordane, Technical	ND	0.0241	0.0407	mg/kg dry	02/03/25 13:08	02/12/25	1	8081	BB00672
delta-BHC	ND	0.000232	0.000816	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Dieldrin	ND	0.000502	0.00163	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Endosulfan I	ND	0.000196	0.000816	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Endosulfan II	ND	0.000416	0.00163	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Endosulfan sulfate	ND	0.000428	0.00163	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Endrin	ND	0.000526	0.00163	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Endrin aldehyde	ND	0.000477	0.00163	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Endrin ketone	ND	0.000563	0.00163	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB122 (0-3) (Continued)
ABB0268-03 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides (Continued)										
gamma-BHC	ND		0.000257	0.000816	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
gamma-Chlordane	0.000942		0.000294	0.000816	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Heptachlor	ND		0.000379	0.000816	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Heptachlor epoxide	ND		0.000196	0.000816	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Methoxychlor	ND		0.00759	0.00816	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Toxaphene	ND		0.0487	0.102	mg/kg dry	02/03/25 13:08	02/11/25	1	8081	BB00672
Surrogate: Decachlorobiphenyl		*92%*		*29-133*			*02/11/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*64%*		*36-118*			*02/11/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - PCBs										
Aroclor 1016	ND		0.00421	0.0205	mg/kg dry	02/03/25 13:08	02/08/25	1	8082	BB00672
Aroclor 1221	ND		0.00460	0.0205	mg/kg dry	02/03/25 13:08	02/08/25	1	8082	BB00672
Aroclor 1232	ND		0.00369	0.0205	mg/kg dry	02/03/25 13:08	02/08/25	1	8082	BB00672
Aroclor 1242	ND		0.00375	0.0205	mg/kg dry	02/03/25 13:08	02/08/25	1	8082	BB00672
Aroclor 1248	ND		0.00416	0.0205	mg/kg dry	02/03/25 13:08	02/08/25	1	8082	BB00672
Aroclor 1254	ND		0.00475	0.0205	mg/kg dry	02/03/25 13:08	02/08/25	1	8082	BB00672
Aroclor 1260	0.0329		0.00808	0.0205	mg/kg dry	02/03/25 13:08	02/08/25	1	8082	BB00672
Surrogate: Decachlorobiphenyl		*72%*		*20-142*			*02/08/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene		*65%*		*22-123*			*02/08/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA										
Mercury	0.0931	J	0.0484	0.106	mg/kg dry	02/03/25 13:08	02/10/25	1	7471B	BB00863

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry										
Cyanide, Total	10		0.32	0.36	mg/kg dry	02/03/25 13:08	02/06/25	5	9014	BB00774
pH	8.24		0.100	0.100	pH Units	02/03/25 13:08	02/06/25	1	SW 9045D	BB00858
Temperature	21.6		1.00	1.00	pH Units	02/03/25 13:08	02/06/25	1	SW 9045D	BB00858
Percent Moisture	18.70834		0.1	0.1	%	02/03/25 13:08	02/05/25	1	ASTM-D2216	BB00664

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035										
1,1,1-Trichloroethane	ND		0.000420	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
1,1,2,2-Tetrachloroethane	ND	S,	0.000546	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
1,1,2-Trichloroethane	ND		0.000525	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
1,1-Dichloroethane	ND		0.000473	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
1,1-Dichloroethene	ND		0.000504	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB122 (0-3) (Continued)
ABB0268-03 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035 (Continued)										
1,2-Dichloroethane	ND		0.000347	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
1,2-Dichloropropane	ND		0.00172	0.00525	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
2-Butanone	ND	S,	0.00249	0.0210	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
2-Hexanone	ND	S,	0.000777	0.0263	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
4-Methyl-2-pentanone	ND	S,	0.000788	0.0263	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Acetone	ND	S,	0.00558	0.0263	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Benzene	ND		0.000326	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Bromoform	ND		0.00172	0.00525	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Bromomethane	ND	S,	0.000483	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Carbon disulfide	ND		0.00158	0.00525	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Carbon tetrachloride	ND	S,	0.000410	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Chlorobenzene	ND		0.000305	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Chloroethane	ND	S,	0.00289	0.00525	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Chloroform	ND		0.000473	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Chloromethane	ND	S,	0.00404	0.00525	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
cis-1,2-Dichloroethene	ND		0.000399	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
cis-1,3-dichloropropene	ND		0.000263	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Dibromochloromethane	ND		0.000452	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Ethylbenzene	ND		0.000410	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
m,p-Xylene	ND		0.000630	0.00210	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Methyl tert-butyl ether	ND	S,	0.000368	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Methylene chloride	ND	S,	0.00271	0.00525	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
o-Xylene	ND		0.000284	0.00210	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Styrene	ND		0.000305	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Tetrachloroethene	ND	S,	0.000630	0.00210	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Toluene	ND		0.000494	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
trans-1,2-Dichloroethene	ND		0.000389	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
trans-1,3-dichloropropene	ND		0.000273	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Trichloroethene	ND		0.000378	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Vinyl chloride	ND		0.00108	0.00525	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	BB00705
Surrogate: 4-Bromofluorobenzene	*97%*			*76-119*			*02/05/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*101%*			*66-137*			*02/05/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*102%*			*80-120*			*02/05/25*	*1*	*8260B*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
Total 1,3-Dichloropropene	ND		0.000263	0.00105	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	[CALC]
Total Xylenes	ND		0.000284	0.00210	mg/kg dry	02/03/25 13:08	02/05/25	1	8260B	[CALC]

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	8760		540	1000	mg/kg Dry	02/03/25 13:08	02/06/25	100	6010B	BB00783

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB122 (0-3) (Continued)
ABB0268-03 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP (Continued)										
Antimony	19.3		0.610	5.00	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Arsenic	11.9		0.330	5.00	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Barium	156		0.530	2.50	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Beryllium	1.70		0.0290	0.300	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Cadmium	1.92		0.0300	0.250	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Calcium	64300		1310	2500	mg/kg Dry	02/03/25 13:08	02/06/25	100	6010B	BB00783
Chromium	103		0.0870	0.250	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Cobalt	5.09		0.0910	1.25	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Copper	157		1.10	5.00	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Iron	65100		1510	2500	mg/kg Dry	02/03/25 13:08	02/06/25	100	6010B	BB00783
Lead	164		0.210	1.25	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Magnesium	9430		63.5	125	mg/kg Dry	02/03/25 13:08	02/06/25	5	6010B	BB00783
Manganese	4280		55.0	75.0	mg/kg Dry	02/03/25 13:08	02/06/25	100	6010B	BB00783
Nickel	44.9		0.260	1.25	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Potassium	629		20.2	25.0	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Selenium	1.35	J	0.360	5.00	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Silver	0.567		0.260	0.500	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Sodium	355		19.2	25.0	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Thallium	1.19	G, J	1.15	6.25	mg/kg Dry	02/03/25 13:08	02/06/25	5	6010B	BB00783
Vanadium	37.2		0.190	1.25	mg/kg Dry	02/03/25 13:08	02/06/25	1	6010B	BB00783
Zinc	572		6.00	25.0	mg/kg Dry	02/03/25 13:08	02/06/25	5	6010B	BB00783

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached										
Antimony	ND		0.00480	0.0350	mg/L	02/03/25 13:08	02/25/25	1	6010B	BB01651
Chromium	ND		0.00300	0.0250	mg/L	02/03/25 13:08	02/25/25	1	6010B	BB01651
Iron	ND		0.0520	0.250	mg/L	02/03/25 13:08	02/27/25	1	6010B	BB01796
Lead	ND		0.00130	0.0250	mg/L	02/03/25 13:08	02/25/25	1	6010B	BB01651

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - SPLP Leached										
Manganese	2.57		0.0158	0.0500	mg/L	02/03/25 13:08	02/27/25	1	6010B	BB01882

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results

(Continued)

Sample: SB122 (15-17.5)

ABB0268-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
1,2,4-Trichlorobenzene	ND	0.0307	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
1,2-Dichlorobenzene	ND	0.0165	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
1,3-Dichlorobenzene	ND	0.0177	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
1,4-Dichlorobenzene	ND	0.0130	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
2,4,5-Trichlorophenol	ND	0.124	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
2,4,6-Trichlorophenol	ND	0.126	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
2,4-Dichlorophenol	ND	0.118	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
2,4-Dimethylphenol	ND	0.190	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
2,4-Dinitrophenol	ND	0.249	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
2,4-Dinitrotoluene	ND	0.0485	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
2,6-Dinitrotoluene	ND	0.0177	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
2-Chloronaphthalene	ND	0.0201	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
2-Chlorophenol	ND	0.112	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
2-Methylnaphthalene	ND	0.0213	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
2-Nitroaniline	ND	0.131	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
2-Nitrophenol	ND	0.134	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
3,3-Dichlorobenzidine	ND	0.117	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
3-Nitroaniline	ND	0.125	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
4,6-Dinitro-2-methylphenol	ND	0.203	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
4-Bromophenyl phenyl ether	ND	0.0213	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
4-Chloro-3-methylphenol	ND	0.122	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
4-Chloroaniline	ND	0.164	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
4-Chlorophenyl phenyl ether	ND	0.0154	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
4-Nitroaniline	ND	0.0768	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
4-Nitrophenol	ND	0.108	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Acenaphthene	ND	0.0189	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Acenaphthylene	ND	0.0165	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Anthracene	ND	0.0142	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Benzo(a)anthracene	ND	0.0118	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Benzo(a)pyrene	ND	0.0485	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Benzo(b)fluoranthene	ND	0.0154	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Benzo(g,h,i)perylene	ND	0.0414	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Benzo(k)fluoranthene	ND	0.0272	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Bis(2-chloroethoxy)methane	ND	0.0225	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
bis(2-Chloroethyl)ether	ND	0.0343	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Bis(2-chloroisopropyl)ether	ND	0.0284	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Bis(2-ethylhexyl)phthalate	ND	0.139	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Butyl benzyl phthalate	ND	0.138	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Carbazole	ND	0.0154	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Chrysene	ND	0.0154	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Dibenzo(a,h)anthracene	ND	0.0437	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Dibenzofuran	ND	0.0177	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Diethyl phthalate	ND	0.116	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Dimethyl phthalate	ND	0.129	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Di-n-butyl phthalate	0.145 J	0.108	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB122 (15-17.5) (Continued)
ABB0268-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)									
Di-n-octyl phthalate	ND	0.155	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Fluoranthene	ND	0.0355	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Fluorene	ND	0.0177	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Hexachlorobenzene	ND	0.126	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Hexachlorobutadiene	ND	0.122	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Hexachlorocyclopentadiene	ND	0.103	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Hexachloroethane	ND	0.115	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Indeno(1,2,3-cd)pyrene	ND	0.0532	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Isophorone	ND	0.0189	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
m,p-Cresol	ND	0.0280	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Naphthalene	ND	0.0177	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Nitrobenzene	ND	0.0142	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
N-Nitroso-di-n-propylamine	ND	0.0437	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
N-Nitrosodiphenylamine	ND	0.0326	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
O-Cresol	ND	0.0272	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Pentachlorophenol	ND	0.207	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Phenanthrene	ND	0.0154	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Phenol	ND	0.119	0.394	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Pyrene	ND	0.0165	0.0788	mg/kg dry	02/03/25 13:24	02/06/25	1	8270C	BB00662
Surrogate: 2,4,6-Tribromophenol	*74%*		*38-105*			*02/06/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*76%*		*40-110*			*02/06/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*84%*		*41-105*			*02/06/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*52%*		*26-133*			*02/06/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*80%*		*27-129*			*02/06/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*79%*		*43-105*			*02/06/25*	*1*	*8270C*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides									
4,4´-DDD	ND	0.000896	0.00314	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
4,4´-DDE	ND	0.000943	0.00314	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
4,4´-DDT	ND	0.00248	0.00314	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Aldrin	ND	0.000448	0.00157	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
alpha-BHC	ND	0.000778	0.00157	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
alpha-Chlordane	ND	0.000424	0.00157	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
beta-BHC	ND	0.000754	0.00157	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Chlordane, Technical	ND	0.0464	0.0785	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
delta-BHC	ND	0.000448	0.00157	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Dieldrin	ND	0.000967	0.00314	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Endosulfan I	ND	0.000377	0.00157	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Endosulfan II	ND	0.000802	0.00314	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Endosulfan sulfate	ND	0.000825	0.00314	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Endrin	ND	0.00101	0.00314	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Endrin aldehyde	ND	0.000919	0.00314	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Endrin ketone	ND	0.00108	0.00314	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB122 (15-17.5) (Continued)
ABB0268-04 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	ND		0.000495	0.00157	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
gamma-Chlordane	ND		0.000566	0.00157	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Heptachlor	ND		0.000731	0.00157	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Heptachlor epoxide	ND		0.000377	0.00157	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Methoxychlor	ND		0.0146	0.0157	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Toxaphene	ND		0.0938	0.196	mg/kg dry	02/03/25 13:24	02/11/25	1	8081	BB00672
Surrogate: Decachlorobiphenyl	*107%*			*29-133*			*02/11/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene	*84%*			*36-118*			*02/11/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00405	0.0198	mg/kg dry	02/03/25 13:24	02/08/25	1	8082	BB00672
Aroclor 1221	ND		0.00443	0.0198	mg/kg dry	02/03/25 13:24	02/08/25	1	8082	BB00672
Aroclor 1232	ND		0.00355	0.0198	mg/kg dry	02/03/25 13:24	02/08/25	1	8082	BB00672
Aroclor 1242	ND		0.00361	0.0198	mg/kg dry	02/03/25 13:24	02/08/25	1	8082	BB00672
Aroclor 1248	ND		0.00400	0.0198	mg/kg dry	02/03/25 13:24	02/08/25	1	8082	BB00672
Aroclor 1254	ND		0.00457	0.0198	mg/kg dry	02/03/25 13:24	02/08/25	1	8082	BB00672
Aroclor 1260	ND		0.00778	0.0198	mg/kg dry	02/03/25 13:24	02/08/25	1	8082	BB00672
Surrogate: Decachlorobiphenyl	*78%*			*20-142*			*02/08/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene	*80%*			*22-123*			*02/08/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0540	0.118	mg/kg dry	02/03/25 13:24	02/10/25	1	7471B	BB00863

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	ND		0.063	0.071	mg/kg dry	02/03/25 13:24	02/06/25	1	9014	BB00774
pH	8.39		0.100	0.100	pH Units	02/03/25 13:24	02/06/25	1	SW 9045D	BB00858
Temperature	21.1		1.00	1.00	pH Units	02/03/25 13:24	02/06/25	1	SW 9045D	BB00858
Percent Moisture	15.5616		0.1	0.1	%	02/03/25 13:24	02/05/25	1	ASTM-D2216	BB00664

Volatile Organics - Prep EPA 5035

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1,1-Trichloroethane	ND		0.000397	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
1,1,2,2-Tetrachloroethane	ND	S,	0.000517	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
1,1,2-Trichloroethane	ND		0.000497	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
1,1-Dichloroethane	ND		0.000447	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
1,1-Dichloroethene	ND		0.000477	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705

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2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB122 (15-17.5) (Continued)
ABB0268-04 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035 (Continued)										
1,2-Dichloroethane	ND		0.000328	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
1,2-Dichloropropane	ND		0.00163	0.00497	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
2-Butanone	ND	S,	0.00236	0.0199	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
2-Hexanone	ND	S,	0.000735	0.0248	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
4-Methyl-2-pentanone	ND	S,	0.000745	0.0248	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Acetone	ND	S,	0.00528	0.0248	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Benzene	ND		0.000308	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Bromoform	ND		0.00163	0.00497	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Bromomethane	ND	S,	0.000457	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Carbon disulfide	ND		0.00149	0.00497	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Carbon tetrachloride	ND	S,	0.000388	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Chlorobenzene	ND		0.000288	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Chloroethane	ND	S,	0.00273	0.00497	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Chloroform	ND		0.000447	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Chloromethane	ND	S,	0.00383	0.00497	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
cis-1,2-Dichloroethene	ND		0.000378	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
cis-1,3-dichloropropene	ND		0.000248	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Dibromochloromethane	ND		0.000427	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Ethylbenzene	ND		0.000388	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
m,p-Xylene	ND		0.000596	0.00199	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Methyl tert-butyl ether	ND	S,	0.000348	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Methylene chloride	ND	S,	0.00256	0.00497	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
o-Xylene	ND		0.000268	0.00199	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Styrene	ND		0.000288	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Tetrachloroethene	ND	S,	0.000596	0.00199	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Toluene	ND		0.000467	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
trans-1,2-Dichloroethene	ND		0.000368	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
trans-1,3-dichloropropene	ND		0.000258	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Trichloroethene	ND		0.000358	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Vinyl chloride	ND		0.00102	0.00497	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	BB00705
Surrogate: 4-Bromofluorobenzene			*105%*	*76-119*			*02/05/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane			*101%*	*66-137*			*02/05/25*	*1*	*8260B*	
Surrogate: Toluene-d8			*104%*	*80-120*			*02/05/25*	*1*	*8260B*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
Total 1,3-Dichloropropene	ND		0.000248	0.000994	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	[CALC]
Total Xylenes	ND		0.000268	0.00199	mg/kg dry	02/03/25 13:24	02/05/25	1	8260B	[CALC]

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	577		26.7	49.5	mg/kg Dry	02/03/25 13:24	02/06/25	5	6010B	BB00783

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2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB122 (15-17.5) (Continued)
ABB0268-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP (Continued)									
Antimony	ND	0.604	4.95	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Arsenic	1.12 J	0.327	4.95	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Barium	2.19 J	0.525	2.48	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Beryllium	0.0380 J	0.0287	0.297	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Cadmium	ND	0.0297	0.248	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Calcium	27400	259	495	mg/kg Dry	02/03/25 13:24	02/06/25	20	6010B	BB00783
Chromium	1.86	0.0861	0.248	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Cobalt	1.33	0.0901	1.24	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Copper	1.63 J	1.09	4.95	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Iron	2930	74.8	124	mg/kg Dry	02/03/25 13:24	02/06/25	5	6010B	BB00783
Lead	1.68	0.208	1.24	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Magnesium	13800	251	495	mg/kg Dry	02/03/25 13:24	02/06/25	20	6010B	BB00783
Manganese	130	0.545	0.743	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Nickel	1.99	0.257	1.24	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Potassium	113	20.0	24.8	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Selenium	ND	0.356	4.95	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Silver	ND	0.257	0.495	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Sodium	89.6	19.0	24.8	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Thallium	0.263 J	0.228	1.24	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Vanadium	2.72	0.188	1.24	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783
Zinc	15.3	1.19	4.95	mg/kg Dry	02/03/25 13:24	02/06/25	1	6010B	BB00783

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2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results

(Continued)

Sample: SB123 (0-3)

ABB0268-05 (Solid)

SVOC

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,2,4-Trichlorobenzene	ND		0.154	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
1,2-Dichlorobenzene	ND		0.0827	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
1,3-Dichlorobenzene	ND		0.0886	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
1,4-Dichlorobenzene	ND		0.0650	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
2,4,5-Trichlorophenol	ND		0.620	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
2,4,6-Trichlorophenol	ND		0.632	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
2,4-Dichlorophenol	ND		0.591	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
2,4-Dimethylphenol	ND		0.951	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
2,4-Dinitrophenol	ND		1.25	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
2,4-Dinitrotoluene	ND		0.242	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
2,6-Dinitrotoluene	ND		0.0886	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
2-Chloronaphthalene	ND		0.100	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
2-Chlorophenol	ND		0.561	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
2-Methylnaphthalene	ND		0.106	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
2-Nitroaniline	ND		0.656	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
2-Nitrophenol	ND		0.667	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
3,3-Dichlorobenzidine	ND		0.585	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
3-Nitroaniline	ND		0.626	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
4,6-Dinitro-2-methylphenol	ND		1.02	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
4-Bromophenyl phenyl ether	ND		0.106	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
4-Chloro-3-methylphenol	ND		0.608	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
4-Chloroaniline	ND		0.821	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
4-Chlorophenyl phenyl ether	ND		0.0768	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
4-Nitroaniline	ND		0.384	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
4-Nitrophenol	ND		0.537	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Acenaphthene	ND		0.0945	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Acenaphthylene	ND		0.0827	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Anthracene	0.232	J	0.0709	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Benzo(a)anthracene	ND		0.0591	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Benzo(a)pyrene	0.323	J	0.242	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Benzo(b)fluoranthene	0.138	J	0.0768	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Benzo(g,h,i)perylene	ND		0.207	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Benzo(k)fluoranthene	ND		0.136	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Bis(2-chloroethoxy)methane	ND		0.112	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
bis(2-Chloroethyl)ether	ND		0.171	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Bis(2-chloroisopropyl)ether	ND		0.142	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Bis(2-ethylhexyl)phthalate	ND		0.697	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Butyl benzyl phthalate	ND		0.691	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Carbazole	ND		0.0768	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Chrysene	0.110	J	0.0768	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Dibenzo(a,h)anthracene	0.228	J	0.219	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Dibenzofuran	ND		0.0886	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Diethyl phthalate	ND		0.579	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Dimethyl phthalate	ND		0.644	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Di-n-butyl phthalate	ND		0.537	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB123 (0-3) (Continued)
ABB0268-05 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)									
Di-n-octyl phthalate	ND	0.774	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Fluoranthene	0.284 J	0.177	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Fluorene	ND	0.0886	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Hexachlorobenzene	ND	0.632	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Hexachlorobutadiene	ND	0.608	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Hexachlorocyclopentadiene	ND	0.514	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Hexachloroethane	ND	0.573	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Indeno(1,2,3-cd)pyrene	0.280 J	0.266	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Isophorone	ND	0.0945	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
m,p-Cresol	ND	0.140	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Naphthalene	ND	0.0886	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Nitrobenzene	ND	0.0709	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
N-Nitroso-di-n-propylamine	ND	0.219	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
N-Nitrosodiphenylamine	ND	0.163	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
O-Cresol	ND	0.136	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Pentachlorophenol	ND	1.03	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Phenanthrene	0.154 J	0.0768	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Phenol	ND	0.597	1.97	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Pyrene	0.128 J	0.0827	0.394	mg/kg dry	02/03/25 14:30	02/07/25	5	8270C	BB00662
Surrogate: 2,4,6-Tribromophenol	*60%*		*38-105*			*02/07/25*	*5*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*70%*		*40-110*			*02/07/25*	*5*	*8270C*	
Surrogate: 2-Fluorophenol	*70%*		*41-105*			*02/07/25*	*5*	*8270C*	
Surrogate: 4-Terphenyl-d14	*38%*		*26-133*			*02/07/25*	*5*	*8270C*	
Surrogate: Nitrobenzene-d5	*73%*		*27-129*			*02/07/25*	*5*	*8270C*	
Surrogate: Phenol-d5	*65%*		*43-105*			*02/07/25*	*5*	*8270C*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides									
4,4´-DDD	ND	0.000451	0.00158	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
4,4´-DDE	ND	0.000475	0.00158	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
4,4´-DDT	ND	0.00125	0.00158	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Aldrin	ND	0.000225	0.000792	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
alpha-BHC	ND	0.000392	0.000792	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
alpha-Chlordane	ND	0.000214	0.000792	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
beta-BHC	ND	0.000380	0.000792	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Chlordane, Technical	ND	0.0234	0.0395	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
delta-BHC	ND	0.000225	0.000792	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Dieldrin	ND	0.000487	0.00158	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Endosulfan I	ND	0.000190	0.000792	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Endosulfan II	ND	0.000403	0.00158	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Endosulfan sulfate	ND	0.000415	0.00158	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Endrin	ND	0.000510	0.00158	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Endrin aldehyde	ND	0.000463	0.00158	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Endrin ketone	ND	0.000546	0.00158	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB123 (0-3) (Continued)
ABB0268-05 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides (Continued)										
gamma-BHC	ND		0.000249	0.000792	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
gamma-Chlordane	ND		0.000285	0.000792	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Heptachlor	ND		0.000368	0.000792	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Heptachlor epoxide	ND		0.000190	0.000792	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Methoxychlor	ND		0.00736	0.00792	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Toxaphene	ND		0.0472	0.0989	mg/kg dry	02/03/25 14:30	02/11/25	1	8081	BB00672
Surrogate: Decachlorobiphenyl		*72%*		*29-133*			*02/11/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*55%*		*36-118*			*02/11/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - PCBs										
Aroclor 1016	ND		0.00406	0.0198	mg/kg dry	02/03/25 14:30	02/08/25	1	8082	BB00672
Aroclor 1221	ND		0.00444	0.0198	mg/kg dry	02/03/25 14:30	02/08/25	1	8082	BB00672
Aroclor 1232	ND		0.00356	0.0198	mg/kg dry	02/03/25 14:30	02/08/25	1	8082	BB00672
Aroclor 1242	ND		0.00362	0.0198	mg/kg dry	02/03/25 14:30	02/08/25	1	8082	BB00672
Aroclor 1248	ND		0.00401	0.0198	mg/kg dry	02/03/25 14:30	02/08/25	1	8082	BB00672
Aroclor 1254	ND		0.00458	0.0198	mg/kg dry	02/03/25 14:30	02/08/25	1	8082	BB00672
Aroclor 1260	0.00818	J	0.00780	0.0198	mg/kg dry	02/03/25 14:30	02/08/25	1	8082	BB00672
Surrogate: Decachlorobiphenyl		*76%*		*20-142*			*02/08/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene		*53%*		*22-123*			*02/08/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA										
Mercury	0.111		0.0484	0.106	mg/kg dry	02/03/25 14:30	02/10/25	1	7471B	BB00863

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA - TCLP Leached										
Mercury	ND		0.0000860	0.000500	mg/L	02/03/25 14:30	02/26/25	1	7470A	BB01706

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry										
Cyanide, Total	0.46		0.063	0.071	mg/kg dry	02/03/25 14:30	02/06/25	1	9014	BB00774
pH	9.63		0.100	0.100	pH Units	02/03/25 14:30	02/06/25	1	SW 9045D	BB00858
Temperature	21.4		1.00	1.00	pH Units	02/03/25 14:30	02/06/25	1	SW 9045D	BB00858
Percent Moisture	15.79308		0.1	0.1	%	02/03/25 14:30	02/05/25	1	ASTM-D2216	BB00664

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB123 (0-3) (Continued)
ABB0268-05 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035										
1,1,1-Trichloroethane	ND		0.000473	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
1,1,2,2-Tetrachloroethane	ND	S,	0.000615	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
1,1,2-Trichloroethane	ND		0.000591	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
1,1-Dichloroethane	ND		0.000532	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
1,1-Dichloroethene	ND		0.000568	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
1,2-Dichloroethane	ND		0.000390	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
1,2-Dichloropropane	ND		0.00194	0.00591	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
2-Butanone	ND	S,	0.00280	0.0237	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
2-Hexanone	ND	S,	0.000875	0.0296	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
4-Methyl-2-pentanone	ND	S,	0.000887	0.0296	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Acetone	0.0135	S, J	0.00628	0.0296	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Benzene	ND		0.000367	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Bromoform	ND		0.00194	0.00591	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Bromomethane	ND	S,	0.000544	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Carbon disulfide	0.00797		0.00177	0.00591	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Carbon tetrachloride	ND	S,	0.000461	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Chlorobenzene	ND		0.000343	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Chloroethane	ND	S,	0.00325	0.00591	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Chloroform	ND		0.000532	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Chloromethane	ND	S,	0.00455	0.00591	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
cis-1,2-Dichloroethene	ND		0.000449	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
cis-1,3-dichloropropene	ND		0.000296	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Dibromochloromethane	ND		0.000509	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Ethylbenzene	ND		0.000461	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
m,p-Xylene	ND		0.000710	0.00237	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Methyl tert-butyl ether	ND	S,	0.000414	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Methylene chloride	ND	S,	0.00305	0.00591	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
o-Xylene	ND		0.000319	0.00237	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Styrene	ND		0.000343	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Tetrachloroethene	ND	S,	0.000710	0.00237	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Toluene	ND		0.000556	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
trans-1,2-Dichloroethene	ND		0.000438	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
trans-1,3-dichloropropene	ND		0.000308	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Trichloroethene	ND		0.000426	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Vinyl chloride	ND		0.00122	0.00591	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	BB00705
Surrogate: 4-Bromofluorobenzene		*100%*		*76-119*			*02/05/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane		*102%*		*66-137*			*02/05/25*	*1*	*8260B*	
Surrogate: Toluene-d8		*104%*		*80-120*			*02/05/25*	*1*	*8260B*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
Total 1,3-Dichloropropene	ND		0.000296	0.00118	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	[CALC]
Total Xylenes	ND		0.000319	0.00237	mg/kg dry	02/03/25 14:30	02/05/25	1	8260B	[CALC]

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB123 (0-3) (Continued)
ABB0268-05 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	5180		540	1000	mg/kg Dry	02/03/25 14:30	02/06/25	100	6010B	BB00783
Antimony	1.04	J	0.610	5.00	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Arsenic	14.7		0.330	5.00	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Barium	108		0.530	2.50	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Beryllium	1.18		0.0290	0.300	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Cadmium	3.51		0.0300	0.250	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Calcium	44500		1310	2500	mg/kg Dry	02/03/25 14:30	02/06/25	100	6010B	BB00783
Chromium	57.9		0.0870	0.250	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Cobalt	7.14		0.0910	1.25	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Copper	81.5		1.10	5.00	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Iron	87000		1510	2500	mg/kg Dry	02/03/25 14:30	02/06/25	100	6010B	BB00783
Lead	138		0.210	1.25	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Magnesium	11200		254	500	mg/kg Dry	02/03/25 14:30	02/06/25	20	6010B	BB00783
Manganese	3510		11.0	15.0	mg/kg Dry	02/03/25 14:30	02/06/25	20	6010B	BB00783
Nickel	13.7		0.260	1.25	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Potassium	627		20.2	25.0	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Selenium	1.11	J	0.360	5.00	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Silver	0.583		0.260	0.500	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Sodium	350		19.2	25.0	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Thallium	1.58	G, J	1.15	6.25	mg/kg Dry	02/03/25 14:30	02/06/25	5	6010B	BB00783
Vanadium	36.7		0.190	1.25	mg/kg Dry	02/03/25 14:30	02/06/25	1	6010B	BB00783
Zinc	914		6.00	25.0	mg/kg Dry	02/03/25 14:30	02/06/25	5	6010B	BB00783

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached										
Arsenic	ND		0.00560	0.0250	mg/L	02/03/25 14:30	02/25/25	1	6010B	BB01651
Cadmium	ND		0.000590	0.0100	mg/L	02/03/25 14:30	02/25/25	1	6010B	BB01651
Chromium	ND		0.00300	0.0250	mg/L	02/03/25 14:30	02/25/25	1	6010B	BB01651
Copper	0.0157	J	0.00530	0.0500	mg/L	02/03/25 14:30	02/25/25	1	6010B	BB01651
Iron	0.144	J	0.0520	0.250	mg/L	02/03/25 14:30	02/27/25	1	6010B	BB01796
Lead	ND		0.00130	0.0250	mg/L	02/03/25 14:30	02/25/25	1	6010B	BB01651
Selenium	0.00885	J	0.00570	0.0250	mg/L	02/03/25 14:30	02/25/25	1	6010B	BB01651
Thallium	0.0139	J	0.00340	0.100	mg/L	02/03/25 14:30	02/25/25	1	6010B	BB01651
Zinc	0.0512	J	0.0120	0.100	mg/L	02/03/25 14:30	02/25/25	1	6010B	BB01651

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - SPLP Leached										
Manganese	0.0536		0.0158	0.0500	mg/L	02/03/25 14:30	02/27/25	1	6010B	BB01882

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results

(Continued)

Sample: SB123 (5-7.5)

ABB0268-06 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
1,2,4-Trichlorobenzene	ND		0.145	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
1,2-Dichlorobenzene	ND		0.0782	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
1,3-Dichlorobenzene	ND		0.0837	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
1,4-Dichlorobenzene	ND		0.0614	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
2,4,5-Trichlorophenol	ND		0.586	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
2,4,6-Trichlorophenol	ND		0.597	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
2,4-Dichlorophenol	ND		0.558	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
2,4-Dimethylphenol	ND		0.899	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
2,4-Dinitrophenol	ND		1.18	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
2,4-Dinitrotoluene	ND		0.229	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
2,6-Dinitrotoluene	ND		0.0837	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
2-Chloronaphthalene	ND		0.0949	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
2-Chlorophenol	ND		0.530	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
2-Methylnaphthalene	0.128	J	0.100	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
2-Nitroaniline	ND		0.620	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
2-Nitrophenol	ND		0.631	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
3,3-Dichlorobenzidine	ND		0.553	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
3-Nitroaniline	ND		0.592	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
4,6-Dinitro-2-methylphenol	ND		0.960	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
4-Bromophenyl phenyl ether	ND		0.100	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
4-Chloro-3-methylphenol	ND		0.575	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
4-Chloroaniline	ND		0.776	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
4-Chlorophenyl phenyl ether	ND		0.0726	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
4-Nitroaniline	ND		0.363	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
4-Nitrophenol	ND		0.508	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Acenaphthene	ND		0.0893	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Acenaphthylene	ND		0.0782	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Anthracene	0.218	J	0.0670	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Benzo(a)anthracene	ND		0.0558	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Benzo(a)pyrene	ND		0.229	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Benzo(b)fluoranthene	ND		0.0726	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Benzo(g,h,i)perylene	ND		0.195	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Benzo(k)fluoranthene	ND		0.128	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Bis(2-chloroethoxy)methane	ND		0.106	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
bis(2-Chloroethyl)ether	ND		0.162	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Bis(2-chloroisopropyl)ether	ND		0.134	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Bis(2-ethylhexyl)phthalate	ND		0.659	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Butyl benzyl phthalate	ND		0.653	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Carbazole	ND		0.0726	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Chrysene	ND		0.0726	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Dibenzo(a,h)anthracene	ND		0.207	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Dibenzofuran	ND		0.0837	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Diethyl phthalate	ND		0.547	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Dimethyl phthalate	ND		0.609	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Di-n-butyl phthalate	ND		0.508	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB123 (5-7.5) (Continued)
ABB0268-06 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)									
Di-n-octyl phthalate	ND	0.731	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Fluoranthene	0.201 J	0.167	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Fluorene	ND	0.0837	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Hexachlorobenzene	ND	0.597	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Hexachlorobutadiene	ND	0.575	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Hexachlorocyclopentadiene	ND	0.486	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Hexachloroethane	ND	0.542	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Indeno(1,2,3-cd)pyrene	ND	0.251	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Isophorone	ND	0.0893	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
m,p-Cresol	ND	0.132	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Naphthalene	ND	0.0837	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Nitrobenzene	ND	0.0670	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
N-Nitroso-di-n-propylamine	ND	0.207	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
N-Nitrosodiphenylamine	ND	0.154	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
O-Cresol	ND	0.128	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Pentachlorophenol	ND	0.977	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Phenanthrene	0.164 J	0.0726	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Phenol	ND	0.564	1.86	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Pyrene	ND	0.0782	0.372	mg/kg dry	02/03/25 14:46	02/07/25	5	8270C	BB00662
Surrogate: 2,4,6-Tribromophenol		*57%*	*38-105*			*02/07/25*	*5*	*8270C*	
Surrogate: 2-Fluorobiphenyl		*67%*	*40-110*			*02/07/25*	*5*	*8270C*	
Surrogate: 2-Fluorophenol		*66%*	*41-105*			*02/07/25*	*5*	*8270C*	
Surrogate: 4-Terphenyl-d14		*35%*	*26-133*			*02/07/25*	*5*	*8270C*	
Surrogate: Nitrobenzene-d5		*69%*	*27-129*			*02/07/25*	*5*	*8270C*	
Surrogate: Phenol-d5		*63%*	*43-105*			*02/07/25*	*5*	*8270C*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides									
4,4´-DDD	ND	0.000426	0.00149	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
4,4´-DDE	ND	0.000448	0.00149	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
4,4´-DDT	ND	0.00118	0.00149	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Aldrin	ND	0.000213	0.000747	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
alpha-BHC	ND	0.000370	0.000747	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
alpha-Chlordane	ND	0.000202	0.000747	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
beta-BHC	ND	0.000358	0.000747	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Chlordane, Technical	ND	0.0221	0.0373	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
delta-BHC	ND	0.000213	0.000747	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Dieldrin	ND	0.000459	0.00149	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Endosulfan I	ND	0.000179	0.000747	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Endosulfan II	ND	0.000381	0.00149	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Endosulfan sulfate	ND	0.000392	0.00149	mg/kg dry	02/03/25 14:46	02/12/25	1	8081	BB00672
Endrin	ND	0.000482	0.00149	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Endrin aldehyde	ND	0.000437	0.00149	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Endrin ketone	ND	0.000515	0.00149	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB123 (5-7.5) (Continued)
ABB0268-06 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	ND		0.000235	0.000747	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
gamma-Chlordane	ND		0.000269	0.000747	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Heptachlor	ND		0.000347	0.000747	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Heptachlor epoxide	ND		0.000179	0.000747	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Methoxychlor	ND		0.00695	0.00747	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Toxaphene	ND		0.0446	0.0933	mg/kg dry	02/03/25 14:46	02/11/25	1	8081	BB00672
Surrogate: Decachlorobiphenyl		*70%*		*29-133*			*02/11/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*67%*		*36-118*			*02/11/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00384	0.0188	mg/kg dry	02/03/25 14:46	02/08/25	1	8082	BB00672
Aroclor 1221	ND		0.00420	0.0188	mg/kg dry	02/03/25 14:46	02/08/25	1	8082	BB00672
Aroclor 1232	ND		0.00337	0.0188	mg/kg dry	02/03/25 14:46	02/08/25	1	8082	BB00672
Aroclor 1242	ND		0.00343	0.0188	mg/kg dry	02/03/25 14:46	02/08/25	1	8082	BB00672
Aroclor 1248	ND		0.00380	0.0188	mg/kg dry	02/03/25 14:46	02/08/25	1	8082	BB00672
Aroclor 1254	ND		0.00434	0.0188	mg/kg dry	02/03/25 14:46	02/08/25	1	8082	BB00672
Aroclor 1260	ND		0.00738	0.0188	mg/kg dry	02/03/25 14:46	02/08/25	1	8082	BB00672
Surrogate: Decachlorobiphenyl		*68%*		*20-142*			*02/08/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene		*60%*		*22-123*			*02/08/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0474	0.104	mg/kg dry	02/03/25 14:46	02/10/25	1	7471B	BB00863

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	0.13		0.060	0.067	mg/kg dry	02/03/25 14:46	02/06/25	1	9014	BB00774
pH	10.2		0.100	0.100	pH Units	02/03/25 14:46	02/06/25	1	SW 9045D	BB00858
Temperature	21.6		1.00	1.00	pH Units	02/03/25 14:46	02/06/25	1	SW 9045D	BB00858
Percent Moisture	10.97451		0.1	0.1	%	02/03/25 14:46	02/05/25	1	ASTM-D2216	BB00664

Volatile Organics - Prep EPA 5035

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1,1-Trichloroethane	ND		0.000363	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
1,1,2,2-Tetrachloroethane	ND	S,	0.000472	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
1,1,2-Trichloroethane	ND		0.000454	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
1,1-Dichloroethane	ND		0.000408	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
1,1-Dichloroethene	ND		0.000436	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB123 (5-7.5) (Continued)
ABB0268-06 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035 (Continued)										
1,2-Dichloroethane	ND		0.000300	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
1,2-Dichloropropane	ND		0.00149	0.00454	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
2-Butanone	ND	S,	0.00215	0.0182	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
2-Hexanone	ND	S,	0.000672	0.0227	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
4-Methyl-2-pentanone	ND	S,	0.000681	0.0227	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Acetone	0.0121	S, J	0.00482	0.0227	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Benzene	ND		0.000281	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Bromoform	ND		0.00149	0.00454	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Bromomethane	ND	S,	0.000418	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Carbon disulfide	ND		0.00136	0.00454	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Carbon tetrachloride	ND	S,	0.000354	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Chlorobenzene	ND		0.000263	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Chloroethane	ND	S,	0.00250	0.00454	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Chloroform	ND		0.000408	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Chloromethane	ND	S,	0.00349	0.00454	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
cis-1,2-Dichloroethene	ND		0.000345	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
cis-1,3-dichloropropene	ND		0.000227	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Dibromochloromethane	ND		0.000390	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Ethylbenzene	ND		0.000354	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
m,p-Xylene	ND		0.000545	0.00182	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Methyl tert-butyl ether	ND	S,	0.000318	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Methylene chloride	ND	S,	0.00234	0.00454	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
o-Xylene	ND		0.000245	0.00182	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Styrene	ND		0.000263	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Tetrachloroethene	ND	S,	0.000545	0.00182	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Toluene	ND		0.000427	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
trans-1,2-Dichloroethene	ND		0.000336	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
trans-1,3-dichloropropene	ND		0.000236	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Trichloroethene	ND		0.000327	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Vinyl chloride	ND		0.000935	0.00454	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	BB00705
Surrogate: 4-Bromofluorobenzene	*99%*			*76-119*			*02/05/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*103%*			*66-137*			*02/05/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*106%*			*80-120*			*02/05/25*	*1*	*8260B*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
Total 1,3-Dichloropropene	ND		0.000227	0.000908	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	[CALC]
Total Xylenes	ND		0.000245	0.00182	mg/kg dry	02/03/25 14:46	02/05/25	1	8260B	[CALC]

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	4240		540	1000	mg/kg Dry	02/03/25 14:46	02/06/25	100	6010B	BB00783

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results
(Continued)

Sample: SB123 (5-7.5) (Continued)
ABB0268-06 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP (Continued)										
Antimony	23.7		0.610	5.00	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Arsenic	10.8		0.330	5.00	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Barium	31.9		0.530	2.50	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Beryllium	0.226	J	0.0290	0.300	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Cadmium	3.51		0.0300	0.250	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Calcium	26100		262	500	mg/kg Dry	02/03/25 14:46	02/06/25	20	6010B	BB00783
Chromium	26.0		0.0870	0.250	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Cobalt	5.71		0.0910	1.25	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Copper	186		1.10	5.00	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Iron	118000		1510	2500	mg/kg Dry	02/03/25 14:46	02/06/25	100	6010B	BB00783
Lead	188	S	0.210	1.25	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Magnesium	6330		63.5	125	mg/kg Dry	02/03/25 14:46	02/06/25	5	6010B	BB00783
Manganese	5720		55.0	75.0	mg/kg Dry	02/03/25 14:46	02/06/25	100	6010B	BB00783
Nickel	10.2		0.260	1.25	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Potassium	437		20.2	25.0	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Selenium	1.11	S, J	0.360	5.00	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Silver	0.595		0.260	0.500	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Sodium	595		19.2	25.0	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Thallium	2.40	G, S, J	1.15	6.25	mg/kg Dry	02/03/25 14:46	02/06/25	5	6010B	BB00783
Vanadium	54.3		0.190	1.25	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783
Zinc	107		1.20	5.00	mg/kg Dry	02/03/25 14:46	02/06/25	1	6010B	BB00783

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached										
Antimony	0.0511		0.00480	0.0350	mg/L	02/03/25 14:46	02/25/25	1	6010B	BB01651
Cadmium	0.000941	J	0.000590	0.0100	mg/L	02/03/25 14:46	02/25/25	1	6010B	BB01651
Copper	0.0167	J	0.00530	0.0500	mg/L	02/03/25 14:46	02/25/25	1	6010B	BB01651
Iron	0.387		0.0520	0.250	mg/L	02/03/25 14:46	02/27/25	1	6010B	BB01796
Lead	0.00638	J	0.00130	0.0250	mg/L	02/03/25 14:46	02/25/25	1	6010B	BB01651
Selenium	0.00972	J	0.00570	0.0250	mg/L	02/03/25 14:46	02/25/25	1	6010B	BB01651
Thallium	0.0369	J	0.00340	0.100	mg/L	02/03/25 14:46	02/25/25	1	6010B	BB01651

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - SPLP Leached										
Antimony	0.0235	J	0.00960	0.0700	mg/L	02/03/25 14:46	02/27/25	1	6010B	BB01882
Manganese	0.0166	J	0.0158	0.0500	mg/L	02/03/25 14:46	02/27/25	1	6010B	BB01882

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

Sample Results

(Continued)

Sample: SB124 (0-3)

ABB0268-07 (Solid)

SVOC

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Acenaphthene	0.516		0.0150	0.0496	mg/kg dry	02/03/25 15:18	02/07/25	1	8270C	BB00760
Acenaphthylene	0.633		0.0114	0.0496	mg/kg dry	02/03/25 15:18	02/07/25	1	8270C	BB00760
Anthracene	4.57		0.0102	0.0496	mg/kg dry	02/03/25 15:18	02/07/25	1	8270C	BB00760
Benzo(a)anthracene	31.1		0.491	2.48	mg/kg dry	02/03/25 15:18	02/17/25	50	8270C	BB00760
Benzo(a)pyrene	32.1		0.991	2.48	mg/kg dry	02/03/25 15:18	02/17/25	50	8270C	BB00760
Benzo(b)fluoranthene	33.2		1.05	2.48	mg/kg dry	02/03/25 15:18	02/17/25	50	8270C	BB00760
Benzo(g,h,i)perylene	19.9		0.849	2.48	mg/kg dry	02/03/25 15:18	02/17/25	50	8270C	BB00760
Benzo(k)fluoranthene	16.2		1.16	2.48	mg/kg dry	02/03/25 15:18	02/17/25	50	8270C	BB00760
Chrysene	23.0		1.58	2.48	mg/kg dry	02/03/25 15:18	02/17/25	50	8270C	BB00760
Dibenzo(a,h)anthracene	3.61		0.0185	0.0496	mg/kg dry	02/03/25 15:18	02/07/25	1	8270C	BB00760
Fluoranthene	62.9		0.818	2.48	mg/kg dry	02/03/25 15:18	02/17/25	50	8270C	BB00760
Fluorene	0.614		0.0119	0.0496	mg/kg dry	02/03/25 15:18	02/07/25	1	8270C	BB00760
Indeno(1,2,3-cd)pyrene	23.6		0.923	2.48	mg/kg dry	02/03/25 15:18	02/17/25	50	8270C	BB00760
Naphthalene	0.227		0.0219	0.0496	mg/kg dry	02/03/25 15:18	02/07/25	1	8270C	BB00760
Phenanthrene	8.60		0.973	2.48	mg/kg dry	02/03/25 15:18	02/17/25	50	8270C	BB00760
Pyrene	49.9		1.24	2.48	mg/kg dry	02/03/25 15:18	02/17/25	50	8270C	BB00760
Surrogate: 2-Fluorobiphenyl		*98%*		*56-123*			*02/07/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5		*119%*		*62-129*			*02/07/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14		*57%*		*44-136*			*02/07/25*	*1*	*8270C*	

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Percent Moisture	20.25869		0.1	0.1	%	02/03/25 15:18	02/05/25	1	ASTM-D2216	BB00664

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Pioneer Environmental Services LLC	Project:	Pioneer Environmental - General	
2753 West 31st Street	Project Number:	8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager:	Pioneer Environmental Services LLC	Reported: 03/20/2025 14:47

23 TAL Soil Package

Hg 7471B	6010 23 TAL

8260 SRP Package

8260 SRP

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METIRI
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134

CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Company Name: PIONEER
Company Address:
City: State: Zip:
Office: Mobile: Fax:
Email Address: SHARTSOCK@PIONEERFES.COM
Project ID / Location: 8080 S LAKE SHORE Dr
Project Manager (Report to): JAKE
Sample Collector(s): JIM

TURNAROUND TIME REQUESTED
☐ Normal ☐ RUSH* 7 DAY
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page 1 of 1
PO #
Report Type ☐ Normal ☐ Special*
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method

LAB USE ONLY
Work Order #
Temperature of Received Samples: 3.3 °C TIIS
Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TCL	PNAs	Lab Comment	LAB #
1	SB120 (0-3)	2/3/25	1049	SO		4	9oz 40ml	NONE MeOH	X			
2	SB121 (0-3)	↓	1203	↓		↓	↓	↓	X			
3	SB122 (0-3)	↓	108	↓		↓	↓	↓	X			
4	SB122 (15-17.5)	↓	124	↓		↓	↓	↓	X			
5	SB123 (0-3)	↓	230	↓		↓	↓	↓	X			
6	SB123 (5-7.5)	↓	246	↓		↓	↓	↓	X			
7	SB124 (0-3)	↓	318	↓		1	9oz	NONE	X	X		
8												
9												
10												
11												
12												

ABB0268
Pioneer Environmental Services LLC

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
[signature]	2/4/25	[signature]	2-4-25				
Received By [signature] ☐ Ice	Time 11:10 AM	Received By [signature] ☑ Ice	Time 4:10	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

March 12, 2025

Pioneer Environmental Services LLC
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S. Lake Shore - Revised
ABB0307

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/05/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Notes and Definitions

Item	Definition
G	Refer to case narrative page for specific comment
H	Holding time for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Analysis Case Narrative

6010:
Samples ABB0307-01 through -06: G= Samples diluted due to interferences which resulted in elevated reporting limits for Thallium.

8270:
Sample ABB0307-01 through -06: G= Samples diluted due to matrix interferences which resulted in elevated reporting limits for this test.

Sample ABB0307-02: S=The MS and/or the MSD percent recoveries for the following analytes were outside laboratory control limits :
Hexachlorocyclopentadiene: 0% and 0% (41% - 105%)
2-Nitrophenol: 53% and 49% (57% - 110%)
2,4-Dinitrophenol: 0% and 0% (45% - 105%)
4,6-Dinitro-2-methylphenol: 0% and 0% (51% - 109%)
Fluoranthene: 54% (56% - 114%)

Sample ABB0307-01: S=The MS and/or the MSD percent recoveries for the following analytes were outside laboratory control limits :
Hexachlorocyclopentadiene: 25% and 6% (41% - 105%)
3,3-Dichlorobenzidine: 20% and 4% (32% - 105%)

Sample ABB0307-01: R=The MS & MSD Precision for the following analytes were greater than laboratory control limits:
Hexachlorocyclopentadiene: 122% (Limit: 30%)
3,3-Dichlorobenzidine: 77% (Limit: 30%)

8081:
Sample ABB0307-05 recovered outside of control limits for the Decachlorobiphenyl surrogate due to matrix interference.

Sample ABB0307-06: S= For gamma-BHC, the MS percent recovery (1450%) and the MSD percent recovery (ND) were outside laboratory control limits (49% - 109%). Matrix interference is suspected.

Sample ABB0307-06: R=The MS & MSD Precision for the following analytes were greater than laboratory control limits:
gamma-BHC; Not calculated (Limit: 30%)
beta-BHC; 34% (Limit: 30%)
Heptachlor epoxide; 33% (Limit: 30%)

8260:
The CCV in sequence SB00441 recovered outside control limit for several analytes.

Samples ABB0307-01 through -06: S=The Blank Spike exceeded the upper acceptance limit for Chloromethane,

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2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

resulting in a high bias. There were no detects in the samples.

Cyanide:
Sample ABB0307-06: S = The spike added to this sample for the MS and MSD was less than the native sample concentration, and therefore recovery cannot be accurately calculated.
Sample ABB0307-06: R = The MS/MSD %RPD (58%) exceeded the acceptance limit (20%).

Sample ABB0307-05: H = TCLP Cyanide was received past the holding time for the 1311 leaching procedure.

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB0307-01	SB125 (0-3)	Solid	02/04/2025 09:17	02/05/2025
ABB0307-01	SB125 (0-3)	Solid	02/04/2025 09:17	02/05/2025
ABB0307-02	SB125 (7.5-10)	Solid	02/04/2025 09:27	02/05/2025
ABB0307-02	SB125 (7.5-10)	Solid	02/04/2025 09:27	02/05/2025
ABB0307-03	SB126 (0-3)	Solid	02/04/2025 10:20	02/05/2025
ABB0307-03	SB126 (0-3)	Solid	02/04/2025 10:20	02/05/2025
ABB0307-04	SB126 (5-7.5)	Solid	02/04/2025 10:28	02/05/2025
ABB0307-04	SB126 (5-7.5)	Solid	02/04/2025 10:28	02/05/2025
ABB0307-05	SB127 (0-3)	Solid	02/04/2025 11:45	02/05/2025
ABB0307-05	SB127 (0-3)	Solid	02/04/2025 11:45	02/05/2025
ABB0307-06	SB127 (5-7.5)	Solid	02/04/2025 11:57	02/05/2025
ABB0307-06	SB127 (5-7.5)	Solid	02/04/2025 11:57	02/05/2025

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results

Sample: SB125 (0-3)

ABB0307-01 (Solid)

SVOC

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,2,4-Trichlorobenzene	ND G,	0.610	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
1,2-Dichlorobenzene	ND G,	0.329	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
1,3-Dichlorobenzene	ND G,	0.352	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
1,4-Dichlorobenzene	ND G,	0.258	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
2,4,5-Trichlorophenol	ND G,	2.46	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
2,4,6-Trichlorophenol	ND G,	2.51	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
2,4-Dichlorophenol	ND G,	2.35	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
2,4-Dimethylphenol	ND G,	3.78	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
2,4-Dinitrophenol	ND G,	4.95	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
2,4-Dinitrotoluene	ND G,	0.962	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
2,6-Dinitrotoluene	ND G,	0.352	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
2-Chloronaphthalene	ND G,	0.399	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
2-Chlorophenol	ND G,	2.23	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
2-Methylnaphthalene	ND G,	0.422	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
2-Nitroaniline	ND G,	2.61	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
2-Nitrophenol	ND G,	2.65	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
3,3-Dichlorobenzidine	ND G,	2.32	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
3-Nitroaniline	ND G,	2.49	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
4,6-Dinitro-2-methylphenol	ND G,	4.04	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
4-Bromophenyl phenyl ether	ND G,	0.422	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
4-Chloro-3-methylphenol	ND G,	2.42	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
4-Chloroaniline	ND G,	3.26	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
4-Chlorophenyl phenyl ether	ND G,	0.305	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
4-Nitroaniline	ND G,	1.53	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
4-Nitrophenol	ND G,	2.14	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Acenaphthene	ND G,	0.376	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Acenaphthylene	ND G,	0.329	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Anthracene	ND G,	0.282	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Benzo(a)anthracene	0.477 G, J	0.235	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Benzo(a)pyrene	ND G,	0.962	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Benzo(b)fluoranthene	0.579 G, J	0.305	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Benzo(g,h,i)perylene	ND G,	0.822	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Benzo(k)fluoranthene	ND G,	0.540	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Bis(2-chloroethoxy)methane	ND G,	0.446	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
bis(2-Chloroethyl)ether	ND G,	0.681	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Bis(2-chloroisopropyl)ether	ND G,	0.563	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Bis(2-ethylhexyl)phthalate	ND G,	2.77	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Butyl benzyl phthalate	ND G,	2.75	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Carbazole	ND G,	0.305	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Chrysene	ND G,	0.305	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Dibenzo(a,h)anthracene	ND G,	0.868	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Dibenzofuran	ND G,	0.352	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Diethyl phthalate	ND G,	2.30	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Dimethyl phthalate	ND G,	2.56	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Di-n-butyl phthalate	ND G,	2.14	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB125 (0-3) (Continued)
ABB0307-01 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Di-n-octyl phthalate	ND	G,	3.07	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Fluoranthene	ND	G,	0.704	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Fluorene	ND	G,	0.352	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Hexachlorobenzene	ND	G,	2.51	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Hexachlorobutadiene	ND	G,	2.42	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Hexachlorocyclopentadiene	ND	G,	2.04	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Hexachloroethane	ND	G,	2.28	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Indeno(1,2,3-cd)pyrene	ND	G,	1.06	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Isophorone	ND	G,	0.376	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
m,p-Cresol	ND	G,	0.556	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Naphthalene	ND	G,	0.352	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Nitrobenzene	ND	G,	0.282	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
N-Nitroso-di-n-propylamine	ND	G,	0.868	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
N-Nitrosodiphenylamine	ND	G,	0.648	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
O-Cresol	ND	G,	0.540	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Pentachlorophenol	ND	G,	4.11	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Phenanthrene	0.376	G, J	0.305	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Phenol	ND	G,	2.37	7.82	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Pyrene	0.610	G, J	0.329	1.57	mg/kg dry	02/04/25 09:17	02/10/25	20	8270C	BB00762
Surrogate: 2,4,6-Tribromophenol	*49%*	G	*38-105*				*02/10/25*	*20*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*61%*	G	*40-110*				*02/10/25*	*20*	*8270C*	
Surrogate: 2-Fluorophenol	*57%*	G	*41-105*				*02/10/25*	*20*	*8270C*	
Surrogate: 4-Terphenyl-d14	*56%*	G	*26-133*				*02/10/25*	*20*	*8270C*	
Surrogate: Nitrobenzene-d5	*70%*	G	*27-129*				*02/10/25*	*20*	*8270C*	
Surrogate: Phenol-d5	*51%*	G	*43-105*				*02/10/25*	*20*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND		0.000446	0.00156	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
4,4´-DDE	ND		0.000470	0.00156	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
4,4´-DDT	ND		0.00123	0.00156	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Aldrin	ND		0.000223	0.000783	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
alpha-BHC	ND		0.000387	0.000783	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
alpha-Chlordane	ND		0.000211	0.000783	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
beta-BHC	ND		0.000376	0.000783	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Chlordane, Technical	ND		0.0231	0.0391	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
delta-BHC	ND		0.000223	0.000783	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Dieldrin	ND		0.000481	0.00156	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Endosulfan I	ND		0.000188	0.000783	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Endosulfan II	ND		0.000399	0.00156	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Endosulfan sulfate	ND		0.000411	0.00156	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Endrin	ND		0.000505	0.00156	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Endrin aldehyde	ND		0.000458	0.00156	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Endrin ketone	ND		0.000540	0.00156	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB125 (0-3) (Continued)
ABB0307-01 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides (Continued)										
gamma-BHC	ND		0.000247	0.000783	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
gamma-Chlordane	ND		0.000282	0.000783	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Heptachlor	ND		0.000364	0.000783	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Heptachlor epoxide	ND		0.000188	0.000783	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Methoxychlor	ND		0.00728	0.00783	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Toxaphene	ND		0.0467	0.0978	mg/kg dry	02/04/25 09:17	02/07/25	1	8081	BB00761
Surrogate: Decachlorobiphenyl		*82%*		*29-133*			*02/07/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*52%*		*36-118*			*02/07/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - PCBs										
Aroclor 1016	ND		0.00403	0.0197	mg/kg dry	02/04/25 09:17	02/07/25	1	8082	BB00761
Aroclor 1221	ND		0.00441	0.0197	mg/kg dry	02/04/25 09:17	02/07/25	1	8082	BB00761
Aroclor 1232	ND		0.00354	0.0197	mg/kg dry	02/04/25 09:17	02/07/25	1	8082	BB00761
Aroclor 1242	ND		0.00359	0.0197	mg/kg dry	02/04/25 09:17	02/07/25	1	8082	BB00761
Aroclor 1248	ND		0.00398	0.0197	mg/kg dry	02/04/25 09:17	02/07/25	1	8082	BB00761
Aroclor 1254	ND		0.00455	0.0197	mg/kg dry	02/04/25 09:17	02/07/25	1	8082	BB00761
Aroclor 1260	ND		0.00774	0.0197	mg/kg dry	02/04/25 09:17	02/07/25	1	8082	BB00761
Surrogate: Decachlorobiphenyl		*88%*		*20-142*			*02/07/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene		*57%*		*22-123*			*02/07/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA										
Mercury	0.0681	J	0.0537	0.117	mg/kg dry	02/04/25 09:17	02/10/25	1	7471B	BB00863

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry										
Cyanide, Total	8.4		0.31	0.35	mg/kg dry	02/04/25 09:17	02/06/25	5	9014	BB00774
pH	8.15		0.100	0.100	pH Units	02/04/25 09:17	02/06/25	1	SW 9045D	BB00858
Temperature	21.4		1.00	1.00	pH Units	02/04/25 09:17	02/06/25	1	SW 9045D	BB00858
Percent Moisture	15.15855		0.1	0.1	%	02/04/25 09:17	02/06/25	1	ASTM-D2216	BB00749
% Solids	84.84145		0.1	0.1	%	02/04/25 09:17	02/06/25	1	ASTM-D2216	BB00749

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035										
1,1,1-Trichloroethane	ND		0.000400	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
1,1,2,2-Tetrachloroethane	ND	S,	0.000520	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
1,1,2-Trichloroethane	ND		0.000500	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB125 (0-3) (Continued)
ABB0307-01 (Solid)

Volatile Organics - Prep EPA 5035 (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1-Dichloroethane	ND		0.000450	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
1,1-Dichloroethene	ND		0.000480	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
1,2-Dichloroethane	ND		0.000330	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
1,2-Dichloropropane	ND		0.00164	0.00500	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
2-Butanone	ND	S,	0.00237	0.0200	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
2-Hexanone	ND	S,	0.000740	0.0250	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
4-Methyl-2-pentanone	ND	S,	0.000750	0.0250	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Acetone	ND	S,	0.00531	0.0250	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Benzene	ND		0.000310	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Bromoform	ND		0.00164	0.00500	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Bromomethane	ND	S,	0.000460	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Carbon disulfide	ND		0.00150	0.00500	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Carbon tetrachloride	ND	S,	0.000390	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Chlorobenzene	ND		0.000290	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Chloroethane	ND	S,	0.00275	0.00500	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Chloroform	ND		0.000450	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Chloromethane	ND	S,	0.00385	0.00500	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
cis-1,2-Dichloroethene	ND		0.000380	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
cis-1,3-dichloropropene	ND		0.000250	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Dibromochloromethane	ND		0.000430	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Ethylbenzene	ND		0.000390	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
m,p-Xylene	ND		0.000600	0.00200	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Methyl tert-butyl ether	ND	S,	0.000350	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Methylene chloride	ND	S,	0.00258	0.00500	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
o-Xylene	ND		0.000270	0.00200	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Styrene	ND		0.000290	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Tetrachloroethene	ND	S,	0.000600	0.00200	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Toluene	ND		0.000470	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
trans-1,2-Dichloroethene	ND		0.000370	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
trans-1,3-dichloropropene	ND		0.000260	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Trichloroethene	ND		0.000360	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Vinyl chloride	ND		0.00103	0.00500	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	BB00705
Surrogate: 4-Bromofluorobenzene	*101%*			*76-119*			*02/05/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*99%*			*66-137*			*02/05/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*105%*			*80-120*			*02/05/25*	*1*	*8260B*	

Volatile Organics

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Total 1,3-Dichloropropene	ND		0.000250	0.000999	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	[CALC]
Total Xylenes	ND		0.000270	0.00200	mg/kg dry	02/04/25 09:17	02/05/25	1	8260B	[CALC]

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB125 (0-3) (Continued)
ABB0307-01 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	9180		535	990	mg/kg Dry	02/04/25 09:17	02/06/25	100	6010B	BB00783
Antimony	0.859	J	0.604	4.95	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Arsenic	20.3		0.327	4.95	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Barium	124		0.525	2.48	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Beryllium	2.02		0.0287	0.297	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Cadmium	7.95		0.0297	0.248	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Calcium	37600		259	495	mg/kg Dry	02/04/25 09:17	02/06/25	20	6010B	BB00783
Chromium	15.0		0.0861	0.248	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Cobalt	9.30		0.0901	1.24	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Copper	96.5		1.09	4.95	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Iron	120000		1500	2480	mg/kg Dry	02/04/25 09:17	02/06/25	100	6010B	BB00783
Lead	277		1.04	6.19	mg/kg Dry	02/04/25 09:17	02/06/25	5	6010B	BB00783
Magnesium	3590		62.9	124	mg/kg Dry	02/04/25 09:17	02/06/25	5	6010B	BB00783
Manganese	3320		10.9	14.9	mg/kg Dry	02/04/25 09:17	02/06/25	20	6010B	BB00783
Nickel	20.6		0.257	1.24	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Potassium	628		20.0	24.8	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Selenium	0.963	J	0.356	4.95	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Silver	0.883		0.257	0.495	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Sodium	460		19.0	24.8	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Thallium	ND	G,	1.14	6.19	mg/kg Dry	02/04/25 09:17	02/06/25	5	6010B	BB00783
Vanadium	21.4		0.188	1.24	mg/kg Dry	02/04/25 09:17	02/06/25	1	6010B	BB00783
Zinc	4100		119	495	mg/kg Dry	02/04/25 09:17	02/06/25	100	6010B	BB00783

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached										
Iron	0.312		0.0520	0.250	mg/L	02/04/25 09:17	03/03/25	1	6010B	BB01988
Lead	0.0149	J	0.00130	0.0250	mg/L	02/04/25 09:17	03/03/25	1	6010B	BB01988

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - SPLP Leached										
Manganese	0.862		0.0158	0.0500	mg/L	02/04/25 09:17	02/27/25	1	6010B	BB01883

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results

(Continued)

Sample: SB125 (7.5-10)

ABB0307-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
1,2,4-Trichlorobenzene	ND G,	0.578	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
1,2-Dichlorobenzene	ND G,	0.311	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
1,3-Dichlorobenzene	ND G,	0.333	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
1,4-Dichlorobenzene	ND G,	0.245	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
2,4,5-Trichlorophenol	ND G,	2.33	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
2,4,6-Trichlorophenol	ND G,	2.38	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
2,4-Dichlorophenol	ND G,	2.22	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
2,4-Dimethylphenol	ND G,	3.58	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
2,4-Dinitrophenol	ND G, S,	4.69	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
2,4-Dinitrotoluene	ND G,	0.911	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
2,6-Dinitrotoluene	ND G,	0.333	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
2-Chloronaphthalene	ND G,	0.378	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
2-Chlorophenol	ND G,	2.11	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
2-Methylnaphthalene	ND G,	0.400	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
2-Nitroaniline	ND G,	2.47	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
2-Nitrophenol	ND G, S,	2.51	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
3,3-Dichlorobenzidine	ND G,	2.20	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
3-Nitroaniline	ND G,	2.36	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
4,6-Dinitro-2-methylphenol	ND G, S,	3.82	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
4-Bromophenyl phenyl ether	ND G,	0.400	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
4-Chloro-3-methylphenol	ND G,	2.29	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
4-Chloroaniline	ND G,	3.09	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
4-Chlorophenyl phenyl ether	ND G,	0.289	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
4-Nitroaniline	ND G,	1.44	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
4-Nitrophenol	ND G,	2.02	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Acenaphthene	ND G,	0.356	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Acenaphthylene	ND G,	0.311	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Anthracene	ND G,	0.267	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Benzo(a)anthracene	0.370 G, J	0.222	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Benzo(a)pyrene	ND G,	0.911	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Benzo(b)fluoranthene	ND G,	0.289	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Benzo(g,h,i)perylene	ND G,	0.778	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Benzo(k)fluoranthene	ND G,	0.511	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Bis(2-chloroethoxy)methane	ND G,	0.422	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
bis(2-Chloroethyl)ether	ND G,	0.645	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Bis(2-chloroisopropyl)ether	ND G,	0.533	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Bis(2-ethylhexyl)phthalate	ND G,	2.62	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Butyl benzyl phthalate	ND G,	2.60	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Carbazole	ND G,	0.289	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Chrysene	ND G,	0.289	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Dibenzo(a,h)anthracene	ND G,	0.822	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Dibenzofuran	ND G,	0.333	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Diethyl phthalate	ND G,	2.18	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Dimethyl phthalate	ND G,	2.42	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Di-n-butyl phthalate	ND G,	2.02	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB125 (7.5-10) (Continued)
ABB0307-02 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Di-n-octyl phthalate	ND	G,	2.91	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Fluoranthene	ND	G, S,	0.667	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Fluorene	ND	G,	0.333	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Hexachlorobenzene	ND	G,	2.38	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Hexachlorobutadiene	ND	G,	2.29	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Hexachlorocyclopentadiene	ND	G, S,	1.93	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Hexachloroethane	ND	G,	2.16	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Indeno(1,2,3-cd)pyrene	ND	G,	1.00	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Isophorone	ND	G,	0.356	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
m,p-Cresol	ND	G,	0.527	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Naphthalene	ND	G,	0.333	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Nitrobenzene	ND	G,	0.267	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
N-Nitroso-di-n-propylamine	ND	G,	0.822	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
N-Nitrosodiphenylamine	ND	G,	0.613	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
O-Cresol	ND	G,	0.511	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Pentachlorophenol	ND	G,	3.89	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Phenanthrene	ND	G,	0.289	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Phenol	ND	G,	2.25	7.40	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Pyrene	0.459	G, J	0.311	1.48	mg/kg dry	02/04/25 09:27	02/10/25	20	8270C	BB00762
Surrogate: 2,4,6-Tribromophenol	*57%*	G	*38-105*				*02/10/25*	*20*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*66%*	G	*40-110*				*02/10/25*	*20*	*8270C*	
Surrogate: 2-Fluorophenol	*62%*	G	*41-105*				*02/10/25*	*20*	*8270C*	
Surrogate: 4-Terphenyl-d14	*48%*	G	*26-133*				*02/10/25*	*20*	*8270C*	
Surrogate: Nitrobenzene-d5	*70%*	G	*27-129*				*02/10/25*	*20*	*8270C*	
Surrogate: Phenol-d5	*57%*	G	*43-105*				*02/10/25*	*20*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND		0.000421	0.00147	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
4,4´-DDE	ND		0.000444	0.00147	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
4,4´-DDT	ND		0.00116	0.00147	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Aldrin	ND		0.000211	0.000740	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
alpha-BHC	ND		0.000366	0.000740	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
alpha-Chlordane	ND		0.000200	0.000740	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
beta-BHC	ND		0.000355	0.000740	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Chlordane, Technical	ND		0.0218	0.0369	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
delta-BHC	ND		0.000211	0.000740	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Dieldrin	ND		0.000455	0.00147	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Endosulfan I	ND		0.000177	0.000740	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Endosulfan II	ND		0.000377	0.00147	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Endosulfan sulfate	ND		0.000388	0.00147	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Endrin	ND		0.000477	0.00147	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Endrin aldehyde	ND		0.000432	0.00147	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Endrin ketone	ND		0.000510	0.00147	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB125 (7.5-10) (Continued)
ABB0307-02 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	ND		0.000233	0.000740	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
gamma-Chlordane	ND		0.000266	0.000740	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Heptachlor	ND		0.000344	0.000740	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Heptachlor epoxide	ND		0.000177	0.000740	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Methoxychlor	ND		0.00687	0.00740	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Toxaphene	ND		0.0441	0.0924	mg/kg dry	02/04/25 09:27	02/07/25	1	8081	BB00761
Surrogate: Decachlorobiphenyl		*67%*		*29-133*			*02/07/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*54%*		*36-118*			*02/07/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00381	0.0186	mg/kg dry	02/04/25 09:27	02/07/25	1	8082	BB00761
Aroclor 1221	ND		0.00417	0.0186	mg/kg dry	02/04/25 09:27	02/07/25	1	8082	BB00761
Aroclor 1232	ND		0.00334	0.0186	mg/kg dry	02/04/25 09:27	02/07/25	1	8082	BB00761
Aroclor 1242	ND		0.00340	0.0186	mg/kg dry	02/04/25 09:27	02/07/25	1	8082	BB00761
Aroclor 1248	ND		0.00377	0.0186	mg/kg dry	02/04/25 09:27	02/07/25	1	8082	BB00761
Aroclor 1254	ND		0.00430	0.0186	mg/kg dry	02/04/25 09:27	02/07/25	1	8082	BB00761
Aroclor 1260	ND		0.00732	0.0186	mg/kg dry	02/04/25 09:27	02/07/25	1	8082	BB00761
Surrogate: Decachlorobiphenyl		*66%*		*20-142*			*02/07/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene		*65%*		*22-123*			*02/07/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0530	0.116	mg/kg dry	02/04/25 09:27	02/10/25	1	7471B	BB00863

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	0.23		0.059	0.067	mg/kg dry	02/04/25 09:27	02/06/25	1	9014	BB00774
pH	8.83		0.100	0.100	pH Units	02/04/25 09:27	02/06/25	1	SW 9045D	BB00858
Temperature	21.5		1.00	1.00	pH Units	02/04/25 09:27	02/06/25	1	SW 9045D	BB00858
Percent Moisture	10.29343		0.1	0.1	%	02/04/25 09:27	02/06/25	1	ASTM-D2216	BB00749
% Solids	89.70657		0.1	0.1	%	02/04/25 09:27	02/06/25	1	ASTM-D2216	BB00749

Volatile Organics - Prep EPA 5035

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1,1-Trichloroethane	ND		0.000333	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
1,1,2,2-Tetrachloroethane	ND	S,	0.000432	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
1,1,2-Trichloroethane	ND		0.000416	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB125 (7.5-10) (Continued)
ABB0307-02 (Solid)

Volatile Organics - Prep EPA 5035 (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1-Dichloroethane	ND		0.000374	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
1,1-Dichloroethene	ND		0.000399	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
1,2-Dichloroethane	ND		0.000274	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
1,2-Dichloropropane	ND		0.00136	0.00416	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
2-Butanone	ND	S,	0.00197	0.0166	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
2-Hexanone	ND	S,	0.000615	0.0208	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
4-Methyl-2-pentanone	ND	S,	0.000624	0.0208	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Acetone	0.0135	S, J	0.00441	0.0208	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Benzene	ND		0.000258	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Bromoform	ND		0.00136	0.00416	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Bromomethane	ND	S,	0.000382	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Carbon disulfide	ND		0.00125	0.00416	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Carbon tetrachloride	ND	S,	0.000324	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Chlorobenzene	ND		0.000241	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Chloroethane	ND	S,	0.00229	0.00416	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Chloroform	ND		0.000374	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Chloromethane	ND	S,	0.00320	0.00416	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
cis-1,2-Dichloroethene	ND		0.000316	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
cis-1,3-dichloropropene	ND		0.000208	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Dibromochloromethane	ND		0.000358	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Ethylbenzene	ND		0.000324	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
m,p-Xylene	ND		0.000499	0.00166	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Methyl tert-butyl ether	ND	S,	0.000291	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Methylene chloride	ND	S,	0.00215	0.00416	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
o-Xylene	ND		0.000224	0.00166	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Styrene	ND		0.000241	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Tetrachloroethene	ND	S,	0.000499	0.00166	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Toluene	0.00105		0.000391	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
trans-1,2-Dichloroethene	ND		0.000308	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
trans-1,3-dichloropropene	ND		0.000216	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Trichloroethene	ND		0.000299	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Vinyl chloride	ND		0.000856	0.00416	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	BB00705
Surrogate: 4-Bromofluorobenzene		*102%*		*76-119*			*02/05/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane		*97%*		*66-137*			*02/05/25*	*1*	*8260B*	
Surrogate: Toluene-d8		*108%*		*80-120*			*02/05/25*	*1*	*8260B*	

Volatile Organics

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Total 1,3-Dichloropropene	ND		0.000208	0.000831	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	[CALC]
Total Xylenes	ND		0.000224	0.00166	mg/kg dry	02/04/25 09:27	02/05/25	1	8260B	[CALC]

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB125 (7.5-10) (Continued)
ABB0307-02 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	4530		540	1000	mg/kg Dry	02/04/25 09:27	02/06/25	100	6010B	BB00783
Antimony	ND		0.610	5.00	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Arsenic	6.82		0.330	5.00	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Barium	43.1		0.530	2.50	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Beryllium	0.327		0.0290	0.300	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Cadmium	3.87		0.0300	0.250	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Calcium	30900		262	500	mg/kg Dry	02/04/25 09:27	02/06/25	20	6010B	BB00783
Chromium	227		0.435	1.25	mg/kg Dry	02/04/25 09:27	02/06/25	5	6010B	BB00783
Cobalt	5.89		0.0910	1.25	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Copper	46.4		1.10	5.00	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Iron	118000		1510	2500	mg/kg Dry	02/04/25 09:27	02/06/25	100	6010B	BB00783
Lead	47.8		0.210	1.25	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Magnesium	12300		254	500	mg/kg Dry	02/04/25 09:27	02/06/25	20	6010B	BB00783
Manganese	9310		55.0	75.0	mg/kg Dry	02/04/25 09:27	02/06/25	100	6010B	BB00783
Nickel	9.09		0.260	1.25	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Potassium	339		20.2	25.0	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Selenium	1.84	J	0.360	5.00	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Silver	0.831		0.260	0.500	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Sodium	145		19.2	25.0	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Thallium	2.48	G, J	1.15	6.25	mg/kg Dry	02/04/25 09:27	02/06/25	5	6010B	BB00783
Vanadium	78.2		0.190	1.25	mg/kg Dry	02/04/25 09:27	02/06/25	1	6010B	BB00783
Zinc	439		6.00	25.0	mg/kg Dry	02/04/25 09:27	02/06/25	5	6010B	BB00783

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached										
Chromium	0.00474	J	0.00300	0.0250	mg/L	02/04/25 09:27	03/03/25	1	6010B	BB01988
Copper	0.0105	J	0.00530	0.0500	mg/L	02/04/25 09:27	03/03/25	1	6010B	BB01988
Iron	31.7		0.0520	0.250	mg/L	02/04/25 09:27	03/03/25	1	6010B	BB01988

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - SPLP Leached										
Iron	2.50		0.104	0.500	mg/L	02/04/25 09:27	02/27/25	1	6010B	BB01883
Manganese	0.0773		0.0158	0.0500	mg/L	02/04/25 09:27	02/27/25	1	6010B	BB01883

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results

(Continued)

Sample: SB126 (0-3)

ABB0307-03 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
1,2,4-Trichlorobenzene	ND G,	0.595	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
1,2-Dichlorobenzene	ND G,	0.320	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
1,3-Dichlorobenzene	ND G,	0.343	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
1,4-Dichlorobenzene	ND G,	0.252	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
2,4,5-Trichlorophenol	ND G,	2.40	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
2,4,6-Trichlorophenol	ND G,	2.45	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
2,4-Dichlorophenol	ND G,	2.29	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
2,4-Dimethylphenol	ND G,	3.68	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
2,4-Dinitrophenol	ND G,	4.83	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
2,4-Dinitrotoluene	ND G,	0.938	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
2,6-Dinitrotoluene	ND G,	0.343	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
2-Chloronaphthalene	ND G,	0.389	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
2-Chlorophenol	ND G,	2.17	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
2-Methylnaphthalene	ND G,	0.412	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
2-Nitroaniline	ND G,	2.54	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
2-Nitrophenol	ND G,	2.59	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
3,3-Dichlorobenzidine	ND G,	2.26	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
3-Nitroaniline	ND G,	2.42	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
4,6-Dinitro-2-methylphenol	ND G,	3.93	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
4-Bromophenyl phenyl ether	ND G,	0.412	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
4-Chloro-3-methylphenol	ND G,	2.36	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
4-Chloroaniline	ND G,	3.18	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
4-Chlorophenyl phenyl ether	ND G,	0.297	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
4-Nitroaniline	ND G,	1.49	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
4-Nitrophenol	ND G,	2.08	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Acenaphthene	ND G,	0.366	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Acenaphthylene	ND G,	0.320	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Anthracene	ND G,	0.275	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Benzo(a)anthracene	0.397 G, J	0.229	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Benzo(a)pyrene	ND G,	0.938	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Benzo(b)fluoranthene	0.526 G, J	0.297	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Benzo(g,h,i)perylene	ND G,	0.801	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Benzo(k)fluoranthene	ND G,	0.526	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Bis(2-chloroethoxy)methane	ND G,	0.435	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
bis(2-Chloroethyl)ether	ND G,	0.663	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Bis(2-chloroisopropyl)ether	ND G,	0.549	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Bis(2-ethylhexyl)phthalate	ND G,	2.70	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Butyl benzyl phthalate	ND G,	2.68	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Carbazole	ND G,	0.297	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Chrysene	ND G,	0.297	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Dibenzo(a,h)anthracene	ND G,	0.846	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Dibenzofuran	ND G,	0.343	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Diethyl phthalate	ND G,	2.24	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Dimethyl phthalate	ND G,	2.49	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Di-n-butyl phthalate	ND G,	2.08	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762

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2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB126 (0-3) (Continued)
ABB0307-03 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Di-n-octyl phthalate	ND	G,	3.00	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Fluoranthene	ND	G,	0.686	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Fluorene	ND	G,	0.343	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Hexachlorobenzene	ND	G,	2.45	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Hexachlorobutadiene	ND	G,	2.36	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Hexachlorocyclopentadiene	ND	G,	1.99	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Hexachloroethane	ND	G,	2.22	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Indeno(1,2,3-cd)pyrene	ND	G,	1.03	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Isophorone	ND	G,	0.366	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
m,p-Cresol	ND	G,	0.542	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Naphthalene	ND	G,	0.343	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Nitrobenzene	ND	G,	0.275	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
N-Nitroso-di-n-propylamine	ND	G,	0.846	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
N-Nitrosodiphenylamine	ND	G,	0.631	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
O-Cresol	ND	G,	0.526	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Pentachlorophenol	ND	G,	4.00	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Phenanthrene	ND	G,	0.297	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Phenol	ND	G,	2.31	7.62	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Pyrene	0.503	G, J	0.320	1.53	mg/kg dry	02/04/25 10:20	02/10/25	20	8270C	BB00762
Surrogate: 2,4,6-Tribromophenol	*55%*	G	*38-105*				*02/10/25*	*20*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*64%*	G	*40-110*				*02/10/25*	*20*	*8270C*	
Surrogate: 2-Fluorophenol	*62%*	G	*41-105*				*02/10/25*	*20*	*8270C*	
Surrogate: 4-Terphenyl-d14	*47%*	G	*26-133*				*02/10/25*	*20*	*8270C*	
Surrogate: Nitrobenzene-d5	*72%*	G	*27-129*				*02/10/25*	*20*	*8270C*	
Surrogate: Phenol-d5	*57%*	G	*43-105*				*02/10/25*	*20*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND		0.000435	0.00152	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
4,4´-DDE	ND		0.000458	0.00152	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
4,4´-DDT	ND		0.00120	0.00152	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Aldrin	ND		0.000218	0.000764	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
alpha-BHC	ND		0.000378	0.000764	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
alpha-Chlordane	ND		0.000206	0.000764	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
beta-BHC	ND		0.000367	0.000764	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Chlordane, Technical	ND		0.0226	0.0382	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
delta-BHC	ND		0.000218	0.000764	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Dieldrin	ND		0.000470	0.00152	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Endosulfan I	ND		0.000183	0.000764	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Endosulfan II	ND		0.000390	0.00152	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Endosulfan sulfate	ND		0.000401	0.00152	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Endrin	ND		0.000493	0.00152	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Endrin aldehyde	ND		0.000447	0.00152	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Endrin ketone	ND		0.000527	0.00152	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB126 (0-3) (Continued)
ABB0307-03 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	ND		0.000241	0.000764	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
gamma-Chlordane	ND		0.000275	0.000764	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Heptachlor	ND		0.000355	0.000764	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Heptachlor epoxide	ND		0.000183	0.000764	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Methoxychlor	ND		0.00710	0.00764	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Toxaphene	ND		0.0456	0.0954	mg/kg dry	02/04/25 10:20	02/07/25	1	8081	BB00761
Surrogate: Decachlorobiphenyl		*57%*		*29-133*			*02/07/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*60%*		*36-118*			*02/07/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00393	0.0192	mg/kg dry	02/04/25 10:20	02/07/25	1	8082	BB00761
Aroclor 1221	ND		0.00430	0.0192	mg/kg dry	02/04/25 10:20	02/07/25	1	8082	BB00761
Aroclor 1232	ND		0.00345	0.0192	mg/kg dry	02/04/25 10:20	02/07/25	1	8082	BB00761
Aroclor 1242	ND		0.00350	0.0192	mg/kg dry	02/04/25 10:20	02/07/25	1	8082	BB00761
Aroclor 1248	ND		0.00388	0.0192	mg/kg dry	02/04/25 10:20	02/07/25	1	8082	BB00761
Aroclor 1254	ND		0.00443	0.0192	mg/kg dry	02/04/25 10:20	02/07/25	1	8082	BB00761
Aroclor 1260	ND		0.00755	0.0192	mg/kg dry	02/04/25 10:20	02/07/25	1	8082	BB00761
Surrogate: Decachlorobiphenyl		*59%*		*20-142*			*02/07/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene		*70%*		*22-123*			*02/07/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0485	0.106	mg/kg dry	02/04/25 10:20	02/10/25	1	7471B	BB00863

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	0.30		0.061	0.069	mg/kg dry	02/04/25 10:20	02/06/25	1	9014	BB00774
pH	9.60		0.100	0.100	pH Units	02/04/25 10:20	02/06/25	1	SW 9045D	BB00858
Temperature	21.5		1.00	1.00	pH Units	02/04/25 10:20	02/06/25	1	SW 9045D	BB00858
Percent Moisture	12.95117		0.1	0.1	%	02/04/25 10:20	02/06/25	1	ASTM-D2216	BB00749
% Solids	87.04884		0.1	0.1	%	02/04/25 10:20	02/06/25	1	ASTM-D2216	BB00749

Volatile Organics - Prep EPA 5035

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1,1-Trichloroethane	ND		0.000358	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
1,1,2,2-Tetrachloroethane	ND	S,	0.000465	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
1,1,2-Trichloroethane	ND		0.000447	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB126 (0-3) (Continued)
ABB0307-03 (Solid)

Volatile Organics - Prep EPA 5035 (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1-Dichloroethane	ND		0.000402	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
1,1-Dichloroethene	ND		0.000429	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
1,2-Dichloroethane	ND		0.000295	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
1,2-Dichloropropane	ND		0.00147	0.00447	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
2-Butanone	ND	S,	0.00212	0.0179	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
2-Hexanone	ND	S,	0.000662	0.0224	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
4-Methyl-2-pentanone	ND	S,	0.000671	0.0224	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Acetone	0.0171	S, J	0.00475	0.0224	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Benzene	ND		0.000277	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Bromoform	ND		0.00147	0.00447	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Bromomethane	ND	S,	0.000411	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Carbon disulfide	ND		0.00134	0.00447	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Carbon tetrachloride	ND	S,	0.000349	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Chlorobenzene	ND		0.000259	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Chloroethane	ND	S,	0.00246	0.00447	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Chloroform	ND		0.000402	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Chloromethane	ND	S,	0.00344	0.00447	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
cis-1,2-Dichloroethene	ND		0.000340	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
cis-1,3-dichloropropene	ND		0.000224	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Dibromochloromethane	ND		0.000384	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Ethylbenzene	ND		0.000349	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
m,p-Xylene	ND		0.000536	0.00179	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Methyl tert-butyl ether	ND	S,	0.000313	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Methylene chloride	ND	S,	0.00231	0.00447	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
o-Xylene	ND		0.000241	0.00179	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Styrene	ND		0.000259	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Tetrachloroethene	ND	S,	0.000536	0.00179	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Toluene	ND		0.000420	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
trans-1,2-Dichloroethene	ND		0.000331	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
trans-1,3-dichloropropene	ND		0.000232	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Trichloroethene	ND		0.000322	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Vinyl chloride	ND		0.000921	0.00447	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	BB00705
Surrogate: 4-Bromofluorobenzene	*104%*			*76-119*			*02/05/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*94%*			*66-137*			*02/05/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*102%*			*80-120*			*02/05/25*	*1*	*8260B*	

Volatile Organics

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Total 1,3-Dichloropropene	ND		0.000224	0.000894	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	[CALC]
Total Xylenes	ND		0.000241	0.00179	mg/kg dry	02/04/25 10:20	02/05/25	1	8260B	[CALC]

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB126 (0-3) (Continued)
ABB0307-03 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	7330		540	1000	mg/kg Dry	02/04/25 10:20	02/06/25	100	6010B	BB00783
Aluminum	8410		1080	2000	mg/kg Dry	02/04/25 10:20	02/07/25	200	6010B	BB00783
Antimony	ND		0.610	5.00	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Arsenic	3.31	J	0.330	5.00	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Barium	51.6		0.530	2.50	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Beryllium	0.454		0.0290	0.300	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Cadmium	3.21		0.0300	0.250	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Calcium	74100		1310	2500	mg/kg Dry	02/04/25 10:20	02/06/25	100	6010B	BB00783
Chromium	594		0.435	1.25	mg/kg Dry	02/04/25 10:20	02/06/25	5	6010B	BB00783
Cobalt	3.89		0.0910	1.25	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Copper	19.4		1.10	5.00	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Iron	111000		1510	2500	mg/kg Dry	02/04/25 10:20	02/06/25	100	6010B	BB00783
Lead	15.7		0.210	1.25	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Magnesium	33600		254	500	mg/kg Dry	02/04/25 10:20	02/06/25	20	6010B	BB00783
Manganese	26100		110	150	mg/kg Dry	02/04/25 10:20	02/07/25	200	6010B	BB00783
Nickel	9.97		0.260	1.25	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Potassium	345		20.2	25.0	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Selenium	4.67	J	0.360	5.00	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Silver	1.60		0.260	0.500	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Sodium	149		19.2	25.0	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Thallium	6.80	G, J	4.60	25.0	mg/kg Dry	02/04/25 10:20	02/06/25	20	6010B	BB00783
Vanadium	158		0.190	1.25	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783
Zinc	58.3		1.20	5.00	mg/kg Dry	02/04/25 10:20	02/06/25	1	6010B	BB00783

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached										
Cadmium	ND		0.000590	0.0100	mg/L	02/04/25 10:20	02/25/25	1	6010B	BB01651
Chromium	ND		0.00300	0.0250	mg/L	02/04/25 10:20	02/25/25	1	6010B	BB01651
Iron	0.374		0.0520	0.250	mg/L	02/04/25 10:20	02/27/25	1	6010B	BB01796
Selenium	ND		0.00570	0.0250	mg/L	02/04/25 10:20	02/25/25	1	6010B	BB01651
Silver	ND		0.00210	0.0100	mg/L	02/04/25 10:20	02/27/25	1	6010B	BB01796
Thallium	0.00383	J	0.00340	0.100	mg/L	02/04/25 10:20	02/25/25	1	6010B	BB01651
Vanadium	0.0156	J	0.00120	0.0500	mg/L	02/04/25 10:20	02/25/25	1	6010B	BB01651

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - SPLP Leached										
Manganese	0.0976		0.0158	0.0500	mg/L	02/04/25 10:20	02/27/25	1	6010B	BB01882

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results

(Continued)

Sample: SB126 (5-7.5)

ABB0307-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
1,2,4-Trichlorobenzene	ND G,	0.615	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
1,2-Dichlorobenzene	ND G,	0.331	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
1,3-Dichlorobenzene	ND G,	0.355	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
1,4-Dichlorobenzene	ND G,	0.260	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
2,4,5-Trichlorophenol	ND G,	2.48	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
2,4,6-Trichlorophenol	ND G,	2.53	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
2,4-Dichlorophenol	ND G,	2.37	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
2,4-Dimethylphenol	ND G,	3.81	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
2,4-Dinitrophenol	ND G,	4.99	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
2,4-Dinitrotoluene	ND G,	0.970	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
2,6-Dinitrotoluene	ND G,	0.355	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
2-Chloronaphthalene	ND G,	0.402	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
2-Chlorophenol	ND G,	2.25	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
2-Methylnaphthalene	ND G,	0.426	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
2-Nitroaniline	ND G,	2.63	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
2-Nitrophenol	ND G,	2.67	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
3,3-Dichlorobenzidine	ND G,	2.34	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
3-Nitroaniline	ND G,	2.51	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
4,6-Dinitro-2-methylphenol	ND G,	4.07	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
4-Bromophenyl phenyl ether	ND G,	0.426	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
4-Chloro-3-methylphenol	ND G,	2.44	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
4-Chloroaniline	ND G,	3.29	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
4-Chlorophenyl phenyl ether	ND G,	0.308	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
4-Nitroaniline	ND G,	1.54	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
4-Nitrophenol	ND G,	2.15	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Acenaphthene	ND G,	0.378	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Acenaphthylene	ND G,	0.331	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Anthracene	ND G,	0.284	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Benzo(a)anthracene	0.442 G, J	0.237	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Benzo(a)pyrene	ND G,	0.970	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Benzo(b)fluoranthene	ND G,	0.308	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Benzo(g,h,i)perylene	ND G,	0.828	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Benzo(k)fluoranthene	ND G,	0.544	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Bis(2-chloroethoxy)methane	ND G,	0.449	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
bis(2-Chloroethyl)ether	ND G,	0.686	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Bis(2-chloroisopropyl)ether	ND G,	0.568	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Bis(2-ethylhexyl)phthalate	ND G,	2.79	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Butyl benzyl phthalate	ND G,	2.77	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Carbazole	ND G,	0.308	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Chrysene	ND G,	0.308	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Dibenzo(a,h)anthracene	ND G,	0.875	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Dibenzofuran	ND G,	0.355	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Diethyl phthalate	ND G,	2.32	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Dimethyl phthalate	ND G,	2.58	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Di-n-butyl phthalate	ND G,	2.15	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB126 (5-7.5) (Continued)
ABB0307-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)									
Di-n-octyl phthalate	ND G,	3.10	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Fluoranthene	ND G,	0.710	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Fluorene	ND G,	0.355	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Hexachlorobenzene	ND G,	2.53	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Hexachlorobutadiene	ND G,	2.44	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Hexachlorocyclopentadiene	ND G,	2.06	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Hexachloroethane	ND G,	2.29	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Indeno(1,2,3-cd)pyrene	ND G,	1.06	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Isophorone	ND G,	0.378	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
m,p-Cresol	ND G,	0.561	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Naphthalene	ND G,	0.355	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Nitrobenzene	ND G,	0.284	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
N-Nitroso-di-n-propylamine	ND G,	0.875	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
N-Nitrosodiphenylamine	ND G,	0.653	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
O-Cresol	ND G,	0.544	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Pentachlorophenol	ND G,	4.14	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Phenanthrene	ND G,	0.308	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Phenol	ND G,	2.39	7.88	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Pyrene	0.520 G, J	0.331	1.58	mg/kg dry	02/04/25 10:28	02/10/25	20	8270C	BB00762
Surrogate: 2,4,6-Tribromophenol	*58%*	G	*38-105*			*02/10/25*	*20*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*57%*	G	*40-110*			*02/10/25*	*20*	*8270C*	
Surrogate: 2-Fluorophenol	*56%*	G	*41-105*			*02/10/25*	*20*	*8270C*	
Surrogate: 4-Terphenyl-d14	*45%*	G	*26-133*			*02/10/25*	*20*	*8270C*	
Surrogate: Nitrobenzene-d5	*65%*	G	*27-129*			*02/10/25*	*20*	*8270C*	
Surrogate: Phenol-d5	*47%*	G	*43-105*			*02/10/25*	*20*	*8270C*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides									
4,4´-DDD	ND	0.000450	0.00158	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
4,4´-DDE	ND	0.000474	0.00158	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
4,4´-DDT	ND	0.00124	0.00158	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Aldrin	ND	0.000225	0.000791	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
alpha-BHC	ND	0.000391	0.000791	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
alpha-Chlordane	ND	0.000213	0.000791	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
beta-BHC	ND	0.000379	0.000791	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Chlordane, Technical	ND	0.0234	0.0395	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
delta-BHC	ND	0.000225	0.000791	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Dieldrin	ND	0.000486	0.00158	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Endosulfan I	ND	0.000190	0.000791	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Endosulfan II	ND	0.000403	0.00158	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Endosulfan sulfate	ND	0.000415	0.00158	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Endrin	ND	0.000510	0.00158	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Endrin aldehyde	ND	0.000462	0.00158	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Endrin ketone	ND	0.000545	0.00158	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB126 (5-7.5) (Continued)
ABB0307-04 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	ND		0.000249	0.000791	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
gamma-Chlordane	ND		0.000285	0.000791	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Heptachlor	ND		0.000367	0.000791	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Heptachlor epoxide	ND		0.000190	0.000791	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Methoxychlor	ND		0.00735	0.00791	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Toxaphene	ND		0.0472	0.0987	mg/kg dry	02/04/25 10:28	02/07/25	1	8081	BB00761
Surrogate: Decachlorobiphenyl		*55%*		*29-133*			*02/07/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*50%*		*36-118*			*02/07/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00407	0.0199	mg/kg dry	02/04/25 10:28	02/07/25	1	8082	BB00761
Aroclor 1221	ND		0.00445	0.0199	mg/kg dry	02/04/25 10:28	02/07/25	1	8082	BB00761
Aroclor 1232	ND		0.00357	0.0199	mg/kg dry	02/04/25 10:28	02/07/25	1	8082	BB00761
Aroclor 1242	ND		0.00363	0.0199	mg/kg dry	02/04/25 10:28	02/07/25	1	8082	BB00761
Aroclor 1248	ND		0.00402	0.0199	mg/kg dry	02/04/25 10:28	02/07/25	1	8082	BB00761
Aroclor 1254	ND		0.00459	0.0199	mg/kg dry	02/04/25 10:28	02/07/25	1	8082	BB00761
Aroclor 1260	ND		0.00782	0.0199	mg/kg dry	02/04/25 10:28	02/07/25	1	8082	BB00761
Surrogate: Decachlorobiphenyl		*46%*		*20-142*			*02/07/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene		*55%*		*22-123*			*02/07/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0502	0.110	mg/kg dry	02/04/25 10:28	02/10/25	1	7471B	BB00863

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	0.21		0.059	0.067	mg/kg dry	02/04/25 10:28	02/06/25	1	9014	BB00774
pH	7.59		0.100	0.100	pH Units	02/04/25 10:28	02/06/25	1	SW 9045D	BB00858
Temperature	21.2		1.00	1.00	pH Units	02/04/25 10:28	02/06/25	1	SW 9045D	BB00858
Percent Moisture	15.9517		0.1	0.1	%	02/04/25 10:28	02/06/25	1	ASTM-D2216	BB00749
% Solids	84.0483		0.1	0.1	%	02/04/25 10:28	02/06/25	1	ASTM-D2216	BB00749

Volatile Organics - Prep EPA 5035

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1,1-Trichloroethane	ND		0.000422	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
1,1,2,2-Tetrachloroethane	ND	S,	0.000549	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
1,1,2-Trichloroethane	ND		0.000528	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB126 (5-7.5) (Continued)
ABB0307-04 (Solid)

Volatile Organics - Prep EPA 5035 (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1-Dichloroethane	ND		0.000475	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
1,1-Dichloroethene	ND		0.000507	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
1,2-Dichloroethane	ND		0.000348	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
1,2-Dichloropropane	ND		0.00173	0.00528	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
2-Butanone	ND	S,	0.00250	0.0211	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
2-Hexanone	ND	S,	0.000781	0.0264	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
4-Methyl-2-pentanone	ND	S,	0.000791	0.0264	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Acetone	0.0160	S, J	0.00560	0.0264	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Benzene	ND		0.000327	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Bromoform	ND		0.00173	0.00528	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Bromomethane	ND	S,	0.000485	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Carbon disulfide	ND		0.00158	0.00528	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Carbon tetrachloride	ND	S,	0.000412	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Chlorobenzene	ND		0.000306	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Chloroethane	ND	S,	0.00290	0.00528	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Chloroform	ND		0.000475	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Chloromethane	ND	S,	0.00406	0.00528	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
cis-1,2-Dichloroethene	ND		0.000401	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
cis-1,3-dichloropropene	ND		0.000264	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Dibromochloromethane	ND		0.000454	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Ethylbenzene	ND		0.000412	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
m,p-Xylene	ND		0.000633	0.00211	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Methyl tert-butyl ether	ND	S,	0.000369	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Methylene chloride	ND	S,	0.00272	0.00528	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
o-Xylene	ND		0.000285	0.00211	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Styrene	ND		0.000306	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Tetrachloroethene	ND	S,	0.000633	0.00211	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Toluene	ND		0.000496	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
trans-1,2-Dichloroethene	ND		0.000390	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
trans-1,3-dichloropropene	ND		0.000274	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Trichloroethene	ND		0.000380	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Vinyl chloride	ND		0.00109	0.00528	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	BB00705
Surrogate: 4-Bromofluorobenzene	*101%*			*76-119*			*02/05/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*98%*			*66-137*			*02/05/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*104%*			*80-120*			*02/05/25*	*1*	*8260B*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Volatile Organics

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Total 1,3-Dichloropropene	ND		0.000264	0.00106	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	[CALC]
Total Xylenes	ND		0.000285	0.00211	mg/kg dry	02/04/25 10:28	02/05/25	1	8260B	[CALC]

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB126 (5-7.5) (Continued)
ABB0307-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP									
Aluminum	2540	108	200	mg/kg Dry	02/04/25 10:28	02/06/25	20	6010B	BB00783
Antimony	37.2	0.610	5.00	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Arsenic	26.3	0.330	5.00	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Barium	124	0.530	2.50	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Beryllium	0.561	0.0290	0.300	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Cadmium	11.3	0.0300	0.250	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Calcium	7660	65.5	125	mg/kg Dry	02/04/25 10:28	02/06/25	5	6010B	BB00783
Chromium	17.0	0.0870	0.250	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Cobalt	9.00	0.0910	1.25	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Copper	223	5.50	25.0	mg/kg Dry	02/04/25 10:28	02/06/25	5	6010B	BB00783
Iron	177000	1510	2500	mg/kg Dry	02/04/25 10:28	02/06/25	100	6010B	BB00783
Lead	634	1.05	6.25	mg/kg Dry	02/04/25 10:28	02/06/25	5	6010B	BB00783
Magnesium	1430	12.7	25.0	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Manganese	2940	11.0	15.0	mg/kg Dry	02/04/25 10:28	02/06/25	20	6010B	BB00783
Nickel	9.97	0.260	1.25	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Potassium	457	20.2	25.0	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Selenium	0.704 J	0.360	5.00	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Silver	0.903	0.260	0.500	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Sodium	148	19.2	25.0	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Thallium	ND , G	1.15	6.25	mg/kg Dry	02/04/25 10:28	02/06/25	5	6010B	BB00783
Vanadium	28.6	0.190	1.25	mg/kg Dry	02/04/25 10:28	02/06/25	1	6010B	BB00783
Zinc	2560	24.0	100	mg/kg Dry	02/04/25 10:28	02/06/25	20	6010B	BB00783

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached									
Antimony	ND	0.00480	0.0350	mg/L	02/04/25 10:28	02/25/25	1	6010B	BB01651
Iron	140	0.260	1.25	mg/L	02/04/25 10:28	02/27/25	5	6010B	BB01796
Lead	0.0403	0.00130	0.0250	mg/L	02/04/25 10:28	02/25/25	1	6010B	BB01651

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - SPLP Leached									
Manganese	0.256	0.0158	0.0500	mg/L	02/04/25 10:28	02/27/25	1	6010B	BB01882

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results

(Continued)

Sample: SB127 (0-3)

ABB0307-05 (Solid)

SVOC

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,2,4-Trichlorobenzene	ND	G,	0.161	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
1,2-Dichlorobenzene	ND	G,	0.0867	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
1,3-Dichlorobenzene	ND	G,	0.0929	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
1,4-Dichlorobenzene	ND	G,	0.0681	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
2,4,5-Trichlorophenol	ND	G,	0.650	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
2,4,6-Trichlorophenol	ND	G,	0.663	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
2,4-Dichlorophenol	ND	G,	0.619	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
2,4-Dimethylphenol	ND	G,	0.997	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
2,4-Dinitrophenol	ND	G,	1.31	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
2,4-Dinitrotoluene	ND	G,	0.254	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
2,6-Dinitrotoluene	ND	G,	0.0929	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
2-Chloronaphthalene	ND	G,	0.105	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
2-Chlorophenol	ND	G,	0.588	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
2-Methylnaphthalene	0.136	G, J	0.111	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
2-Nitroaniline	ND	G,	0.687	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
2-Nitrophenol	ND	G,	0.700	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
3,3-Dichlorobenzidine	ND	G,	0.613	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
3-Nitroaniline	ND	G,	0.656	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
4,6-Dinitro-2-methylphenol	ND	G,	1.07	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
4-Bromophenyl phenyl ether	ND	G,	0.111	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
4-Chloro-3-methylphenol	ND	G,	0.638	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
4-Chloroaniline	ND	G,	0.861	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
4-Chlorophenyl phenyl ether	ND	G,	0.0805	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
4-Nitroaniline	ND	G,	0.403	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
4-Nitrophenol	ND	G,	0.564	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Acenaphthene	0.142	G, J	0.0991	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Acenaphthylene	ND	G,	0.0867	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Anthracene	0.175	G, J	0.0743	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Benzo(a)anthracene	0.743	G	0.0619	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Benzo(a)pyrene	1.27	G	0.254	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Benzo(b)fluoranthene	1.65	G	0.0805	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Benzo(g,h,i)perylene	1.47	G	0.217	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Benzo(k)fluoranthene	0.681	G	0.142	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Bis(2-chloroethoxy)methane	ND	G,	0.118	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
bis(2-Chloroethyl)ether	ND	G,	0.180	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Bis(2-chloroisopropyl)ether	ND	G,	0.149	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Bis(2-ethylhexyl)phthalate	ND	G,	0.731	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Butyl benzyl phthalate	ND	G,	0.725	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Carbazole	0.140	G, J	0.0805	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Chrysene	0.832	G	0.0805	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Dibenzo(a,h)anthracene	0.310	G, J	0.229	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Dibenzofuran	ND	G,	0.0929	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Diethyl phthalate	ND	G,	0.607	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Dimethyl phthalate	ND	G,	0.675	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Di-n-butyl phthalate	ND	G,	0.564	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB127 (0-3) (Continued)
ABB0307-05 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Di-n-octyl phthalate	ND	G,	0.811	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Fluoranthene	0.987	G	0.186	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Fluorene	ND	G,	0.0929	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Hexachlorobenzene	ND	G,	0.663	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Hexachlorobutadiene	ND	G,	0.638	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Hexachlorocyclopentadiene	ND	G,	0.539	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Hexachloroethane	ND	G,	0.601	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Indeno(1,2,3-cd)pyrene	1.33	G	0.279	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Isophorone	ND	G,	0.0991	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
m,p-Cresol	ND	G,	0.147	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Naphthalene	0.124	G, J	0.0929	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Nitrobenzene	ND	G,	0.0743	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
N-Nitroso-di-n-propylamine	ND	G,	0.229	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
N-Nitrosodiphenylamine	ND	G,	0.171	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
O-Cresol	ND	G,	0.142	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Pentachlorophenol	ND	G,	1.08	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Phenanthrene	0.522	G	0.0805	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Phenol	ND	G,	0.625	2.06	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Pyrene	0.873	G	0.0867	0.413	mg/kg dry	02/04/25 11:45	02/10/25	5	8270C	BB00762
Surrogate: 2,4,6-Tribromophenol	*54%*	G	*38-105*				*02/10/25*	*5*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*72%*	G	*40-110*				*02/10/25*	*5*	*8270C*	
Surrogate: 2-Fluorophenol	*57%*	G	*41-105*				*02/10/25*	*5*	*8270C*	
Surrogate: 4-Terphenyl-d14	*44%*	G	*26-133*				*02/10/25*	*5*	*8270C*	
Surrogate: Nitrobenzene-d5	*73%*	G	*27-129*				*02/10/25*	*5*	*8270C*	
Surrogate: Phenol-d5	*69%*	G	*43-105*				*02/10/25*	*5*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND		0.000469	0.00164	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
4,4´-DDE	0.00554		0.000493	0.00164	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
4,4´-DDT	0.0190		0.00130	0.00164	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Aldrin	ND		0.000234	0.000823	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
alpha-BHC	ND		0.000407	0.000823	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
alpha-Chlordane	ND		0.000222	0.000823	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
beta-BHC	ND		0.000395	0.000823	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Chlordane, Technical	ND		0.0243	0.0411	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
delta-BHC	ND		0.000234	0.000823	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Dieldrin	ND		0.000506	0.00164	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Endosulfan I	ND		0.000197	0.000823	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Endosulfan II	ND		0.000419	0.00164	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Endosulfan sulfate	ND		0.000432	0.00164	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Endrin	ND		0.000530	0.00164	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Endrin aldehyde	ND		0.000481	0.00164	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Endrin ketone	ND		0.000567	0.00164	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB127 (0-3) (Continued)
ABB0307-05 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	ND		0.000259	0.000823	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
gamma-Chlordane	ND		0.000296	0.000823	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Heptachlor	ND		0.000382	0.000823	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Heptachlor epoxide	ND		0.000197	0.000823	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Methoxychlor	ND		0.00765	0.00823	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Toxaphene	ND		0.0491	0.103	mg/kg dry	02/04/25 11:45	02/07/25	1	8081	BB00761
Surrogate: Decachlorobiphenyl	*104%*			*29-133*			*02/07/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene	*473%*	S		*36-118*			*02/07/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00424	0.0207	mg/kg dry	02/04/25 11:45	02/07/25	1	8082	BB00761
Aroclor 1221	ND		0.00463	0.0207	mg/kg dry	02/04/25 11:45	02/07/25	1	8082	BB00761
Aroclor 1232	ND		0.00372	0.0207	mg/kg dry	02/04/25 11:45	02/07/25	1	8082	BB00761
Aroclor 1242	ND		0.00378	0.0207	mg/kg dry	02/04/25 11:45	02/07/25	1	8082	BB00761
Aroclor 1248	ND		0.00419	0.0207	mg/kg dry	02/04/25 11:45	02/07/25	1	8082	BB00761
Aroclor 1254	ND		0.00478	0.0207	mg/kg dry	02/04/25 11:45	02/07/25	1	8082	BB00761
Aroclor 1260	ND		0.00814	0.0207	mg/kg dry	02/04/25 11:45	02/07/25	1	8082	BB00761
Surrogate: Decachlorobiphenyl	*66%*			*20-142*			*02/07/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene	*74%*			*22-123*			*02/07/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	0.253		0.0642	0.140	mg/kg dry	02/04/25 11:45	02/10/25	1	7471B	BB00863

Metals - CVAA - TCLP Leached

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0000860	0.000500	mg/L	02/04/25 11:45	03/05/25	1	7470A	BB02152

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	24		0.64	0.73	mg/kg dry	02/04/25 11:45	02/06/25	10	9014	BB00774
pH	11.4		0.100	0.100	pH Units	02/04/25 11:45	02/06/25	1	SW 9045D	BB00858
Temperature	21.3		1.00	1.00	pH Units	02/04/25 11:45	02/06/25	1	SW 9045D	BB00858
Percent Moisture	19.28432		0.1	0.1	%	02/04/25 11:45	02/06/25	1	ASTM-D2216	BB00749
% Solids	80.71568		0.1	0.1	%	02/04/25 11:45	02/06/25	1	ASTM-D2216	BB00749

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB127 (0-3) (Continued)
ABB0307-05 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry - TCLP Leached										
Cyanide, Total	ND	H,	0.053	0.060	mg/L	02/04/25 11:45	02/27/25	1	9014	BB01871

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035										
1,1,1-Trichloroethane	ND		0.000468	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
1,1,2,2-Tetrachloroethane	ND	S,	0.000609	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
1,1,2-Trichloroethane	ND		0.000585	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
1,1-Dichloroethane	ND		0.000527	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
1,1-Dichloroethene	ND		0.000562	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
1,2-Dichloroethane	ND		0.000386	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
1,2-Dichloropropane	ND		0.00192	0.00585	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
2-Butanone	ND	S,	0.00277	0.0234	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
2-Hexanone	ND	S,	0.000866	0.0293	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
4-Methyl-2-pentanone	ND	S,	0.000878	0.0293	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Acetone	0.0358	S	0.00621	0.0293	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Benzene	ND		0.000363	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Bromoform	ND		0.00192	0.00585	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Bromomethane	ND	S,	0.000538	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Carbon disulfide	0.0198		0.00176	0.00585	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Carbon tetrachloride	ND	S,	0.000456	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Chlorobenzene	ND		0.000339	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Chloroethane	ND	S,	0.00322	0.00585	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Chloroform	ND		0.000527	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Chloromethane	ND	S,	0.00451	0.00585	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
cis-1,2-Dichloroethene	ND		0.000445	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
cis-1,3-dichloropropene	ND		0.000293	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Dibromochloromethane	ND		0.000503	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Ethylbenzene	ND		0.000456	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
m,p-Xylene	ND		0.000702	0.00234	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Methyl tert-butyl ether	ND	S,	0.000410	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Methylene chloride	ND	S,	0.00302	0.00585	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
o-Xylene	ND		0.000316	0.00234	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Styrene	ND		0.000339	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Tetrachloroethene	ND	S,	0.000702	0.00234	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Toluene	0.00246		0.000550	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
trans-1,2-Dichloroethene	ND		0.000433	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
trans-1,3-dichloropropene	ND		0.000304	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Trichloroethene	ND		0.000421	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Vinyl chloride	ND		0.00121	0.00585	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	BB00705
Surrogate: 4-Bromofluorobenzene			*108%*	*76-119*			*02/05/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane			*90%*	*66-137*			*02/05/25*	*1*	*8260B*	
Surrogate: Toluene-d8			*105%*	*80-120*			*02/05/25*	*1*	*8260B*	

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

Project: Pioneer Environmental - General
Project Number: 8080 S. Lake Shore - Revised
Project Manager: Pioneer Environmental Services LLC

Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB127 (0-3) (Continued)
ABB0307-05 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
Total 1,3-Dichloropropene	ND		0.000293	0.00117	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	[CALC]
Total Xylenes	ND		0.000316	0.00234	mg/kg dry	02/04/25 11:45	02/05/25	1	8260B	[CALC]

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	27400		1080	2000	mg/kg Dry	02/04/25 11:45	02/07/25	200	6010B	BB00783
Antimony	ND		0.610	5.00	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Arsenic	5.20		0.330	5.00	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Barium	334		2.65	12.5	mg/kg Dry	02/04/25 11:45	02/06/25	5	6010B	BB00783
Beryllium	3.91		0.0290	0.300	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Cadmium	0.880		0.0300	0.250	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Calcium	170000		1310	2500	mg/kg Dry	02/04/25 11:45	02/06/25	100	6010B	BB00783
Chromium	154		0.0870	0.250	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Cobalt	1.62		0.0910	1.25	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Copper	24.2		1.10	5.00	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Iron	47100		1510	2500	mg/kg Dry	02/04/25 11:45	02/06/25	100	6010B	BB00783
Lead	64.6		0.210	1.25	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Magnesium	11700		254	500	mg/kg Dry	02/04/25 11:45	02/06/25	20	6010B	BB00783
Manganese	7340		55.0	75.0	mg/kg Dry	02/04/25 11:45	02/06/25	100	6010B	BB00783
Manganese	8010		110	150	mg/kg Dry	02/04/25 11:45	02/07/25	200	6010B	BB00783
Nickel	16.2		0.260	1.25	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Potassium	1420		20.2	25.0	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Selenium	2.98	J	0.360	5.00	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Silver	0.595		0.260	0.500	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Sodium	630		19.2	25.0	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Thallium	4.27	G, J	1.15	6.25	mg/kg Dry	02/04/25 11:45	02/06/25	5	6010B	BB00783
Vanadium	52.7		0.190	1.25	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783
Zinc	96.9		1.20	5.00	mg/kg Dry	02/04/25 11:45	02/06/25	1	6010B	BB00783

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached										
Beryllium	ND		0.000390	0.00500	mg/L	02/04/25 11:45	03/03/25	1	6010B	BB01988
Cadmium	ND		0.000590	0.0100	mg/L	02/04/25 11:45	03/03/25	1	6010B	BB01988
Chromium	0.00467	J	0.00300	0.0250	mg/L	02/04/25 11:45	03/03/25	1	6010B	BB01988
Iron	0.257		0.0520	0.250	mg/L	02/04/25 11:45	03/03/25	1	6010B	BB01988
Lead	ND		0.00130	0.0250	mg/L	02/04/25 11:45	03/03/25	1	6010B	BB01988
Selenium	0.0124	J	0.00570	0.0250	mg/L	02/04/25 11:45	03/03/25	1	6010B	BB01988
Thallium	0.0332	J	0.00340	0.100	mg/L	02/04/25 11:45	03/04/25	1	6010B	BB01988

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results

(Continued)

Sample: SB127 (5-7.5)

ABB0307-06 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
1,2,4-Trichlorobenzene	ND	G,	0.146	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
1,2-Dichlorobenzene	ND	G,	0.0788	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
1,3-Dichlorobenzene	ND	G,	0.0845	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
1,4-Dichlorobenzene	ND	G,	0.0619	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
2,4,5-Trichlorophenol	ND	G,	0.591	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
2,4,6-Trichlorophenol	ND	G,	0.602	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
2,4-Dichlorophenol	ND	G,	0.563	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
2,4-Dimethylphenol	ND	G,	0.907	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
2,4-Dinitrophenol	ND	G,	1.19	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
2,4-Dinitrotoluene	ND	G,	0.231	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
2,6-Dinitrotoluene	ND	G,	0.0845	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
2-Chloronaphthalene	ND	G,	0.0957	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
2-Chlorophenol	ND	G,	0.535	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
2-Methylnaphthalene	ND	G,	0.101	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
2-Nitroaniline	ND	G,	0.625	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
2-Nitrophenol	ND	G,	0.636	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
3,3-Dichlorobenzidine	ND	G,	0.557	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
3-Nitroaniline	ND	G,	0.597	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
4,6-Dinitro-2-methylphenol	ND	G,	0.968	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
4-Bromophenyl phenyl ether	ND	G,	0.101	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
4-Chloro-3-methylphenol	ND	G,	0.580	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
4-Chloroaniline	ND	G,	0.783	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
4-Chlorophenyl phenyl ether	ND	G,	0.0732	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
4-Nitroaniline	ND	G,	0.366	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
4-Nitrophenol	ND	G,	0.512	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Acenaphthene	ND	G,	0.0901	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Acenaphthylene	0.0788	G, J	0.0788	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Anthracene	0.165	G, J	0.0676	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Benzo(a)anthracene	0.490	G	0.0563	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Benzo(a)pyrene	0.435	G	0.231	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Benzo(b)fluoranthene	0.925	G	0.0732	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Benzo(g,h,i)perylene	0.494	G	0.197	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Benzo(k)fluoranthene	0.362	G, J	0.130	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Bis(2-chloroethoxy)methane	ND	G,	0.107	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
bis(2-Chloroethyl)ether	ND	G,	0.163	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Bis(2-chloroisopropyl)ether	ND	G,	0.135	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Bis(2-ethylhexyl)phthalate	ND	G,	0.664	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Butyl benzyl phthalate	ND	G,	0.659	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Carbazole	0.114	G, J	0.0732	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Chrysene	0.610	G	0.0732	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Dibenzo(a,h)anthracene	ND	G,	0.208	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Dibenzofuran	ND	G,	0.0845	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Diethyl phthalate	ND	G,	0.552	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Dimethyl phthalate	ND	G,	0.614	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Di-n-butyl phthalate	ND	G,	0.512	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB127 (5-7.5) (Continued)
ABB0307-06 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Di-n-octyl phthalate	ND	G,	0.738	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Fluoranthene	0.950	G	0.169	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Fluorene	ND	G,	0.0845	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Hexachlorobenzene	ND	G,	0.602	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Hexachlorobutadiene	ND	G,	0.580	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Hexachlorocyclopentadiene	ND	G,	0.490	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Hexachloroethane	ND	G,	0.546	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Indeno(1,2,3-cd)pyrene	0.595	G	0.253	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Isophorone	ND	G,	0.0901	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
m,p-Cresol	ND	G,	0.133	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Naphthalene	0.0845	G, J	0.0845	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Nitrobenzene	ND	G,	0.0676	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
N-Nitroso-di-n-propylamine	ND	G,	0.208	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
N-Nitrosodiphenylamine	ND	G,	0.155	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
O-Cresol	ND	G,	0.130	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Pentachlorophenol	ND	G,	0.985	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Phenanthrene	0.419	G	0.0732	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Phenol	ND	G,	0.569	1.88	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Pyrene	0.713	G	0.0788	0.376	mg/kg dry	02/04/25 11:57	02/10/25	5	8270C	BB00762
Surrogate: 2,4,6-Tribromophenol	*56%*	G	*38-105*				*02/10/25*	*5*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*66%*	G	*40-110*				*02/10/25*	*5*	*8270C*	
Surrogate: 2-Fluorophenol	*63%*	G	*41-105*				*02/10/25*	*5*	*8270C*	
Surrogate: 4-Terphenyl-d14	*40%*	G	*26-133*				*02/10/25*	*5*	*8270C*	
Surrogate: Nitrobenzene-d5	*67%*	G	*27-129*				*02/10/25*	*5*	*8270C*	
Surrogate: Phenol-d5	*66%*	G	*43-105*				*02/10/25*	*5*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND		0.000425	0.00149	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
4,4´-DDE	ND		0.000448	0.00149	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
4,4´-DDT	ND		0.00118	0.00149	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Aldrin	ND		0.000213	0.000746	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
alpha-BHC	ND		0.000369	0.000746	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
alpha-Chlordane	ND		0.000201	0.000746	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
beta-BHC	ND		0.000358	0.000746	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Chlordane, Technical	ND		0.0220	0.0373	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
delta-BHC	ND		0.000213	0.000746	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Dieldrin	ND		0.000459	0.00149	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Endosulfan I	ND		0.000179	0.000746	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Endosulfan II	ND		0.000380	0.00149	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Endosulfan sulfate	ND		0.000392	0.00149	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Endrin	ND		0.000481	0.00149	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Endrin aldehyde	ND		0.000436	0.00149	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Endrin ketone	ND		0.000515	0.00149	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB127 (5-7.5) (Continued)
ABB0307-06 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	ND		0.000235	0.000746	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
gamma-Chlordane	ND		0.000269	0.000746	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Heptachlor	ND		0.000347	0.000746	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Heptachlor epoxide	ND		0.000179	0.000746	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Methoxychlor	ND		0.00694	0.00746	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Toxaphene	ND		0.0445	0.0932	mg/kg dry	02/04/25 11:57	02/07/25	1	8081	BB00761
Surrogate: Decachlorobiphenyl		*79%*		*29-133*			*02/07/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*90%*		*36-118*			*02/07/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00387	0.0189	mg/kg dry	02/04/25 11:57	02/07/25	1	8082	BB00761
Aroclor 1221	ND		0.00423	0.0189	mg/kg dry	02/04/25 11:57	02/07/25	1	8082	BB00761
Aroclor 1232	ND		0.00339	0.0189	mg/kg dry	02/04/25 11:57	02/07/25	1	8082	BB00761
Aroclor 1242	ND		0.00345	0.0189	mg/kg dry	02/04/25 11:57	02/07/25	1	8082	BB00761
Aroclor 1248	ND		0.00382	0.0189	mg/kg dry	02/04/25 11:57	02/07/25	1	8082	BB00761
Aroclor 1254	ND		0.00437	0.0189	mg/kg dry	02/04/25 11:57	02/07/25	1	8082	BB00761
Aroclor 1260	ND		0.00743	0.0189	mg/kg dry	02/04/25 11:57	02/07/25	1	8082	BB00761
Surrogate: Decachlorobiphenyl		*90%*		*20-142*			*02/07/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene		*97%*		*22-123*			*02/07/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	0.0911	J	0.0478	0.104	mg/kg dry	02/04/25 11:57	02/10/25	1	7471B	BB00863

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	3.1	S	0.12	0.14	mg/kg dry	02/04/25 11:57	02/06/25	2	9014	BB00774
pH	10.8		0.100	0.100	pH Units	02/04/25 11:57	02/06/25	1	SW 9045D	BB00858
Temperature	21.7		1.00	1.00	pH Units	02/04/25 11:57	02/06/25	1	SW 9045D	BB00858
Percent Moisture	11.61456		0.1	0.1	%	02/04/25 11:57	02/06/25	1	ASTM-D2216	BB00749
% Solids	88.38544		0.1	0.1	%	02/04/25 11:57	02/06/25	1	ASTM-D2216	BB00749

Wet Chemistry - SPLP Leached

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	ND		0.053	0.060	mg/L	02/04/25 11:57	02/27/25	1	9014	BB01872

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB127 (5-7.5) (Continued)
ABB0307-06 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035										
1,1,1-Trichloroethane	ND		0.000377	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
1,1,2,2-Tetrachloroethane	ND	S,	0.000490	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
1,1,2-Trichloroethane	ND		0.000472	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
1,1-Dichloroethane	ND		0.000424	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
1,1-Dichloroethene	ND		0.000453	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
1,2-Dichloroethane	ND		0.000311	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
1,2-Dichloropropane	ND		0.00155	0.00472	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
2-Butanone	ND	S,	0.00224	0.0189	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
2-Hexanone	ND	S,	0.000698	0.0236	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
4-Methyl-2-pentanone	ND	S,	0.000707	0.0236	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Acetone	0.0237	S	0.00501	0.0236	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Benzene	0.00352		0.000292	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Bromoform	ND		0.00155	0.00472	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Bromomethane	ND	S,	0.000434	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Carbon disulfide	0.0242		0.00141	0.00472	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Carbon tetrachloride	ND	S,	0.000368	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Chlorobenzene	ND		0.000274	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Chloroethane	ND	S,	0.00259	0.00472	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Chloroform	ND		0.000424	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Chloromethane	ND	S,	0.00363	0.00472	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
cis-1,2-Dichloroethene	ND		0.000358	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
cis-1,3-dichloropropene	ND		0.000236	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Dibromochloromethane	ND		0.000406	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Ethylbenzene	ND		0.000368	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
m,p-Xylene	ND		0.000566	0.00189	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Methyl tert-butyl ether	ND	S,	0.000330	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Methylene chloride	ND	S,	0.00243	0.00472	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
o-Xylene	ND		0.000255	0.00189	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Styrene	ND		0.000274	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Tetrachloroethene	ND	S,	0.000566	0.00189	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Toluene	0.00271		0.000443	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
trans-1,2-Dichloroethene	ND		0.000349	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
trans-1,3-dichloropropene	ND		0.000245	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Trichloroethene	ND		0.000340	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Vinyl chloride	ND		0.000971	0.00472	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	BB00705
Surrogate: 4-Bromofluorobenzene		*106%*		*76-119*			*02/05/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane		*94%*		*66-137*			*02/05/25*	*1*	*8260B*	
Surrogate: Toluene-d8		*104%*		*80-120*			*02/05/25*	*1*	*8260B*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
Total 1,3-Dichloropropene	ND		0.000236	0.000943	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	[CALC]
Total Xylenes	ND		0.000255	0.00189	mg/kg dry	02/04/25 11:57	02/05/25	1	8260B	[CALC]

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

Sample Results
(Continued)

Sample: SB127 (5-7.5) (Continued)
ABB0307-06 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP									
Aluminum	10100	535	990	mg/kg Dry	02/04/25 11:57	02/06/25	100	6010B	BB00783
Antimony	ND	0.604	4.95	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Arsenic	7.57	0.327	4.95	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Barium	120	0.525	2.48	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Beryllium	1.54	0.0287	0.297	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Cadmium	0.983	0.0297	0.248	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Calcium	70000	1300	2480	mg/kg Dry	02/04/25 11:57	02/06/25	100	6010B	BB00783
Chromium	19.6	0.0861	0.248	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Cobalt	2.83	0.0901	1.24	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Copper	26.5	1.09	4.95	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Iron	33800	299	495	mg/kg Dry	02/04/25 11:57	02/06/25	20	6010B	BB00783
Lead	66.9	0.208	1.24	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Magnesium	22600	251	495	mg/kg Dry	02/04/25 11:57	02/06/25	20	6010B	BB00783
Manganese	3320	10.9	14.9	mg/kg Dry	02/04/25 11:57	02/06/25	20	6010B	BB00783
Nickel	13.8	0.257	1.24	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Potassium	707	20.0	24.8	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Selenium	1.32 J	0.356	4.95	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Silver	0.343 J	0.257	0.495	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Sodium	338	19.0	24.8	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Thallium	1.72 G, J	1.14	6.19	mg/kg Dry	02/04/25 11:57	02/06/25	5	6010B	BB00783
Vanadium	15.1	0.188	1.24	mg/kg Dry	02/04/25 11:57	02/06/25	1	6010B	BB00783
Zinc	229	5.94	24.8	mg/kg Dry	02/04/25 11:57	02/06/25	5	6010B	BB00783

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - SPLP Leached									
Cadmium	ND	0.00118	0.0200	mg/L	02/04/25 11:57	02/27/25	1	6010B	BB01882
Lead	ND	0.00260	0.0500	mg/L	02/04/25 11:57	02/27/25	1	6010B	BB01882
Manganese	ND	0.0158	0.0500	mg/L	02/04/25 11:57	02/27/25	1	6010B	BB01882
Thallium	ND	0.00680	0.200	mg/L	02/04/25 11:57	02/27/25	1	6010B	BB01882
Zinc	ND	0.0240	0.200	mg/L	02/04/25 11:57	02/27/25	1	6010B	BB01882

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore - Revised	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 15:49

23 TAL Soil Package

Hg 7471B	6010 23 TAL

8260 SRP Package

8260 SRP

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METIRI
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134
Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

Company Name: PIONEER
Company Address:
City: State: Zip:
Office: Mobile: Fax:
Email Address:
Project ID / Location: 8080 S LAKE SHORE DR
Project Manager (Report to): JACOB HARTSOCK
Sample Collector(s): JLM

TURNAROUND TIME REQUESTED
☐ Normal (5 DAY) ☐ RUSH*
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request
TCL TOX

PO # 24-0124-103
Report Type ☐ Normal ☐ Special*
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method

LAB USE ONLY
Work Order #
Temperature of Received Samples: 2 °C
Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TCL	TOX	Lab Comment	LAB #
1	SB125 (0-3)	2/4/25	917	SO		4	9oz 40mL	NONE MEOH	X	X		
2	SB125 (7.5-10)		927						X	X		
3	SB126 (0-3)		1020						X	X		
4	SB126 (5-7.5)		1028						X	X		
5	SB127 (0-3)		1145						X	X		
6	SB127 (5-7.5)		1157						X	X		
7												
8												
9												
10												
11												
12												

ABB0307
Pioneer Environmental Services LLC

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:
TOILS

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/5/25		2-5-25				
Received By ☐ Ice	Time 9:20	Received By ☑ Ice	Time 12:10	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

March 20, 2025

Jake Hartsock
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Drive
ABB0709

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/11/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Notes and Definitions

Item	Definition
G	Refer to case narrative page for specific comment
J	Analyte detected below quantitation limit (QL)
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Analysis Case Narrative

Sample ABB0709-01: S= For Mercury, the MS percent recovery (46%) was outside laboratory control limits (70% - 130%).

6010:
Samples ABB0709-01 through -04: G= Samples diluted due to interferences which resulted in elevated reporting limits for Selenium.

6010 TCLP:
Sample ABB0709-03: G=The continuing calibration blank contained Antimony at 0.0058 m/L. (MDL is 0.0048 mg/L).

8081:
Sample ABB0709-02: S=The MS and/or the MSD percent recoveries for the following analytes were outside laboratory control limits:

Endrin ketone; 7% (Limit: 37% - 123%) (MSD only)
alpha-BHC; 34%, 26% (Limit: 48% - 113%)
gamma-BHC; 169%, 192%(Limit: 49% - 109%)
delta-BHC; -41% (Limit: 40% - 117%) (MS only)
Endosulfan I; 20% (Limit: 48% - 106%) (MS only)
Endosulfan II; 46% (Limit: 47% - 117%) (MS only)
Endosulfan sulfate; 42%, 43% (Limit: 50% - 118%)
4,4'-DDD; 133% (Limit: 49% - 118%) (MSD only)

Sample ABB0709-02: R=The MS & MSD Precision for the following analytes were greater than laboratory control limits (30%):

delta-BHC; 1120%
Endosulfan I; 89%
Aldrin; 32%
Heptachlor epoxide; 48%
4,4'-DDT; 50%

8260:
Sample ABB0709-03: G= The Internal Standard, 1,4-Dichlorobenzene-d4, was suppressed due to matrix interference. The associated analyte, 1,1,2,2-tetrachloroethane, was not detected in the sample and would be biased high. The sample was analyzed twice and the rerun confirmed the initial result.

Cyanide:

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Samples ABB0709-01: S = The concentration of the MS added to this sample was less than the parent sample amount, therefore recovery could not be accurately calculated

Sample ABB0709-07: S= For the MSD performed on this sample, percent recovery(122%) was outside laboratory control limits (80% - 120%).

Sample ABB0709-03 reanalysis: S= The concentration of the MS added to this sample was less than the parent sample amount, therefore recovery could not be accurately calculated

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB0709-01	SB128 (0-3)	Solid	02/10/2025 09:47	02/11/2025
ABB0709-01	SB128 (0-3)	Solid	02/10/2025 09:47	02/11/2025
ABB0709-02	SB128 (7.5-10)	Solid	02/10/2025 09:59	02/11/2025
ABB0709-03	SB129 (0-3)	Solid	02/10/2025 11:18	02/11/2025
ABB0709-03	SB129 (0-3)	Solid	02/10/2025 11:18	02/11/2025
ABB0709-04	SB129 (5-7.5)	Solid	02/10/2025 11:25	02/11/2025
ABB0709-05	SB29 (0-3)	Solid	02/10/2025 12:37	02/11/2025
ABB0709-06	SB29 (7.5-10)	Solid	02/10/2025 12:54	02/11/2025
ABB0709-07	SB130 (7-9)	Solid	02/10/2025 14:00	02/11/2025

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results

Sample: SB128 (0-3)

ABB0709-01 (Solid)

SVOC

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,2,4-Trichlorobenzene	ND	0.0293	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
1,2-Dichlorobenzene	ND	0.0158	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
1,3-Dichlorobenzene	ND	0.0169	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
1,4-Dichlorobenzene	ND	0.0124	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
2,4,5-Trichlorophenol	ND	0.118	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
2,4,6-Trichlorophenol	ND	0.121	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
2,4-Dichlorophenol	ND	0.113	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
2,4-Dimethylphenol	ND	0.182	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
2,4-Dinitrophenol	ND	0.238	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
2,4-Dinitrotoluene	ND	0.0462	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
2,6-Dinitrotoluene	ND	0.0169	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
2-Chloronaphthalene	ND	0.0192	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
2-Chlorophenol	ND	0.107	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
2-Methylnaphthalene	0.0402 J	0.0203	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
2-Nitroaniline	ND	0.125	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
2-Nitrophenol	ND	0.127	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
3,3-Dichlorobenzidine	ND	0.112	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
3-Nitroaniline	ND	0.120	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
4,6-Dinitro-2-methylphenol	ND	0.194	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
4-Bromophenyl phenyl ether	ND	0.0203	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
4-Chloro-3-methylphenol	ND	0.116	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
4-Chloroaniline	ND	0.157	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
4-Chlorophenyl phenyl ether	ND	0.0147	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
4-Nitroaniline	ND	0.0733	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
4-Nitrophenol	ND	0.103	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Acenaphthene	0.0489 J	0.0180	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Acenaphthylene	0.0481 J	0.0158	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Anthracene	0.0974	0.0135	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Benzo(a)anthracene	0.479	0.0113	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Benzo(a)pyrene	0.674	0.0462	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Benzo(b)fluoranthene	0.856	0.0147	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Benzo(g,h,i)perylene	0.741	0.0395	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Benzo(k)fluoranthene	0.299	0.0259	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Bis(2-chloroethoxy)methane	ND	0.0214	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
bis(2-Chloroethyl)ether	ND	0.0327	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Bis(2-chloroisopropyl)ether	ND	0.0271	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Bis(2-ethylhexyl)phthalate	ND	0.133	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Butyl benzyl phthalate	ND	0.132	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Carbazole	0.0459 J	0.0147	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Chrysene	0.577	0.0147	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Dibenzo(a,h)anthracene	0.158	0.0417	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Dibenzofuran	0.0365 J	0.0169	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Diethyl phthalate	ND	0.111	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Dimethyl phthalate	ND	0.123	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Di-n-butyl phthalate	ND	0.103	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB128 (0-3) (Continued)
ABB0709-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)									
Di-n-octyl phthalate	ND	0.148	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Fluoranthene	0.635	0.0338	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Fluorene	0.0312 J	0.0169	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Hexachlorobenzene	ND	0.121	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Hexachlorobutadiene	ND	0.116	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Hexachlorocyclopentadiene	ND	0.0981	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Hexachloroethane	ND	0.109	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Indeno(1,2,3-cd)pyrene	0.672	0.0508	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Isophorone	ND	0.0180	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
m,p-Cresol	ND	0.0267	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Naphthalene	0.0617 J	0.0169	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Nitrobenzene	ND	0.0135	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
N-Nitroso-di-n-propylamine	ND	0.0417	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
N-Nitrosodiphenylamine	ND	0.0311	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
O-Cresol	ND	0.0259	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Pentachlorophenol	ND	0.197	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Phenanthrene	0.275	0.0147	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Phenol	ND	0.114	0.376	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Pyrene	0.735	0.0158	0.0752	mg/kg dry	02/10/25 09:47	02/19/25	1	8270C	BB01418
Surrogate: 2,4,6-Tribromophenol	*60%*		*38-105*			*02/19/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*71%*		*40-110*			*02/19/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*61%*		*41-105*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*47%*		*26-133*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*69%*		*27-129*			*02/19/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*73%*		*43-105*			*02/19/25*	*1*	*8270C*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides									
4,4´-DDD	0.000853 J	0.000427	0.00149	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
4,4´-DDE	0.00368	0.000449	0.00149	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
4,4´-DDT	0.0190	0.00118	0.00149	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Aldrin	0.00660	0.000213	0.000749	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
alpha-BHC	ND	0.000370	0.000749	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
alpha-Chlordane	ND	0.000202	0.000749	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
beta-BHC	0.000875	0.000359	0.000749	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Chlordane, Technical	ND	0.0221	0.0374	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
delta-BHC	0.00198	0.000213	0.000749	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Dieldrin	ND	0.000460	0.00149	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Endosulfan I	ND	0.000180	0.000749	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Endosulfan II	0.00295	0.000382	0.00149	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Endosulfan sulfate	0.00145 J	0.000393	0.00149	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Endrin	0.00245	0.000483	0.00149	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Endrin aldehyde	0.00205	0.000438	0.00149	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Endrin ketone	0.00911	0.000516	0.00149	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB128 (0-3) (Continued)
ABB0709-01 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	0.0147		0.000236	0.000749	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
gamma-Chlordane	0.00382		0.000269	0.000749	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Heptachlor	0.00111		0.000348	0.000749	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Heptachlor epoxide	0.00161		0.000180	0.000749	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Methoxychlor	0.0199		0.00696	0.00749	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Toxaphene	ND		0.0447	0.0935	mg/kg dry	02/10/25 09:47	02/13/25	1	8081	BB01074
Surrogate: Decachlorobiphenyl	*98%*			*29-133*			*02/13/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene	*64%*			*36-118*			*02/13/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00387	0.0189	mg/kg dry	02/10/25 09:47	02/13/25	1	8082	BB01074
Aroclor 1221	ND		0.00423	0.0189	mg/kg dry	02/10/25 09:47	02/13/25	1	8082	BB01074
Aroclor 1232	ND		0.00339	0.0189	mg/kg dry	02/10/25 09:47	02/13/25	1	8082	BB01074
Aroclor 1242	ND		0.00345	0.0189	mg/kg dry	02/10/25 09:47	02/13/25	1	8082	BB01074
Aroclor 1248	ND		0.00382	0.0189	mg/kg dry	02/10/25 09:47	02/13/25	1	8082	BB01074
Aroclor 1254	ND		0.00436	0.0189	mg/kg dry	02/10/25 09:47	02/13/25	1	8082	BB01074
Aroclor 1260	ND		0.00743	0.0189	mg/kg dry	02/10/25 09:47	02/13/25	1	8082	BB01074
Surrogate: Decachlorobiphenyl	*94%*			*20-142*			*02/13/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene	*73%*			*22-123*			*02/13/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	0.144	S	0.0515	0.113	mg/kg dry	02/10/25 09:47	02/14/25	1	7471B	BB01198

Metals - CVAA - TCLP Leached

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0000860	0.000500	mg/L	02/10/25 09:47	02/17/25	1	7470A	BB01218

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	1.5	S	0.060	0.068	mg/kg dry	02/10/25 09:47	02/17/25	1	9014	BB01262
pH	11.0		0.100	0.100	pH Units	02/10/25 09:47	02/14/25	1	SW 9045D	BB01231
Temperature	21.0		1.00	1.00	pH Units	02/10/25 09:47	02/14/25	1	SW 9045D	BB01231
Percent Moisture	11.52055		0.1	0.1	%	02/10/25 09:47	02/12/25	1	ASTM-D2216	BB01068
% Solids	88.47945		0.1	0.1	%	02/10/25 09:47	02/12/25	1	ASTM-D2216	BB01068

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB128 (0-3) (Continued)
ABB0709-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry - TCLP Leached									
Cyanide, Total	ND	0.053	0.060	mg/L	02/10/25 09:47	02/13/25	1	9014	BB01153

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035									
1,1,1-Trichloroethane	ND	0.000518	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
1,1,2,2-Tetrachloroethane	ND	0.000674	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
1,1,2-Trichloroethane	ND	0.000648	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
1,1-Dichloroethane	ND	0.000583	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
1,1-Dichloroethene	ND	0.000622	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
1,2-Dichloroethane	ND	0.000428	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
1,2-Dichloropropane	ND	0.00213	0.00648	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
2-Butanone	ND	0.00307	0.0259	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
2-Hexanone	ND	0.000959	0.0324	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
4-Methyl-2-pentanone	ND	0.000972	0.0324	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Acetone	ND	0.00688	0.0324	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Benzene	ND	0.000402	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Bromoform	ND	0.00213	0.00648	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Bromomethane	ND	0.000596	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Carbon disulfide	0.00530 J	0.00194	0.00648	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Carbon tetrachloride	ND	0.000505	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Chlorobenzene	ND	0.000376	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Chloroethane	ND	0.00356	0.00648	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Chloroform	ND	0.000583	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Chloromethane	ND	0.00499	0.00648	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
cis-1,2-Dichloroethene	ND	0.000492	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
cis-1,3-dichloropropene	ND	0.000324	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Dibromochloromethane	ND	0.000557	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Ethylbenzene	ND	0.000505	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
m,p-Xylene	ND	0.000778	0.00259	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Methyl tert-butyl ether	ND	0.000454	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Methylene chloride	ND	0.00334	0.00648	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
o-Xylene	ND	0.000350	0.00259	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Styrene	ND	0.000376	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Tetrachloroethene	ND	0.000778	0.00259	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Toluene	ND	0.000609	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
trans-1,2-Dichloroethene	ND	0.000479	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
trans-1,3-dichloropropene	ND	0.000337	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Trichloroethene	ND	0.000467	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Vinyl chloride	ND	0.00133	0.00648	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	BB01164
Surrogate: 4-Bromofluorobenzene		*97%*	*76-119*			*02/13/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane		*83%*	*66-137*			*02/13/25*	*1*	*8260B*	
Surrogate: Toluene-d8		*98%*	*80-120*			*02/13/25*	*1*	*8260B*	

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB128 (0-3) (Continued)
ABB0709-01 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
Total 1,3-Dichloropropene	ND		0.000324	0.00130	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	[CALC]
Total Xylenes	ND		0.000350	0.00259	mg/kg dry	02/10/25 09:47	02/13/25	1	8260B	[CALC]

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	17100		540	1000	mg/kg Dry	02/10/25 09:47	02/14/25	100	6010B	BB01161
Antimony	2.23	J	0.610	5.00	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Arsenic	6.01		0.330	5.00	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Barium	164		0.530	2.50	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Beryllium	2.43		0.0290	0.300	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Cadmium	0.377		0.0300	0.250	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Calcium	144000		1310	2500	mg/kg Dry	02/10/25 09:47	02/14/25	100	6010B	BB01161
Chromium	383		0.435	1.25	mg/kg Dry	02/10/25 09:47	02/14/25	5	6010B	BB01161
Cobalt	2.94		0.0910	1.25	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Copper	75.9		1.10	5.00	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Iron	44300		302	500	mg/kg Dry	02/10/25 09:47	02/14/25	20	6010B	BB01161
Lead	137		0.210	1.25	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Magnesium	29800		254	500	mg/kg Dry	02/10/25 09:47	02/14/25	20	6010B	BB01161
Manganese	5060		11.0	15.0	mg/kg Dry	02/10/25 09:47	02/14/25	20	6010B	BB01161
Nickel	72.2		0.260	1.25	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Potassium	900		20.2	25.0	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Selenium	3.28	G, J	1.80	25.0	mg/kg Dry	02/10/25 09:47	02/14/25	5	6010B	BB01161
Silver	0.939		0.260	0.500	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Sodium	473		19.2	25.0	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Thallium	6.78		0.230	1.25	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Vanadium	58.6		0.190	1.25	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161
Zinc	147		1.20	5.00	mg/kg Dry	02/10/25 09:47	02/14/25	1	6010B	BB01161

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached										
Arsenic	0.00834	J	0.00560	0.0250	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271
Barium	0.321		0.00270	0.250	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271
Beryllium	ND		0.000390	0.00500	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271
Cadmium	ND		0.000590	0.0100	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271
Chromium	0.0169	J	0.00300	0.0250	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271
Iron	2.80		0.0520	0.250	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271
Lead	0.0202	J	0.00130	0.0250	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271
Manganese	1.66		0.00790	0.0250	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271
Nickel	0.0107	J	0.00390	0.0250	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271
Selenium	ND		0.00570	0.0250	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271
Silver	ND		0.00210	0.0100	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271
Thallium	0.0267	J	0.00340	0.100	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271
Zinc	0.0230	J	0.0120	0.100	mg/L	02/10/25 09:47	02/18/25	1	6010B	BB01271

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results

(Continued)

Sample: SB128 (0-3) (Continued)

ABB0709-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - SPLP Leached									
Thallium	ND	0.00680	0.200	mg/L	02/10/25 09:47	03/14/25	1	6010B	BB02882

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results

(Continued)

Sample: SB128 (7.5-10)

ABB0709-02 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
1,2,4-Trichlorobenzene	ND		0.0287	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
1,2-Dichlorobenzene	ND		0.0155	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
1,3-Dichlorobenzene	ND		0.0166	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
1,4-Dichlorobenzene	ND		0.0121	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
2,4,5-Trichlorophenol	ND		0.116	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
2,4,6-Trichlorophenol	ND		0.118	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
2,4-Dichlorophenol	ND		0.110	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
2,4-Dimethylphenol	ND		0.178	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
2,4-Dinitrophenol	ND		0.233	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
2,4-Dinitrotoluene	ND		0.0453	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
2,6-Dinitrotoluene	ND		0.0166	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
2-Chloronaphthalene	ND		0.0188	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
2-Chlorophenol	ND		0.105	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
2-Methylnaphthalene	0.184		0.0199	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
2-Nitroaniline	ND		0.123	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
2-Nitrophenol	ND		0.125	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
3,3-Dichlorobenzidine	ND		0.109	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
3-Nitroaniline	ND		0.117	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
4,6-Dinitro-2-methylphenol	ND		0.190	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
4-Bromophenyl phenyl ether	ND		0.0199	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
4-Chloro-3-methylphenol	ND		0.114	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
4-Chloroaniline	ND		0.153	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
4-Chlorophenyl phenyl ether	ND		0.0144	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
4-Nitroaniline	ND		0.0718	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
4-Nitrophenol	ND		0.100	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Acenaphthene	0.600		0.0177	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Acenaphthylene	0.209		0.0155	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Anthracene	0.398		0.0132	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Benzo(a)anthracene	1.24		0.0110	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Benzo(a)pyrene	0.926		0.0453	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Benzo(b)fluoranthene	1.46		0.0144	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Benzo(g,h,i)perylene	0.743		0.0386	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Benzo(k)fluoranthene	0.534		0.0254	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Bis(2-chloroethoxy)methane	ND		0.0210	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
bis(2-Chloroethyl)ether	ND		0.0320	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Bis(2-chloroisopropyl)ether	ND		0.0265	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Bis(2-ethylhexyl)phthalate	ND		0.130	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Butyl benzyl phthalate	ND		0.129	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Carbazole	0.0684	J	0.0144	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Chrysene	1.45		0.0144	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Dibenzo(a,h)anthracene	0.224		0.0408	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Dibenzofuran	0.408		0.0166	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Diethyl phthalate	ND		0.108	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Dimethyl phthalate	ND		0.120	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Di-n-butyl phthalate	ND		0.100	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB128 (7.5-10) (Continued)
ABB0709-02 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Di-n-octyl phthalate	ND		0.145	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Fluoranthene	2.52		0.0331	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Fluorene	0.334		0.0166	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Hexachlorobenzene	ND		0.118	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Hexachlorobutadiene	ND		0.114	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Hexachlorocyclopentadiene	ND		0.0960	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Hexachloroethane	ND		0.107	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Indeno(1,2,3-cd)pyrene	0.740		0.0497	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Isophorone	ND		0.0177	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
m,p-Cresol	ND		0.0262	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Naphthalene	0.0662	J	0.0166	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Nitrobenzene	ND		0.0132	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
N-Nitroso-di-n-propylamine	ND		0.0408	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
N-Nitrosodiphenylamine	ND		0.0305	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
O-Cresol	ND		0.0254	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Pentachlorophenol	ND		0.193	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Phenanthrene	1.25		0.0144	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Phenol	ND		0.111	0.368	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Pyrene	2.34		0.0155	0.0736	mg/kg dry	02/10/25 09:59	02/19/25	1	8270C	BB01418
Surrogate: 2,4,6-Tribromophenol	*52%*			*38-105*			*02/19/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*59%*			*40-110*			*02/19/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*55%*			*41-105*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*42%*			*26-133*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*57%*			*27-129*			*02/19/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*62%*			*43-105*			*02/19/25*	*1*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND	S,	0.000420	0.00147	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
4,4´-DDE	0.00131	J	0.000442	0.00147	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
4,4´-DDT	0.00979	R	0.00116	0.00147	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Aldrin	0.00149	R	0.000210	0.000737	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
alpha-BHC	0.000489	S, J	0.000365	0.000737	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
alpha-Chlordane	ND		0.000199	0.000737	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
beta-BHC	ND		0.000354	0.000737	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Chlordane, Technical	ND		0.0218	0.0368	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
delta-BHC	0.00338	R, S	0.000210	0.000737	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Dieldrin	0.00216		0.000453	0.00147	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Endosulfan I	0.00123	R, S	0.000177	0.000737	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Endosulfan II	ND	S,	0.000376	0.00147	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Endosulfan sulfate	ND	S,	0.000387	0.00147	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Endrin	0.00288		0.000475	0.00147	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Endrin aldehyde	0.00191		0.000431	0.00147	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Endrin ketone	0.00933	S	0.000508	0.00147	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074

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Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

Project: Pioneer Environmental - General
Project Number: 8080 S Lake Shore Drive
Project Manager: Jake Hartsock

Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB128 (7.5-10) (Continued)
ABB0709-02 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	0.00333	S	0.000232	0.000737	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
gamma-Chlordane	0.00171		0.000265	0.000737	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Heptachlor	0.00132		0.000343	0.000737	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Heptachlor epoxide	0.00118	R	0.000177	0.000737	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Methoxychlor	0.00953		0.00685	0.00737	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Toxaphene	ND		0.0440	0.0920	mg/kg dry	02/10/25 09:59	02/13/25	1	8081	BB01074
Surrogate: Decachlorobiphenyl	*164%*	S	*29-133*				*02/13/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene	*64%*		*36-118*				*02/13/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00380	0.0185	mg/kg dry	02/10/25 09:59	02/13/25	1	8082	BB01074
Aroclor 1221	ND		0.00415	0.0185	mg/kg dry	02/10/25 09:59	02/13/25	1	8082	BB01074
Aroclor 1232	ND		0.00333	0.0185	mg/kg dry	02/10/25 09:59	02/13/25	1	8082	BB01074
Aroclor 1242	ND		0.00339	0.0185	mg/kg dry	02/10/25 09:59	02/13/25	1	8082	BB01074
Aroclor 1248	ND		0.00375	0.0185	mg/kg dry	02/10/25 09:59	02/13/25	1	8082	BB01074
Aroclor 1254	ND		0.00429	0.0185	mg/kg dry	02/10/25 09:59	02/13/25	1	8082	BB01074
Aroclor 1260	ND		0.00730	0.0185	mg/kg dry	02/10/25 09:59	02/13/25	1	8082	BB01074
Surrogate: Decachlorobiphenyl	*61%*		*20-142*				*02/13/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene	*65%*		*22-123*				*02/13/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	0.155		0.0422	0.0922	mg/kg dry	02/10/25 09:59	02/14/25	1	7471B	BB01198

Metals - CVAA - TCLP Leached

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0000860	0.000500	mg/L	02/10/25 09:59	03/06/25	1	7470A	BB02226

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	2.8		0.059	0.067	mg/kg dry	02/10/25 09:59	02/17/25	1	9014	BB01262
pH	10.7		0.100	0.100	pH Units	02/10/25 09:59	02/14/25	1	SW 9045D	BB01231
Temperature	20.6		1.00	1.00	pH Units	02/10/25 09:59	02/14/25	1	SW 9045D	BB01231
Percent Moisture	9.950508		0.1	0.1	%	02/10/25 09:59	02/12/25	1	ASTM-D2216	BB01068
% Solids	90.04949		0.1	0.1	%	02/10/25 09:59	02/12/25	1	ASTM-D2216	BB01068

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB128 (7.5-10) (Continued)
ABB0709-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry - TCLP Leached									
Cyanide, Total	ND	0.059	0.067	mg/kg dry	02/10/25 09:59	03/05/25	1	9014	BB02238

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035									
1,1,1-Trichloroethane	ND	0.000366	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
1,1,2,2-Tetrachloroethane	ND	0.000476	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
1,1,2-Trichloroethane	ND	0.000458	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
1,1-Dichloroethane	ND	0.000412	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
1,1-Dichloroethene	ND	0.000439	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
1,2-Dichloroethane	ND	0.000302	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
1,2-Dichloropropane	ND	0.00150	0.00458	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
2-Butanone	ND	0.00217	0.0183	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
2-Hexanone	ND	0.000678	0.0229	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
4-Methyl-2-pentanone	ND	0.000687	0.0229	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Acetone	ND	0.00486	0.0229	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Benzene	ND	0.000284	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Bromoform	ND	0.00150	0.00458	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Bromomethane	ND	0.000421	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Carbon disulfide	0.00215 J	0.00137	0.00458	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Carbon tetrachloride	ND	0.000357	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Chlorobenzene	ND	0.000266	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Chloroethane	ND	0.00252	0.00458	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Chloroform	ND	0.000412	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Chloromethane	ND	0.00353	0.00458	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
cis-1,2-Dichloroethene	ND	0.000348	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
cis-1,3-dichloropropene	ND	0.000229	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Dibromochloromethane	ND	0.000394	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Ethylbenzene	ND	0.000357	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
m,p-Xylene	ND	0.000549	0.00183	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Methyl tert-butyl ether	ND	0.000320	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Methylene chloride	ND	0.00236	0.00458	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
o-Xylene	ND	0.000247	0.00183	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Styrene	ND	0.000266	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Tetrachloroethene	ND	0.000549	0.00183	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Toluene	ND	0.000430	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
trans-1,2-Dichloroethene	ND	0.000339	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
trans-1,3-dichloropropene	ND	0.000238	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Trichloroethene	ND	0.000330	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Vinyl chloride	ND	0.000943	0.00458	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	BB01164
Surrogate: 4-Bromofluorobenzene	*98%*		*76-119*			*02/13/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*86%*		*66-137*			*02/13/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*99%*		*80-120*			*02/13/25*	*1*	*8260B*	

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB128 (7.5-10) (Continued)
ABB0709-02 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
Total 1,3-Dichloropropene	ND		0.000229	0.000916	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	[CALC]
Total Xylenes	ND		0.000247	0.00183	mg/kg dry	02/10/25 09:59	02/13/25	1	8260B	[CALC]

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	13600		535	990	mg/kg Dry	02/10/25 09:59	02/14/25	100	6010B	BB01161
Antimony	2.14	J	0.604	4.95	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Arsenic	25.5		0.327	4.95	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Barium	132		0.525	2.48	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Beryllium	1.25		0.0287	0.297	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Cadmium	0.633		0.0297	0.248	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Calcium	87500		259	495	mg/kg Dry	02/10/25 09:59	02/14/25	20	6010B	BB01161
Chromium	525		0.431	1.24	mg/kg Dry	02/10/25 09:59	02/14/25	5	6010B	BB01161
Cobalt	4.39		0.0901	1.24	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Copper	172		1.09	4.95	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Iron	59600		299	495	mg/kg Dry	02/10/25 09:59	02/14/25	20	6010B	BB01161
Lead	261		0.208	1.24	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Magnesium	17300		62.9	124	mg/kg Dry	02/10/25 09:59	02/14/25	5	6010B	BB01161
Manganese	6910		10.9	14.9	mg/kg Dry	02/10/25 09:59	02/14/25	20	6010B	BB01161
Nickel	129		0.257	1.24	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Potassium	1270		20.0	24.8	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Selenium	4.47	G, J	1.78	24.8	mg/kg Dry	02/10/25 09:59	02/14/25	5	6010B	BB01161
Silver	1.53		0.257	0.495	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Sodium	649		19.0	24.8	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Thallium	10.1		0.228	1.24	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Vanadium	192		0.188	1.24	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161
Zinc	216		1.19	4.95	mg/kg Dry	02/10/25 09:59	02/14/25	1	6010B	BB01161

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached										
Arsenic	ND		0.00560	0.0250	mg/L	02/10/25 09:59	03/06/25	1	6010B	BB02319
Chromium	ND		0.00300	0.0250	mg/L	02/10/25 09:59	03/06/25	1	6010B	BB02319
Iron	ND		0.0520	0.250	mg/L	02/10/25 09:59	03/06/25	1	6010B	BB02319
Lead	0.00673	J	0.00130	0.0250	mg/L	02/10/25 09:59	03/06/25	1	6010B	BB02319
Manganese	7.41		0.00790	0.0250	mg/L	02/10/25 09:59	03/06/25	1	6010B	BB02319
Nickel	0.0469		0.00390	0.0250	mg/L	02/10/25 09:59	03/06/25	1	6010B	BB02319
Selenium	ND		0.00570	0.0250	mg/L	02/10/25 09:59	03/06/25	1	6010B	BB02319
Silver	0.00222	J	0.00210	0.0100	mg/L	02/10/25 09:59	03/06/25	1	6010B	BB02319
Thallium	0.0130	J	0.00340	0.100	mg/L	02/10/25 09:59	03/06/25	1	6010B	BB02319
Vanadium	0.0503		0.00120	0.0500	mg/L	02/10/25 09:59	03/06/25	1	6010B	BB02319
Zinc	ND		0.0120	0.100	mg/L	02/10/25 09:59	03/06/25	1	6010B	BB02319

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results

(Continued)

Sample: SB129 (0-3)

ABB0709-03 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
1,2,4-Trichlorobenzene	0.0784		0.0288	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
1,2-Dichlorobenzene	ND		0.0155	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
1,3-Dichlorobenzene	ND		0.0166	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
1,4-Dichlorobenzene	ND		0.0122	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
2,4,5-Trichlorophenol	ND		0.116	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
2,4,6-Trichlorophenol	ND		0.119	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
2,4-Dichlorophenol	ND		0.111	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
2,4-Dimethylphenol	ND		0.179	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
2,4-Dinitrophenol	ND		0.234	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
2,4-Dinitrotoluene	ND		0.0455	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
2,6-Dinitrotoluene	ND		0.0166	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
2-Chloronaphthalene	ND		0.0189	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
2-Chlorophenol	ND		0.105	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
2-Methylnaphthalene	0.302		0.0200	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
2-Nitroaniline	ND		0.123	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
2-Nitrophenol	ND		0.125	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
3,3-Dichlorobenzidine	ND		0.110	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
3-Nitroaniline	ND		0.118	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
4,6-Dinitro-2-methylphenol	ND		0.191	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
4-Bromophenyl phenyl ether	ND		0.0200	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
4-Chloro-3-methylphenol	ND		0.114	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
4-Chloroaniline	ND		0.154	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
4-Chlorophenyl phenyl ether	ND		0.0144	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
4-Nitroaniline	ND		0.0721	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
4-Nitrophenol	ND		0.101	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Acenaphthene	0.0314	J	0.0177	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Acenaphthylene	0.0518	J	0.0155	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Anthracene	0.0769		0.0133	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Benzo(a)anthracene	0.210		0.0111	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Benzo(a)pyrene	0.229		0.0455	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Benzo(b)fluoranthene	0.371		0.0144	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Benzo(g,h,i)perylene	0.201		0.0388	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Benzo(k)fluoranthene	0.128		0.0255	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Bis(2-chloroethoxy)methane	ND		0.0211	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
bis(2-Chloroethyl)ether	ND		0.0322	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Bis(2-chloroisopropyl)ether	ND		0.0266	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Bis(2-ethylhexyl)phthalate	ND		0.131	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Butyl benzyl phthalate	ND		0.130	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Carbazole	0.0473	J	0.0144	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Chrysene	0.276		0.0144	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Dibenzo(a,h)anthracene	0.0680	J	0.0410	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Dibenzofuran	0.0902		0.0166	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Diethyl phthalate	ND		0.109	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Dimethyl phthalate	ND		0.121	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Di-n-butyl phthalate	ND		0.101	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB129 (0-3) (Continued)
ABB0709-03 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)									
Di-n-octyl phthalate	ND	0.145	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Fluoranthene	0.427	0.0333	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Fluorene	0.0270 J	0.0166	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Hexachlorobenzene	ND	0.119	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Hexachlorobutadiene	ND	0.114	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Hexachlorocyclopentadiene	ND	0.0965	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Hexachloroethane	ND	0.108	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Indeno(1,2,3-cd)pyrene	0.199	0.0499	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Isophorone	ND	0.0177	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
m,p-Cresol	ND	0.0263	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Naphthalene	0.152	0.0166	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Nitrobenzene	ND	0.0133	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
N-Nitroso-di-n-propylamine	ND	0.0410	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
N-Nitrosodiphenylamine	ND	0.0306	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
O-Cresol	ND	0.0255	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Pentachlorophenol	ND	0.194	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Phenanthrene	0.674	0.0144	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Phenol	ND	0.112	0.369	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Pyrene	0.335	0.0155	0.0740	mg/kg dry	02/10/25 11:18	02/19/25	1	8270C	BB01418
Surrogate: 2,4,6-Tribromophenol	*64%*		*38-105*			*02/19/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*72%*		*40-110*			*02/19/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*63%*		*41-105*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*42%*		*26-133*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*70%*		*27-129*			*02/19/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*68%*		*43-105*			*02/19/25*	*1*	*8270C*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides									
4,4´-DDD	ND	0.000421	0.00147	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
4,4´-DDE	ND	0.000443	0.00147	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
4,4´-DDT	0.00436	0.00116	0.00147	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Aldrin	ND	0.000210	0.000739	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
alpha-BHC	ND	0.000365	0.000739	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
alpha-Chlordane	ND	0.000199	0.000739	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
beta-BHC	ND	0.000354	0.000739	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Chlordane, Technical	ND	0.0218	0.0369	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
delta-BHC	ND	0.000210	0.000739	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Dieldrin	ND	0.000454	0.00147	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Endosulfan I	ND	0.000177	0.000739	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Endosulfan II	ND	0.000377	0.00147	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Endosulfan sulfate	ND	0.000388	0.00147	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Endrin	ND	0.000476	0.00147	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Endrin aldehyde	0.00274	0.000432	0.00147	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Endrin ketone	ND	0.000509	0.00147	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB129 (0-3) (Continued)
ABB0709-03 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	0.00271		0.000233	0.000739	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
gamma-Chlordane	0.000914		0.000266	0.000739	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Heptachlor	0.00229		0.000343	0.000739	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Heptachlor epoxide	0.000648	J	0.000177	0.000739	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Methoxychlor	ND		0.00687	0.00739	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Toxaphene	ND		0.0441	0.0923	mg/kg dry	02/10/25 11:18	02/13/25	1	8081	BB01074
Surrogate: Decachlorobiphenyl		*70%*		*29-133*			*02/13/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*42%*		*36-118*			*02/13/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00380	0.0186	mg/kg dry	02/10/25 11:18	02/13/25	1	8082	BB01074
Aroclor 1221	ND		0.00416	0.0186	mg/kg dry	02/10/25 11:18	02/13/25	1	8082	BB01074
Aroclor 1232	ND		0.00334	0.0186	mg/kg dry	02/10/25 11:18	02/13/25	1	8082	BB01074
Aroclor 1242	ND		0.00339	0.0186	mg/kg dry	02/10/25 11:18	02/13/25	1	8082	BB01074
Aroclor 1248	ND		0.00376	0.0186	mg/kg dry	02/10/25 11:18	02/13/25	1	8082	BB01074
Aroclor 1254	ND		0.00429	0.0186	mg/kg dry	02/10/25 11:18	02/13/25	1	8082	BB01074
Aroclor 1260	ND		0.00731	0.0186	mg/kg dry	02/10/25 11:18	02/13/25	1	8082	BB01074
Surrogate: Decachlorobiphenyl		*71%*		*20-142*			*02/13/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene		*43%*		*22-123*			*02/13/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	0.0702	J	0.0470	0.103	mg/kg dry	02/10/25 11:18	02/14/25	1	7471B	BB01198

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	25	S	0.59	0.67	mg/kg dry	02/10/25 11:18	02/19/25	10	9014	BB01419
pH	8.36		0.100	0.100	pH Units	02/10/25 11:18	02/14/25	1	SW 9045D	BB01231
Temperature	20.8		1.00	1.00	pH Units	02/10/25 11:18	02/14/25	1	SW 9045D	BB01231
Percent Moisture	10.0935		0.1	0.1	%	02/10/25 11:18	02/12/25	1	ASTM-D2216	BB01068
% Solids	89.9065		0.1	0.1	%	02/10/25 11:18	02/12/25	1	ASTM-D2216	BB01068

Volatile Organics - Prep EPA 5035

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1,1-Trichloroethane	ND		0.000362	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
1,1,2,2-Tetrachloroethane	ND	G,	0.000470	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
1,1,2-Trichloroethane	ND		0.000452	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB129 (0-3) (Continued)
ABB0709-03 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035 (Continued)									
1,1-Dichloroethane	ND	0.000407	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
1,1-Dichloroethene	ND	0.000434	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
1,2-Dichloroethane	ND	0.000298	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
1,2-Dichloropropane	ND	0.00148	0.00452	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
2-Butanone	ND	0.00214	0.0181	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
2-Hexanone	ND	0.000669	0.0226	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
4-Methyl-2-pentanone	ND	0.000678	0.0226	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Acetone	ND	0.00480	0.0226	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Benzene	ND	0.000280	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Bromoform	ND	0.00148	0.00452	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Bromomethane	ND	0.000416	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Carbon disulfide	0.00264 J	0.00136	0.00452	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Carbon tetrachloride	ND	0.000353	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Chlorobenzene	ND	0.000262	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Chloroethane	ND	0.00249	0.00452	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Chloroform	ND	0.000407	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Chloromethane	ND	0.00348	0.00452	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
cis-1,2-Dichloroethene	ND	0.000344	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
cis-1,3-dichloropropene	ND	0.000226	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Dibromochloromethane	ND	0.000389	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Ethylbenzene	ND	0.000353	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
m,p-Xylene	ND	0.000543	0.00181	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Methyl tert-butyl ether	ND	0.000316	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Methylene chloride	ND	0.00233	0.00452	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
o-Xylene	ND	0.000244	0.00181	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Styrene	ND	0.000262	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Tetrachloroethene	ND	0.000543	0.00181	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Toluene	ND	0.000425	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
trans-1,2-Dichloroethene	ND	0.000335	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
trans-1,3-dichloropropene	ND	0.000235	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Trichloroethene	ND	0.000326	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Vinyl chloride	ND	0.000931	0.00452	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	BB01221
Surrogate: 4-Bromofluorobenzene	*99%*		*76-119*			*02/14/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*96%*		*66-137*			*02/14/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*102%*		*80-120*			*02/14/25*	*1*	*8260B*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics									
Total 1,3-Dichloropropene	ND	0.000226	0.000904	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	[CALC]
Total Xylenes	ND	0.000244	0.00181	mg/kg dry	02/10/25 11:18	02/14/25	1	8260B	[CALC]

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB129 (0-3) (Continued)
ABB0709-03 (Solid)

Metals - ICP

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aluminum	13300		540	1000	mg/kg Dry	02/10/25 11:18	02/14/25	100	6010B	BB01161
Antimony	254		0.610	5.00	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Arsenic	15.9		0.330	5.00	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Barium	186		0.530	2.50	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Beryllium	2.37		0.0290	0.300	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Cadmium	0.322		0.0300	0.250	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Calcium	66400		262	500	mg/kg Dry	02/10/25 11:18	02/14/25	20	6010B	BB01161
Chromium	2170		0.435	1.25	mg/kg Dry	02/10/25 11:18	02/14/25	5	6010B	BB01161
Cobalt	16.6		0.0910	1.25	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Copper	281		1.10	5.00	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Iron	94000		302	500	mg/kg Dry	02/10/25 11:18	02/14/25	20	6010B	BB01161
Lead	1160		1.05	6.25	mg/kg Dry	02/10/25 11:18	02/14/25	5	6010B	BB01161
Magnesium	4890		12.7	25.0	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Manganese	5390		11.0	15.0	mg/kg Dry	02/10/25 11:18	02/14/25	20	6010B	BB01161
Nickel	779		1.30	6.25	mg/kg Dry	02/10/25 11:18	02/14/25	5	6010B	BB01161
Potassium	1410		20.2	25.0	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Selenium	3.22	G, J	1.80	25.0	mg/kg Dry	02/10/25 11:18	02/14/25	5	6010B	BB01161
Silver	0.978		0.260	0.500	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Sodium	440		19.2	25.0	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Thallium	7.21		0.230	1.25	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Vanadium	31.4		0.190	1.25	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161
Zinc	201		1.20	5.00	mg/kg Dry	02/10/25 11:18	02/14/25	1	6010B	BB01161

Metals - ICP - TCLP Leached

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Antimony	0.0221	G, J	0.00480	0.0350	mg/L	02/10/25 11:18	03/06/25	1	6010B	BB02319
Beryllium	0.000517	J	0.000390	0.00500	mg/L	02/10/25 11:18	03/06/25	1	6010B	BB02319
Chromium	0.00426	J	0.00300	0.0250	mg/L	02/10/25 11:18	03/06/25	1	6010B	BB02319
Cobalt	0.00397	J	0.000570	0.0500	mg/L	02/10/25 11:18	03/06/25	1	6010B	BB02319
Iron	ND		0.0520	0.250	mg/L	02/10/25 11:18	03/06/25	1	6010B	BB02319
Lead	0.0311		0.00130	0.0250	mg/L	02/10/25 11:18	03/06/25	1	6010B	BB02319
Manganese	8.76		0.00790	0.0250	mg/L	02/10/25 11:18	03/06/25	1	6010B	BB02319
Selenium	ND		0.00570	0.0250	mg/L	02/10/25 11:18	03/06/25	1	6010B	BB02319
Silver	ND		0.00210	0.0100	mg/L	02/10/25 11:18	03/06/25	1	6010B	BB02319
Thallium	0.0147	J	0.00340	0.100	mg/L	02/10/25 11:18	03/06/25	1	6010B	BB02319
Zinc	0.149		0.0120	0.100	mg/L	02/10/25 11:18	03/06/25	1	6010B	BB02319

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results

(Continued)

Sample: SB129 (5-7.5)

ABB0709-04 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
1,2,4-Trichlorobenzene	ND		0.0306	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
1,2-Dichlorobenzene	ND		0.0165	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
1,3-Dichlorobenzene	ND		0.0176	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
1,4-Dichlorobenzene	ND		0.0129	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
2,4,5-Trichlorophenol	ND		0.123	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
2,4,6-Trichlorophenol	ND		0.126	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
2,4-Dichlorophenol	ND		0.118	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
2,4-Dimethylphenol	ND		0.189	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
2,4-Dinitrophenol	ND		0.248	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
2,4-Dinitrotoluene	ND		0.0482	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
2,6-Dinitrotoluene	ND		0.0176	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
2-Chloronaphthalene	ND		0.0200	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
2-Chlorophenol	ND		0.112	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
2-Methylnaphthalene	0.0784		0.0212	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
2-Nitroaniline	ND		0.131	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
2-Nitrophenol	ND		0.133	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
3,3-Dichlorobenzidine	ND		0.116	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
3-Nitroaniline	ND		0.125	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
4,6-Dinitro-2-methylphenol	ND		0.202	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
4-Bromophenyl phenyl ether	ND		0.0212	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
4-Chloro-3-methylphenol	ND		0.121	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
4-Chloroaniline	ND		0.163	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
4-Chlorophenyl phenyl ether	ND		0.0153	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
4-Nitroaniline	ND		0.0764	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
4-Nitrophenol	ND		0.107	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Acenaphthene	ND		0.0188	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Acenaphthylene	0.0216	J	0.0165	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Anthracene	0.0329	J	0.0141	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Benzo(a)anthracene	0.0768	J	0.0118	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Benzo(a)pyrene	0.0831		0.0482	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Benzo(b)fluoranthene	0.120		0.0153	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Benzo(g,h,i)perylene	0.0678	J	0.0412	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Benzo(k)fluoranthene	0.0415	J	0.0270	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Bis(2-chloroethoxy)methane	ND		0.0223	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
bis(2-Chloroethyl)ether	ND		0.0341	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Bis(2-chloroisopropyl)ether	ND		0.0282	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Bis(2-ethylhexyl)phthalate	0.160	J	0.139	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Butyl benzyl phthalate	ND		0.138	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Carbazole	0.0274	J	0.0153	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Chrysene	0.0992		0.0153	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Dibenzo(a,h)anthracene	ND		0.0435	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Dibenzofuran	0.0282	J	0.0176	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Diethyl phthalate	ND		0.115	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Dimethyl phthalate	ND		0.128	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Di-n-butyl phthalate	ND		0.107	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB129 (5-7.5) (Continued)
ABB0709-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)									
Di-n-octyl phthalate	ND	0.154	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Fluoranthene	0.131	0.0353	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Fluorene	0.0223 J	0.0176	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Hexachlorobenzene	ND	0.126	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Hexachlorobutadiene	ND	0.121	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Hexachlorocyclopentadiene	ND	0.102	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Hexachloroethane	ND	0.114	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Indeno(1,2,3-cd)pyrene	0.0796	0.0529	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Isophorone	ND	0.0188	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
m,p-Cresol	ND	0.0279	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Naphthalene	0.0502 J	0.0176	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Nitrobenzene	ND	0.0141	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
N-Nitroso-di-n-propylamine	ND	0.0435	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
N-Nitrosodiphenylamine	ND	0.0325	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
O-Cresol	ND	0.0270	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Pentachlorophenol	ND	0.206	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Phenanthrene	0.340	0.0153	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Phenol	ND	0.119	0.392	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Pyrene	0.106	0.0165	0.0784	mg/kg dry	02/10/25 11:25	02/19/25	1	8270C	BB01418
Surrogate: 2,4,6-Tribromophenol	*65%*		*38-105*			*02/19/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*74%*		*40-110*			*02/19/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*65%*		*41-105*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*43%*		*26-133*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*74%*		*27-129*			*02/19/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*70%*		*43-105*			*02/19/25*	*1*	*8270C*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides									
4,4´-DDD	ND	0.000448	0.00157	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
4,4´-DDE	ND	0.000471	0.00157	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
4,4´-DDT	ND	0.00124	0.00157	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Aldrin	ND	0.000224	0.000786	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
alpha-BHC	ND	0.000389	0.000786	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
alpha-Chlordane	ND	0.000212	0.000786	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
beta-BHC	ND	0.000377	0.000786	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Chlordane, Technical	ND	0.0232	0.0392	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
delta-BHC	ND	0.000224	0.000786	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Dieldrin	ND	0.000483	0.00157	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Endosulfan I	ND	0.000188	0.000786	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Endosulfan II	0.00188	0.000400	0.00157	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Endosulfan sulfate	ND	0.000412	0.00157	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Endrin	0.00155 J	0.000506	0.00157	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Endrin aldehyde	0.00147 J	0.000459	0.00157	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Endrin ketone	ND	0.000542	0.00157	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB129 (5-7.5) (Continued)
ABB0709-04 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	0.00244		0.000247	0.000786	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
gamma-Chlordane	ND		0.000283	0.000786	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Heptachlor	ND		0.000365	0.000786	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Heptachlor epoxide	ND		0.000188	0.000786	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Methoxychlor	ND		0.00730	0.00786	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Toxaphene	ND		0.0469	0.0981	mg/kg dry	02/10/25 11:25	02/13/25	1	8081	BB01074
Surrogate: Decachlorobiphenyl		*57%*		*29-133*			*02/13/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*43%*		*36-118*			*02/13/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00403	0.0197	mg/kg dry	02/10/25 11:25	02/13/25	1	8082	BB01074
Aroclor 1221	ND		0.00441	0.0197	mg/kg dry	02/10/25 11:25	02/13/25	1	8082	BB01074
Aroclor 1232	ND		0.00354	0.0197	mg/kg dry	02/10/25 11:25	02/13/25	1	8082	BB01074
Aroclor 1242	ND		0.00359	0.0197	mg/kg dry	02/10/25 11:25	02/13/25	1	8082	BB01074
Aroclor 1248	ND		0.00398	0.0197	mg/kg dry	02/10/25 11:25	02/13/25	1	8082	BB01074
Aroclor 1254	ND		0.00455	0.0197	mg/kg dry	02/10/25 11:25	02/13/25	1	8082	BB01074
Aroclor 1260	ND		0.00774	0.0197	mg/kg dry	02/10/25 11:25	02/13/25	1	8082	BB01074
Surrogate: Decachlorobiphenyl		*57%*		*20-142*			*02/13/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene		*48%*		*22-123*			*02/13/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0448	0.0978	mg/kg dry	02/10/25 11:25	02/14/25	1	7471B	BB01198

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	1.8		0.062	0.071	mg/kg dry	02/10/25 11:25	02/17/25	1	9014	BB01262
pH	9.94		0.100	0.100	pH Units	02/10/25 11:25	02/14/25	1	SW 9045D	BB01231
Temperature	20.5		1.00	1.00	pH Units	02/10/25 11:25	02/14/25	1	SW 9045D	BB01231
Percent Moisture	15.14635		0.1	0.1	%	02/10/25 11:25	02/12/25	1	ASTM-D2216	BB01068
% Solids	84.85365		0.1	0.1	%	02/10/25 11:25	02/12/25	1	ASTM-D2216	BB01068

Wet Chemistry - TCLP Leached

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	0.066	J	0.062	0.071	mg/kg dry	02/10/25 11:25	03/05/25	1	9014	BB02238

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB129 (5-7.5) (Continued)
ABB0709-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035									
1,1,1-Trichloroethane	ND	0.000396	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
1,1,2,2-Tetrachloroethane	ND	0.000515	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
1,1,2-Trichloroethane	ND	0.000495	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
1,1-Dichloroethane	ND	0.000446	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
1,1-Dichloroethene	ND	0.000475	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
1,2-Dichloroethane	ND	0.000327	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
1,2-Dichloropropane	ND	0.00162	0.00495	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
2-Butanone	ND	0.00235	0.0198	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
2-Hexanone	ND	0.000733	0.0248	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
4-Methyl-2-pentanone	ND	0.000743	0.0248	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Acetone	ND	0.00526	0.0248	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Benzene	ND	0.000307	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Bromoform	ND	0.00162	0.00495	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Bromomethane	ND	0.000455	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Carbon disulfide	0.00507	0.00149	0.00495	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Carbon tetrachloride	ND	0.000386	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Chlorobenzene	ND	0.000287	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Chloroethane	ND	0.00272	0.00495	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Chloroform	ND	0.000446	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Chloromethane	ND	0.00381	0.00495	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
cis-1,2-Dichloroethene	ND	0.000376	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
cis-1,3-dichloropropene	ND	0.000248	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Dibromochloromethane	ND	0.000426	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Ethylbenzene	0.00125	0.000386	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
m,p-Xylene	0.000772 J	0.000594	0.00198	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Methyl tert-butyl ether	ND	0.000347	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Methylene chloride	ND	0.00255	0.00495	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
o-Xylene	ND	0.000267	0.00198	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Styrene	ND	0.000287	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Tetrachloroethene	ND	0.000594	0.00198	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Toluene	0.00122	0.000465	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
trans-1,2-Dichloroethene	ND	0.000366	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
trans-1,3-dichloropropene	ND	0.000257	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Trichloroethene	ND	0.000356	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Vinyl chloride	ND	0.00102	0.00495	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	BB01164
Surrogate: 4-Bromofluorobenzene	*94%*		*76-119*			*02/13/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*86%*		*66-137*			*02/13/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*98%*		*80-120*			*02/13/25*	*1*	*8260B*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics									
Total 1,3-Dichloropropene	ND	0.000248	0.000990	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	[CALC]
Total Xylenes	0.000772 J	0.000267	0.00198	mg/kg dry	02/10/25 11:25	02/13/25	1	8260B	[CALC]

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results
(Continued)

Sample: SB129 (5-7.5) (Continued)
ABB0709-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP									
Aluminum	6670	108	200	mg/kg Dry	02/10/25 11:25	02/14/25	20	6010B	BB01161
Antimony	3.79 J	0.610	5.00	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Arsenic	10.5	0.330	5.00	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Barium	73.2	0.530	2.50	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Beryllium	1.16	0.0290	0.300	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Cadmium	0.598	0.0300	0.250	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Calcium	57300	262	500	mg/kg Dry	02/10/25 11:25	02/14/25	20	6010B	BB01161
Chromium	220	1.74	5.00	mg/kg Dry	02/10/25 11:25	02/14/25	20	6010B	BB01161
Cobalt	6.01	0.0910	1.25	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Copper	33.3	1.10	5.00	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Iron	172000	1510	2500	mg/kg Dry	02/10/25 11:25	02/14/25	100	6010B	BB01161
Lead	45.1	0.210	1.25	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Magnesium	9630	63.5	125	mg/kg Dry	02/10/25 11:25	02/14/25	5	6010B	BB01161
Manganese	19300	55.0	75.0	mg/kg Dry	02/10/25 11:25	02/14/25	100	6010B	BB01161
Nickel	8.14	0.260	1.25	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Potassium	811	20.2	25.0	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Selenium	11.9 G, J	7.20	100	mg/kg Dry	02/10/25 11:25	02/14/25	20	6010B	BB01161
Silver	2.79	0.260	0.500	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Sodium	250	19.2	25.0	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Thallium	25.6	0.230	1.25	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Vanadium	125	0.190	1.25	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161
Zinc	124	1.20	5.00	mg/kg Dry	02/10/25 11:25	02/14/25	1	6010B	BB01161

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached									
Chromium	ND	0.00300	0.0250	mg/L	02/10/25 11:25	03/06/25	1	6010B	BB02319
Iron	ND	0.0520	0.250	mg/L	02/10/25 11:25	03/06/25	1	6010B	BB02319
Manganese	16.8	0.0395	0.125	mg/L	02/10/25 11:25	03/06/25	5	6010B	BB02319
Selenium	ND	0.00570	0.0250	mg/L	02/10/25 11:25	03/06/25	1	6010B	BB02319
Silver	ND	0.00210	0.0100	mg/L	02/10/25 11:25	03/06/25	1	6010B	BB02319
Thallium	0.0298 J	0.00340	0.100	mg/L	02/10/25 11:25	03/06/25	1	6010B	BB02319
Vanadium	0.0199 J	0.00120	0.0500	mg/L	02/10/25 11:25	03/06/25	1	6010B	BB02319

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - SPLP Leached									
Manganese	0.0491 J	0.0158	0.0500	mg/L	02/10/25 11:25	03/14/25	1	6010B	BB02882
Thallium	ND	0.00680	0.200	mg/L	02/10/25 11:25	03/14/25	1	6010B	BB02882

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results

(Continued)

Sample: SB29 (0-3)

ABB0709-05 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry - TCLP Leached									
Cyanide, Total	ND	0.053	0.060	mg/L	02/10/25 12:37	02/13/25	1	9014	BB01153

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results

(Continued)

Sample: SB29 (7.5-10)

ABB0709-06 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry - TCLP Leached									
Cyanide, Total	ND	0.053	0.060	mg/L	02/10/25 12:54	02/13/25	1	9014	BB01153

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results

(Continued)

Sample: SB130 (7-9)

ABB0709-07 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry - TCLP Leached									
Cyanide, Total	ND S,	0.053	0.060	mg/L	02/10/25 14:00	02/13/25	1	9014	BB01153

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

Sample Results

Data Analyzed by: First Environmental Laboratories Inc

Sample: SB128 (0-3)
ABB0709-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Reactive	See Attached				02/10/25 09:47			Other	[none]
Sulfide, Reactive	See Attached				02/10/25 09:47			Other	[none]

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/20/2025 14:53

8260 SRP Package

8260 SRP

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

METIRI
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134

CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Company Name: PIONEER
Company Address:
City: State: Zip:
Office: Mobile: Fax:
Email Address: JHARTSOCK@PIONEEREES.COM
Project ID / Location: 8050 S LAKE SHORE DR
Project Manager (Report to): JACOB HARTSOCK
Sample Collector(s): JM

TURNAROUND TIME REQUESTED
☐ Normal ☐ RUSH* 7 Day
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page 1 of
PO #
Report Type ☐ Normal ☐ Special
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method

LAB USE ONLY
Work Order #
Temperature of Received Samples: 51 °C
Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TCLP + pH	TCLP RCRA 8	TCLP CYANIDE	REACTIVITY	TCLP CYANIDE	TCLP MERCURY	Lab Comment	LAB #
1	SB128 (0-3)	2/10/25	947	SO		5	9oz 40M	NONE MeOH	X	X	X	X				
2	SB128 (7.5-10)	↓	959	↓		↓	↓	↓	X							
3	SB129 (0-3)	↓	1118	↓		↓	↓	↓	X							
4	SB129 (5-7.5)	↓	1125	↓		↓	↓	↓	X							
5	SB29 (0-3)	↓	1237	↓		1	9oz	NONE					X			
6	SB29 (7.5-10)	↓	1254	↓		1	9oz	↓					X			
7	SB130 (7-9)	↓	200	↓		1	9oz	↓					X			
8																
9																
10																
11																
12																

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

ABB0709
Pioneer Environmental Services LLC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
[signature]	2/11/25	[signature]	2/11				
Received By [signature] ☒ Ice	Time 10:10	Received By [signature] ☒ Ice	Time 12:30	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

SUBCONTRACT ORDER

Sending Laboratory:

Metiri Group - Geneva
1950 S Batavia Ave, Suite 150
Geneva, IL 60134
Phone: (800) 783-5227
Fax: (517) 699-0388

Project Manager: Daniel Galeher

Subcontracted Laboratory:

First Environmental Laboratories Inc
1600 Shore Rd
Naperville, IL 60563
Phone: (630) 778-1200
Fax:

Work Order: ABB0709

Analysis	Comments
Sample ID: ABB0709-01 ***Solid Sampled: 02/10/2025 09:47***	
SUB Sulfide Reactive	
SUB CN Reactive	
Containers Supplied:	
4oz Jar Wmouth (F)	

ABB0709
Pioneer Environmental Services LLC

Released By _____ Date _____

Received By _____ Date 2/11/25

First Environmental Laboratories, Inc

IL ELAP / NELAC Certification # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • FirstEnv.com

February 18, 2025

Mr. Daniel Galeher
METIRI GROUP
1950 S. Batavia Ave
Suite 150
Geneva, IL 60134

Project ID: ABB0709
First Environmental File ID: 25-1093
Date Received: February 11, 2025

Dear Mr. Daniel Galeher:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922025-14: effective 01/16/25 through 02/28/2026.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager

First Environmental Laboratories, Inc
IL ELAP / NELAC Certification # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • FirstEnv.com

Case Narrative

METIRI GROUP

Lab File ID: **25-1093**

Project ID: **ABB0709**

Date Received: **February 11, 2025**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
25-1093-001	ABB0709-01	2/10/2025 9:47

Sample Batch Comments:

Sample acceptance criteria were met.

First Environmental Laboratories, Inc

IL ELAP / NELAC Certification # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • FirstEnv.com

Case Narrative

METIRI GROUP

Lab File ID: **25-1093**

Project ID: **ABB0709**

Date Received: **February 11, 2025**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

First Environmental Laboratories, Inc

IL ELAP / NELAC Certification # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • FirstEnv.com

Analytical Report

Client:	METIRI GROUP	**Date Collected:**	02/10/25
Project ID:	ABB0709	**Time Collected:**	9:47
Sample ID:	ABB0709-01	**Date Received:**	02/11/25
Sample No:	25-1093-001	**Date Reported:**	02/18/25

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Sulfide, Reactive **Method: 7.3.4.2.**				
Analysis Date: 02/13/25				
Sulfide, Reactive	< 10	10	mg/kg	N
Cyanide, Reactive **Method: 7.3.3.2.**				
Analysis Date: 02/14/25				
Cyanide, Reactive	< 10	10	mg/kg	N

First Environmental Laboratories, Inc
IL ELAP / NELAC Certification # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • FirstEnv.com

Quality Control Summary

Client: METIRI GROUP **Lab File ID:** 25-1093

Project ID: ABB0709

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low High	RPD Limit
Parameter: Cyanide, Reactive		**Analytical Method:** 7.3.3.2.			**Analytical WS #:** 254673	**Analysis Date:** 2/14/2025	
25-1027-009MS	MS	Cyanide, Total	3.27	mg/kg	%R: 72 *	75 - 125	
		MS outside control limits. All other QCIs are within acceptance limits.					
25-1027-009MSD	MSD	Cyanide, Total	3.75	mg/kg	%R: 82	75 - 125	RPD: 14 20
CCB939232	CB	Cyanide, Total	< 0.005	mg/L	0	-	
CCB939233	CB	Cyanide, Total	< 0.005	mg/L	0	-	
CCB939234	CB	Cyanide, Total	< 0.005	mg/L	0	-	
CCVS939235	CCVS	Cyanide, Total	0.478	mg/L	%R: 95.6	90 - 110	
CCVS939236	CCVS	Cyanide, Total	0.485	mg/L	%R: 97	90 - 110	
CCVS939237	CCVS	Cyanide, Total	0.485	mg/L	%R: 97	90 - 110	
LCS939238	LCS	Cyanide, Total	0.453	mg/L	%R: 90.6	80 - 120	
PB939241	PB	Cyanide, Total	< 0.005	mg/L	0	-	

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

First Environmental Laboratories, Inc
IL ELAP / NELAC Certification # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • FirstEnv.com

Quality Control Summary

Client: METIRI GROUP **Lab File ID:** 25-1093

Project ID: ABB0709

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Parameter: Sulfide, Reactive		**Analytical Method:** 7.3.4.2.			**Analytical WS #:** 254620	**Analysis Date:** 2/17/2025		
25-1107-002MS	MS	Sulfide	119	mg/kg	%R: 119.3	75	125	
25-1107-002MSD	MSD	Sulfide	91	mg/kg	%R: 91.3	75	125	RPD: 27 * 20
		RPD outside control limits.						
CCB939375	CB	Sulfide	< 0.05	mg/L	0	-		
CCB939376	CB	Sulfide	< 0.05	mg/L	0	-		
CCB939377	CB	Sulfide	< 0.05	mg/L	0	-		
CCVS939378	CCVS	Sulfide	0.50	mg/L	%R: 100.6	90	110	
CCVS939379	CCVS	Sulfide	0.50	mg/L	%R: 100.2	90	110	
CCVS939380	CCVS	Sulfide	0.50	mg/L	%R: 99.8	90	110	
LCS939381	LCS	Sulfide	3.39	mg/L	%R: 67.8 *	80	120	
		LCS recovery outside control limits; low bias.						
PB939384	PB	Sulfide	< 0.05	mg/L	0	-		

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

SUBCONTRACT ORDER

Sending Laboratory:

Metiri Group - Geneva
1950 S Batavia Ave, Suite 150
Geneva, IL 60134
Phone: (800) 783-5227
Fax: (517) 699-0388

Project Manager: Daniel Galeher

Subcontracted Laboratory:

First Environmental Laboratories Inc
1600 Shore Rd
Naperville, IL 60563
Phone: (630) 778-1200
Fax:

Work Order: ABB0709

Analysis	Comments
Sample ID: ABB0709-01 ***Solid Sampled: 02/10/2025 09:47***	
SUB Sulfide Reactive SUB CN Reactive *Containers Supplied:* 4oz Jar Wmouth (F)	25-1093-001

Released By _____ Date _____

Received By 2i ice Date 2/11/25 1710

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

February 25, 2025

Pioneer Environmental Services LLC
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Dr
ABB0855

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/12/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Notes and Definitions

Item	Definition
S	Spike Recovery outside accepted recovery limits
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Analysis Case Narrative

8015 TPH:
Sample ABB0855-02: S = The MS and MSD performed on this sample had DRO recoveries (46%, 43%) outside the acceptance range (70-130%), possibley due to interfering peaks in the DRO area in the native sample.

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB0855-01	SB21 F (10-15)	Solid	02/11/2025 08:46	02/12/2025
ABB0855-02	SB21 F (15-17.5)	Solid	02/11/2025 09:00	02/12/2025
ABB0855-03	SB21 G (10-15)	Solid	02/11/2025 10:01	02/12/2025
ABB0855-04	SB21 G (15-17.5)	Solid	02/11/2025 10:16	02/12/2025
ABB0855-05	SB21 H (10-15)	Solid	02/11/2025 11:58	02/12/2025
ABB0855-06	SB21 H (15-17.5)	Solid	02/11/2025 12:12	02/12/2025
ABB0855-07	SB21 i (10-15)	Solid	02/11/2025 13:00	02/12/2025
ABB0855-08	SB21 i (15-17.5)	Solid	02/11/2025 13:15	02/12/2025
ABB0855-09	SB118 A (10-15)	Solid	02/11/2025 14:01	02/12/2025
ABB0855-10	SB118 A (15-17.5)	Solid	02/11/2025 14:13	02/12/2025
ABB0855-11	SB118 B (10-15)	Solid	02/11/2025 15:00	02/12/2025
ABB0855-12	SB118 B (15-17.5)	Solid	02/11/2025 15:14	02/12/2025

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Sample Results

Sample: SB21 F (10-15)

ABB0855-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	18000	150	200	mg/kg	02/11/25 08:46	02/17/25	10	SW8015M	BB01138
TPH-ERO (Extended Range Organics)	32000	490	600	mg/kg	02/11/25 08:46	02/17/25	10	SW8015M	BB01138
TPH-GRO (Gasoline Range Organics)	180	20	20	mg/kg	02/11/25 08:46	02/14/25	1	SW8015M	BB01138

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Sample Results

(Continued)

Sample: SB21 F (15-17.5)

ABB0855-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	570 S	15	20	mg/kg	02/11/25 09:00	02/14/25	1	SW8015M	BB01138
TPH-ERO (Extended Range Organics)	1700	49	60	mg/kg	02/11/25 09:00	02/14/25	1	SW8015M	BB01138
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/11/25 09:00	02/14/25	1	SW8015M	BB01138

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Sample Results

(Continued)

Sample: SB21 G (10-15)

ABB0855-03 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	100	15	20	mg/kg	02/11/25 10:01	02/14/25	1	SW8015M	BB01138
TPH-ERO (Extended Range Organics)	560	49	60	mg/kg	02/11/25 10:01	02/14/25	1	SW8015M	BB01138
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/11/25 10:01	02/14/25	1	SW8015M	BB01138

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Sample Results

(Continued)

Sample: SB21 G (15-17.5)

ABB0855-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	76	15	20	mg/kg	02/11/25 10:16	02/14/25	1	SW8015M	BB01138
TPH-ERO (Extended Range Organics)	550	49	60	mg/kg	02/11/25 10:16	02/14/25	1	SW8015M	BB01138
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/11/25 10:16	02/14/25	1	SW8015M	BB01138

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Sample Results

(Continued)

Sample: SB21 H (10-15)

ABB0855-05 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	7400	150	200	mg/kg	02/11/25 11:58	02/17/25	10	SW8015M	BB01138
TPH-ERO (Extended Range Organics)	30000	490	600	mg/kg	02/11/25 11:58	02/17/25	10	SW8015M	BB01138
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/11/25 11:58	02/14/25	1	SW8015M	BB01138

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Sample Results

(Continued)

Sample: SB21 H (15-17.5)

ABB0855-06 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	270	15	20	mg/kg	02/11/25 12:12	02/14/25	1	SW8015M	BB01138
TPH-ERO (Extended Range Organics)	3900	49	60	mg/kg	02/11/25 12:12	02/14/25	1	SW8015M	BB01138
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/11/25 12:12	02/14/25	1	SW8015M	BB01138

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Sample Results

(Continued)

Sample: SB21 i (10-15)

ABB0855-07 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	12000	150	200	mg/kg	02/11/25 13:00	02/17/25	10	SW8015M	BB01138
TPH-ERO (Extended Range Organics)	24000	490	600	mg/kg	02/11/25 13:00	02/17/25	10	SW8015M	BB01138
TPH-GRO (Gasoline Range Organics)	43	20	20	mg/kg	02/11/25 13:00	02/15/25	1	SW8015M	BB01138

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Sample Results

(Continued)

Sample: SB21 i (15-17.5)

ABB0855-08 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	500	15	20	mg/kg	02/11/25 13:15	02/15/25	1	SW8015M	BB01138
TPH-ERO (Extended Range Organics)	3200	49	60	mg/kg	02/11/25 13:15	02/15/25	1	SW8015M	BB01138
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/11/25 13:15	02/15/25	1	SW8015M	BB01138

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Sample Results

(Continued)

Sample: SB118 A (10-15)

ABB0855-09 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	220	15	20	mg/kg	02/11/25 14:01	02/15/25	1	SW8015M	BB01138
TPH-ERO (Extended Range Organics)	1000	49	60	mg/kg	02/11/25 14:01	02/15/25	1	SW8015M	BB01138
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/11/25 14:01	02/15/25	1	SW8015M	BB01138

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Sample Results

(Continued)

Sample: SB118 A (15-17.5)

ABB0855-10 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	140	15	20	mg/kg	02/11/25 14:13	02/15/25	1	SW8015M	BB01138
TPH-ERO (Extended Range Organics)	850	49	60	mg/kg	02/11/25 14:13	02/15/25	1	SW8015M	BB01138
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/11/25 14:13	02/15/25	1	SW8015M	BB01138

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2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Sample Results

(Continued)

Sample: SB118 B (10-15)

ABB0855-11 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	130	15	20	mg/kg	02/11/25 15:00	02/15/25	1	SW8015M	BB01138
TPH-ERO (Extended Range Organics)	520	49	60	mg/kg	02/11/25 15:00	02/15/25	1	SW8015M	BB01138
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/11/25 15:00	02/15/25	1	SW8015M	BB01138

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:33

Sample Results

(Continued)

Sample: SB118 B (15-17.5)

ABB0855-12 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	91	15	20	mg/kg	02/11/25 15:14	02/15/25	1	SW8015M	BB01138
TPH-ERO (Extended Range Organics)	610	49	60	mg/kg	02/11/25 15:14	02/15/25	1	SW8015M	BB01138
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/11/25 15:14	02/15/25	1	SW8015M	BB01138

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METIRI

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134

CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Page 1 of 1

Company Name: PIONEER

Company Address:

City: State: Zip:

Office: Mobile: Fax:

Email Address: JHARTSOCK@PIONEERES.COM

Project ID / Location: 8080 S LAKE SHORE DR

Project Manager (Report to): JAKE HARTSOCK

Sample Collector(s): VLM

TURNAROUND TIME REQUESTED

☐ Normal ☑ 7 DAY ☐ RUSH*

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

TPH

Report Type: ☐ Normal ☐ Specify

* Additional charges apply for QC reports and raw data. Specify in comments section

PO #:

Shipping Method:

LAB USE ONLY

Work Order #:

Temperature of Received Samples: 2 °C

Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	Lab Comment	LAB #
1	SB21f (10-15'	2/11/25	846	SO		1	4oz	NONE		
2	SB21f (15-17.5'		900							
3	SB21g (10-15'		1001							
4	SB21g (15-17.5'		1016							
5	SB21h (10-15'		1158							
6	SB21h (15-17.5'		1212							
7	SB21i (10-15'		100							
8	SB21i (15-17.5'		115							
9	SB118A (10-15'		201							
10	SB118A (15-17.5'		213							
11	SB118B (10-15'		300							
12	SB118B (15-17.5'		314							

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

ABB0855

Pioneer Environmental Services LLC SB

TOLS

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
Received By ☐ Ice	Time 11:00	Received By ☑ Ice	Time 13:00	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

February 25, 2025

Pioneer Environmental Services LLC
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Dr
ABB0886

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/13/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 16:33

Notes and Definitions

Item	Definition
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 16:33

Analysis Case Narrative

8015 TPH:

Sample ABB0886-01: S=The MS and/or tihe MSD percenti recoveries for DRO, ERO and GRO were outiside laboratiory contirol limitis due tio tihe high concentiration of tihese tiargetis found in tihe parenti sample

Sample ABB0886-01: R=The MS & MSD Precision for tihe following analyties were greatier tihan laboratiory contirol limitis

DRO; 35% (Limiti: 20%)
ERO; 35% (Limiti: 20%)

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB0886-01	SB118c (10-15)	Solid	02/12/2025 08:58	02/13/2025
ABB0886-02	SB118c (15-17.5)	Solid	02/12/2025 09:16	02/13/2025
ABB0886-03	SB118d (7.5-10)	Solid	02/12/2025 10:45	02/13/2025
ABB0886-04	SB118d (10-15)	Solid	02/12/2025 10:54	02/13/2025
ABB0886-05	SB118d (15-17.5)	Solid	02/12/2025 11:02	02/13/2025
ABB0886-06	SB70f (10-15)	Solid	02/12/2025 13:27	02/13/2025
ABB0886-07	SB70f (15-17.5)	Solid	02/12/2025 12:50	02/13/2025
ABB0886-08	SB70g (10-15)	Solid	02/12/2025 15:00	02/13/2025
ABB0886-09	SB70g (15-17.5)	Solid	02/12/2025 15:27	02/13/2025
ABB0886-10	SB70g (17.5-20)	Solid	02/12/2025 15:33	02/13/2025

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2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 16:33

Sample Results

Sample: SB118c (10-15)
ABB0886-01 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550										
TPH-DRO (Diesel Range Organics)	16000	R, S	150	200	mg/kg	02/12/25 08:58	02/17/25	10	SW8015M	BB01248
TPH-ERO (Extended Range Organics)	31000	R, S	490	600	mg/kg	02/12/25 08:58	02/17/25	10	SW8015M	BB01248
TPH-GRO (Gasoline Range Organics)	ND	S,	200	200	mg/kg	02/12/25 08:58	02/17/25	10	SW8015M	BB01248

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2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 16:33

Sample Results

(Continued)

Sample: SB118c (15-17.5)

ABB0886-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	110	15	20	mg/kg	02/12/25 09:16	02/17/25	1	SW8015M	BB01248
TPH-ERO (Extended Range Organics)	470	49	60	mg/kg	02/12/25 09:16	02/17/25	1	SW8015M	BB01248
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/12/25 09:16	02/17/25	1	SW8015M	BB01248

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2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 16:33

Sample Results

(Continued)

Sample: SB118d (7.5-10)

ABB0886-03 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	23000	150	200	mg/kg	02/12/25 10:45	02/17/25	10	SW8015M	BB01248
TPH-ERO (Extended Range Organics)	38000	490	600	mg/kg	02/12/25 10:45	02/17/25	10	SW8015M	BB01248
TPH-GRO (Gasoline Range Organics)	ND	200	200	mg/kg	02/12/25 10:45	02/17/25	10	SW8015M	BB01248

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 16:33

Sample Results

(Continued)

Sample: SB118d (10-15)

ABB0886-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	5500	76	100	mg/kg	02/12/25 10:54	02/18/25	5	SW8015M	BB01248
TPH-ERO (Extended Range Organics)	9900	250	300	mg/kg	02/12/25 10:54	02/18/25	5	SW8015M	BB01248
TPH-GRO (Gasoline Range Organics)	33	20	20	mg/kg	02/12/25 10:54	02/17/25	1	SW8015M	BB01248

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 16:33

Sample Results

(Continued)

Sample: SB118d (15-17.5)

ABB0886-05 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	230	15	20	mg/kg	02/12/25 11:02	02/17/25	1	SW8015M	BB01248
TPH-ERO (Extended Range Organics)	1000	49	60	mg/kg	02/12/25 11:02	02/17/25	1	SW8015M	BB01248
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/12/25 11:02	02/17/25	1	SW8015M	BB01248

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 16:33

Sample Results

(Continued)

Sample: SB70f (10-15)

ABB0886-06 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	9000	150	200	mg/kg	02/12/25 13:27	02/17/25	10	SW8015M	BB01248
TPH-ERO (Extended Range Organics)	21000	490	600	mg/kg	02/12/25 13:27	02/17/25	10	SW8015M	BB01248
TPH-GRO (Gasoline Range Organics)	ND	200	200	mg/kg	02/12/25 13:27	02/17/25	10	SW8015M	BB01248

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 16:33

Sample Results

(Continued)

Sample: SB70f (15-17.5)

ABB0886-07 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	150	15	20	mg/kg	02/12/25 12:50	02/18/25	1	SW8015M	BB01248
TPH-ERO (Extended Range Organics)	570	49	60	mg/kg	02/12/25 12:50	02/18/25	1	SW8015M	BB01248
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/12/25 12:50	02/18/25	1	SW8015M	BB01248

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 16:33

Sample Results

(Continued)

Sample: SB70g (10-15)

ABB0886-08 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	15000	150	200	mg/kg	02/12/25 15:00	02/18/25	10	SW8015M	BB01248
TPH-ERO (Extended Range Organics)	10000	490	600	mg/kg	02/12/25 15:00	02/18/25	10	SW8015M	BB01248
TPH-GRO (Gasoline Range Organics)	420	20	20	mg/kg	02/12/25 15:00	02/18/25	1	SW8015M	BB01248

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 16:33

Sample Results

(Continued)

Sample: SB70g (15-17.5)

ABB0886-09 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	2400	15	20	mg/kg	02/12/25 15:27	02/18/25	1	SW8015M	BB01248
TPH-ERO (Extended Range Organics)	2400	49	60	mg/kg	02/12/25 15:27	02/18/25	1	SW8015M	BB01248
TPH-GRO (Gasoline Range Organics)	70	20	20	mg/kg	02/12/25 15:27	02/18/25	1	SW8015M	BB01248

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 16:33

Sample Results

(Continued)

Sample: SB70g (17.5-20)

ABB0886-10 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	150	15	20	mg/kg	02/12/25 15:33	02/18/25	1	SW8015M	BB01248
TPH-ERO (Extended Range Organics)	470	49	60	mg/kg	02/12/25 15:33	02/18/25	1	SW8015M	BB01248
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/12/25 15:33	02/18/25	1	SW8015M	BB01248

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

METIRI

1950 S. Batavia Ave, Suite 150, Geneva, IL 60134
Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

Company Name: PIONEER

Company Address

City State Zip

Office Mobile Fax

Email Address: JHARTSOCK@PIONEERES.COM

Project ID / Location: 8080 S LAKE SHORE DR

Project Manager (Report to): JAKE HARTSOCK

Sample Collector(s): JM

TURNAROUND TIME REQUESTED

☐ Normal ☑ RUSH* 1 DAY

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

TPH

PO #

Report Type ☐ Normal ☐ Special

* Additional charges apply for QC reports and raw data. Specify in comments section

Shipping Method

LAB USE ONLY

Work Order #

Temperature of Received Samples: 2 °C

Received within 24 hours of collection? ☒ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TPH	Lab Comment	LAB #
1	SB1180 (10-15)	2/12/25	858	SO		1	4oz	NONE	X		
2	SB1180 (15-17.5)		916						X		
3	SB1180 (7.5-10)		1045						X		
4	SB1180 (10-15)		1054						X		
5	SB1180 (15-17.5)		1102						X		
6	SB70E (10-15)		127						X		
7	SB70E (15-17.5)		150						X		
8	SB70E (10-15)		300						X		
9	SB70E (15-17.5)		327						X		
10	SB70E (17.5-20)		333						X		
11											
12											

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECI

ABB0886

Pioneer Environmental Services LLC

TOLLS

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/13/25		2/13/25				
Received By ☐ Ice	Time 9:34	Received By ☐ Ice	Time 12:25	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

sterling labs - O'Hare Location

509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

March 18, 2025

Pioneer Engineering & Environmental Services, Inc.
2753 W. 31st St.
Chicago, IL 60608

Telephone: 773.797.2053
Fax:

Analytical Report for Work Order: O25B0542 Revision 2

RE: 8080 S Lake Shore Dr

Dear Pioneer Engineering & Environmental Services, Inc.:

Sterling Labs has received 3 samples for the referenced project on February 14, 2025 16:15. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Pat 186 / TNI standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (847) 967-6666.

Sincerely,

Melissa Dunham

Melissa Dunham
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. Sterling Labs is not responsible for customer provided information found in the report that is used to calculate final results. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, Sterling Labs will be under no obligation to support, defend or dicuss the analytical report

sterling labs - O'Hare Location

509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

Customer: Pioneer Engineering & Environmental Services, Inc.

Proiect: 8080 S Lake Shore Dr

Work Order Sample Summary

WorkOrder: O25B0542

Laboratory ID	Sample ID	Tag Number	Collection Date	Date Received
O25B0542-01	SG-1		02/13/25 13:11	02/14/25 16:15
O25B0542-02	SB12 (0-3)		02/13/25 10:45	02/14/25 16:15
O25B0542-03	SB13 (0-3)		02/13/25 10:45	02/14/25 16:15

sterling labs - O'Hare Location
509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

Customer: Pioneer Engineering & Environmental Services, Inc.

Project: 8080 S Lake Shore Dr

Case Narrative

WorkOrder: O25B0542

Work Order: O25B0542
The samples were received on 2/14/2025 4:15:00 PM. The temperature of the cooler(s) at receipt was:

Cooler:	Temp C
Default Cooler	3.1

The samples were received in good condition and were properly preserved.

R1: Updated results due to TO-15 recalculation

R2: Includes subcontracted mercury speciation results.

The mercury Matrix Spike (MS) prepared from sample SB12 (0-3) (025B0542-02) had recovery outside control limits; (129% MS recovery, QC limits 75%-125)

sterling labs - O'Hare Location
509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

Date Reported: 3/18/2025
Date Printed: 3/18/2025

Analytical Results

Customer: Pioneer Engineering & Environmental Services, Inc.
Work Order: O25B0542
Project: 8080 S Lake Shore Dr

Client Sample ID: SG-1
Collection Date: 02/13/2025 13:11
Matrix: Air

Lab ID: O25B0542-01

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Volatile Organic Compounds by GC/MS **TO-15 / TO-15 Prep**					Prep Date:		**02/18/25 05:11**	Analyst: **KV1**	
ILEPA 100256									
4-Bromofluorobenzene	ND				ppbv	2	02/19/2025	B25B1222	S25B0746
Carbon tetrachloride	**0.0552**	0.00352	0.000626		mg/m3	2	02/19/2025	B25B1222	S25B0746

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Date Reported: 3/18/2025
Date Printed: 3/18/2025

Analytical Results

Customer: Pioneer Engineering & Environmental Services, Inc.
Work Order: O25B0542
Project: 8080 S Lake Shore Dr

Client Sample ID: SB12 (0-3)
Collection Date: 02/13/2025 10:45
Matrix: Soil

Lab ID: O25B0542-02

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Mercury by CVAA		**SW7470A / SW1311**			Prep Date:		**02/20/25 12:33**	Analyst: **GS1**	
ILEPA 100256									
Mercury TCLP	ND	0.00040	0.00013		mg/L	1	02/20/2025	B25B1113	S25B0681
Mercury by CVAA		**SW7471B**			Prep Date:		**02/20/25 07:48**	Analyst: **UJ1**	
ILEPA 100256									
Mercury	**0.771**	0.296	0.0889		mg/Kg dry	5	02/20/2025	B25B1061	S25B0654
Wet Chemistry		**SM2540G**			Prep Date:		**02/20/25 10:55**	Analyst: **AS8**	
Total Solids	**84.0**	0.100	0.0240	*	% (Percent)	1	02/21/2025	B25B1093	

sterling labs - O'Hare Location
509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

Date Reported: 3/18/2025
Date Printed: 3/18/2025

Analytical Results

Customer: Pioneer Engineering & Environmental Services, Inc.
Work Order: O25B0542
Project: 8080 S Lake Shore Dr

Client Sample ID: SB13 (0-3)
Collection Date: 02/13/2025 10:45
Matrix: Soil

Lab ID: O25B0542-03

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Mercury by CVAA		**SW7470A / SW1311**			Prep Date:		**02/20/25 12:33**	Analyst: **GS1**	
ILEPA 100256									
Mercury TCLP	ND	0.00040	0.00013		mg/L	1	02/20/2025	B25B1113	S25B0681
Mercury by CVAA		**SW7471B**			Prep Date:		**02/20/25 07:48**	Analyst: **UJ1**	
ILEPA 100256									
Mercury	**0.146**	0.0551	0.0165		mg/Kg dry	1	02/20/2025	B25B1061	S25B0654
Wet Chemistry		**SM2540G**			Prep Date:		**02/20/25 10:55**	Analyst: **AS8**	
Total Solids	**80.5**	0.100	0.0240	*	% (Percent)	1	02/21/2025	B25B1093	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated method blank
HT - Sample received past holding time
J1 - Estimated result based on MS/MSD results
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
P - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded
Q - Quality control issue. Please see case narrative

sterling labs
509 N. 3rd Ave., Des Plaines, IL 60016 Phone: (800) 246-0663
2242 W. Harrison St., Suite 200, Chicago, IL 60612 Phone: (312) 733-0551
info@thesterlinglab.com

CHAIN OF CUSTODY RECORD

O25B0542
PM:Melissa Dunham
Pioneer Engineering & Environmental Se

Company: PIONEER
Project Number: Client Tracking No.:
Project Name:
Project Location: 8080 S LAKE SHORE Dr
Sampler(s): JIM
Report To: JHARTSOCK@PIONEERES.COM Phone:
Fax:
QC Level: 1 2 3 4 e-mail:

Quote No.:
Turn Around Time (Days): 1 2 3 4 5-7 10
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	MERCURY SPECIATION	TOTAL MERCURY	X CARBON TETRACHLORIDE	Remarks	Lab No.:
SG-1	2/13/25	111	AIR			A	1			X		01A
SB12(0-3)		1045	SO				2	X	X			02A-B
SB13(0-3)		1125	SO				2	X	X			03A-B

Relinquished by: (Signature) Date/Time: 2/14/25
Received by: (Signature) Date/Time: 2/14/25
Relinquished by: (Signature) Date/Time: 2/14/25 16:15
Received by: (Signature) Date/Time: 2/14/25 16:15
Relinquished by: (Signature) Date/Time:
Received by: (Signature) Date/Time:

Comments: 10:21 AM

Preservation Code: A = None B = HNO_3 C = NaOH D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: O25B0542

Received on Ice: Yes ☑ No ☐
Temperature: 3.1 °C

Sample Receipt Checklist

Work Order: O25B0542

Printed: 2/14/2025 6:53:43PM

Client: Pioneer Engineering & Environmental Ser
Project: Pioneer General Analysis

Date Due: Monday, March 3, 2025

Received By: Lucas Demari
Logged In By: Lucas Demari

Date Received: 2/14/2025 4:15:00PM
Date Logged In: 2/14/2025 6:32:00PM

Cooler Name: Default Cooler

How were samples received: Courier

Cooler temperature at of below 6 degrees Celsius: Yes

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: No

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: No

Volatile water vials received: No

Sample Receipt Comments

Work Order: O25B0542

The samples were received on 2/14/2025 4:15:00 PM. The temperature of the cooler(s) at receipt was:

Cooler:	Temp C
Default Cooler	3.1

The samples were received in good condition and were properly preserved.

Samples going out of hold time within 24 hours:

Routine TAT has been entered ✓

PM Communicate TAT has been entered _____

LD

Reviewed By:

02/14/25

Date:

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Dunham
Sterling Labs
509 N. 3rd Avenue
Des Plaines, Illinois 60016

Generated 3/17/2025 3:33:19 PM

JOB DESCRIPTION

O25B0542

JOB NUMBER

500-264650-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/17/2025 3:33:19 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job Narrative
500-264650-1

Receipt
The samples were received on 3/1/2025 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Sterling Labs
Project/Site: O25B0542

Job ID: 500-264650-1

Client Sample ID: 025B0542-02 — Lab Sample ID: 500-264650-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Elemental Mercury	83		10		ng/g	100		1631B	Total/NA

Client Sample ID: 025B0542-03 — Lab Sample ID: 500-264650-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Sterling Labs
Project/Site: O25B0542

Job ID: 500-264650-1

Method	Method Description	Protocol	Laboratory
1631B	Mercury, Low Level (CVAFS)	EPA	EET SSM
Moisture - 2540	Percent Moisture	SM	EET SSM
30B	Preparation, Mercury (Carbon Sorbent Traps)	EPA	EET SSM
PEG Prep	Purge and Trap	EPA	EET SSM

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Sterling Labs
Project/Site: O25B0542

Job ID: 500-264650-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-264650-1	025B0542-02	Solid	02/13/25 10:45	03/01/25 11:00
500-264650-2	025B0542-03	Solid	02/13/25 10:45	03/01/25 11:00

Client Sample Results

Client: Sterling Labs
Project/Site: O25B0542

Job ID: 500-264650-1

Client Sample ID: 025B0542-02
Date Collected: 02/13/25 10:45
Date Received: 03/01/25 11:00

Lab Sample ID: 500-264650-1
Matrix: Solid

Method: EPA 1631B - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Elemental Mercury	83		10		ng/g		03/12/25 11:18	03/13/25 16:24	100

Client Sample Results

Client: Sterling Labs
Project/Site: O25B0542

Job ID: 500-264650-1

Client Sample ID: 025B0542-03
Date Collected: 02/13/25 10:45
Date Received: 03/01/25 11:00

Lab Sample ID: 500-264650-2
Matrix: Solid

Method: EPA 1631B - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Elemental Mercury	ND		10		ng/g		03/12/25 11:18	03/13/25 16:15	100

Definitions/Glossary

Client: Sterling Labs
Project/Site: O25B0542

Job ID: 500-264650-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Sterling Labs
Project/Site: O25B0542

Job ID: 500-264650-1

Metals

Prep Batch: 5500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-264650-1	025B0542-02	Total/NA	Solid	PEG Prep	
500-264650-2	025B0542-03	Total/NA	Solid	PEG Prep	
MB 350-5500/1-B	Method Blank	Total/NA	Solid	PEG Prep	
MB 350-5500/2-B	Method Blank	Total/NA	Solid	PEG Prep	
MB 350-5500/3-B	Method Blank	Total/NA	Solid	PEG Prep	
500-264650-2 DU	025B0542-03	Total/NA	Solid	PEG Prep	

Prep Batch: 5515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-264650-1	025B0542-02	Total/NA	Solid	30B	5500
500-264650-2	025B0542-03	Total/NA	Solid	30B	5500
MB 350-5500/1-B	Method Blank	Total/NA	Solid	30B	5500
MB 350-5500/2-B	Method Blank	Total/NA	Solid	30B	5500
MB 350-5500/3-B	Method Blank	Total/NA	Solid	30B	5500
500-264650-2 DU	025B0542-03	Total/NA	Solid	30B	5500

Analysis Batch: 5565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-264650-1	025B0542-02	Total/NA	Solid	1631B	5515
500-264650-2	025B0542-03	Total/NA	Solid	1631B	5515
MB 350-5500/1-B	Method Blank	Total/NA	Solid	1631B	5515
MB 350-5500/2-B	Method Blank	Total/NA	Solid	1631B	5515
MB 350-5500/3-B	Method Blank	Total/NA	Solid	1631B	5515
500-264650-2 DU	025B0542-03	Total/NA	Solid	1631B	5515

General Chemistry

Analysis Batch: 5484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-264650-1	025B0542-02	Total/NA	Solid	Moisture - 2540	
500-264650-2	025B0542-03	Total/NA	Solid	Moisture - 2540	

Method: 1631B - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-5500/1-B
Matrix: Solid
Analysis Batch: 5565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Elemental Mercury	ND		10		ng/g		03/12/25 11:18	03/13/25 16:03	100

Lab Sample ID: MB 350-5500/2-B
Matrix: Solid
Analysis Batch: 5565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Elemental Mercury	ND		10		ng/g		03/12/25 11:18	03/13/25 16:07	100

Lab Sample ID: MB 350-5500/3-B
Matrix: Solid
Analysis Batch: 5565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Elemental Mercury	ND		10		ng/g		03/12/25 11:18	03/13/25 16:11	100

Lab Sample ID: 500-264650-2 DU
Matrix: Solid
Analysis Batch: 5565

Client Sample ID: 025B0542-03
Prep Type: Total/NA
Prep Batch: 5500

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Elemental Mercury	ND			ND		ng/g				NC	24

Lab Chronicle

Client: Sterling Labs
Project/Site: O25B0542

Job ID: 500-264650-1

Client Sample ID: 025B0542-02
Date Collected: 02/13/25 10:45
Date Received: 03/01/25 11:00

Lab Sample ID: 500-264650-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PEG Prep			5500	AJD	EET SSM	03/12/25 11:18
Total/NA	Prep	30B			5515	AJD	EET SSM	03/12/25 14:34
Total/NA	Analysis	1631B		100	5565	CL	EET SSM	03/13/25 16:24
Total/NA	Analysis	Moisture - 2540		1	5484	AJD	EET SSM	03/11/25 14:45

Client Sample ID: 025B0542-03
Date Collected: 02/13/25 10:45
Date Received: 03/01/25 11:00

Lab Sample ID: 500-264650-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PEG Prep			5500	AJD	EET SSM	03/12/25 11:18
Total/NA	Prep	30B			5515	AJD	EET SSM	03/12/25 14:34
Total/NA	Analysis	1631B		100	5565	CL	EET SSM	03/13/25 16:15
Total/NA	Analysis	Moisture - 2540		1	5484	AJD	EET SSM	03/11/25 14:45

Laboratory References:

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Sterling Labs
Project/Site: O25B0542

Job ID: 500-264650-1

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-27
ANAB	Dept. of Defense ELAP	L2236	01-19-27
ANAB	Dept. of Energy	L2236.01	01-19-27
ANAB	ISO/IEC 17025	L2236	01-19-27
California	State	2954	07-07-25
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
Maine	State	WA01273	05-02-26
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	07-31-25

SUBCONTRACT ORDER

Sterling Labs

O25B0542

500-264650

SENDING LABORATORY:

Sterling Labs
509 N. Third Avenue
Des Plaines, IL 60016
Phone: 847-967-6666
Fax 847.967 6735
Project Manager Melissa Dunham
MDunham@ThesterlingLab.com

500-264650 COC

RECEIVING LABORATORY:

Eurofins, Chicago, IL, Subcontract
18410 Crossing Drive, Suite E
Tinely Park, IL 60487
Phone ·(708) 534-5200

1 **SB12 (0-3)**

Sample ID: O25B0542-02 **Solid** **Sampled: 2/13/2025 10:45:00AM** **Comments:**

Subcontract Analysis	Due 2/24/2025	Exp 8/12/2025	Comments Mercury Speciation, PO# 2528163

-

Containers Supplied
4 oz glass (A)

2 **SB13 (0-3)**

Sample ID: O25B0542-03 **Solid** **Sampled: 2/13/2025 10:45:00AM** **Comments:**

Subcontract Analysis	Due 2/24/2025	Exp 8/12/2025	Comments Mercury speciation, PO# 2528163

-

Containers Supplied
4 oz glass (A)

1500 2.28.25 2.3 → 2.2

Released By	Date	Received By	Date
[signature]	2.28.25	[signature]	3/1/25 1100

Page 1 of 1

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park, IL 60487
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Knapp, Jim D	Carrier Tracking No(s): N/A	COC No: 500-198930.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jim.Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): N/A		Job #: 500-264650-1
Address: 5755 8th Street East, ,	Due Date Requested: 3/17/2025			Preservation Codes: -
City: Tacoma	TAT Requested (days): N/A			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Mercury Speciation	Project #: 50024536			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631B/PEG_Bulk_Prep Mercury, Elemental	MOISTURE_2540G	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
025B0542-02 (500-264650-1)	2/13/25	10:45 Central	G	Solid			X	X	1	
025B0542-03 (500-264650-2)	2/13/25	10:45 Central	G	Solid			X	X	1	

Med Blue

Therm. ID: SC03 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.1 / 0.2 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 2 Packing: B

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded unc... accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditati... immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed* 4468 9403 9947	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 3/3/25 1000	Company	Received by:	Date/Time: 3/4/25 10:30	Company BETN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Sterling Labs

Job Number: 500-264650-1

Login Number: 264650
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Sterling Labs

Job Number: 500-264650-1

Login Number: 264650
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 03/04/25 02:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

February 25, 2025

Pioneer Environmental Services LLC
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lakeshore Drive
ABB0976

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/14/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lakeshore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:31

Notes and Definitions

Item	Definition
B	Analyte detected in the associated Method Blank
J	Analyte detected below quantitation limit (QL)
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lakeshore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:31

Analysis Case Narrative

TCLP:
Sample ABB0976-02: B=The method blank contained Lead at 0.0184 mg/L. (MDL is 0.00130 mg/L).

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB0976-01	SB134 (7.5-10)	Solid	02/13/2025 09:04	02/14/2025
ABB0976-02	SB135 (0-3)	Solid	02/13/2025 09:49	02/14/2025
ABB0976-03	SB136 (5-7.5)	Solid	02/13/2025 13:49	02/14/2025
ABB0976-04	SB137 (5-7.5)	Solid	02/13/2025 15:03	02/14/2025

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lakeshore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:31

Sample Results

Sample: SB134 (7.5-10)

ABB0976-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA - TCLP Leached									
Mercury	ND	0.0000860	0.000500	mg/L	02/13/25 09:04	02/19/25	1	7470A	BB01317

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lakeshore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:31

Sample Results

(Continued)

Sample: SB135 (0-3)

ABB0976-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - TCLP Leached									
Lead	0.00252 B, J	0.00130	0.0250	mg/L	02/13/25 09:49	02/18/25	1	6010B	BB01308

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lakeshore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:31

Sample Results

(Continued)

Sample: SB136 (5-7.5)

ABB0976-03 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	88	15	20	mg/kg	02/13/25 13:49	02/18/25	1	SW8015M	BB01248
TPH-ERO (Extended Range Organics)	270	49	60	mg/kg	02/13/25 13:49	02/18/25	1	SW8015M	BB01248
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/13/25 13:49	02/18/25	1	SW8015M	BB01248

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lakeshore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/25/2025 17:31

Sample Results

(Continued)

Sample: SB137 (5-7.5)

ABB0976-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	57	15	20	mg/kg	02/13/25 15:03	02/18/25	1	SW8015M	BB01248
TPH-ERO (Extended Range Organics)	180	49	60	mg/kg	02/13/25 15:03	02/18/25	1	SW8015M	BB01248
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/13/25 15:03	02/18/25	1	SW8015M	BB01248

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

METIRI
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134
Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

Company Name: PIONEER
Company Address:
City: State: Zip:
Office: Mobile: Fax:
Email Address: JHARTSOCK@PIONEERES.COM
Project ID / Location: 8080 S LAKESHORE DR
Project Manager (Report to): JACOB HARTSOCK
Sample Collector(s): VIM

TURNAROUND TIME REQUESTED
☐ Normal ☐ RUSH* 7 Day
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

PO #:
Report Type: ☐ Normal ☐ Specia
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method:

LAB USE ONLY
Work Order #:
Temperature of Received Samples: 2 °C
Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TCLP MERCURY	TCLP LEAD	TPH	Lab Comment	LAB #
1	SB134 (7.5-10)	2/13/25	904	SO		1	9oz	NONE	X				
2	SB135 (0-3)		949							X			
3	SB136 (5-7.5)		1149				4oz				X		
4	SB137 (5-7.5)		303										
5													
10													
11													
12													

ABB0976

SB

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

TOTAL

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/14/25		2-14-25				
Received By ☐ Ice	Time 9:10	Received By ☑ Ice	Time 11:40	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

METIRI

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134

CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Company Name: PIONEER

Company Address:

City: State: Zip:

Office: Mobile: Fax:

Email Address: JHARTSOCK@PIONEERES.COM

Project ID / Location: 8080 S LAKESHORE DR

Project Manager (Report to): JACOB HARTSOCK

Sample Collector(s): VJM

TURNAROUND TIME REQUESTED

☐ Normal ☐ RUSH* 7 Day

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

TCLP MERCURY
TCLP LEAD
TPH

Page 1 of 1

PO #

Report Type ☐ Normal ☐ Special

* Additional charges apply for QC reports and raw data. Specify in comments section

Shipping Method

LAB USE ONLY

Work Order #

Temperature of Received Samples: 2 °C

Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TCLP MERCURY	TCLP LEAD	TPH	Lab Comment	LAB #
1	SB134 (7.5-10)	2/13/25	904	SO		1	9oz	NONE	X				
2	SB135 (0-3)		949							X			
3	SB136 (5-7.5)		1149				4oz				X		
4	SB137 (5-7.5)		303										
5													
10													
11													
12													

ABB0976

SB

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

TOTAL

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/14/25		2-14-25				
Received By ☐ Ice	Time 9:10	Received By ☐ Ice	Time 11:40	Received By ☐ Ice	Time	Received By ☐ Ice	Time

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Rev 2/17

CHAIN OF CUSTODY RECORD

METIRI
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134
Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Page 1 of 1

Company Name: PIONEER
Company Address:
City: State: Zip:
Office: Mobile: Fax:
Email Address: JHARTSOCK@PIONEERES.COM
Project ID / Location: 8080 S LAKESHORE DR
Project Manager (Report to): JACOB HARTSOCK
Sample Collector(s): VIM

TURNAROUND TIME REQUESTED
☐ Normal ☐ RUSH* 7 Day
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

PO #:
Report Type ☐ Normal ☐ Specia
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method:

LAB USE ONLY
Work Order #:
Temperature of Received Samples: 2 °C
Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED: TCLP MERCURY	TCLP LEAD	TPH	Lab Comment	LAB #
1	SB134 (7.5-10)	2/13/25	904	SO		1	9oz	NONE	X				
2	SB135 (0-3)		949							X			
3	SB136 (5-7.5)		149				4oz				X		
4	SB137 (5-7.5)		303										
5													
10													
11													
12													

ABB0976

SB

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

TOTH

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/14/25		2-14-25				
Received By ☐ Ice	Time 9:10	Received By ☑ Ice	Time 11:40	Received By ☐ Ice	Time	Received By ☐ Ice	Time

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CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Page 1 of 1

Company Name: PIONEER

Company Address:

City: State: Zip:

Office: Mobile: Fax:

Email Address: JHARTSOCK@PIONEERES.COM

Project ID / Location: 8080 S LAKESHORE DR

Project Manager (Report to): JACOB HARTSOCK

Sample Collector(s): VJM

TURNAROUND TIME REQUESTED

☐ Normal ☐ RUSH* 7 Day

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TCLP MERCURY	TCLP LEAD	TPH	Lab Comment	LAB #
1 SB134 (7.5-10)	2/13/25	904	SO		1	9oz	NONE	X				
2 SB135 (0-3)		949							X			
3 SB136 (5-7.5)		1149				4oz				X		
4 SB137 (5-7.5)		303										
5												
10												
11												
12												

ABB0976

SB

LAB USE ONLY

Work Order #:

Temperature of Received Samples: 2 °C

Received within 24 hours of collection? ☐ No ☐ Yes

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

TOTAL

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/14/25		2-14-25				
Received By ☐ Ice	Time 9:10	Received By ☐ Ice	Time 11:40	Received By ☐ Ice	Time	Received By ☐ Ice	Time

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Rev 2/17

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

February 27, 2025

Pioneer Environmental Services LLC
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Dr
ABB1042

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/17/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Pioneer Environmental Services LLC	Project:	Pioneer Environmental - General	
2753 West 31st Street	Project Number:	8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager:	Pioneer Environmental Services LLC	Reported: 02/27/2025 17:20

Notes and Definitions

Item	Definition
J	Analyte detected below quantitation limit (QL)
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:20

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB1042-01	SB138 (5-7.5)	Solid	02/14/2025 10:33	02/17/2025
ABB1042-02	SB139 (5-7.5)	Solid	02/14/2025 11:22	02/17/2025
ABB1042-03	SB139 (7.5-10)	Solid	02/14/2025 11:28	02/17/2025
ABB1042-04	SB140 (5-7.5)	Solid	02/14/2025 12:30	02/17/2025
ABB1042-05	SB141 (5-7.5)	Solid	02/14/2025 13:14	02/17/2025
ABB1042-06	SB141 (7.5-10)	Solid	02/14/2025 13:21	02/17/2025
ABB1042-07	SB142 (5-7.5)	Solid	02/14/2025 14:10	02/17/2025
ABB1042-08	SB142 (7.5-10)	Solid	02/14/2025 14:15	02/17/2025

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:20

Sample Results

Sample: SB138 (5-7.5)

ABB1042-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	ND	15	20	mg/kg	02/14/25 10:33	02/20/25	1	SW8015M	BB01499
TPH-ERO (Extended Range Organics)	53 J	49	60	mg/kg	02/14/25 10:33	02/20/25	1	SW8015M	BB01499
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/14/25 10:33	02/20/25	1	SW8015M	BB01499

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:20

Sample Results

(Continued)

Sample: SB139 (5-7.5)

ABB1042-02 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	34	15	20	mg/kg	02/14/25 11:22	02/20/25	1	SW8015M	BB01499
TPH-ERO (Extended Range Organics)	ND	49	60	mg/kg	02/14/25 11:22	02/20/25	1	SW8015M	BB01499
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/14/25 11:22	02/20/25	1	SW8015M	BB01499

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:20

Sample Results

(Continued)

Sample: SB139 (7.5-10)

ABB1042-03 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	25	15	20	mg/kg	02/14/25 11:28	02/20/25	1	SW8015M	BB01499
TPH-ERO (Extended Range Organics)	ND	49	60	mg/kg	02/14/25 11:28	02/20/25	1	SW8015M	BB01499
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/14/25 11:28	02/20/25	1	SW8015M	BB01499

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:20

Sample Results

(Continued)

Sample: SB140 (5-7.5)

ABB1042-04 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	290		15	20	mg/kg	02/14/25 12:30	02/20/25	1	SW8015M	BB01499
TPH-ERO (Extended Range Organics)	890		49	60	mg/kg	02/14/25 12:30	02/20/25	1	SW8015M	BB01499
TPH-GRO (Gasoline Range Organics)	21		20	20	mg/kg	02/14/25 12:30	02/20/25	1	SW8015M	BB01499

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:20

Sample Results

(Continued)

Sample: SB141 (5-7.5)

ABB1042-05 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	2100	15	20	mg/kg	02/14/25 13:14	02/20/25	1	SW8015M	BB01499
TPH-ERO (Extended Range Organics)	340	49	60	mg/kg	02/14/25 13:14	02/20/25	1	SW8015M	BB01499
TPH-GRO (Gasoline Range Organics)	20	20	20	mg/kg	02/14/25 13:14	02/20/25	1	SW8015M	BB01499

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:20

Sample Results

(Continued)

Sample: SB141 (7.5-10)

ABB1042-06 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	160	15	20	mg/kg	02/14/25 13:21	02/20/25	1	SW8015M	BB01499
TPH-ERO (Extended Range Organics)	88	49	60	mg/kg	02/14/25 13:21	02/20/25	1	SW8015M	BB01499
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/14/25 13:21	02/20/25	1	SW8015M	BB01499

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:20

Sample Results

(Continued)

Sample: SB142 (5-7.5)

ABB1042-07 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	290	15	20	mg/kg	02/14/25 14:10	02/20/25	1	SW8015M	BB01499
TPH-ERO (Extended Range Organics)	91	49	60	mg/kg	02/14/25 14:10	02/20/25	1	SW8015M	BB01499
TPH-GRO (Gasoline Range Organics)	26	20	20	mg/kg	02/14/25 14:10	02/20/25	1	SW8015M	BB01499

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:20

Sample Results

(Continued)

Sample: SB142 (7.5-10)

ABB1042-08 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	ND	15	20	mg/kg	02/14/25 14:15	02/20/25	1	SW8015M	BB01499
TPH-ERO (Extended Range Organics)	ND	49	60	mg/kg	02/14/25 14:15	02/20/25	1	SW8015M	BB01499
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/14/25 14:15	02/20/25	1	SW8015M	BB01499

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CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Page 1 of 1

Company Name: PIONEER

Company Address:

City: State: Zip:

Office: Mobile: Fax:

Email Address: JHARTSOCK@PIONEERESS.COM

Project ID / Location: 5050 S LAKE SHORE DR

Project Manager (Report to): JARED HARTSOCK

Sample Collector(s): JM

TURNAROUND TIME REQUESTED

☐ Normal ☑ 7 DAY ☐ RUSH*

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

TPH

Hold

Report Type ☐ Normal ☐ Special

* Additional charges apply for QC reports and raw data. Specify in comments section

PO #:

Shipping Method:

LAB USE ONLY

Work Order #:

Temperature of Received Samples: 2 °C

Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TPH	Hold	Lab Comment	LAB #
1	SB138 (5-7.5)	2/4/25	1033	SO		1	4oz (6)	NONE	X			
2	SB139 (5-7.5)		1122						X			
3	SB139 (7.5-10)		1128							X		
4	SB140 (5-7.5)		1230						X			
5	SB141 (5-7.5)		114						X			
6	SB141 (7.5-10)		121							X		
7	SB142 (5-7.5)		210						X			
8	SB142 (7.5-10)		215							X		
9												
10												
11												
12												

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS

ABB1042

Pioneer Environmental Services LLC SB

T 2114

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/17/25		2-17-25				
Received By ☐ Ice	Time 9:35	Received By ☑ Ice	Time 11:40	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

METIRI

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Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

Company Name: PIONEER

Company Address:

City State Zip

Office Mobile Fax

Email Address: JHARTSOCK@PIONEERLES.COM

Project ID / Location: 5050 S LAKE STORE DR

Project Manager (Report to): JARED HARTSOCK

Sample Collector(s): JIM

TURNAROUND TIME REQUESTED

☐ Normal ☑ 7 DAY ☐ RUSH*

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

TPH
Hold

Report Type ☐ Normal ☐ Special

* Additional charges apply for QC reports and raw data. Specify in comments section

Shipping Method

LAB USE ONLY

Work Order #

Temperature of Received Samples: 2 °C

Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TPH	Hold	Lab Comment	LAB #
1	SB138 (5-7.5)	2/14/25	1033	SO		1	4oz (6)	NONE	X			
2	SB139 (5-7.5)		1122						X			
3	SB139 (7.5-10)		1128							X		
4	SB140 (5-7.5)		1230						X			
5	SB141 (5-7.5)		114						X			
6	SB141 (7.5-10)		121							X		
7	SB142 (5-7.5)		210						X			
8	SB142 (7.5-10)		215							X		
9												
10												
11												
12												

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS

ABB1042

Pioneer Environmental Services LLC

T 0114

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/17/25		2-17-25				
Received By ☐ Ice	Time 9:35	Received By ☑ Ice	Time 11:40	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

METIRI

Grace Flowers <grace.flowers@metirigroup.com

·wd: 8080 - 2/14 Samples

message

aniel Galeher <daniel.galeher@metirigroup.com> Mon, Feb 17, 2025 at 11:49 Al
o: Grace Flowers <grace.flowers@metirigroup.com>

---------- Forwarded message ---------
From: **Jacob Hartsock** <jhartsock@pioneerees.com>
Date: Mon, Feb 17, 2025 at 11:29 AM
Subject: 8080 - 2/14 Samples
To: Daniel Galeher <daniel.galeher@metirigroup.com>
Cc: Dan Galeher <Dan@suburbanlabs.com>

Dan,

There were 3 TPH samples placed on hold. Please go ahead and run these as well.

Thanks,
Jake

Jacob Hartsock, PG | *Project Manager*

Pioneer Engineering & Environmental Services, LLC
2753 West 31st Street, Chicago, Illinois 60608

Direct: 773.797.2053 **Web:** PioneerEES.com

--

Daniel Galeher
Senior Project Manager
daniel.galeher@metirigroup.com
(708) 544-3260, ext. 216

METIRI

We value your feedback. Please share your thoughts via our client survey
Suburban Labs is now Metiri Group

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

February 27, 2025

Pioneer Environmental Services LLC
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Dr
ABB1144

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/18/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:21

Notes and Definitions

Item	Definition
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:21

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB1144-01	SB61f (15-17.5)	Solid	02/17/2025 12:09	02/18/2025
ABB1144-02	SB61g (12-.5-15)	Solid	02/17/2025 10:59	02/18/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:21

Sample Results

Sample: SB61f (15-17.5)

ABB1144-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	1600	76	100	mg/kg	02/17/25 12:09	02/21/25	5	SW8015M	BB01499
TPH-ERO (Extended Range Organics)	4400	250	300	mg/kg	02/17/25 12:09	02/21/25	5	SW8015M	BB01499
TPH-GRO (Gasoline Range Organics)	130	100	100	mg/kg	02/17/25 12:09	02/21/25	5	SW8015M	BB01499

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 02/27/2025 17:21

Sample Results

(Continued)

Sample: SB61g (12-.5-15)

ABB1144-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	20000	150	200	mg/kg	02/17/25 10:59	02/21/25	10	SW8015M	BB01499
TPH-ERO (Extended Range Organics)	48000	490	600	mg/kg	02/17/25 10:59	02/21/25	10	SW8015M	BB01499
TPH-GRO (Gasoline Range Organics)	ND	200	200	mg/kg	02/17/25 10:59	02/21/25	10	SW8015M	BB01499

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

METIRI

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134

CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Company Name: PIONEER

Company Address:

City: State: Zip:

Office: Mobile: Fax:

Email Address: JHARTSOCK@PIONEERES.COM

Project ID / Location: 3000 S LAKE STREET DR

Project Manager (Report to): JAKE HARTSOCK

Sample Collector(s): JM

TURNAROUND TIME REQUESTED

☐ Normal 7 DAY ☐ RUSH*

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

TPH HOLD

Page 1 of 1

PO #:

Report Type ☐ Normal ☐ Special

* Additional charges apply for QC reports and raw data. Specify in comments section

Shipping Method:

LAB USE ONLY

Work Order #:

Temperature of Received Samples: °C

Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	Lab Comment	LAB #
1	SB06f(15-17.5)	2/17/25	1209	SO		1	4oz/G	NONE	X	
2	SB06g(12.5-15)	↓	1059	↓		1	↓	↓	X	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

ABB1144

Pioneer Environmental Services LLC

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/18/25		2/18/25				
Received By ☐ Ice	Time 1:18pm	Received By ☐ Ice	Time 3:50	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

April 02, 2025

Jake Hartsock
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Dr (revised and final)
ABB1331

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/20/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Notes and Definitions

Item	Definition
B	Analyte detected in the associated Method Blank
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comment
J	Analyte detected below quantitation limit (QL)
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
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- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
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- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent
-P: Present

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Analysis Case Narrative

6010:
Sample ABB1331-07: S=The MS and the MSD percent recoveries for the following analytes were outside laboratory control limits (75% - 125%):

Antimony; 63%, 64%
Arsenic; 64%, 72%

Sample ABB1331-09: S=The MS the percent recoveries for the following analytes were outside laboratory control limits (75% - 125%):

Antimony; 63%
Lead; 60%

Samples ABB1331-06, -07, -08, and -09 : G= Samples diluted due to interferences which resulted in elevated reporting limits for Selenium.

6010 SPLP:
Sample ABB1331-09: S= For Iron, the MS percent recovery (40%) was outside laboratory control limits (75% - 125%).

8015 TPH:
Sample ABB1331-05: S=The MS and/or the MSD percent recoveries for DRO and ERO were outside laboratory control limits due to the non-homogenous nature of the sample. The MS/MSD precision for DRO and ERO was also greater than laboratory control limits.

8081:
Sample ABB1331-06: S=The MS and/or the MSD percent recoveries for the following analytes were outside laboratory control limits:

Aldrin; 148%, 147% (Limit: 39% - 117%)
alpha-Chlordane; 36%, 29% (Limit: 46% - 111%)
Endosulfan I; 13%, 16% (Limit: 48% - 106%)
Endosulfan sulfate; 44%, 46% (Limit: 50% - 118%)
gamma-BHC; 110% (Limit: 49% - 109%) (MSD only)
Endosulfan II; 159% (Limit: 47% - 117%) (MSD only)
4,4'-DDT; 174% (Limit: 10% - 162%) (MSD only)

8081:
Sample ABB1331-06: R=The MS & MSD Precision for the following analytes were greater than laboratory control limits (30%):
gamma-BHC; 35%

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Endosulfan II; 33%

8270:
Samples ABB1331-06 and -08: G= Sample diluted due to interferences which resulted in elevated reporting limits for this test.

8270:
Sample ABB1331-06: S=The MS and/or the MSD percent recoveries for the following analytes were outside laboratory control limits:

Hexachloroethane; 51% (Limit: 52% - 105%) (MS only)
Hexachlorocyclopentadiene; 0%, 0% (Limit: 41% - 105%)
2,4-Dinitrophenol; 35% (Limit: 45% - 105%) (MS only)
Phenanthrene; 32%, 285% (Limit: 54% - 114%)
Fluoranthene; 26%, 285% (Limit: 56% - 114%)
Pyrene; 21%, 215% (Limit: 54% - 125%)
Benzo(a)anthracene; 38%, 121% (Limit: 55% - 117%)
Benzo(b)fluoranthene; 5% (Limit: 52% - 120%) (MS only)
Benzo(k)fluoranthene; 47% (Limit: 52% - 114%) (MS only)
Benzo(a)pyrene; 32% (Limit: 44% - 124%) (MS only)
Indeno(1,2,3-cd)pyrene; 44% (Limit: 51% - 117%) (MS only)
Benzo(g,h,i)perylene; 47% (Limit: 50% - 117%) (MS only)
Anthracene; 154% (Limit: 53% - 113%) (MSD only)
Chrysene; 133% (Limit: 55% - 119%) (MSD only)

8270:
Sample ABB1331-06: R=The MS & MSD Precision for the following analytes were greater than laboratory control limits (30%):

Phenanthrene; 116%
Fluoranthene; 102%
Pyrene; 91%
Benzo(a)anthracene; 54%
Benzo(b)fluoranthene; 43%
Benzo(k)fluoranthene; 31%
Benzo(a)pyrene; 36%
Anthracene; 76%
Chrysene; 52%
Acenaphthene; 38%
Dibenzofuran; 31%
Fluorene; 46%

8260:
The CCV in sequence SB00704 recovered outiside tihe contirol limiti for several analyties. Corrective action: None, tihese analyties

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

were noti detiected in tihe associatied samples

Sample ABB1331-06: G = The percenti recovery of tihe1,4-Dichlorobenzene-d4 intiernal stiandard was low and outiside metihod critieria(50 - 200%) in botih tihe initial and reanalysis run for tihis sample

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB1331-01	SB61 f (22.5-25)	Solid	02/18/2025 09:17	02/20/2025
ABB1331-02	SB61 g (20-22.5)	Solid	02/18/2025 11:04	02/20/2025
ABB1331-03	SB61 h (12.5-15)	Solid	02/18/2025 12:39	02/20/2025
ABB1331-04	SB61 h (17.5-19)	Solid	02/18/2025 13:07	02/20/2025
ABB1331-05	SB6 i (12.5-15)	Solid	02/18/2025 14:35	02/20/2025
ABB1331-06	SB143 (0-3)	Solid	02/19/2025 09:04	02/20/2025
ABB1331-06	SB143 (0-3)	Solid	02/19/2025 09:04	02/20/2025
ABB1331-07	SB143 (15-17.5)	Solid	02/19/2025 09:31	02/20/2025
ABB1331-07	SB143 (15-17.5)	Solid	02/19/2025 09:31	02/20/2025
ABB1331-08	SB144 (0-3)	Solid	02/19/2025 10:19	02/20/2025
ABB1331-09	SB144 (12.5-15)	Solid	02/19/2025 10:39	02/20/2025
ABB1331-10	SB61 J (15-17.5)	Solid	02/19/2025 11:59	02/20/2025
ABB1331-11	SB61 J (20-22.5)	Solid	02/19/2025 12:14	02/20/2025
ABB1331-12	SB61 J (25-27.5)	Solid	02/19/2025 12:37	02/20/2025
ABB1331-13	SB61 k (15-17.5)	Solid	02/19/2025 14:33	02/20/2025
ABB1331-14	SB61 k (20-22.5)	Solid	02/19/2025 14:45	02/20/2025
ABB1331-15	SB61 k (25-27.5)	Solid	02/19/2025 14:59	02/20/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

Sample: SB61 f (22.5-25)

ABB1331-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	417	15.2	20.0	mg/kg	02/18/25 09:17	02/24/25	1	SW8015M	BB01640
TPH-ERO (Extended Range Organics)	1450	49.3	60.0	mg/kg	02/18/25 09:17	02/24/25	1	SW8015M	BB01640
TPH-GRO (Gasoline Range Organics)	ND	19.9	20.0	mg/kg	02/18/25 09:17	02/24/25	1	SW8015M	BB01640

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB61 g (20-22.5)

ABB1331-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	100	15.2	20.0	mg/kg	02/18/25 11:04	02/24/25	1	SW8015M	BB01640
TPH-ERO (Extended Range Organics)	291	49.3	60.0	mg/kg	02/18/25 11:04	02/24/25	1	SW8015M	BB01640
TPH-GRO (Gasoline Range Organics)	ND	19.9	20.0	mg/kg	02/18/25 11:04	02/24/25	1	SW8015M	BB01640

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB61 h (12.5-15)

ABB1331-03 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	4600	76.0	100	mg/kg	02/18/25 12:39	02/24/25	5	SW8015M	BB01640
TPH-ERO (Extended Range Organics)	11700	246	300	mg/kg	02/18/25 12:39	02/24/25	5	SW8015M	BB01640
TPH-GRO (Gasoline Range Organics)	115	99.6	100	mg/kg	02/18/25 12:39	02/24/25	5	SW8015M	BB01640

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB61 h (17.5-19)

ABB1331-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	3770	76.0	100	mg/kg	02/18/25 13:07	02/24/25	5	SW8015M	BB01640
TPH-ERO (Extended Range Organics)	8670	246	300	mg/kg	02/18/25 13:07	02/24/25	5	SW8015M	BB01640
TPH-GRO (Gasoline Range Organics)	ND	99.6	100	mg/kg	02/18/25 13:07	02/24/25	5	SW8015M	BB01640

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB6 i (12.5-15)

ABB1331-05 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550										
TPH-DRO (Diesel Range Organics)	67.7	R, S	15.2	20.0	mg/kg	02/18/25 14:35	02/24/25	1	SW8015M	BB01640
TPH-ERO (Extended Range Organics)	206	R, S	49.3	60.0	mg/kg	02/18/25 14:35	02/24/25	1	SW8015M	BB01640
TPH-GRO (Gasoline Range Organics)	ND		19.9	20.0	mg/kg	02/18/25 14:35	02/24/25	1	SW8015M	BB01640

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB143 (0-3)

ABB1331-06 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
1,2,4-Trichlorobenzene	ND	G,	0.153	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
1,2-Dichlorobenzene	ND	G,	0.0823	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
1,3-Dichlorobenzene	ND	G,	0.0882	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
1,4-Dichlorobenzene	ND	G,	0.0646	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
2,4,5-Trichlorophenol	ND	G,	0.617	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
2,4,6-Trichlorophenol	ND	G,	0.629	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
2,4-Dichlorophenol	ND	G,	0.588	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
2,4-Dimethylphenol	ND	G,	0.946	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
2,4-Dinitrophenol	ND	G,	1.24	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
2,4-Dinitrotoluene	ND	G,	0.241	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
2,6-Dinitrotoluene	ND	G,	0.0882	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
2-Chloronaphthalene	ND	G,	0.0999	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
2-Chlorophenol	ND	G,	0.558	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
2-Methylnaphthalene	0.259	G, J	0.106	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
2-Nitroaniline	ND	G,	0.652	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
2-Nitrophenol	ND	G,	0.664	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
3,3-Dichlorobenzidine	ND	G,	0.582	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
3-Nitroaniline	ND	G,	0.623	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
4,6-Dinitro-2-methylphenol	ND	G,	1.01	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
4-Bromophenyl phenyl ether	ND	G,	0.106	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
4-Chloro-3-methylphenol	ND	G,	0.605	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
4-Chloroaniline	ND	G,	0.817	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
4-Chlorophenyl phenyl ether	ND	G,	0.0764	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
4-Nitroaniline	ND	G,	0.382	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
4-Nitrophenol	ND	G,	0.535	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Acenaphthene	ND	G,	0.0940	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Acenaphthylene	0.335	G, J	0.0823	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Anthracene	0.300	G, J	0.0705	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Benzo(a)anthracene	0.466		0.0588	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Benzo(a)pyrene	0.717		0.241	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Benzo(b)fluoranthene	1.19		0.0764	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Benzo(g,h,i)perylene	1.02		0.206	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Benzo(k)fluoranthene	0.435		0.135	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Bis(2-chloroethoxy)methane	ND	G,	0.112	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
bis(2-Chloroethyl)ether	ND	G,	0.170	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Bis(2-chloroisopropyl)ether	ND	G,	0.141	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Bis(2-ethylhexyl)phthalate	ND	G,	0.694	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Butyl benzyl phthalate	ND	G,	0.688	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Carbazole	0.159	G, J	0.0764	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Chrysene	0.433		0.0764	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Dibenzo(a,h)anthracene	0.272	G, J	0.217	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Dibenzofuran	0.200	G, J	0.0882	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Diethyl phthalate	ND	G,	0.576	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Dimethyl phthalate	ND	G,	0.641	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Di-n-butyl phthalate	ND	G,	0.535	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB143 (0-3) (Continued)
ABB1331-06 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Di-n-octyl phthalate	ND	G,	0.770	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Fluoranthene	0.862		0.176	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Fluorene	0.106	G, J	0.0882	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Hexachlorobenzene	ND	G,	0.629	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Hexachlorobutadiene	ND	G,	0.605	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Hexachlorocyclopentadiene	ND	G,	0.511	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Hexachloroethane	ND	G,	0.570	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Indeno(1,2,3-cd)pyrene	0.991		0.264	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Isophorone	ND	G,	0.0940	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
m,p-Cresol	ND	G,	0.139	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Naphthalene	0.192	G, J	0.0882	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Nitrobenzene	ND	G,	0.0705	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
N-Nitroso-di-n-propylamine	ND	G,	0.217	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
N-Nitrosodiphenylamine	ND	G,	0.162	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
O-Cresol	ND	G,	0.135	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Pentachlorophenol	ND	G,	1.03	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Phenanthrene	0.605		0.0764	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Phenol	ND	G,	0.594	1.96	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Pyrene	0.813		0.0823	0.392	mg/kg dry	02/19/25 09:04	02/21/25	5	8270C	BB01559
Surrogate: 2,4,6-Tribromophenol		*69%*		*38-105*			*02/21/25*	*5*	*8270C*	
Surrogate: 2-Fluorobiphenyl		*74%*		*40-110*			*02/21/25*	*5*	*8270C*	
Surrogate: 2-Fluorophenol		*65%*		*41-105*			*02/21/25*	*5*	*8270C*	
Surrogate: 4-Terphenyl-d14		*52%*		*26-133*			*02/21/25*	*5*	*8270C*	
Surrogate: Nitrobenzene-d5		*68%*		*27-129*			*02/21/25*	*5*	*8270C*	
Surrogate: Phenol-d5		*70%*		*43-105*			*02/21/25*	*5*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	0.00305		0.000445	0.00156	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
4,4´-DDE	0.00103	J	0.000468	0.00156	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
4,4´-DDT	0.00744	S	0.00123	0.00156	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Aldrin	ND	S,	0.000222	0.000781	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
alpha-BHC	ND		0.000386	0.000781	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
alpha-Chlordane	0.00490	S	0.000211	0.000781	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
beta-BHC	ND		0.000375	0.000781	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Chlordane, Technical	ND		0.0231	0.0390	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
delta-BHC	0.00128		0.000222	0.000781	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Dieldrin	0.00196		0.000480	0.00156	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Endosulfan I	0.00457	S	0.000187	0.000781	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Endosulfan II	0.00190	R, S	0.000398	0.00156	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Endosulfan sulfate	0.00415	S	0.000410	0.00156	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Endrin	0.00547		0.000503	0.00156	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Endrin aldehyde	0.00493		0.000456	0.00156	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Endrin ketone	0.0156		0.000538	0.00156	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710

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2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB143 (0-3) (Continued)
ABB1331-06 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	0.0139	R, S	0.000246	0.000781	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
gamma-Chlordane	0.00266		0.000281	0.000781	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Heptachlor	0.00189		0.000363	0.000781	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Heptachlor epoxide	0.00139		0.000187	0.000781	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Methoxychlor	ND		0.00726	0.00781	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Toxaphene	ND		0.0466	0.0975	mg/kg dry	02/19/25 09:04	02/25/25	1	8081	BB01710
Surrogate: Decachlorobiphenyl		*68%*		*29-133*			*02/25/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*61%*		*36-118*			*02/25/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
AROCLOR 1016	ND		0.00404	0.0197	mg/kg dry	02/19/25 09:04	02/25/25	1	8082	BB01710
AROCLOR 1221	ND		0.00442	0.0197	mg/kg dry	02/19/25 09:04	02/25/25	1	8082	BB01710
AROCLOR 1232	ND		0.00354	0.0197	mg/kg dry	02/19/25 09:04	02/25/25	1	8082	BB01710
AROCLOR 1242	ND		0.00360	0.0197	mg/kg dry	02/19/25 09:04	02/25/25	1	8082	BB01710
AROCLOR 1248	ND		0.00399	0.0197	mg/kg dry	02/19/25 09:04	02/25/25	1	8082	BB01710
AROCLOR 1254	ND		0.00456	0.0197	mg/kg dry	02/19/25 09:04	02/25/25	1	8082	BB01710
AROCLOR 1260	ND		0.00776	0.0197	mg/kg dry	02/19/25 09:04	02/25/25	1	8082	BB01710
Surrogate: Decachlorobiphenyl (DCB)		*88%*		*20-142*			*02/25/25*	*1*	*8082*	
Surrogate: TETRACHLORO-M-XYLENE		*62%*		*22-123*			*02/25/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	0.0770	J	0.0499	0.109	mg/kg dry	02/19/25 09:04	02/24/25	1	7471B	BB01600

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	5.4		0.13	0.14	mg/kg dry	02/19/25 09:04	02/24/25	2	9014	BB01650
pH	8.86		0.100	0.100	pH Units	02/19/25 09:04	02/20/25	1	SW 9045D	BB01544
Temperature	21.2		1.00	1.00	pH Units	02/19/25 09:04	02/20/25	1	SW 9045D	BB01544
Percent Moisture	15.3206		0.1	0.1	%	02/19/25 09:04	02/24/25	1	ASTM-D2216	BB01636
% Solids	84.6794		0.1	0.1	%	02/19/25 09:04	02/24/25	1	ASTM-D2216	BB01636

Volatile Organics - Prep EPA 5035

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1,1-Trichloroethane	ND		0.000630	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
1,1,2,2-Tetrachloroethane	ND	G,	0.000820	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
1,1,2-Trichloroethane	ND		0.000788	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB143 (0-3) (Continued)
ABB1331-06 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035 (Continued)										
1,1-Dichloroethane	ND		0.000709	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
1,1-Dichloroethene	ND		0.000757	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
1,2-Dichloroethane	ND		0.000520	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
1,2-Dichloropropane	ND		0.00258	0.00788	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
2-Butanone	ND		0.00374	0.0315	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
2-Hexanone	ND		0.00117	0.0394	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
4-Methyl-2-pentanone	ND		0.00118	0.0394	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Acetone	ND	S,	0.00837	0.0394	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Benzene	ND		0.000489	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Bromoform	ND	S,	0.00258	0.00788	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Bromomethane	ND		0.000725	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Carbon disulfide	ND		0.00236	0.00788	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Carbon tetrachloride	ND		0.000615	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Chlorobenzene	ND		0.000457	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Chloroethane	ND		0.00433	0.00788	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Chloroform	ND		0.000709	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Chloromethane	ND		0.00607	0.00788	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
cis-1,2-Dichloroethene	ND		0.000599	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
cis-1,3-dichloropropene	ND	S,	0.000394	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Dibromochloromethane	ND		0.000678	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Ethylbenzene	ND		0.000615	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
m,p-Xylene	ND		0.000946	0.00315	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Methyl tert-butyl ether	ND		0.000552	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Methylene chloride	ND		0.00407	0.00788	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
o-Xylene	ND		0.000426	0.00315	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Styrene	ND	S,	0.000457	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Tetrachloroethene	ND		0.000946	0.00315	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Toluene	ND		0.000741	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
trans-1,2-Dichloroethene	ND		0.000583	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
trans-1,3-dichloropropene	ND	S,	0.000410	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Trichloroethene	ND		0.000567	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Vinyl chloride	ND		0.00162	0.00788	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	BB01731
Surrogate: 4-Bromofluorobenzene	*96%*			*76-119*			*02/25/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*106%*			*66-137*			*02/25/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*98%*			*80-120*			*02/25/25*	*1*	*8260B*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
Total 1,3-Dichloropropene	ND		0.000394	0.00158	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	[CALC]
Total Xylenes	ND		0.000426	0.00315	mg/kg dry	02/19/25 09:04	02/25/25	1	8260B	[CALC]

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB143 (0-3) (Continued)

ABB1331-06 (Solid)

Metals - ICP

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aluminum	12400		540	1000	mg/kg Dry	02/19/25 09:04	02/26/25	100	6010B	BB01795
Antimony	6.73		0.610	5.00	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Arsenic	12.4		0.330	5.00	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Barium	140		0.530	2.50	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Beryllium	1.89		0.0290	0.300	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Cadmium	0.979		0.0300	0.250	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Calcium	65500		262	500	mg/kg Dry	02/19/25 09:04	02/26/25	20	6010B	BB01795
Chromium	629		0.435	1.25	mg/kg Dry	02/19/25 09:04	02/26/25	5	6010B	BB01795
Cobalt	121		0.0910	1.25	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Copper	455		1.10	5.00	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Iron	132000		1510	2500	mg/kg Dry	02/19/25 09:04	02/26/25	100	6010B	BB01795
Lead	274		0.210	1.25	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Magnesium	11600		63.5	125	mg/kg Dry	02/19/25 09:04	02/26/25	5	6010B	BB01795
Manganese	7310		11.0	15.0	mg/kg Dry	02/19/25 09:04	02/26/25	20	6010B	BB01795
Nickel	372		0.260	1.25	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Potassium	1090		20.2	25.0	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Selenium	4.27	G, J	1.80	25.0	mg/kg Dry	02/19/25 09:04	02/26/25	5	6010B	BB01795
Silver	0.688		0.260	0.500	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Sodium	408		19.2	25.0	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Thallium	9.48		0.230	1.25	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Vanadium	39.8		0.190	1.25	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795
Zinc	245		1.20	5.00	mg/kg Dry	02/19/25 09:04	02/26/25	1	6010B	BB01795

Metals - ICP - TCLP Leached

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Antimony	0.0179	J	0.00480	0.0350	mg/L	02/19/25 09:04	03/20/25	1	6010B	BB02879
Beryllium	ND		0.000390	0.00500	mg/L	02/19/25 09:04	03/14/25	1	6010B	BB02879
Cadmium	0.00171	J	0.000590	0.0100	mg/L	02/19/25 09:04	03/14/25	1	6010B	BB02879
Chromium	0.00625	J	0.00300	0.0250	mg/L	02/19/25 09:04	03/14/25	1	6010B	BB02879
Cobalt	0.00674	J	0.000570	0.0500	mg/L	02/19/25 09:04	03/14/25	1	6010B	BB02879
Copper	0.0484	J	0.00530	0.0500	mg/L	02/19/25 09:04	03/14/25	1	6010B	BB02879
Iron	0.732	J	0.260	1.25	mg/L	02/19/25 09:04	03/20/25	5	6010B	BB02879
Lead	0.0163	J	0.00130	0.0250	mg/L	02/19/25 09:04	03/14/25	1	6010B	BB02879
Manganese	12.5		0.0395	0.125	mg/L	02/19/25 09:04	03/20/25	5	6010B	BB02879
Nickel	0.178		0.00390	0.0250	mg/L	02/19/25 09:04	03/14/25	1	6010B	BB02879
Selenium	ND		0.00570	0.0250	mg/L	02/19/25 09:04	03/14/25	1	6010B	BB02879
Silver	ND		0.00210	0.0100	mg/L	02/19/25 09:04	03/14/25	1	6010B	BB02879
Thallium	0.0191	J	0.00340	0.100	mg/L	02/19/25 09:04	03/14/25	1	6010B	BB02879
Zinc	0.114		0.0120	0.100	mg/L	02/19/25 09:04	03/14/25	1	6010B	BB02879

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB143 (15-17.5)

ABB1331-07 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
1,2,4-Trichlorobenzene	ND		0.0460	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
1,2-Dichlorobenzene	ND		0.0248	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
1,3-Dichlorobenzene	ND		0.0265	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
1,4-Dichlorobenzene	ND		0.0195	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
2,4,5-Trichlorophenol	ND		0.186	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
2,4,6-Trichlorophenol	ND		0.189	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
2,4-Dichlorophenol	ND		0.177	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
2,4-Dimethylphenol	ND		0.285	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
2,4-Dinitrophenol	ND		0.373	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
2,4-Dinitrotoluene	ND		0.0725	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
2,6-Dinitrotoluene	ND		0.0265	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
2-Chloronaphthalene	ND		0.0301	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
2-Chlorophenol	ND		0.168	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
2-Methylnaphthalene	0.395		0.0318	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
2-Nitroaniline	ND		0.196	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
2-Nitrophenol	ND		0.200	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
3,3-Dichlorobenzidine	ND		0.175	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
3-Nitroaniline	ND		0.188	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
4,6-Dinitro-2-methylphenol	ND		0.304	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
4-Bromophenyl phenyl ether	ND		0.0318	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
4-Chloro-3-methylphenol	ND		0.182	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
4-Chloroaniline	ND		0.246	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
4-Chlorophenyl phenyl ether	ND		0.0230	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
4-Nitroaniline	ND		0.115	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
4-Nitrophenol	ND		0.161	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Acenaphthene	0.0784	J	0.0283	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Acenaphthylene	0.0489	J	0.0248	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Anthracene	0.402		0.0212	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Benzo(a)anthracene	0.420		0.0177	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Benzo(a)pyrene	0.196		0.0725	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Benzo(b)fluoranthene	0.357		0.0230	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Benzo(g,h,i)perylene	0.111	J	0.0619	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Benzo(k)fluoranthene	0.0831	J	0.0407	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Bis(2-chloroethoxy)methane	ND		0.0336	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
bis(2-Chloroethyl)ether	ND		0.0513	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Bis(2-chloroisopropyl)ether	ND		0.0425	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Bis(2-ethylhexyl)phthalate	ND		0.209	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Butyl benzyl phthalate	ND		0.207	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Carbazole	0.0607	J	0.0230	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Chrysene	0.425		0.0230	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Dibenzo(a,h)anthracene	ND		0.0655	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Dibenzofuran	0.131		0.0265	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Diethyl phthalate	ND		0.173	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Dimethyl phthalate	ND		0.193	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Di-n-butyl phthalate	ND		0.161	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559

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2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB143 (15-17.5) (Continued)
ABB1331-07 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Di-n-octyl phthalate	ND		0.232	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Fluoranthene	1.11		0.0531	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Fluorene	0.418		0.0265	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Hexachlorobenzene	ND		0.189	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Hexachlorobutadiene	ND		0.182	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Hexachlorocyclopentadiene	ND		0.154	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Hexachloroethane	ND		0.172	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Indeno(1,2,3-cd)pyrene	0.109	J	0.0796	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Isophorone	ND		0.0283	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
m,p-Cresol	0.0560	J	0.0419	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Naphthalene	0.276		0.0265	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Nitrobenzene	ND		0.0212	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
N-Nitroso-di-n-propylamine	ND		0.0655	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
N-Nitrosodiphenylamine	ND		0.0488	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
O-Cresol	ND		0.0407	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Pentachlorophenol	ND		0.310	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Phenanthrene	1.82		0.0230	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Phenol	ND		0.179	0.589	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Pyrene	0.906		0.0248	0.118	mg/kg dry	02/19/25 09:31	02/21/25	1	8270C	BB01559
Surrogate: 2,4,6-Tribromophenol	*65%*		*38-105*				*02/21/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*68%*		*40-110*				*02/21/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*42%*		*41-105*				*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*49%*		*26-133*				*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*53%*		*27-129*				*02/21/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*67%*		*43-105*				*02/21/25*	*1*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	0.0106		0.00132	0.00463	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
4,4´-DDE	ND		0.00139	0.00463	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
4,4´-DDT	0.00481		0.00365	0.00463	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Aldrin	0.00487		0.000661	0.00232	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
alpha-BHC	ND		0.00115	0.00232	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
alpha-Chlordane	0.00347		0.000626	0.00232	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
beta-BHC	0.00189	J	0.00111	0.00232	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Chlordane, Technical	ND		0.0686	0.116	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
delta-BHC	ND		0.000661	0.00232	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Dieldrin	0.00451	J	0.00143	0.00463	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Endosulfan I	ND		0.000557	0.00232	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Endosulfan II	ND		0.00118	0.00463	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Endosulfan sulfate	ND		0.00122	0.00463	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Endrin	ND		0.00150	0.00463	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Endrin aldehyde	ND		0.00136	0.00463	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Endrin ketone	ND		0.00160	0.00463	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB143 (15-17.5) (Continued)
ABB1331-07 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	0.00424		0.000731	0.00232	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
gamma-Chlordane	0.00298		0.000835	0.00232	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Heptachlor	0.0275		0.00108	0.00232	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Heptachlor epoxide	ND		0.000557	0.00232	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Methoxychlor	ND		0.0216	0.0232	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Toxaphene	ND		0.139	0.290	mg/kg dry	02/19/25 09:31	02/25/25	1	8081	BB01710
Surrogate: Decachlorobiphenyl	*10%*	S	*29-133*				*02/25/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene	*8%*	S	*36-118*				*02/25/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND		0.00608	0.0297	mg/kg dry	02/19/25 09:31	02/27/25	1	8082	BB01710
Aroclor 1221	ND		0.00665	0.0297	mg/kg dry	02/19/25 09:31	02/27/25	1	8082	BB01710
Aroclor 1232	ND		0.00533	0.0297	mg/kg dry	02/19/25 09:31	02/27/25	1	8082	BB01710
Aroclor 1242	ND		0.00542	0.0297	mg/kg dry	02/19/25 09:31	02/27/25	1	8082	BB01710
Aroclor 1248	ND		0.00601	0.0297	mg/kg dry	02/19/25 09:31	02/27/25	1	8082	BB01710
Aroclor 1254	ND		0.00686	0.0297	mg/kg dry	02/19/25 09:31	02/27/25	1	8082	BB01710
Aroclor 1260	ND		0.0117	0.0297	mg/kg dry	02/19/25 09:31	02/27/25	1	8082	BB01710
Surrogate: Decachlorobiphenyl	*74%*		*20-142*				*02/27/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene	*63%*		*22-123*				*02/27/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	0.408		0.0724	0.158	mg/kg dry	02/19/25 09:31	02/24/25	1	7471B	BB01600

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - CVAA - TCLP Leached

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0000860	0.000500	mg/L	02/19/25 09:31	02/26/25	1	7470A	BB01706

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	3.5		0.094	0.11	mg/kg dry	02/19/25 09:31	02/24/25	1	9014	BB01650
pH	11.3		0.100	0.100	pH Units	02/19/25 09:31	02/20/25	1	SW 9045D	BB01544
Temperature	21.2		1.00	1.00	pH Units	02/19/25 09:31	02/20/25	1	SW 9045D	BB01544
Percent Moisture	43.73377		0.1	0.1	%	02/19/25 09:31	02/24/25	1	ASTM-D2216	BB01636
% Solids	56.26623		0.1	0.1	%	02/19/25 09:31	02/24/25	1	ASTM-D2216	BB01636

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB143 (15-17.5) (Continued)

ABB1331-07 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry - TCLP Leached									
Cyanide, Total	0.49	0.11	0.12	mg/L	02/19/25 09:31	02/27/25	2	9014	BB01871

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035									
1,1,1-Trichloroethane	ND	0.000632	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
1,1,2,2-Tetrachloroethane	ND	0.000821	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
1,1,2-Trichloroethane	ND	0.000790	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
1,1-Dichloroethane	ND	0.000711	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
1,1-Dichloroethene	ND	0.000758	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
1,2-Dichloroethane	ND	0.000521	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
1,2-Dichloropropane	ND	0.00259	0.00790	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
2-Butanone	ND	0.00374	0.0316	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
2-Hexanone	ND	0.00117	0.0395	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
4-Methyl-2-pentanone	ND	0.00118	0.0395	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Acetone	ND	0.00839	0.0395	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Benzene	ND	0.000490	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Bromoform	ND	0.00259	0.00790	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Bromomethane	ND	0.000727	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Carbon disulfide	ND	0.00237	0.00790	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Carbon tetrachloride	ND	0.000616	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Chlorobenzene	ND	0.000458	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Chloroethane	ND	0.00434	0.00790	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Chloroform	ND	0.000711	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Chloromethane	ND	0.00608	0.00790	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
cis-1,2-Dichloroethene	ND	0.000600	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
cis-1,3-dichloropropene	ND	0.000395	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Dibromochloromethane	ND	0.000679	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Ethylbenzene	ND	0.000616	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
m,p-Xylene	ND	0.000948	0.00316	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Methyl tert-butyl ether	ND	0.000553	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Methylene chloride	ND	0.00408	0.00790	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
o-Xylene	ND	0.000427	0.00316	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Styrene	ND	0.000458	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Tetrachloroethene	ND	0.000948	0.00316	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Toluene	ND	0.000743	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
trans-1,2-Dichloroethene	ND	0.000585	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
trans-1,3-dichloropropene	ND	0.000411	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Trichloroethene	ND	0.000569	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Vinyl chloride	ND	0.00163	0.00790	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	BB01533
Surrogate: 4-Bromofluorobenzene		*106%*	*76-119*			*02/20/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane		*94%*	*66-137*			*02/20/25*	*1*	*8260B*	
Surrogate: Toluene-d8		*101%*	*80-120*			*02/20/25*	*1*	*8260B*	

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Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

Project: Pioneer Environmental - General
Project Number: 8080 S Lake Shore Dr (revised and final)
Project Manager: Jake Hartsock

Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB143 (15-17.5) (Continued)
ABB1331-07 (Solid)

Volatile Organics

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Total 1,3-Dichloropropene	ND		0.000395	0.00158	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	[CALC]
Total Xylenes	ND		0.000427	0.00316	mg/kg dry	02/19/25 09:31	02/20/25	1	8260B	[CALC]

Metals - ICP

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aluminum	15900		540	1000	mg/kg Dry	02/19/25 09:31	02/26/25	100	6010B	BB01795
Antimony	4.17	S, J	0.610	5.00	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Arsenic	25.4	S	0.330	5.00	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Barium	194		0.530	2.50	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Beryllium	1.83		0.0290	0.300	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Cadmium	5.69		0.0300	0.250	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Calcium	40500		262	500	mg/kg Dry	02/19/25 09:31	02/26/25	20	6010B	BB01795
Chromium	16.2		0.435	1.25	mg/kg Dry	02/19/25 09:31	02/26/25	5	6010B	BB01795
Cobalt	10.5		0.0910	1.25	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Copper	20.6		1.10	5.00	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Iron	316000		1510	2500	mg/kg Dry	02/19/25 09:31	02/26/25	100	6010B	BB01795
Lead	276		0.210	1.25	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Magnesium	4250		12.7	25.0	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Manganese	5160		11.0	15.0	mg/kg Dry	02/19/25 09:31	02/26/25	20	6010B	BB01795
Nickel	4.66		0.260	1.25	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Potassium	1510		20.2	25.0	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Selenium	5.45	G, J	1.80	25.0	mg/kg Dry	02/19/25 09:31	02/26/25	5	6010B	BB01795
Silver	0.421	J	0.260	0.500	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Sodium	272		19.2	25.0	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Thallium	3.06		0.230	1.25	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Vanadium	33.8		0.190	1.25	mg/kg Dry	02/19/25 09:31	02/26/25	1	6010B	BB01795
Zinc	566		6.00	25.0	mg/kg Dry	02/19/25 09:31	02/26/25	5	6010B	BB01795

Metals - ICP - TCLP Leached

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Antimony	ND		0.00480	0.0350	mg/L	02/19/25 09:31	02/25/25	1	6010B	BB01651
Arsenic	ND		0.00560	0.0250	mg/L	02/19/25 09:31	02/27/25	1	6010B	BB01796
Barium	0.928		0.00270	0.250	mg/L	02/19/25 09:31	02/27/25	1	6010B	BB01796
Beryllium	ND		0.000390	0.00500	mg/L	02/19/25 09:31	02/25/25	1	6010B	BB01651
Cadmium	ND		0.000590	0.0100	mg/L	02/19/25 09:31	02/27/25	1	6010B	BB01796
Chromium	ND		0.00300	0.0250	mg/L	02/19/25 09:31	02/27/25	1	6010B	BB01796
Iron	50.2		0.0520	0.250	mg/L	02/19/25 09:31	02/25/25	1	6010B	BB01651
Lead	0.00555	J	0.00130	0.0250	mg/L	02/19/25 09:31	02/27/25	1	6010B	BB01796
Manganese	18.7		0.00790	0.0250	mg/L	02/19/25 09:31	02/25/25	1	6010B	BB01651
Selenium	0.00812	J	0.00570	0.0250	mg/L	02/19/25 09:31	02/27/25	1	6010B	BB01796
Silver	0.00308	J	0.00210	0.0100	mg/L	02/19/25 09:31	02/27/25	1	6010B	BB01796
Thallium	0.0329	J	0.00340	0.100	mg/L	02/19/25 09:31	02/25/25	1	6010B	BB01651
Zinc	ND		0.0120	0.100	mg/L	02/19/25 09:31	02/25/25	1	6010B	BB01651

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB144 (0-3)

ABB1331-08 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
1,2,4-Trichlorobenzene	ND	G,	0.149	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
1,2-Dichlorobenzene	ND	G,	0.0804	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
1,3-Dichlorobenzene	ND	G,	0.0861	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
1,4-Dichlorobenzene	ND	G,	0.0631	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
2,4,5-Trichlorophenol	ND	G,	0.603	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
2,4,6-Trichlorophenol	ND	G,	0.614	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
2,4-Dichlorophenol	ND	G,	0.574	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
2,4-Dimethylphenol	ND	G,	0.924	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
2,4-Dinitrophenol	ND	G, S,	1.21	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
2,4-Dinitrotoluene	ND	G,	0.235	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
2,6-Dinitrotoluene	ND	G,	0.0861	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
2-Chloronaphthalene	ND	G,	0.0976	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
2-Chlorophenol	ND	G,	0.545	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
2-Methylnaphthalene	0.631		0.103	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
2-Nitroaniline	ND	G,	0.637	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
2-Nitrophenol	ND	G,	0.649	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
3,3-Dichlorobenzidine	ND	G,	0.568	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
3-Nitroaniline	ND	G,	0.608	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
4,6-Dinitro-2-methylphenol	ND	G,	0.987	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
4-Bromophenyl phenyl ether	ND	G,	0.103	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
4-Chloro-3-methylphenol	ND	G,	0.591	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
4-Chloroaniline	ND	G,	0.798	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
4-Chlorophenyl phenyl ether	ND	G,	0.0746	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
4-Nitroaniline	ND	G,	0.373	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
4-Nitrophenol	ND	G,	0.522	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Acenaphthene	0.654	R	0.0918	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Acenaphthylene	0.899		0.0804	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Anthracene	0.995	R, S	0.0689	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Benzo(a)anthracene	2.79	R, S	0.0574	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Benzo(a)pyrene	3.34	R, S	0.235	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Benzo(b)fluoranthene	5.09	R, S	0.0746	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Benzo(g,h,i)perylene	3.02	S	0.201	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Benzo(k)fluoranthene	1.66	R, S	0.132	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Bis(2-chloroethoxy)methane	ND	G,	0.109	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
bis(2-Chloroethyl)ether	ND	G,	0.166	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Bis(2-chloroisopropyl)ether	ND	G,	0.138	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Bis(2-ethylhexyl)phthalate	ND	G,	0.677	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Butyl benzyl phthalate	ND	G,	0.672	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Carbazole	0.295	G, J	0.0746	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Chrysene	2.17	R, S	0.0746	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Dibenzo(a,h)anthracene	0.782		0.212	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Dibenzofuran	0.576	R	0.0861	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Diethyl phthalate	ND	G,	0.562	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Dimethyl phthalate	ND	G,	0.626	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Di-n-butyl phthalate	ND	G,	0.522	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB144 (0-3) (Continued)
ABB1331-08 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Di-n-octyl phthalate	ND	G,	0.752	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Fluoranthene	3.79	R, S	0.172	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Fluorene	0.681	R	0.0861	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Hexachlorobenzene	ND	G,	0.614	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Hexachlorobutadiene	ND	G,	0.591	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Hexachlorocyclopentadiene	ND	G, S,	0.499	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Hexachloroethane	ND	G, S,	0.557	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Indeno(1,2,3-cd)pyrene	3.18	S	0.258	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Isophorone	ND	G,	0.0918	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
m,p-Cresol	ND		0.136	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Naphthalene	0.406		0.0861	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Nitrobenzene	ND	G,	0.0689	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
N-Nitroso-di-n-propylamine	ND	G,	0.212	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
N-Nitrosodiphenylamine	ND	G,	0.158	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
O-Cresol	ND	G,	0.132	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Pentachlorophenol	ND	G,	1.00	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Phenanthrene	2.28	R, S	0.0746	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Phenol	ND	G,	0.580	1.91	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Pyrene	3.66	R, S	0.0804	0.383	mg/kg dry	02/19/25 10:19	02/21/25	5	8270C	BB01559
Surrogate: 2,4,6-Tribromophenol		*76%*		*38-105*			*02/21/25*	*5*	*8270C*	
Surrogate: 2-Fluorobiphenyl		*87%*		*40-110*			*02/21/25*	*5*	*8270C*	
Surrogate: 2-Fluorophenol		*75%*		*41-105*			*02/21/25*	*5*	*8270C*	
Surrogate: 4-Terphenyl-d14		*54%*		*26-133*			*02/21/25*	*5*	*8270C*	
Surrogate: Nitrobenzene-d5		*80%*		*27-129*			*02/21/25*	*5*	*8270C*	
Surrogate: Phenol-d5		*82%*		*43-105*			*02/21/25*	*5*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND		0.000436	0.00153	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
4,4´-DDE	0.00177		0.000459	0.00153	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
4,4´-DDT	0.00754		0.00120	0.00153	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Aldrin	ND		0.000218	0.000765	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
alpha-BHC	ND		0.000379	0.000765	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
alpha-Chlordane	0.00583		0.000206	0.000765	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
beta-BHC	ND		0.000367	0.000765	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Chlordane, Technical	ND		0.0226	0.0382	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
delta-BHC	ND		0.000218	0.000765	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Dieldrin	0.00211		0.000470	0.00153	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Endosulfan I	ND		0.000184	0.000765	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Endosulfan II	0.00146	J	0.000390	0.00153	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Endosulfan sulfate	0.00184		0.000402	0.00153	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Endrin	0.00591		0.000493	0.00153	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Endrin aldehyde	0.00545		0.000447	0.00153	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Endrin ketone	0.0181		0.000528	0.00153	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB144 (0-3) (Continued)
ABB1331-08 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides (Continued)										
gamma-BHC	0.0235		0.00120	0.00383	mg/kg dry	02/19/25 10:19	02/26/25	5	8081	BB01710
gamma-Chlordane	0.00842		0.000275	0.000765	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Heptachlor	0.00581		0.000356	0.000765	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Heptachlor epoxide	0.00503		0.000184	0.000765	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Methoxychlor	ND		0.00711	0.00765	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Toxaphene	ND		0.0457	0.0956	mg/kg dry	02/19/25 10:19	02/25/25	1	8081	BB01710
Surrogate: Decachlorobiphenyl		*77%*		*29-133*			*02/25/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene		*55%*		*36-118*			*02/25/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - PCBs										
AROCLOR 1016	ND		0.00395	0.0193	mg/kg dry	02/19/25 10:19	02/25/25	1	8082	BB01710
AROCLOR 1221	ND		0.00431	0.0193	mg/kg dry	02/19/25 10:19	02/25/25	1	8082	BB01710
AROCLOR 1232	ND		0.00346	0.0193	mg/kg dry	02/19/25 10:19	02/25/25	1	8082	BB01710
AROCLOR 1242	ND		0.00352	0.0193	mg/kg dry	02/19/25 10:19	02/25/25	1	8082	BB01710
AROCLOR 1248	ND		0.00390	0.0193	mg/kg dry	02/19/25 10:19	02/25/25	1	8082	BB01710
AROCLOR 1254	ND		0.00445	0.0193	mg/kg dry	02/19/25 10:19	02/25/25	1	8082	BB01710
AROCLOR 1260	ND		0.00758	0.0193	mg/kg dry	02/19/25 10:19	02/25/25	1	8082	BB01710
Surrogate: Decachlorobiphenyl (DCB)		*85%*		*20-142*			*02/25/25*	*1*	*8082*	
Surrogate: TETRACHLORO-M-XYLENE		*57%*		*22-123*			*02/25/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA										
Mercury	0.425		0.0526	0.115	mg/kg dry	02/19/25 10:19	02/24/25	1	7471B	BB01600

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA - TCLP Leached										
Mercury	ND		0.0000860	0.000500	mg/L	02/19/25 10:19	03/14/25	1	7470A	BB02843

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry										
Cyanide, Total	5.5		0.12	0.14	mg/kg dry	02/19/25 10:19	02/24/25	2	9014	BB01650
pH	9.66		0.100	0.100	pH Units	02/19/25 10:19	02/20/25	1	SW 9045D	BB01544
Temperature	21.1		1.00	1.00	pH Units	02/19/25 10:19	02/20/25	1	SW 9045D	BB01544
Percent Moisture	13.3187		0.1	0.1	%	02/19/25 10:19	02/24/25	1	ASTM-D2216	BB01636
% Solids	86.6813		0.1	0.1	%	02/19/25 10:19	02/24/25	1	ASTM-D2216	BB01636

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB144 (0-3) (Continued)
ABB1331-08 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics - Prep EPA 5035									
1,1,1-Trichloroethane	ND	0.000395	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
1,1,2,2-Tetrachloroethane	ND	0.000513	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
1,1,2-Trichloroethane	ND	0.000494	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
1,1-Dichloroethane	ND	0.000444	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
1,1-Dichloroethene	ND	0.000474	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
1,2-Dichloroethane	ND	0.000326	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
1,2-Dichloropropane	ND	0.00162	0.00494	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
2-Butanone	ND	0.00234	0.0197	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
2-Hexanone	ND	0.000731	0.0247	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
4-Methyl-2-pentanone	ND	0.000741	0.0247	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Acetone	ND	0.00524	0.0247	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Benzene	ND	0.000306	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Bromoform	ND	0.00162	0.00494	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Bromomethane	ND	0.000454	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Carbon disulfide	ND	0.00148	0.00494	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Carbon tetrachloride	ND	0.000385	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Chlorobenzene	ND	0.000286	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Chloroethane	ND	0.00272	0.00494	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Chloroform	ND	0.000444	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Chloromethane	ND	0.00380	0.00494	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
cis-1,2-Dichloroethene	ND	0.000375	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
cis-1,3-dichloropropene	ND	0.000247	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Dibromochloromethane	ND	0.000425	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Ethylbenzene	ND	0.000385	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
m,p-Xylene	ND	0.000592	0.00197	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Methyl tert-butyl ether	ND	0.000346	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Methylene chloride	ND	0.00255	0.00494	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
o-Xylene	ND	0.000267	0.00197	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Styrene	ND	0.000286	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Tetrachloroethene	ND	0.000592	0.00197	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Toluene	ND	0.000464	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
trans-1,2-Dichloroethene	ND	0.000365	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
trans-1,3-dichloropropene	ND	0.000257	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Trichloroethene	ND	0.000355	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Vinyl chloride	ND	0.00102	0.00494	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	BB01533
Surrogate: 4-Bromofluorobenzene	*104%*		*76-119*			*02/20/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*99%*		*66-137*			*02/20/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*100%*		*80-120*			*02/20/25*	*1*	*8260B*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics									
Total 1,3-Dichloropropene	ND	0.000247	0.000987	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	[CALC]
Total Xylenes	ND	0.000267	0.00197	mg/kg dry	02/19/25 10:19	02/20/25	1	8260B	[CALC]

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2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB144 (0-3) (Continued)

ABB1331-08 (Solid)

Metals - ICP

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aluminum	16000		540	1000	mg/kg Dry	02/19/25 10:19	02/26/25	100	6010B	BB01795
Antimony	6.08		0.610	5.00	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Arsenic	5.53		0.330	5.00	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Barium	155		0.530	2.50	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Beryllium	2.92		0.0290	0.300	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Cadmium	0.677		0.0300	0.250	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Calcium	145000		1310	2500	mg/kg Dry	02/19/25 10:19	02/26/25	100	6010B	BB01795
Chromium	504		0.435	1.25	mg/kg Dry	02/19/25 10:19	02/26/25	5	6010B	BB01795
Cobalt	4.52		0.0910	1.25	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Copper	104		1.10	5.00	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Iron	58400		302	500	mg/kg Dry	02/19/25 10:19	02/26/25	20	6010B	BB01795
Lead	176		0.210	1.25	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Magnesium	32900		254	500	mg/kg Dry	02/19/25 10:19	02/26/25	20	6010B	BB01795
Manganese	7720		11.0	15.0	mg/kg Dry	02/19/25 10:19	02/26/25	20	6010B	BB01795
Nickel	135		0.260	1.25	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Potassium	1120		20.2	25.0	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Selenium	3.70	G, J	1.80	25.0	mg/kg Dry	02/19/25 10:19	02/26/25	5	6010B	BB01795
Silver	0.845		0.260	0.500	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Sodium	570		19.2	25.0	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Thallium	11.3		0.230	1.25	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Vanadium	94.5		0.190	1.25	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795
Zinc	194		1.20	5.00	mg/kg Dry	02/19/25 10:19	02/26/25	1	6010B	BB01795

Metals - ICP - TCLP Leached

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Antimony	0.00898	J	0.00480	0.0350	mg/L	02/19/25 10:19	03/20/25	1	6010B	BB02879
Beryllium	ND		0.000390	0.00500	mg/L	02/19/25 10:19	03/14/25	1	6010B	BB02879
Chromium	0.00668	J	0.00300	0.0250	mg/L	02/19/25 10:19	03/14/25	1	6010B	BB02879
Copper	0.0200	J	0.00530	0.0500	mg/L	02/19/25 10:19	03/14/25	1	6010B	BB02879
Iron	0.277		0.0520	0.250	mg/L	02/19/25 10:19	03/20/25	1	6010B	BB02879
Lead	0.0102	J	0.00130	0.0250	mg/L	02/19/25 10:19	03/14/25	1	6010B	BB02879
Manganese	4.18		0.00790	0.0250	mg/L	02/19/25 10:19	03/14/25	1	6010B	BB02879
Nickel	0.0234	J	0.00390	0.0250	mg/L	02/19/25 10:19	03/14/25	1	6010B	BB02879
Selenium	ND		0.00570	0.0250	mg/L	02/19/25 10:19	03/14/25	1	6010B	BB02879
Silver	ND		0.00210	0.0100	mg/L	02/19/25 10:19	03/14/25	1	6010B	BB02879
Thallium	0.00584	J	0.00340	0.100	mg/L	02/19/25 10:19	03/14/25	1	6010B	BB02879
Zinc	0.0310	J	0.0120	0.100	mg/L	02/19/25 10:19	03/14/25	1	6010B	BB02879

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

Project: Pioneer Environmental - General
Project Number: 8080 S Lake Shore Dr (revised and final)
Project Manager: Jake Hartsock

Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB144 (12.5-15)
ABB1331-09 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
1,2,4-Trichlorobenzene	ND		0.0342	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
1,2-Dichlorobenzene	ND		0.0184	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
1,3-Dichlorobenzene	ND		0.0198	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
1,4-Dichlorobenzene	ND		0.0145	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
2,4,5-Trichlorophenol	ND		0.138	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
2,4,6-Trichlorophenol	ND		0.141	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
2,4-Dichlorophenol	ND		0.132	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
2,4-Dimethylphenol	ND		0.212	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
2,4-Dinitrophenol	ND		0.278	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
2,4-Dinitrotoluene	ND		0.0540	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
2,6-Dinitrotoluene	ND		0.0198	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
2-Chloronaphthalene	ND		0.0224	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
2-Chlorophenol	ND		0.125	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
2-Methylnaphthalene	ND		0.0237	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
2-Nitroaniline	ND		0.146	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
2-Nitrophenol	ND		0.149	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
3,3-Dichlorobenzidine	ND		0.130	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
3-Nitroaniline	ND		0.140	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
4,6-Dinitro-2-methylphenol	ND		0.227	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
4-Bromophenyl phenyl ether	ND		0.0237	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
4-Chloro-3-methylphenol	ND		0.136	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
4-Chloroaniline	ND		0.183	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
4-Chlorophenyl phenyl ether	ND		0.0171	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
4-Nitroaniline	ND		0.0856	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
4-Nitrophenol	ND		0.120	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Acenaphthene	ND		0.0211	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Acenaphthylene	ND		0.0184	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Anthracene	0.0184	J	0.0158	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Benzo(a)anthracene	0.0285	J	0.0132	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Benzo(a)pyrene	ND		0.0540	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Benzo(b)fluoranthene	0.0487	J	0.0171	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Benzo(g,h,i)perylene	ND		0.0461	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Benzo(k)fluoranthene	ND		0.0303	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Bis(2-chloroethoxy)methane	ND		0.0250	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
bis(2-Chloroethyl)ether	ND		0.0382	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Bis(2-chloroisopropyl)ether	ND		0.0316	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Bis(2-ethylhexyl)phthalate	ND		0.155	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Butyl benzyl phthalate	ND		0.154	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Carbazole	0.0189	J	0.0171	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Chrysene	0.0285	J	0.0171	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Dibenzo(a,h)anthracene	ND		0.0487	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Dibenzofuran	ND		0.0198	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Diethyl phthalate	ND		0.129	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Dimethyl phthalate	ND		0.144	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Di-n-butyl phthalate	ND		0.120	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB144 (12.5-15) (Continued)
ABB1331-09 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)									
Di-n-octyl phthalate	ND	0.173	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Fluoranthene	0.0430 J	0.0395	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Fluorene	ND	0.0198	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Hexachlorobenzene	ND	0.141	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Hexachlorobutadiene	ND	0.136	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Hexachlorocyclopentadiene	ND	0.115	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Hexachloroethane	ND	0.128	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Indeno(1,2,3-cd)pyrene	ND	0.0593	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Isophorone	ND	0.0211	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
m,p-Cresol	ND	0.0312	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Naphthalene	ND	0.0198	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Nitrobenzene	ND	0.0158	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
N-Nitroso-di-n-propylamine	ND	0.0487	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
N-Nitrosodiphenylamine	ND	0.0364	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
O-Cresol	ND	0.0303	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Pentachlorophenol	ND	0.230	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Phenanthrene	0.0522 J	0.0171	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Phenol	ND	0.133	0.439	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Pyrene	0.0382 J	0.0184	0.0878	mg/kg dry	02/19/25 10:39	02/21/25	1	8270C	BB01559
Surrogate: 2,4,6-Tribromophenol	*63%*		*38-105*			*02/21/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*68%*		*40-110*			*02/21/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*62%*		*41-105*			*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*43%*		*26-133*			*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*65%*		*27-129*			*02/21/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*66%*		*43-105*			*02/21/25*	*1*	*8270C*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides									
4,4´-DDD	ND	0.000497	0.00174	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
4,4´-DDE	ND	0.000524	0.00174	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
4,4´-DDT	ND	0.00137	0.00174	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Aldrin	ND	0.000249	0.000873	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
alpha-BHC	ND	0.000432	0.000873	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
alpha-Chlordane	0.000829 J	0.000236	0.000873	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
beta-BHC	ND	0.000419	0.000873	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Chlordane, Technical	ND	0.0258	0.0436	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
delta-BHC	ND	0.000249	0.000873	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Dieldrin	ND	0.000537	0.00174	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Endosulfan I	ND	0.000209	0.000873	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Endosulfan II	ND	0.000445	0.00174	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Endosulfan sulfate	ND	0.000458	0.00174	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Endrin	ND	0.000563	0.00174	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Endrin aldehyde	ND	0.000510	0.00174	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Endrin ketone	0.00156 J	0.000602	0.00174	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB144 (12.5-15) (Continued)
ABB1331-09 (Solid)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
gamma-BHC	ND		0.000275	0.000873	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
gamma-Chlordane	ND		0.000314	0.000873	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Heptachlor	0.000471	J	0.000406	0.000873	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Heptachlor epoxide	ND		0.000209	0.000873	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Methoxychlor	ND		0.00811	0.00873	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Toxaphene	ND		0.0521	0.109	mg/kg dry	02/19/25 10:39	02/25/25	1	8081	BB01710
Surrogate: Decachlorobiphenyl	*104%*			*29-133*			*02/25/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene	*62%*			*36-118*			*02/25/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
AROCLOR 1016	ND		0.00452	0.0221	mg/kg dry	02/19/25 10:39	02/25/25	1	8082	BB01710
AROCLOR 1221	ND		0.00495	0.0221	mg/kg dry	02/19/25 10:39	02/25/25	1	8082	BB01710
AROCLOR 1232	ND		0.00397	0.0221	mg/kg dry	02/19/25 10:39	02/25/25	1	8082	BB01710
AROCLOR 1242	ND		0.00403	0.0221	mg/kg dry	02/19/25 10:39	02/25/25	1	8082	BB01710
AROCLOR 1248	ND		0.00447	0.0221	mg/kg dry	02/19/25 10:39	02/25/25	1	8082	BB01710
AROCLOR 1254	ND		0.00510	0.0221	mg/kg dry	02/19/25 10:39	02/25/25	1	8082	BB01710
AROCLOR 1260	ND		0.00869	0.0221	mg/kg dry	02/19/25 10:39	02/25/25	1	8082	BB01710
Surrogate: Decachlorobiphenyl (DCB)	*101%*			*20-142*			*02/25/25*	*1*	*8082*	
Surrogate: TETRACHLORO-M-XYLENE	*80%*			*22-123*			*02/25/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	0.0600	J	0.0580	0.127	mg/kg dry	02/19/25 10:39	02/24/25	1	7471B	BB01600

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	0.94		0.070	0.079	mg/kg dry	02/19/25 10:39	02/24/25	1	9014	BB01650
pH	7.82		0.100	0.100	pH Units	02/19/25 10:39	02/20/25	1	SW 9045D	BB01544
Temperature	21.0		1.00	1.00	pH Units	02/19/25 10:39	02/20/25	1	SW 9045D	BB01544
Percent Moisture	24.37726		0.1	0.1	%	02/19/25 10:39	02/24/25	1	ASTM-D2216	BB01636
% Solids	75.62273		0.1	0.1	%	02/19/25 10:39	02/24/25	1	ASTM-D2216	BB01636

Volatile Organics - Prep EPA 5035

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1,1-Trichloroethane	ND		0.000363	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
1,1,2,2-Tetrachloroethane	ND		0.000471	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
1,1,2-Trichloroethane	ND		0.000453	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB144 (12.5-15) (Continued)
ABB1331-09 (Solid)

Volatile Organics - Prep EPA 5035 (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,1-Dichloroethane	ND		0.000408	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
1,1-Dichloroethene	ND		0.000435	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
1,2-Dichloroethane	ND		0.000299	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
1,2-Dichloropropane	ND		0.00149	0.00453	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
2-Butanone	ND		0.00215	0.0181	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
2-Hexanone	ND		0.000671	0.0227	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
4-Methyl-2-pentanone	ND		0.000680	0.0227	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Acetone	ND		0.00481	0.0227	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Benzene	ND		0.000281	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Bromoform	ND		0.00149	0.00453	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Bromomethane	ND		0.000417	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Carbon disulfide	ND		0.00136	0.00453	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Carbon tetrachloride	ND		0.000354	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Chlorobenzene	ND		0.000263	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Chloroethane	ND		0.00249	0.00453	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Chloroform	ND		0.000408	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Chloromethane	ND		0.00349	0.00453	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
cis-1,2-Dichloroethene	ND		0.000345	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
cis-1,3-dichloropropene	ND		0.000227	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Dibromochloromethane	ND		0.000390	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Ethylbenzene	ND		0.000354	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
m,p-Xylene	ND		0.000544	0.00181	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Methyl tert-butyl ether	ND		0.000317	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Methylene chloride	ND		0.00234	0.00453	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
o-Xylene	ND		0.000245	0.00181	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Styrene	ND		0.000263	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Tetrachloroethene	ND		0.000544	0.00181	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Toluene	ND		0.000426	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
trans-1,2-Dichloroethene	ND		0.000335	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
trans-1,3-dichloropropene	ND		0.000236	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Trichloroethene	ND		0.000326	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Vinyl chloride	ND		0.000934	0.00453	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	BB01533
Surrogate: 4-Bromofluorobenzene	*102%*			*76-119*			*02/20/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*98%*			*66-137*			*02/20/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*100%*			*80-120*			*02/20/25*	*1*	*8260B*	

Volatile Organics

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Total 1,3-Dichloropropene	ND		0.000227	0.000907	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	[CALC]
Total Xylenes	ND		0.000245	0.00181	mg/kg dry	02/19/25 10:39	02/20/25	1	8260B	[CALC]

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results
(Continued)

Sample: SB144 (12.5-15) (Continued)
ABB1331-09 (Solid)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	6000		108	200	mg/kg Dry	02/19/25 10:39	02/26/25	20	6010B	BB01795
Antimony	ND	, S	0.610	5.00	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Arsenic	11.6		0.330	5.00	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Barium	73.3		0.530	2.50	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Beryllium	1.16		0.0290	0.300	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Cadmium	3.58		0.0300	0.250	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Calcium	6250		65.5	125	mg/kg Dry	02/19/25 10:39	02/26/25	5	6010B	BB01795
Chromium	5.10		0.435	1.25	mg/kg Dry	02/19/25 10:39	02/26/25	5	6010B	BB01795
Cobalt	8.02		0.0910	1.25	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Copper	12.6		1.10	5.00	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Iron	178000		1510	2500	mg/kg Dry	02/19/25 10:39	02/26/25	100	6010B	BB01795
Lead	206	S	0.210	1.25	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Magnesium	725		12.7	25.0	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Manganese	4190		11.0	15.0	mg/kg Dry	02/19/25 10:39	02/26/25	20	6010B	BB01795
Nickel	4.42		0.260	1.25	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Potassium	1050		20.2	25.0	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Selenium	4.24	G, J	1.80	25.0	mg/kg Dry	02/19/25 10:39	02/26/25	5	6010B	BB01795
Silver	0.402	J	0.260	0.500	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Sodium	522		19.2	25.0	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Thallium	5.96		0.230	1.25	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Vanadium	18.0		0.190	1.25	mg/kg Dry	02/19/25 10:39	02/26/25	1	6010B	BB01795
Zinc	529		6.00	25.0	mg/kg Dry	02/19/25 10:39	02/26/25	5	6010B	BB01795

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP - SPLP Leached										
Cadmium	ND		0.00118	0.0200		02/19/25 10:39	03/26/25	1	6010B	BB03490
Iron	6.15	S	0.104	0.500		02/19/25 10:39	03/26/25	1	6010B	BB03490
Lead	0.0433	J	0.00260	0.0500		02/19/25 10:39	03/26/25	1	6010B	BB03490
Manganese	0.147		0.0158	0.0500		02/19/25 10:39	03/26/25	1	6010B	BB03490
Selenium	ND		0.0114	0.0500		02/19/25 10:39	03/26/25	1	6010B	BB03490
Thallium	ND		0.00680	0.200		02/19/25 10:39	03/26/25	1	6010B	BB03490
Zinc	0.0469	J	0.0240	0.200		02/19/25 10:39	03/26/25	1	6010B	BB03490

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB61 J (15-17.5)

ABB1331-10 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	32.3	15.2	20.0	mg/kg	02/19/25 11:59	02/24/25	1	SW8015M	BB01640
TPH-ERO (Extended Range Organics)	107	49.3	60.0	mg/kg	02/19/25 11:59	02/24/25	1	SW8015M	BB01640
TPH-GRO (Gasoline Range Organics)	ND	19.9	20.0	mg/kg	02/19/25 11:59	02/24/25	1	SW8015M	BB01640

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB61 J (20-22.5)

ABB1331-11 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	239	15.2	20.0	mg/kg	02/19/25 12:14	02/24/25	1	SW8015M	BB01640
TPH-ERO (Extended Range Organics)	727	49.3	60.0	mg/kg	02/19/25 12:14	02/24/25	1	SW8015M	BB01640
TPH-GRO (Gasoline Range Organics)	ND	19.9	20.0	mg/kg	02/19/25 12:14	02/24/25	1	SW8015M	BB01640

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB61 J (25-27.5)

ABB1331-12 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	16.3 J	15.2	20.0	mg/kg	02/19/25 12:37	02/27/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	ND	49.3	60.0	mg/kg	02/19/25 12:37	02/27/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	19.9	20.0	mg/kg	02/19/25 12:37	02/27/25	1	SW8015M	BB01787

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB61 k (15-17.5)

ABB1331-13 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	1340	15.2	20.0	mg/kg	02/19/25 14:33	02/24/25	1	SW8015M	BB01640
TPH-ERO (Extended Range Organics)	2360	49.3	60.0	mg/kg	02/19/25 14:33	02/24/25	1	SW8015M	BB01640
TPH-GRO (Gasoline Range Organics)	ND	19.9	20.0	mg/kg	02/19/25 14:33	02/24/25	1	SW8015M	BB01640

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB61 k (20-22.5)

ABB1331-14 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	65.0	15.2	20.0	mg/kg	02/19/25 14:45	02/24/25	1	SW8015M	BB01640
TPH-ERO (Extended Range Organics)	222	49.3	60.0	mg/kg	02/19/25 14:45	02/24/25	1	SW8015M	BB01640
TPH-GRO (Gasoline Range Organics)	ND	19.9	20.0	mg/kg	02/19/25 14:45	02/24/25	1	SW8015M	BB01640

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

(Continued)

Sample: SB61 k (25-27.5)

ABB1331-15 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	735	15.2	20.0	mg/kg	02/19/25 14:59	02/27/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	1600	49.3	60.0	mg/kg	02/19/25 14:59	02/27/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	19.9	20.0	mg/kg	02/19/25 14:59	02/27/25	1	SW8015M	BB01787

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

Sample Results

Data Analyzed by: First Environmental Laboratories Inc

Sample: SB143 (15-17.5)
ABB1331-07 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Reactive	See Attached				02/19/25 09:31			Other	[none]
Sulfide, Reactive	See Attached				02/19/25 09:31			Other	[none]

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr (revised and final)	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 04/02/2025 10:24

8260 SRP Package

8260 SRP

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METIRI

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134
Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

CHAIN OF CUSTODY RECORD

Page 1 of 2

Company Name: PIONEER
Company Address:
City: State: Zip:
Office: Mobile: Fax:
Email Address: JHARTSOCK@PIONEERES.COM
Project ID / Location: 8080 S LAKE SHORE Dr
Project Manager (Report to): JACOB HARTSOCK
Sample Collector(s): JM

TURNAROUND TIME REQUESTED
☐ Normal ☐ RUSH* 7 DAY
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

PO #:
Report Type: ☐ Normal ☐ Special*
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method:

LAB USE ONLY
Work Order #:
Temperature of Received Samples: °C
Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	PH	TCL + PH	TCL + PH + TCLP RCRA 8	TCLP CYANIDE	REACTIVITY	Lab Comment	LAB #
1	SB 61 f (22.5-25)	2/18/25	917	SO		1	4oz (G)	NONE	X						
2	SB 61 g (20-22.5)		1104			1			X						
3	SB 61 h (12.5-15)		1239			1			X						
4	SB 61 h (17.5-19)		107			1			X						
5	SB 61 i (12.5-15)		235			1			X						
6	SB 143 (0-3)	2/19/25	904			4		NON		X					
7	SB 143 (15-17.5)		931			5				X	X X X				
8	SB 144 (0-3)		1019			4				X					
9	SB 144 (12.5-15)		1039			4				X					
10	SB 61 j (15-17.5)		1159			1	4oz		X						
11	SB 61 j (20-22.5)		1214			1			X						
12	SB 61 j (25-27.5)		1237			1						X			

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

ABB1331
Pioneer Environmental Services LLC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/20/25		2/20				
Received By ☐ Ice	Time 10:30	Received By ☐ Ice	Time 12:20	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

CHAIN OF CUSTODY RECORD

METIRI
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134
Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Page 2 of 2

Company Name: PIONEER
Company Address:
City: State: Zip:
Office: Mobile: Fax:
Email Address: JHARTSOCK
Project ID / Location:
Project Manager (Report to):
Sample Collector(s):

TURNAROUND TIME REQUESTED
☐ Normal ☐ RUSH*
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

PO #:
Report Type: ☐ Normal ☐ Special*
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method:

LAB USE ONLY
Work Order #:
Temperature of Received Samples: °C
Received within 24 hours of collection? ☐ No ☐ Yes

SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED Enter an "X" in box below for request	Lab Comment	LAB #
1 SB61K (15-17.5)	2/19/25	233	SO		1	4oz	NONE	X		
2 SB61K (20-22.5)		245								
3 SB61K (25-27.5)		259						X		
4										
5										
6										
7										
8										
9										
10										
11										
12										

HOLD
TPH

ABB1331
Pioneer Environmental Services LLC

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/20/25		2/20				
Received By ☐ Ice	Time 10:32	Received By ☒ Ice	Time 1:20	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

METIRI
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134

CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Company Name: PIONEER
Company Address:
City: State: Zip:
Office: Mobile: Fax:
Email Address: JHARTSOCK@PIONEEREES.COM
Project ID / Location: 8080 S LAKE SHORE Dr
Project Manager (Report to): JACOB HARTSOCK
Sample Collector(s): JIM

TURNAROUND TIME REQUESTED
☐ Normal ☐ RUSH* 7 DAY
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page 1 of 2
PO #
Report Type ☐ Normal ☐ Special*
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method

LAB USE ONLY
Work Order #
Temperature of Received Samples °C
Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TPH	TCL + pH	HOLD	TCLP RCRA 8	TCLP CYANIDE	REACTIVITY	Lab Comment	LAB #
1	SB61f (22.5-25)	2/18/25	917	SO		1	4oz (6)	NONE	X							
2	SB61g (20-22.5)		1104						X							
3	SB61h (12.5-15)		1239						X							
4	SB61h (17.5-19)		107						X							
5	SB61i (12.5-15)		235						X							
6	SB143 (0-3)	2/19/25	904			4		MEOH		X						
7	SB143 (15-17.5)		931			5				X		X	X	X		
8	SB144 (0-3)		1019			4				X						
9	SB144 (12.5-15)		1039			4				X						
10	SB61j (15-17.5)		1159			1	4oz		X							
11	SB61j (20-22.5)		1214						X							
12	SB61j (25-27.5)		1237								X					

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

ABB1331
Pioneer Environmental Services LLC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
[signature]	2/20/25	[signature]	2/20				
Received By ☐ Ice	Time 10:30	Received By ☐ Ice	Time 12:20	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

METIRI

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134

CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Page 2 of 2

Company Name: PIONEER

Company Address

City State Zip

Office Mobile Fax

Email Address: JHARTSOCK

Project ID / Location

Project Manager (Report to)

Sample Collector(s)

TURNAROUND TIME REQUESTED

☐ Normal ☐ RUSH*

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

PO #

Report Type ☐ Normal ☐ Special*

* Additional charges apply for QC reports and raw data. Specify in comments section

Shipping Method

LAB USE ONLY

Work Order #

Temperature of Received Samples ° C

Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	Lab Comment	LAB #
1	SB61K (15-17.5)	2/19/25	233	SO		1	4oz	None		
2	SB61K (20-22.5)	↓	245	↓		↓	↓	↓		
3	SB61K (25-27.5)	↓	259	↓		↓	↓	↓		
4										
5										
6										
7										
8										
9										
10										
11										
12										

TPH X HOLD

X X

ABB1331

Pioneer Environmental Services LLC

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/20/25		2/20				
Received By ☐ Ice	Time 10:32	Received By ☒ Ice	Time 1:20	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

First Environmental Laboratories, Inc.
IL ELAP / NELAC Certification # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • FirstEnv.com

February 27, 2025

Mr. Daniel Galeher
METIRI GROUP
1950 S. Batavia Ave
Suite 150
Geneva, IL 60134

Project ID: ABB1331
First Environmental File ID: 25-1301
Date Received: February 20, 2025

Dear Mr. Daniel Galeher:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922025-14: effective 01/16/25 through 02/28/2026.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Neal E Cleghorn

Neal Cleghorn
Project Manager

First Environmental Laboratories, Inc.
IL ELAP / NELAC Certification # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • FirstEnv.com

Case Narrative

METIRI GROUP

Lab File ID: **25-1301**

Project ID: **ABB1331**

Date Received: **February 20, 2025**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
25-1301-001	ABB1331-07	02/19/25 9:31

Sample Batch Comments:

Sample acceptance criteria were met.

First Environmental Laboratories, Inc.

IL ELAP / NELAC Certification # 100292

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Case Narrative

METIRI GROUP

Lab File ID: **25-1301**

Project ID: **ABB1331**

Date Received: **February 20, 2025**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

First Environmental Laboratories, Inc.
IL ELAP / NELAC Certification # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • FirstEnv.com

Analytical Report

Client:	METIRI GROUP	**Date Collected:**	02/19/25
Project ID:	ABB1331	**Time Collected:**	9:31
Sample ID:	ABB1331-07	**Date Received:**	02/20/25
Sample No:	25-1301-001	**Date Reported:**	02/27/25

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Sulfide, Reactive **Method: 7.3.4.2.**				
Analysis Date: 02/25/25				
Sulfide, Reactive	< 10	10	mg/kg	N
Cyanide, Reactive **Method: 7.3.3.2.**				
Analysis Date: 02/24/25				
Cyanide, Reactive	< 10	10	mg/kg	N

First Environmental Laboratories, Inc.
IL ELAP / NELAC Certification # 100292
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Quality Control Summary

Client: METIRI GROUP **Lab File ID:** 25-1301

Project ID: ABB1331

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Parameter: Cyanide, Reactive		**Analytical Method:** 7.3.3.2.			**Analytical WS #:** 254938	**Analysis Date:** 02/24/25		
25-1312-007MS	MS	Cyanide, Total	3.29	mg/kg	%R: 80.3	75	125	
25-1312-007MSD	MSD	Cyanide, Total	4.28	mg/kg	%R: 105.3	75	125	RPD: 26 * 20
		RPD outside control limits.						
CCB940694	CB	Cyanide, Total	< 0.005	mg/L	0	-		
CCB940695	CB	Cyanide, Total	< 0.005	mg/L	0	-		
CCVS940696	CCVS	Cyanide, Total	0.491	mg/L	%R: 98.2	90	110	
CCVS940697	CCVS	Cyanide, Total	0.494	mg/L	%R: 98.8	90	110	
LCS940698	LCS	Cyanide, Total	0.464	mg/L	%R: 92.8	80	120	
PB940701	PB	Cyanide, Total	< 0.005	mg/L	0	-		
Parameter: Sulfide, Reactive		**Analytical Method:** 7.3.4.2.			**Analytical WS #:** 254959	**Analysis Date:** 02/25/25		
CCB940754	CB	Sulfide	< 0.05	mg/L	0	-		
CCB940755	CB	Sulfide	< 0.05	mg/L	0	-		
CCVS940756	CCVS	Sulfide	0.51	mg/L	%R: 101.6	90	110	
CCVS940757	CCVS	Sulfide	0.51	mg/L	%R: 102	90	110	

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

SUBCONTRACT ORDER

Sending Laboratory:

Metiri Group - Geneva
1950 S Batavia Ave, Suite 150
Geneva, IL 60134
Phone: (800) 783-5227
Fax: (517) 699-0388

Project Manager: Daniel Galeher

Subcontracted Laboratory:

First Environmental Laboratories Inc
1600 Shore Rd
Naperville, IL 60563
Phone: (630) 778-1200
Fax:

Work Order: ABB1331

Analysis	Comments

Sample ID: ABB1331-07 ***Solid*** ***Sampled: 02/19/2025 09:31*** ***Sampled by:*** ***Sample type:***

SUB Sulfide Reactive
SUB CN Reactive

25-1301-001

Containers Supplied:
4oz Jar Wmouth (F)

Released By _____ Date 2-20-25 2:40

Received By _____ Date 2/20/25 1440

Temp: 4.1

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

March 04, 2025

Jake Hartsock
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Dr
ABB1487

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/24/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 15:40

Notes and Definitions

Item	Definition
J	Analyte detected below quantitation limit (QL)
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 15:40

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB1487-01	SB61 l (15-17.5)	Solid	02/20/2025 10:11	02/24/2025
ABB1487-02	SB61 l (20-22.5)	Solid	02/20/2025 10:27	02/24/2025
ABB1487-03	SB61 l (22.5-25)	Solid	02/20/2025 10:46	02/24/2025
ABB1487-04	SB61m (14-15)	Solid	02/20/2025 12:33	02/24/2025
ABB1487-05	SB61m (15-18)	Solid	02/20/2025 12:52	02/24/2025
ABB1487-06	SB61n (15-17.5)	Solid	02/20/2025 14:04	02/24/2025
ABB1487-07	SB61n (17.5-20)	Solid	02/20/2025 14:10	02/24/2025
ABB1487-08	SB61n (20-22.5)	Solid	02/20/2025 14:35	02/24/2025

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 15:40

Sample Results

Sample: SB61 l (15-17.5)

ABB1487-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	49	15	20	mg/kg	02/20/25 10:11	02/26/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	120	49	60	mg/kg	02/20/25 10:11	02/26/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/20/25 10:11	02/26/25	1	SW8015M	BB01787

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 15:40

Sample Results

(Continued)

Sample: SB61 I (20-22.5)

ABB1487-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	270	15	20	mg/kg	02/20/25 10:27	02/26/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	800	49	60	mg/kg	02/20/25 10:27	02/26/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/20/25 10:27	02/26/25	1	SW8015M	BB01787

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 15:40

Sample Results

(Continued)

Sample: SB61 I (22.5-25)

ABB1487-03 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	15 J	15	20	mg/kg	02/20/25 10:46	02/26/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	74	49	60	mg/kg	02/20/25 10:46	02/26/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/20/25 10:46	02/26/25	1	SW8015M	BB01787

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 15:40

Sample Results

(Continued)

Sample: SB61m (14-15)

ABB1487-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	3200	150	200	mg/kg	02/20/25 12:33	02/26/25	10	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	8700	490	600	mg/kg	02/20/25 12:33	02/26/25	10	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	200	200	mg/kg	02/20/25 12:33	02/26/25	10	SW8015M	BB01787

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 15:40

Sample Results

(Continued)

Sample: SB61m (15-18)

ABB1487-05 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	10000	150	200	mg/kg	02/20/25 12:52	02/26/25	10	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	31000	490	600	mg/kg	02/20/25 12:52	02/26/25	10	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	200	200	mg/kg	02/20/25 12:52	02/26/25	10	SW8015M	BB01787

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 15:40

Sample Results

(Continued)

Sample: SB61n (15-17.5)

ABB1487-06 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	69	15	20	mg/kg	02/20/25 14:04	02/26/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	350	49	60	mg/kg	02/20/25 14:04	02/26/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/20/25 14:04	02/26/25	1	SW8015M	BB01787

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 15:40

Sample Results

(Continued)

Sample: SB61n (17.5-20)

ABB1487-07 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	22	15	20	mg/kg	02/20/25 14:10	02/26/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	110	49	60	mg/kg	02/20/25 14:10	02/26/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/20/25 14:10	02/26/25	1	SW8015M	BB01787

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 15:40

Sample Results

(Continued)

Sample: SB61n (20-22.5)

ABB1487-08 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	76	15	20	mg/kg	02/20/25 14:35	02/26/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	400	49	60	mg/kg	02/20/25 14:35	02/26/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/20/25 14:35	02/26/25	1	SW8015M	BB01787

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

METIRI

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134
Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

CHAIN OF CUSTODY RECORD

Company Name: PIONEER
Company Address:
City State Zip
Office Mobile Fax
Email Address: SMARTSCH@PIONEERES.COM
Project ID / Location: 8050 S LAKE SHORE DR
Project Manager (Report to): JACOB HARTSOCH
Sample Collector(s): JTM

TURNAROUND TIME REQUESTED
☐ Normal ☐ RUSH*
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page 1 of 1
PO #
Report Type ☐ Normal ☐ Special
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method

LAB USE ONLY
Work Order #
Temperature of Received Samples 1.2 °C
Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TAL	Hold	Lab Comment	LAB #
1	SB61 (15-17.5)	2/20/25	1011	SO		1	40z (G)	NONO	X			
2	SB61 (20-22.5)	"	1027	"		"	"	"	X			
3	SB61 (25-27.5)		1046						X	X		
4	SB61M (14-15)		1233						X	X		
5	SB61M (15-18)		1252						X			
6	SB61N (15-17.5)		204						X	X		
7	SB61N (17.5-20)		210						X			
8	SB61N (20-22.5)		236						X	X		
9												
10												
11												
12												

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:
Run all samples

ABB1487
Pioneer Environmental Services LLC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
Received By ☐ Ice	Time 10:20	Received By ☒ Ice	Time 2:15	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES. Rev 2/17

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

March 04, 2025

Jake Hartsock
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Dr
ABB1488

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/24/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 12:39

Notes and Definitions

Item	Definition
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 12:39

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB1488-01	SB61a (35-37.5)	Solid	02/21/2025 11:04	02/24/2025
ABB1488-02	SB61a (37.5-40)	Solid	02/21/2025 11:29	02/24/2025
ABB1488-03	SB55 (15-17.5)	Solid	02/21/2025 13:47	02/24/2025
ABB1488-04	SB55 (17.5-20)	Solid	02/21/2025 13:59	02/24/2025
ABB1488-05	SB61o (15-17.5)	Solid	02/21/2025 15:09	02/24/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 12:39

Sample Results

Sample: SB61a (35-37.5)

ABB1488-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	26	15	20	mg/kg	02/21/25 11:04	02/27/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	120	49	60	mg/kg	02/21/25 11:04	02/27/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/21/25 11:04	02/27/25	1	SW8015M	BB01787

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 12:39

Sample Results

(Continued)

Sample: SB61a (37.5-40)

ABB1488-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	ND	15	20	mg/kg	02/21/25 11:29	02/27/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	ND	49	60	mg/kg	02/21/25 11:29	02/27/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/21/25 11:29	02/27/25	1	SW8015M	BB01787

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 12:39

Sample Results

(Continued)

Sample: SB55 (15-17.5)

ABB1488-03 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	140	15	20	mg/kg	02/21/25 13:47	02/27/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	370	49	60	mg/kg	02/21/25 13:47	02/27/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/21/25 13:47	02/27/25	1	SW8015M	BB01787

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 12:39

Sample Results

(Continued)

Sample: SB55 (17.5-20)

ABB1488-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	ND	15	20	mg/kg	02/21/25 13:59	02/27/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	ND	49	60	mg/kg	02/21/25 13:59	02/27/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/21/25 13:59	02/27/25	1	SW8015M	BB01787

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 12:39

Sample Results

(Continued)

Sample: SB61o (15-17.5)

ABB1488-05 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	ND	15	20	mg/kg	02/21/25 15:09	02/27/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	ND	49	60	mg/kg	02/21/25 15:09	02/27/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/21/25 15:09	02/27/25	1	SW8015M	BB01787

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

METIRI

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134

CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Company Name: PIONEER

Company Address:

City: State: Zip:

Office: Mobile: Fax:

Email Address: SHARTSOCK@PIONEERES.COM

Project ID / Location: 9080 S LAKE SHORE Dr

Project Manager / Report to: MIKE HARTSOCK

Sample Collector(s): JM

TURNAROUND TIME REQUESTED

☐ Normal ☑ RUSH* 2 DAY

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

TPH

Page 1 of 1

PO #:

Report Type ☐ Normal ☐ Special

* Additional charges apply for QC reports and raw data. Specify in comments section

Shipping Method:

LAB USE ONLY

Work Order #:

Temperature of Received Samples: 1.2 °C

Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	ANALYSIS	Lab Comment	LAB #
1	SB6/a (35-37.5)	9/21/25	1104	SO		1	4oz (G)	NONE	X		
2	SB6/a (37.5-40)		1129						X		
3	SB55 (15-17.5)		147						X		
4	SB55 (17.5-20)		159						X		
5	SB6/a (15-17.5)		309						X		
6											
7											
8											
9											
10											
11											
12											

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), $NaThio$

COMMENTS & SPECIAL INSTRUCTIONS:

ABB1488

Pioneer Environmental Services LLC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	9/24/25		9/25				
Received By ☒ Ice	Time 10:20	Received By ☑ Ice	Time 2:45	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

March 04, 2025

Jake Hartsock
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Dr
ABB1583

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/25/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 12:40

Notes and Definitions

Item	Definition
J	Analyte detected below quantitation limit (QL)
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 12:40

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB1583-01	SB53 (15-17.5)	Solid	02/24/2025 10:08	02/25/2025
ABB1583-02	SB53 (20-22.5)	Solid	02/24/2025 10:26	02/25/2025

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 12:40

Sample Results

Sample: SB53 (15-17.5)

ABB1583-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	43	15	20	mg/kg	02/24/25 10:08	02/27/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	110	49	60	mg/kg	02/24/25 10:08	02/27/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/24/25 10:08	02/27/25	1	SW8015M	BB01787

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/04/2025 12:40

Sample Results

(Continued)

Sample: SB53 (20-22.5)

ABB1583-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	27	15	20	mg/kg	02/24/25 10:26	02/27/25	1	SW8015M	BB01787
TPH-ERO (Extended Range Organics)	53 J	49	60	mg/kg	02/24/25 10:26	02/27/25	1	SW8015M	BB01787
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/24/25 10:26	02/27/25	1	SW8015M	BB01787

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

METIRI
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134
Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

Company Name: PIONEER
Company Address:
City State Zip
Office Mobile Fax
Email Address: JHARTSOCK@PIONEERES.COM
Project ID / Location: 2080 S. LAKE SHORE Dr
Project Manager (Report to): JHARTSOCK
Sample Collector(s): JTH

TURNAROUND TIME REQUESTED
☐ Normal ☑ 1 Day ☐ RUSH*
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

PO #:
Report Type ☐ Normal ☐ Special
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method:

LAB USE ONLY
Work Order #:
Temperature of Received Samples: 1.4 °C
Received within 24 hours of collection? ☐ No ☑ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	1 DAY	HOLD	Lab Comment	LAB #
1	SB53 (15-17.5)	2/24/25	1008	SO		1	4oz(6)	NONE	X			
2	SB53 (20-22.5)	↓	1026	↓		↓	↓	↓		X		
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

ABB1583
Pioneer Environmental Services LLC

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate ($NaHSO_4$), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/25/25		2-25-25				
Received By ☐ Ice	Time 12:35	Received By ☐ Ice	Time 3:00	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES. Rev 2/17

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

March 06, 2025

Jake Hartsock
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Dr
ABB1632

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/26/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/06/2025 15:18

Notes and Definitions

Item	Definition
G	Refer to case narrative page for specific comment
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
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- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
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- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
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-VO: Insufficient Volume provided
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-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

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No duplication of this report is allowed, except in its entirety.

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/06/2025 15:18

Analysis Case Narrative

8015-TPH
Sample ABB1632-01: G = The spike added to the MS and MSD on this sample was insignificant compared to the native sample concentration. Recovery is not calculable.

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB1632-01	SB118E (10-12.5)	Solid	02/25/2025 10:00	02/26/2025
ABB1632-02	SB118E (12.5-15)	Solid	02/25/2025 10:17	02/26/2025
ABB1632-03	SB118F (10-12.5)	Solid	02/25/2025 13:44	02/26/2025
ABB1632-04	SB118F (15-17.5)	Solid	02/25/2025 13:59	02/26/2025
ABB1632-05	SB21J (10-12.5)	Solid	02/25/2025 14:33	02/26/2025
ABB1632-06	SB21J (12.5-15)	Solid	02/25/2025 14:44	02/26/2025
ABB1632-07	SB21J (17.5-20)	Solid	02/25/2025 15:01	02/26/2025

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/06/2025 15:18

Sample Results

Sample: SB118E (10-12.5)
ABB1632-01 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	6000 G	30	40	mg/kg	02/25/25 10:00	03/03/25	2	SW8015M	BB01863
TPH-ERO (Extended Range Organics)	2700	99	120	mg/kg	02/25/25 10:00	03/03/25	2	SW8015M	BB01863
TPH-GRO (Gasoline Range Organics)	ND	40	40	mg/kg	02/25/25 10:00	03/03/25	2	SW8015M	BB01863

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/06/2025 15:18

Sample Results

(Continued)

Sample: SB118E (12.5-15)

ABB1632-02 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	31	15	20	mg/kg	02/25/25 10:17	03/03/25	1	SW8015M	BB01863
TPH-ERO (Extended Range Organics)	ND	49	60	mg/kg	02/25/25 10:17	03/03/25	1	SW8015M	BB01863
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/25/25 10:17	03/03/25	1	SW8015M	BB01863

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/06/2025 15:18

Sample Results

(Continued)

Sample: SB118F (10-12.5)

ABB1632-03 (Solid)

Semivolatile Organics - Prep EPA 3550

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
TPH-DRO (Diesel Range Organics)	ND	15	20	mg/kg	02/25/25 13:44	03/03/25	1	SW8015M	BB01863
TPH-ERO (Extended Range Organics)	ND	49	60	mg/kg	02/25/25 13:44	03/03/25	1	SW8015M	BB01863
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/25/25 13:44	03/03/25	1	SW8015M	BB01863

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/06/2025 15:18

Sample Results

(Continued)

Sample: SB118F (15-17.5)

ABB1632-04 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	ND	15	20	mg/kg	02/25/25 13:59	03/03/25	1	SW8015M	BB01863
TPH-ERO (Extended Range Organics)	ND	49	60	mg/kg	02/25/25 13:59	03/03/25	1	SW8015M	BB01863
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/25/25 13:59	03/03/25	1	SW8015M	BB01863

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/06/2025 15:18

Sample Results

(Continued)

Sample: SB21J (10-12.5)

ABB1632-05 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	1900	15	20	mg/kg	02/25/25 14:33	03/03/25	1	SW8015M	BB01863
TPH-ERO (Extended Range Organics)	2200	49	60	mg/kg	02/25/25 14:33	03/03/25	1	SW8015M	BB01863
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/25/25 14:33	03/03/25	1	SW8015M	BB01863

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/06/2025 15:18

Sample Results

(Continued)

Sample: SB21J (12.5-15)

ABB1632-06 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	2500	15	20	mg/kg	02/25/25 14:44	03/03/25	1	SW8015M	BB01863
TPH-ERO (Extended Range Organics)	1500	49	60	mg/kg	02/25/25 14:44	03/03/25	1	SW8015M	BB01863
TPH-GRO (Gasoline Range Organics)	56	20	20	mg/kg	02/25/25 14:44	03/03/25	1	SW8015M	BB01863

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/06/2025 15:18

Sample Results

(Continued)

Sample: SB21J (17.5-20)

ABB1632-07 (Solid)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Semivolatile Organics - Prep EPA 3550									
TPH-DRO (Diesel Range Organics)	150	15	20	mg/kg	02/25/25 15:01	03/03/25	1	SW8015M	BB01863
TPH-ERO (Extended Range Organics)	100	49	60	mg/kg	02/25/25 15:01	03/03/25	1	SW8015M	BB01863
TPH-GRO (Gasoline Range Organics)	ND	20	20	mg/kg	02/25/25 15:01	03/03/25	1	SW8015M	BB01863

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METIRI
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134

CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Company Name: PIONEER
Company Address:
City: State: Zip:
Office: Mobile: Fax:
Email Address: SHARESCH@PIONEEREES.COM
Project ID / Location: 8080 S Lake Shore Dr
Project Manager (Report to): JAKE
Sample Collector(s): JIM

TURNAROUND TIME REQUESTED
☐ Normal ☐ RUSH*
2 Days
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page 1 of
PO #
Report Type ☐ Normal ☐ Special
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method

LAB USE ONLY
Work Order #
Temperature of Received Samples: 2 °C
Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TPH	Lab Comment	LAB #
1	SB118E (10-12.5)	2/25/25	1000	SO		1	4oz	NONE	X		
2	SB118E (12.5-15)	↓	1017	↓		↓	↓	↓	X		
3	SB118F (10-12.5)	↓	144	↓		↓	↓	↓	X		
4	SB118F (15-17.5)	↓	159	↓		↓	↓	↓	X		
5	SB21J (10-12.5)	↓	233	↓		↓	↓	↓	X		
6	SB21J (12.5-15)	↓	244	↓		↓	↓	↓	X		
7	SB21J (17.5-20)	↓	301	↓		↓	↓	↓	X		

ABB1632
Pioneer Environmental Services LLC
JB

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

T0115

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
[signature]	2/26/25	[signature]	2-26-25				
Received By [signature] ☐ Ice	Time 9:25	Received By [signature] ☐ Ice	Time 12:15	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/27/2025 11:52:36 AM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-265540-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

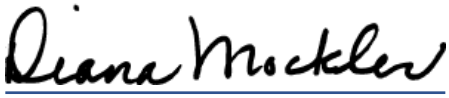
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
3/27/2025 11:52:36 AM

Authorized for release by
Diana Mockler, Project Manager I
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Receipt Checklists 23

Job ID: 500-265540-1 — Eurofins Chicago

Job Narrative
500-265540-1

Receipt
The samples were received on 3/20/2025 12:38 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The method blank for preparation batch 500-810724 and analytical batch 500-811158 contained DRO (C10-C28) above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 8015D: The method blank for preparation batch 500-810724 and analytical batch 500-811064 contained Diesel Range Organics [C10-C28] above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB61p (17.5-20) (500-265540-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method D2974-87:
A correction factor of 0.58 was applied to the calculation of FOC by nelson and sommers

SB78 (10-12.5) (500-265540-3), SB90 (0-3) (500-265540-4) and (500-265540-D-3 DU)

Method D2974-87: The sample duplicate precision for the following sample associated with (500-265540-D-3 DU) was outside control limits: (500-265540-D-3 DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265540-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61p (17.5-20) — Lab Sample ID: 500-265540-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	7.1		1.4		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	6400	B	480		mg/Kg	50	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	11000		960		mg/Kg	50	☼	8015D	Total/NA

Client Sample ID: SB61q (15-17.5) — Lab Sample ID: 500-265540-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	2.9		2.8		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	1700	B	150		mg/Kg	10	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	1600		310		mg/Kg	10	☼	8015D	Total/NA

Client Sample ID: SB78 (10-12.5) — Lab Sample ID: 500-265540-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	37		9.4		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	27		19		mg/Kg	1	☼	8015D	Total/NA
Organic Matter at 440 Deg(C)	1.4		0.10		%	1		D2974-87	Total/NA
FOC by Nelson and Sommers (0.58 factor)	0.79		0.058		%	1		D2974-87	Total/NA

Client Sample ID: SB90 (0-3) — Lab Sample ID: 500-265540-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	500	B	47		mg/Kg	5	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	280		94		mg/Kg	5	☼	8015D	Total/NA
Organic Matter at 440 Deg(C)	4.9		0.10		%	1		D2974-87	Total/NA
FOC by Nelson and Sommers (0.58 factor)	2.8		0.058		%	1		D2974-87	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265540-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
D2974-87	Ash Content	ASTM	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265540-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-265540-1	SB61p (17.5-20)	Solid	03/19/25 09:58	03/20/25 12:38
500-265540-2	SB61q (15-17.5)	Solid	03/19/25 10:24	03/20/25 12:38
500-265540-3	SB78 (10-12.5)	Solid	03/19/25 12:36	03/20/25 12:38
500-265540-4	SB90 (0-3)	Solid	03/19/25 12:52	03/20/25 12:38

Client Sample ID: SB61p (17.5-20)
Lab Sample ID: 500-265540-1

Date Collected: 03/19/25 09:58
Matrix: Solid

Date Received: 03/20/25 12:38
Percent Solids: 81.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	7.1		1.4		mg/Kg	☼	03/19/25 09:58	03/25/25 13:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*03/19/25 09:58*	*03/25/25 13:11*	*50*
4-Bromofluorobenzene	*104*		*60 - 130*	*03/19/25 09:58*	*03/25/25 13:11*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	6400	B	480		mg/Kg	☼	03/21/25 07:46	03/25/25 00:10	50
Oil Range Organics (C28-C36)	11000		960		mg/Kg	☼	03/21/25 07:46	03/25/25 00:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*03/21/25 07:46*	*03/25/25 00:10*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*03/21/25 07:46*	*03/25/25 00:10*	*50*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265540-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61q (15-17.5)
Lab Sample ID: 500-265540-2

Date Collected: 03/19/25 10:24
Matrix: Solid

Date Received: 03/20/25 12:38
Percent Solids: 53.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	2.9		2.8		mg/Kg	☼	03/19/25 10:24	03/25/25 14:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*70 - 130*	*03/19/25 10:24*	*03/25/25 14:49*	*50*
4-Bromofluorobenzene	*106*		*60 - 130*	*03/19/25 10:24*	*03/25/25 14:49*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1700	B	150		mg/Kg	☼	03/21/25 07:46	03/25/25 00:33	10
Oil Range Organics (C28-C36)	1600		310		mg/Kg	☼	03/21/25 07:46	03/25/25 00:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*222*	*S1+*	*50 - 126*	*03/21/25 07:46*	*03/25/25 00:33*	*10*
2-Fluorobiphenyl (Surr)	*86*		*40 - 133*	*03/21/25 07:46*	*03/25/25 00:33*	*10*

Client Sample ID: SB78 (10-12.5)
Lab Sample ID: 500-265540-3

Date Collected: 03/19/25 12:36
Matrix: Solid

Date Received: 03/20/25 12:38
Percent Solids: 85.4

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.88		0.88		mg/Kg	☼	03/19/25 12:36	03/25/25 15:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*70 - 130*	*03/19/25 12:36*	*03/25/25 15:22*	*50*
4-Bromofluorobenzene	*106*		*60 - 130*	*03/19/25 12:36*	*03/25/25 15:22*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**37**		9.4		mg/Kg	☼	03/25/25 15:16	03/26/25 18:48	1
Oil Range Organics (C28-C36)	**27**		19		mg/Kg	☼	03/25/25 15:16	03/26/25 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*88*		*50 - 126*	*03/25/25 15:16*	*03/26/25 18:48*	*1*
2-Fluorobiphenyl (Surr)	*78*		*40 - 133*	*03/25/25 15:16*	*03/26/25 18:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Organic Matter at 440 Deg(C) (ASTM D2974-87)	**1.4**		0.10		%			03/25/25 13:06	1
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	**0.79**		0.058		%			03/25/25 13:06	1

Client Sample ID: SB90 (0-3)
Lab Sample ID: 500-265540-4

Date Collected: 03/19/25 12:52
Matrix: Solid
Date Received: 03/20/25 12:38
Percent Solids: 83.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.5		1.5		mg/Kg	☼	03/18/25 12:52	03/25/25 15:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*03/18/25 12:52*	*03/25/25 15:55*	*50*
4-Bromofluorobenzene	*103*		*60 - 130*	*03/18/25 12:52*	*03/25/25 15:55*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**500**	**B**	47		mg/Kg	☼	03/21/25 07:46	03/25/25 20:54	5
Oil Range Organics (C28-C36)	**280**		94		mg/Kg	☼	03/21/25 07:46	03/25/25 20:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*103*		*50 - 126*	*03/21/25 07:46*	*03/25/25 20:54*	*5*
2-Fluorobiphenyl (Surr)	*75*		*40 - 133*	*03/21/25 07:46*	*03/25/25 20:54*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Organic Matter at 440 Deg(C) (ASTM D2974-87)	**4.9**		0.10		%			03/25/25 13:06	1
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	**2.8**		0.058		%			03/25/25 13:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265540-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC VOA

Prep Batch: 810865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265540-1	SB61p (17.5-20)	Total/NA	Solid	5035	
500-265540-2	SB61q (15-17.5)	Total/NA	Solid	5035	
500-265540-3	SB78 (10-12.5)	Total/NA	Solid	5035	
500-265540-4	SB90 (0-3)	Total/NA	Solid	5035	
500-265540-1 MS	SB61p (17.5-20)	Total/NA	Solid	5035	
500-265540-1 MSD	SB61p (17.5-20)	Total/NA	Solid	5035	

Analysis Batch: 811117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265540-1	SB61p (17.5-20)	Total/NA	Solid	8015D	810865
500-265540-2	SB61q (15-17.5)	Total/NA	Solid	8015D	810865
500-265540-3	SB78 (10-12.5)	Total/NA	Solid	8015D	810865
500-265540-4	SB90 (0-3)	Total/NA	Solid	8015D	810865
MB 500-811117/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-811117/5	Lab Control Sample	Total/NA	Solid	8015D	
500-265540-1 MS	SB61p (17.5-20)	Total/NA	Solid	8015D	810865
500-265540-1 MSD	SB61p (17.5-20)	Total/NA	Solid	8015D	810865

GC Semi VOA

Prep Batch: 810724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265540-1	SB61p (17.5-20)	Total/NA	Solid	3541	
500-265540-2	SB61q (15-17.5)	Total/NA	Solid	3541	
500-265540-4	SB90 (0-3)	Total/NA	Solid	3541	
MB 500-810724/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-810724/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-265540-4 MS	SB90 (0-3)	Total/NA	Solid	3541	
500-265540-4 MSD	SB90 (0-3)	Total/NA	Solid	3541	

Analysis Batch: 811064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265540-1	SB61p (17.5-20)	Total/NA	Solid	8015D	810724
500-265540-2	SB61q (15-17.5)	Total/NA	Solid	8015D	810724
MB 500-810724/1-A	Method Blank	Total/NA	Solid	8015D	810724
LCS 500-810724/2-A	Lab Control Sample	Total/NA	Solid	8015D	810724

Analysis Batch: 811158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265540-4	SB90 (0-3)	Total/NA	Solid	8015D	810724
MB 500-810724/1-A	Method Blank	Total/NA	Solid	8015D	810724
500-265540-4 MS	SB90 (0-3)	Total/NA	Solid	8015D	810724
500-265540-4 MSD	SB90 (0-3)	Total/NA	Solid	8015D	810724

Prep Batch: 811215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265540-3	SB78 (10-12.5)	Total/NA	Solid	3541	
MB 500-811215/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-811215/2-A	Lab Control Sample	Total/NA	Solid	3541	

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265540-1
Project/Site: 8080 District (24-0124-103)

GC Semi VOA

Analysis Batch: 811370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265540-3	SB78 (10-12.5)	Total/NA	Solid	8015D	811215
MB 500-811215/1-A	Method Blank	Total/NA	Solid	8015D	811215
LCS 500-811215/2-A	Lab Control Sample	Total/NA	Solid	8015D	811215

General Chemistry

Analysis Batch: 810857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265540-1	SB61p (17.5-20)	Total/NA	Solid	Moisture	
500-265540-2	SB61q (15-17.5)	Total/NA	Solid	Moisture	
500-265540-3	SB78 (10-12.5)	Total/NA	Solid	Moisture	
500-265540-4	SB90 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 811178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265540-3	SB78 (10-12.5)	Total/NA	Solid	D2974-87	
500-265540-4	SB90 (0-3)	Total/NA	Solid	D2974-87	
500-265540-3 DU	SB78 (10-12.5)	Total/NA	Solid	D2974-87	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265540-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-265540-1	SB61p (17.5-20)	96	104
500-265540-1 MS	SB61p (17.5-20)	101	104
500-265540-1 MSD	SB61p (17.5-20)	102	106
500-265540-2	SB61q (15-17.5)	99	106
500-265540-3	SB78 (10-12.5)	100	106
500-265540-4	SB90 (0-3)	96	103
LCS 500-811117/5	Lab Control Sample	102	108
MB 500-811117/6	Method Blank	94	100

Surrogate Legend

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-265540-1	SB61p (17.5-20)	0 S1-	0 S1-
500-265540-2	SB61q (15-17.5)	222 S1+	86
500-265540-3	SB78 (10-12.5)	88	78
500-265540-4	SB90 (0-3)	103	75
500-265540-4 MS	SB90 (0-3)	113	89
500-265540-4 MSD	SB90 (0-3)	121	98
LCS 500-810724/2-A	Lab Control Sample	96	98
LCS 500-811215/2-A	Lab Control Sample	98	107
MB 500-810724/1-A	Method Blank	117	115
MB 500-810724/1-A	Method Blank	123	125
MB 500-811215/1-A	Method Blank	93	96

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 500-265540-1 MS
Matrix: Solid
Analysis Batch: 811117

Client Sample ID: SB61p (17.5-20)
Prep Type: Total/NA
Prep Batch: 810865

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	7.1		28.0	34.9		mg/Kg	☼	99	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*101*		*70 - 130*
4-Bromofluorobenzene	*104*		*60 - 130*

Lab Sample ID: 500-265540-1 MSD
Matrix: Solid
Analysis Batch: 811117

Client Sample ID: SB61p (17.5-20)
Prep Type: Total/NA
Prep Batch: 810865

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C6-C9)	7.1		28.0	31.0		mg/Kg	☼	85	70 - 130	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*102*		*70 - 130*
4-Bromofluorobenzene	*106*		*60 - 130*

Lab Sample ID: MB 500-811117/6
Matrix: Solid
Analysis Batch: 811117

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			03/25/25 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*70 - 130*		*03/25/25 12:38*	*1*
4-Bromofluorobenzene	*100*		*60 - 130*		*03/25/25 12:38*	*1*

Lab Sample ID: LCS 500-811117/5
Matrix: Solid
Analysis Batch: 811117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	0.397	0.339		mg/Kg		85	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*102*		*70 - 130*
4-Bromofluorobenzene	*108*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-810724/1-A
Matrix: Solid
Analysis Batch: 811064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 810724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9.74		8.3		mg/Kg		03/21/25 07:46	03/24/25 18:05	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		03/21/25 07:46	03/24/25 18:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*117*		*50 - 126*	*03/21/25 07:46*	*03/24/25 18:05*	*1*
2-Fluorobiphenyl (Surr)	*115*		*40 - 133*	*03/21/25 07:46*	*03/24/25 18:05*	*1*

Lab Sample ID: MB 500-810724/1-A
Matrix: Solid
Analysis Batch: 811158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 810724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9.91		8.3		mg/Kg		03/21/25 07:46	03/25/25 13:20	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		03/21/25 07:46	03/25/25 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*123*		*50 - 126*	*03/21/25 07:46*	*03/25/25 13:20*	*1*
2-Fluorobiphenyl (Surr)	*125*		*40 - 133*	*03/21/25 07:46*	*03/25/25 13:20*	*1*

Lab Sample ID: LCS 500-810724/2-A
Matrix: Solid
Analysis Batch: 811064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 810724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	62.2		mg/Kg		93	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*96*		*50 - 126*
2-Fluorobiphenyl (Surr)	*98*		*40 - 133*

Lab Sample ID: 500-265540-4 MS
Matrix: Solid
Analysis Batch: 811158

Client Sample ID: SB90 (0-3)
Prep Type: Total/NA
Prep Batch: 810724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	500	B	78.4	462	4	mg/Kg	☼	-48	60 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*113*		*50 - 126*
2-Fluorobiphenyl (Surr)	*89*		*40 - 133*

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 500-265540-4 MSD
Matrix: Solid
Analysis Batch: 811158

Client Sample ID: SB90 (0-3)
Prep Type: Total/NA
Prep Batch: 810724

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	500	B	76.5	541	4	mg/Kg	☼	54	60 - 125	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*121*		*50 - 126*
2-Fluorobiphenyl (Surr)	*98*		*40 - 133*

Lab Sample ID: MB 500-811215/1-A
Matrix: Solid
Analysis Batch: 811370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 811215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		03/25/25 15:16	03/26/25 16:31	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		03/25/25 15:16	03/26/25 16:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*93*		*50 - 126*	*03/25/25 15:16*	*03/26/25 16:31*	*1*
2-Fluorobiphenyl (Surr)	*96*		*40 - 133*	*03/25/25 15:16*	*03/26/25 16:31*	*1*

Lab Sample ID: LCS 500-811215/2-A
Matrix: Solid
Analysis Batch: 811370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 811215

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	61.1		mg/Kg		92	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*98*		*50 - 126*
2-Fluorobiphenyl (Surr)	*107*		*40 - 133*

Method: D2974-87 - Ash Content

Lab Sample ID: 500-265540-3 DU
Matrix: Solid
Analysis Batch: 811178

Client Sample ID: SB78 (10-12.5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Organic Matter at 440 Deg(C)	1.4			1.83	F3	%				29	20
FOC by Nelson and Sommers (0.58 factor)	0.79			1.06	F3	%				29	20

Client Sample ID: SB61p (17.5-20)
Lab Sample ID: 500-265540-1
Date Collected: 03/19/25 09:58
Matrix: Solid
Date Received: 03/20/25 12:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	810857	ST	EET CHI	03/21/25 15:11

Client Sample ID: SB61p (17.5-20)
Lab Sample ID: 500-265540-1
Date Collected: 03/19/25 09:58
Matrix: Solid
Date Received: 03/20/25 12:38
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			810865	KP	EET CHI	03/19/25 09:58
Total/NA	Analysis	8015D		50	811117	KP	EET CHI	03/25/25 13:11
Total/NA	Prep	3541			810724	FRG	EET CHI	03/21/25 07:46 - 03/21/25 11:25 [1]
Total/NA	Analysis	8015D		50	811064	EK	EET CHI	03/25/25 00:10

Client Sample ID: SB61q (15-17.5)
Lab Sample ID: 500-265540-2
Date Collected: 03/19/25 10:24
Matrix: Solid
Date Received: 03/20/25 12:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	810857	ST	EET CHI	03/21/25 15:11

Client Sample ID: SB61q (15-17.5)
Lab Sample ID: 500-265540-2
Date Collected: 03/19/25 10:24
Matrix: Solid
Date Received: 03/20/25 12:38
Percent Solids: 53.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			810865	KP	EET CHI	03/19/25 10:24
Total/NA	Analysis	8015D		50	811117	KP	EET CHI	03/25/25 14:49
Total/NA	Prep	3541			810724	FRG	EET CHI	03/21/25 07:46 - 03/21/25 11:25 [1]
Total/NA	Analysis	8015D		10	811064	EK	EET CHI	03/25/25 00:33

Client Sample ID: SB78 (10-12.5)
Lab Sample ID: 500-265540-3
Date Collected: 03/19/25 12:36
Matrix: Solid
Date Received: 03/20/25 12:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	811178	ST	EET CHI	03/25/25 13:06
Total/NA	Analysis	Moisture		1	810857	ST	EET CHI	03/21/25 15:11

Client Sample ID: SB78 (10-12.5)
Lab Sample ID: 500-265540-3
Date Collected: 03/19/25 12:36
Matrix: Solid
Date Received: 03/20/25 12:38
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			810865	KP	EET CHI	03/19/25 12:36
Total/NA	Analysis	8015D		50	811117	KP	EET CHI	03/25/25 15:22
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		1	811370	H7CM	EET CHI	03/26/25 18:48

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265540-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB90 (0-3)
Lab Sample ID: 500-265540-4
Date Collected: 03/19/25 12:52
Matrix: Solid
Date Received: 03/20/25 12:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	811178	ST	EET CHI	03/25/25 13:06
Total/NA	Analysis	Moisture		1	810857	ST	EET CHI	03/21/25 15:11

Client Sample ID: SB90 (0-3)
Lab Sample ID: 500-265540-4
Date Collected: 03/19/25 12:52
Matrix: Solid
Date Received: 03/20/25 12:38
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			810865	KP	EET CHI	03/18/25 12:52
Total/NA	Analysis	8015D		50	811117	KP	EET CHI	03/25/25 15:55
Total/NA	Prep	3541			810724	FRG	EET CHI	03/21/25 07:46 - 03/21/25 11:25 [1]
Total/NA	Analysis	8015D		5	811158	H7CM	EET CHI	03/25/25 20:54

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265540-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
D2974-87		Solid	FOC by Nelson and Sommers (0.58 factor)
D2974-87		Solid	Organic Matter at 440 Deg(C)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 731261

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact:	Date:	COC No 1 of 1 COCs
Company Name Pioneer	Tel/Email: Jhartsock@pioneereng.com	Lab Contact:	Carrier:	Sampler
Address 2703 W. 31st St.	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Chicago, IL, 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below 5 day			Lab Sampling
Fax	☐ 2 weeks			
Project Name 2030 S Lake Shore Drive	☐ 1 week			Job / SDG No 500-265538
Site	☐ 2 days			
PO # 24-0124-103	☐ 1 day			

500-265540 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPH	VOC	Sample Specific Notes
1 SB01D (17.5-20)	3/19/25	9:56am	G	S	2			X		
2 SB01D (15-17.5)		10:24am			2			X		
3 SB78 (10-12.5)		12:36pm			4			XX		total TPH detection limit <29 mg/kg
4 SB90 (0-3)		12:52pm			4			XX		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 1.6 Corr'd 1.3 | Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	Pioneer	3/20/25	Received by Isaiah Medley	EETA	3/20/25 1150
Relinquished by Isaiah Medley	EETA	3/20/25 1238	Received by		
Relinquished by			Received in Laboratory by	EETA	3/20/25 1238

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-265540-1

Login Number: 265540
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/31/2025 11:20:18 AM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-265641-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/31/2025 11:20:18 AM

Authorized for release by
Sandie Fredrick, Senior Project Manager
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Designee for
Jim Knapp, Senior Project Manager
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Job ID: 500-265641-1 — Eurofins Chicago

Job Narrative
500-265641-1

Receipt
The samples were received on 3/21/2025 4:52 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -0.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB21N (10-15) (500-265641-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21K (10-15) — Lab Sample ID: 500-265641-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	16		9.8		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB21L (10-15) — Lab Sample ID: 500-265641-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	14		11		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB21M (10-15) — Lab Sample ID: 500-265641-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	13		9.3		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB21N (10-15) — Lab Sample ID: 500-265641-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	630		120		mg/Kg	5000	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	66000		2300		mg/Kg	100	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	25000		4700		mg/Kg	100	☼	8015D	Total/NA

Client Sample ID: SB21O (10-15) — Lab Sample ID: 500-265641-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	19		9.8		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	36		20		mg/Kg	1	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-265641-1	SB21K (10-15)	Solid	03/19/25 00:00	03/21/25 16:52
500-265641-2	SB21L (10-15)	Solid	03/19/25 00:00	03/21/25 16:52
500-265641-3	SB21M (10-15)	Solid	03/19/25 00:00	03/21/25 16:52
500-265641-4	SB21N (10-15)	Solid	03/19/25 00:00	03/21/25 16:52
500-265641-5	SB21O (10-15)	Solid	03/20/25 00:00	03/21/25 16:52

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21K (10-15)
Lab Sample ID: 500-265641-1
Date Collected: 03/19/25 00:00
Matrix: Solid
Date Received: 03/21/25 16:52
Percent Solids: 79.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg	☼	03/19/25 00:00	03/27/25 19:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*03/19/25 00:00*	*03/27/25 19:09*	*50*
4-Bromofluorobenzene	*104*		*60 - 130*	*03/19/25 00:00*	*03/27/25 19:09*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**16**		9.8		mg/Kg	☼	03/25/25 15:16	03/26/25 19:11	1
Oil Range Organics (C28-C36)	<20		20		mg/Kg	☼	03/25/25 15:16	03/26/25 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*79*		*50 - 126*	*03/25/25 15:16*	*03/26/25 19:11*	*1*
2-Fluorobiphenyl (Surr)	*65*		*40 - 133*	*03/25/25 15:16*	*03/26/25 19:11*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21L (10-15)
Lab Sample ID: 500-265641-2
Date Collected: 03/19/25 00:00
Matrix: Solid
Date Received: 03/21/25 16:52
Percent Solids: 76.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.5		1.5		mg/Kg	☼	03/19/25 00:00	03/27/25 19:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*70 - 130*	*03/19/25 00:00*	*03/27/25 19:41*	*50*
4-Bromofluorobenzene	*107*		*60 - 130*	*03/19/25 00:00*	*03/27/25 19:41*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14**		11		mg/Kg	☼	03/25/25 15:16	03/26/25 19:34	1
Oil Range Organics (C28-C36)	<22		22		mg/Kg	☼	03/25/25 15:16	03/26/25 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*50 - 126*	*03/25/25 15:16*	*03/26/25 19:34*	*1*
2-Fluorobiphenyl (Surr)	*58*		*40 - 133*	*03/25/25 15:16*	*03/26/25 19:34*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21M (10-15)
Lab Sample ID: 500-265641-3
Date Collected: 03/19/25 00:00
Matrix: Solid
Date Received: 03/21/25 16:52
Percent Solids: 88.8

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.1		1.1		mg/Kg	☼	03/19/25 00:00	03/27/25 20:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*03/19/25 00:00*	*03/27/25 20:14*	*50*
4-Bromofluorobenzene	*104*		*60 - 130*	*03/19/25 00:00*	*03/27/25 20:14*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13**		9.3		mg/Kg	☼	03/25/25 15:16	03/26/25 19:57	1
Oil Range Organics (C28-C36)	<19		19		mg/Kg	☼	03/25/25 15:16	03/26/25 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*88*		*50 - 126*	*03/25/25 15:16*	*03/26/25 19:57*	*1*
2-Fluorobiphenyl (Surr)	*64*		*40 - 133*	*03/25/25 15:16*	*03/26/25 19:57*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21N (10-15)
Lab Sample ID: 500-265641-4
Date Collected: 03/19/25 00:00
Matrix: Solid
Date Received: 03/21/25 16:52
Percent Solids: 90.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	630		120		mg/Kg	☼	03/19/25 00:00	03/27/25 20:47	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*70 - 130*	*03/19/25 00:00*	*03/27/25 20:47*	*5000*
4-Bromofluorobenzene	*94*		*60 - 130*	*03/19/25 00:00*	*03/27/25 20:47*	*5000*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	66000		2300		mg/Kg	☼	03/25/25 15:16	03/26/25 21:05	100
Oil Range Organics (C28-C36)	25000		4700		mg/Kg	☼	03/25/25 15:16	03/26/25 21:05	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*03/25/25 15:16*	*03/26/25 21:05*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*03/25/25 15:16*	*03/26/25 21:05*	*100*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21O (10-15)
Lab Sample ID: 500-265641-5

Date Collected: 03/20/25 00:00
Matrix: Solid

Date Received: 03/21/25 16:52
Percent Solids: 83.8

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.2		1.2		mg/Kg	☼	03/20/25 00:00	03/27/25 21:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*70 - 130*	*03/20/25 00:00*	*03/27/25 21:19*	*50*
4-Bromofluorobenzene	*99*		*60 - 130*	*03/20/25 00:00*	*03/27/25 21:19*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**19**		9.8		mg/Kg	☼	03/25/25 15:16	03/26/25 21:28	1
Oil Range Organics (C28-C36)	**36**		20		mg/Kg	☼	03/25/25 15:16	03/26/25 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*81*		*50 - 126*	*03/25/25 15:16*	*03/26/25 21:28*	*1*
2-Fluorobiphenyl (Surr)	*71*		*40 - 133*	*03/25/25 15:16*	*03/26/25 21:28*	*1*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

GC VOA

Prep Batch: 811164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265641-1	SB21K (10-15)	Total/NA	Solid	5035	
500-265641-2	SB21L (10-15)	Total/NA	Solid	5035	
500-265641-3	SB21M (10-15)	Total/NA	Solid	5035	
500-265641-4	SB21N (10-15)	Total/NA	Solid	5035	
500-265641-5	SB21O (10-15)	Total/NA	Solid	5035	

Analysis Batch: 811439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265641-1	SB21K (10-15)	Total/NA	Solid	8015D	811164
500-265641-2	SB21L (10-15)	Total/NA	Solid	8015D	811164
500-265641-3	SB21M (10-15)	Total/NA	Solid	8015D	811164
500-265641-4	SB21N (10-15)	Total/NA	Solid	8015D	811164
500-265641-5	SB21O (10-15)	Total/NA	Solid	8015D	811164
MB 500-811439/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-811439/5	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 811215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265641-1	SB21K (10-15)	Total/NA	Solid	3541	
500-265641-2	SB21L (10-15)	Total/NA	Solid	3541	
500-265641-3	SB21M (10-15)	Total/NA	Solid	3541	
500-265641-4	SB21N (10-15)	Total/NA	Solid	3541	
500-265641-5	SB21O (10-15)	Total/NA	Solid	3541	
MB 500-811215/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-811215/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 811370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265641-1	SB21K (10-15)	Total/NA	Solid	8015D	811215
500-265641-2	SB21L (10-15)	Total/NA	Solid	8015D	811215
500-265641-3	SB21M (10-15)	Total/NA	Solid	8015D	811215
500-265641-4	SB21N (10-15)	Total/NA	Solid	8015D	811215
500-265641-5	SB21O (10-15)	Total/NA	Solid	8015D	811215
MB 500-811215/1-A	Method Blank	Total/NA	Solid	8015D	811215
LCS 500-811215/2-A	Lab Control Sample	Total/NA	Solid	8015D	811215

General Chemistry

Analysis Batch: 811132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265641-1	SB21K (10-15)	Total/NA	Solid	Moisture	
500-265641-3	SB21M (10-15)	Total/NA	Solid	Moisture	
500-265641-4	SB21N (10-15)	Total/NA	Solid	Moisture	
500-265641-5	SB21O (10-15)	Total/NA	Solid	Moisture	

Analysis Batch: 811303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265641-2	SB21L (10-15)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-265641-1	SB21K (10-15)	95	104
500-265641-2	SB21L (10-15)	97	107
500-265641-3	SB21M (10-15)	96	104
500-265641-4	SB21N (10-15)	88	94
500-265641-5	SB21O (10-15)	90	99
LCS 500-811439/5	Lab Control Sample	105	108
MB 500-811439/6	Method Blank	90	98

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-265641-1	SB21K (10-15)	79	65
500-265641-2	SB21L (10-15)	76	58
500-265641-3	SB21M (10-15)	88	64
500-265641-4	SB21N (10-15)	0 S1-	0 S1-
500-265641-5	SB21O (10-15)	81	71
LCS 500-811215/2-A	Lab Control Sample	98	107
MB 500-811215/1-A	Method Blank	93	96

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-811439/6
Matrix: Solid
Analysis Batch: 811439

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			03/27/25 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*70 - 130*		*03/27/25 11:29*	*1*
4-Bromofluorobenzene	*98*		*60 - 130*		*03/27/25 11:29*	*1*

Lab Sample ID: LCS 500-811439/5
Matrix: Solid
Analysis Batch: 811439

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			0.397	0.347		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*70 - 130*
4-Bromofluorobenzene	*108*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-811215/1-A
Matrix: Solid
Analysis Batch: 811370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 811215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		03/25/25 15:16	03/26/25 16:31	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		03/25/25 15:16	03/26/25 16:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*93*		*50 - 126*	*03/25/25 15:16*	*03/26/25 16:31*	*1*
2-Fluorobiphenyl (Surr)	*96*		*40 - 133*	*03/25/25 15:16*	*03/26/25 16:31*	*1*

Lab Sample ID: LCS 500-811215/2-A
Matrix: Solid
Analysis Batch: 811370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 811215

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	61.1		mg/Kg		92	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*98*		*50 - 126*
2-Fluorobiphenyl (Surr)	*107*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21K (10-15)
Lab Sample ID: 500-265641-1
Date Collected: 03/19/25 00:00
Matrix: Solid
Date Received: 03/21/25 16:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811132	ST	EET CHI	03/25/25 09:47

Client Sample ID: SB21K (10-15)
Lab Sample ID: 500-265641-1
Date Collected: 03/19/25 00:00
Matrix: Solid
Date Received: 03/21/25 16:52
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811164	KP	EET CHI	03/19/25 00:00
Total/NA	Analysis	8015D		50	811439	KP	EET CHI	03/27/25 19:09
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		1	811370	H7CM	EET CHI	03/26/25 19:11

Client Sample ID: SB21L (10-15)
Lab Sample ID: 500-265641-2
Date Collected: 03/19/25 00:00
Matrix: Solid
Date Received: 03/21/25 16:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811303	ST	EET CHI	03/26/25 10:12

Client Sample ID: SB21L (10-15)
Lab Sample ID: 500-265641-2
Date Collected: 03/19/25 00:00
Matrix: Solid
Date Received: 03/21/25 16:52
Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811164	KP	EET CHI	03/19/25 00:00
Total/NA	Analysis	8015D		50	811439	KP	EET CHI	03/27/25 19:41
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		1	811370	H7CM	EET CHI	03/26/25 19:34

Client Sample ID: SB21M (10-15)
Lab Sample ID: 500-265641-3
Date Collected: 03/19/25 00:00
Matrix: Solid
Date Received: 03/21/25 16:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811132	ST	EET CHI	03/25/25 09:47

Client Sample ID: SB21M (10-15)
Lab Sample ID: 500-265641-3
Date Collected: 03/19/25 00:00
Matrix: Solid
Date Received: 03/21/25 16:52
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811164	KP	EET CHI	03/19/25 00:00
Total/NA	Analysis	8015D		50	811439	KP	EET CHI	03/27/25 20:14
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		1	811370	H7CM	EET CHI	03/26/25 19:57

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-265641-1

Client Sample ID: SB21N (10-15)
Date Collected: 03/19/25 00:00
Date Received: 03/21/25 16:52

Lab Sample ID: 500-265641-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811132	ST	EET CHI	03/25/25 09:47

Client Sample ID: SB21N (10-15)
Date Collected: 03/19/25 00:00
Date Received: 03/21/25 16:52

Lab Sample ID: 500-265641-4
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811164	KP	EET CHI	03/19/25 00:00
Total/NA	Analysis	8015D		5000	811439	KP	EET CHI	03/27/25 20:47
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		100	811370	H7CM	EET CHI	03/26/25 21:05

Client Sample ID: SB21O (10-15)
Date Collected: 03/20/25 00:00
Date Received: 03/21/25 16:52

Lab Sample ID: 500-265641-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811132	ST	EET CHI	03/25/25 09:47

Client Sample ID: SB21O (10-15)
Date Collected: 03/20/25 00:00
Date Received: 03/21/25 16:52

Lab Sample ID: 500-265641-5
Matrix: Solid
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811164	KP	EET CHI	03/20/25 00:00
Total/NA	Analysis	8015D		50	811439	KP	EET CHI	03/27/25 21:19
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		1	811370	H7CM	EET CHI	03/26/25 21:28

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265641-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734278

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager.	Site Contact:	Date:	COC No
Company Name PIONEER	Tel/Email:	Lab Contact	Carrier:	1 of 1 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below			Walk-in Client
Fax	☐ 2 weeks STAND			Lab Sampling
Project Name 8080 S LAKE SHORE DR	☐ 1 week		500-265641 COC	
Site	☐ 2 days			Job / SDG No
P O #	☐ 1 day			500-265641

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TPH	Sample Specific Notes
1	SB21K (10-15)	3/19/25		G	SO	2			X	
2	SB21L (10-15)	↓		↓	↓	↓			X	
3	SB21M (10-15)	↓		↓	↓	↓			X	
4	SB21N (10-15)	↓		↓	↓	↓			X	
5	SB21O (10-15)	3/20/25		↓	↓	↓			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd -0.1 Corr'd -0.7 48qt Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	3/21/25	Isaiah Melley	EETA	3/21/25 1515
Isaiah Melley	EETA	3/21/25 1652			
			Received in Laboratory by: Stephanie Hernandez	EETA	3/21/25 1652

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-265641-1

Login Number: 265641
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-0.7 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/31/2025 1:04:11 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-265642-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/31/2025 1:04:11 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
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Designee for
Jim Knapp, Senior Project Manager
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Job ID: 500-265642-1 — Eurofins Chicago

Job Narrative
500-265642-1

Receipt
The samples were received on 3/21/2025 4:52 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -0.7º C.

GC/MS VOA
Method 8015D: Surrogate recovery for the following sample was outside control limits: SB141a (7.5-10) (500-265642-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB141a (7.5-10) (500-265642-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015D: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB141a (7.5-10) (500-265642-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265642-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB141a (7.5-10) — Lab Sample ID: 500-265642-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	54		1.3		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	1900		190		mg/Kg	20	☼	8015D	Total/NA

Client Sample ID: SB141a (10-12.5) — Lab Sample ID: 500-265642-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	3.2		1.6		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	36		11		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB141b (5-7.5) — Lab Sample ID: 500-265642-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	190		14		mg/Kg	500	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	110		46		mg/Kg	5	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	130		93		mg/Kg	5	☼	8015D	Total/NA

Client Sample ID: SB141b (12.5-15) — Lab Sample ID: 500-265642-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	17		9.5		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB141c (5-7.5) — Lab Sample ID: 500-265642-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	18		1.1		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	14		9.5		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB141c (7.5-10) — Lab Sample ID: 500-265642-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	63		3.4		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	160		100		mg/Kg	5	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	410		200		mg/Kg	5	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265642-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265642-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-265642-1	SB141a (7.5-10)	Solid	03/20/25 10:30	03/21/25 16:52
500-265642-2	SB141a (10-12.5)	Solid	03/20/25 10:47	03/21/25 16:52
500-265642-3	SB141b (5-7.5)	Solid	03/20/25 11:01	03/21/25 16:52
500-265642-4	SB141b (12.5-15)	Solid	03/20/25 11:15	03/21/25 16:52
500-265642-5	SB141c (5-7.5)	Solid	03/20/25 11:43	03/21/25 16:52
500-265642-6	SB141c (7.5-10)	Solid	03/20/25 12:02	03/21/25 16:52

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265642-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB141a (7.5-10)
Lab Sample ID: 500-265642-1
Date Collected: 03/20/25 10:30
Matrix: Solid
Date Received: 03/21/25 16:52
Percent Solids: 85.7

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	54		1.3		mg/Kg	☼	03/25/25 08:58	03/27/25 13:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*70 - 130*	*03/25/25 08:58*	*03/27/25 13:08*	*50*
4-Bromofluorobenzene	*0*	*S1-*	*60 - 130*	*03/25/25 08:58*	*03/27/25 13:08*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1900		190		mg/Kg	☼	03/25/25 15:16	03/27/25 16:57	20
Oil Range Organics (C28-C36)	<380		380		mg/Kg	☼	03/25/25 15:16	03/27/25 16:57	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*03/25/25 15:16*	*03/27/25 16:57*	*20*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*03/25/25 15:16*	*03/27/25 16:57*	*20*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265642-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB141a (10-12.5)
Lab Sample ID: 500-265642-2

Date Collected: 03/20/25 10:47
Matrix: Solid

Date Received: 03/21/25 16:52
Percent Solids: 74.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	3.2		1.6		mg/Kg	☼	03/25/25 08:58	03/27/25 14:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*70 - 130*	*03/25/25 08:58*	*03/27/25 14:46*	*50*
4-Bromofluorobenzene	*100*		*60 - 130*	*03/25/25 08:58*	*03/27/25 14:46*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	36		11		mg/Kg	☼	03/25/25 15:16	03/26/25 22:13	1
Oil Range Organics (C28-C36)	<22		22		mg/Kg	☼	03/25/25 15:16	03/26/25 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*77*		*50 - 126*	*03/25/25 15:16*	*03/26/25 22:13*	*1*
2-Fluorobiphenyl (Surr)	*65*		*40 - 133*	*03/25/25 15:16*	*03/26/25 22:13*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265642-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB141b (5-7.5)
Lab Sample ID: 500-265642-3

Date Collected: 03/20/25 11:01
Matrix: Solid

Date Received: 03/21/25 16:52
Percent Solids: 88.1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	190		14		mg/Kg	☼	03/25/25 08:58	03/28/25 23:07	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*70 - 130*	*03/25/25 08:58*	*03/28/25 23:07*	*500*
4-Bromofluorobenzene	*101*		*60 - 130*	*03/25/25 08:58*	*03/28/25 23:07*	*500*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110		46		mg/Kg	☼	03/25/25 15:16	03/26/25 22:36	5
Oil Range Organics (C28-C36)	130		93		mg/Kg	☼	03/25/25 15:16	03/26/25 22:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*94*		*50 - 126*	*03/25/25 15:16*	*03/26/25 22:36*	*5*
2-Fluorobiphenyl (Surr)	*71*		*40 - 133*	*03/25/25 15:16*	*03/26/25 22:36*	*5*

Client Sample ID: SB141b (12.5-15)
Lab Sample ID: 500-265642-4

Date Collected: 03/20/25 11:15
Matrix: Solid

Date Received: 03/21/25 16:52
Percent Solids: 86.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg	☼	03/25/25 08:58	03/27/25 15:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*70 - 130*	*03/25/25 08:58*	*03/27/25 15:52*	*50*
4-Bromofluorobenzene	*106*		*60 - 130*	*03/25/25 08:58*	*03/27/25 15:52*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**17**		9.5		mg/Kg	☼	03/25/25 15:16	03/26/25 22:58	1
Oil Range Organics (C28-C36)	<19		19		mg/Kg	☼	03/25/25 15:16	03/26/25 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*68*		*50 - 126*	*03/25/25 15:16*	*03/26/25 22:58*	*1*
2-Fluorobiphenyl (Surr)	*62*		*40 - 133*	*03/25/25 15:16*	*03/26/25 22:58*	*1*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-265642-1

Client Sample ID: SB141c (5-7.5)

Date Collected: 03/20/25 11:43
Date Received: 03/21/25 16:52

Lab Sample ID: 500-265642-5

Matrix: Solid
Percent Solids: 83.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	18		1.1		mg/Kg	☼	03/25/25 08:58	03/27/25 18:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*03/25/25 08:58*	*03/27/25 18:03*	*50*
4-Bromofluorobenzene	*105*		*60 - 130*	*03/25/25 08:58*	*03/27/25 18:03*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14		9.5		mg/Kg	☼	03/25/25 15:16	03/26/25 23:21	1
Oil Range Organics (C28-C36)	<19		19		mg/Kg	☼	03/25/25 15:16	03/26/25 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*92*		*50 - 126*	*03/25/25 15:16*	*03/26/25 23:21*	*1*
2-Fluorobiphenyl (Surr)	*72*		*40 - 133*	*03/25/25 15:16*	*03/26/25 23:21*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265642-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB141c (7.5-10)
Lab Sample ID: 500-265642-6

Date Collected: 03/20/25 12:02
Matrix: Solid

Date Received: 03/21/25 16:52
Percent Solids: 40.9

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	63		3.4		mg/Kg	☼	03/25/25 08:58	03/27/25 18:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*70 - 130*	*03/25/25 08:58*	*03/27/25 18:36*	*50*
4-Bromofluorobenzene	*106*		*60 - 130*	*03/25/25 08:58*	*03/27/25 18:36*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	160		100		mg/Kg	☼	03/25/25 15:16	03/26/25 23:44	5
Oil Range Organics (C28-C36)	410		200		mg/Kg	☼	03/25/25 15:16	03/26/25 23:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*77*		*50 - 126*	*03/25/25 15:16*	*03/26/25 23:44*	*5*
2-Fluorobiphenyl (Surr)	*54*		*40 - 133*	*03/25/25 15:16*	*03/26/25 23:44*	*5*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265642-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC VOA

Prep Batch: 811122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265642-1	SB141a (7.5-10)	Total/NA	Solid	5035	
500-265642-2	SB141a (10-12.5)	Total/NA	Solid	5035	
500-265642-3	SB141b (5-7.5)	Total/NA	Solid	5035	
500-265642-4	SB141b (12.5-15)	Total/NA	Solid	5035	
500-265642-5	SB141c (5-7.5)	Total/NA	Solid	5035	
500-265642-6	SB141c (7.5-10)	Total/NA	Solid	5035	
500-265642-1 MS	SB141a (7.5-10)	Total/NA	Solid	5035	
500-265642-1 MSD	SB141a (7.5-10)	Total/NA	Solid	5035	

Analysis Batch: 811439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265642-1	SB141a (7.5-10)	Total/NA	Solid	8015D	811122
500-265642-2	SB141a (10-12.5)	Total/NA	Solid	8015D	811122
500-265642-4	SB141b (12.5-15)	Total/NA	Solid	8015D	811122
500-265642-5	SB141c (5-7.5)	Total/NA	Solid	8015D	811122
500-265642-6	SB141c (7.5-10)	Total/NA	Solid	8015D	811122
MB 500-811439/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-811439/5	Lab Control Sample	Total/NA	Solid	8015D	
500-265642-1 MS	SB141a (7.5-10)	Total/NA	Solid	8015D	811122
500-265642-1 MSD	SB141a (7.5-10)	Total/NA	Solid	8015D	811122

Analysis Batch: 811616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265642-3	SB141b (5-7.5)	Total/NA	Solid	8015D	811122
MB 500-811616/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-811616/5	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 811215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265642-1	SB141a (7.5-10)	Total/NA	Solid	3541	
500-265642-2	SB141a (10-12.5)	Total/NA	Solid	3541	
500-265642-3	SB141b (5-7.5)	Total/NA	Solid	3541	
500-265642-4	SB141b (12.5-15)	Total/NA	Solid	3541	
500-265642-5	SB141c (5-7.5)	Total/NA	Solid	3541	
500-265642-6	SB141c (7.5-10)	Total/NA	Solid	3541	
MB 500-811215/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-811215/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 811370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265642-2	SB141a (10-12.5)	Total/NA	Solid	8015D	811215
500-265642-3	SB141b (5-7.5)	Total/NA	Solid	8015D	811215
500-265642-4	SB141b (12.5-15)	Total/NA	Solid	8015D	811215
500-265642-5	SB141c (5-7.5)	Total/NA	Solid	8015D	811215
500-265642-6	SB141c (7.5-10)	Total/NA	Solid	8015D	811215
MB 500-811215/1-A	Method Blank	Total/NA	Solid	8015D	811215
LCS 500-811215/2-A	Lab Control Sample	Total/NA	Solid	8015D	811215

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265642-1
Project/Site: 8080 District (24-0124-103)

GC Semi VOA

Analysis Batch: 811540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265642-1	SB141a (7.5-10)	Total/NA	Solid	8015D	811215

General Chemistry

Analysis Batch: 811132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265642-1	SB141a (7.5-10)	Total/NA	Solid	Moisture	
500-265642-2	SB141a (10-12.5)	Total/NA	Solid	Moisture	
500-265642-4	SB141b (12.5-15)	Total/NA	Solid	Moisture	
500-265642-5	SB141c (5-7.5)	Total/NA	Solid	Moisture	
500-265642-6	SB141c (7.5-10)	Total/NA	Solid	Moisture	

Analysis Batch: 811311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265642-3	SB141b (5-7.5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265642-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT1 (70-130)	BFB1 (60-130)
500-265642-1	SB141a (7.5-10)	106	0 S1-
500-265642-1 MS	SB141a (7.5-10)	107	0 S1-
500-265642-1 MSD	SB141a (7.5-10)	105	0 S1-
500-265642-2	SB141a (10-12.5)	92	100
500-265642-3	SB141b (5-7.5)	87	101
500-265642-4	SB141b (12.5-15)	97	106
500-265642-5	SB141c (5-7.5)	95	105
500-265642-6	SB141c (7.5-10)	102	106
LCS 500-811439/5	Lab Control Sample	105	108
LCS 500-811616/5	Lab Control Sample	96	103
MB 500-811439/6	Method Blank	90	98
MB 500-811616/6	Method Blank	90	101

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH (50-126)	FBP (40-133)
500-265642-1	SB141a (7.5-10)	0 S1-	0 S1-
500-265642-2	SB141a (10-12.5)	77	65
500-265642-3	SB141b (5-7.5)	94	71
500-265642-4	SB141b (12.5-15)	68	62
500-265642-5	SB141c (5-7.5)	92	72
500-265642-6	SB141c (7.5-10)	77	54
LCS 500-811215/2-A	Lab Control Sample	98	107
MB 500-811215/1-A	Method Blank	93	96

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 500-265642-1 MS
Matrix: Solid
Analysis Batch: 811439

Client Sample ID: SB141a (7.5-10)
Prep Type: Total/NA
Prep Batch: 811122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	54		25.7	74.0	E	mg/Kg	☼	79	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*107*		*70 - 130*
4-Bromofluorobenzene	*0*	*S1-*	*60 - 130*

Lab Sample ID: 500-265642-1 MSD
Matrix: Solid
Analysis Batch: 811439

Client Sample ID: SB141a (7.5-10)
Prep Type: Total/NA
Prep Batch: 811122

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C6-C9)	54		25.7	74.6	E	mg/Kg	☼	81	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*70 - 130*
4-Bromofluorobenzene	*0*	*S1-*	*60 - 130*

Lab Sample ID: MB 500-811439/6
Matrix: Solid
Analysis Batch: 811439

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			03/27/25 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*70 - 130*		*03/27/25 11:29*	*1*
4-Bromofluorobenzene	*98*		*60 - 130*		*03/27/25 11:29*	*1*

Lab Sample ID: LCS 500-811439/5
Matrix: Solid
Analysis Batch: 811439

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	0.397	0.347		mg/Kg		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*70 - 130*
4-Bromofluorobenzene	*108*		*60 - 130*

Lab Sample ID: MB 500-811616/6
Matrix: Solid
Analysis Batch: 811616

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			03/28/25 12:08	1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 500-811616/6
Matrix: Solid
Analysis Batch: 811616

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		70 - 130		03/28/25 12:08	1
4-Bromofluorobenzene	101		60 - 130		03/28/25 12:08	1

Lab Sample ID: LCS 500-811616/5
Matrix: Solid
Analysis Batch: 811616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			0.397	0.352		mg/Kg		89	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	96		70 - 130
4-Bromofluorobenzene	103		60 - 130

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-811215/1-A
Matrix: Solid
Analysis Batch: 811370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 811215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		03/25/25 15:16	03/26/25 16:31	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		03/25/25 15:16	03/26/25 16:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	93		50 - 126	03/25/25 15:16	03/26/25 16:31	1
2-Fluorobiphenyl (Surr)	96		40 - 133	03/25/25 15:16	03/26/25 16:31	1

Lab Sample ID: LCS 500-811215/2-A
Matrix: Solid
Analysis Batch: 811370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 811215

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	61.1		mg/Kg		92	60 - 125		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	98		50 - 126
2-Fluorobiphenyl (Surr)	107		40 - 133

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-265642-1

Client Sample ID: SB141a (7.5-10)
Date Collected: 03/20/25 10:30
Date Received: 03/21/25 16:52

Lab Sample ID: 500-265642-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811132	ST	EET CHI	03/25/25 09:47

Client Sample ID: SB141a (7.5-10)
Date Collected: 03/20/25 10:30
Date Received: 03/21/25 16:52

Lab Sample ID: 500-265642-1
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811122	KP	EET CHI	03/25/25 08:58
Total/NA	Analysis	8015D		50	811439	KP	EET CHI	03/27/25 13:08
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		20	811540	H7CM	EET CHI	03/27/25 16:57

Client Sample ID: SB141a (10-12.5)
Date Collected: 03/20/25 10:47
Date Received: 03/21/25 16:52

Lab Sample ID: 500-265642-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811132	ST	EET CHI	03/25/25 09:47

Client Sample ID: SB141a (10-12.5)
Date Collected: 03/20/25 10:47
Date Received: 03/21/25 16:52

Lab Sample ID: 500-265642-2
Matrix: Solid
Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811122	KP	EET CHI	03/25/25 08:58
Total/NA	Analysis	8015D		50	811439	KP	EET CHI	03/27/25 14:46
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		1	811370	H7CM	EET CHI	03/26/25 22:13

Client Sample ID: SB141b (5-7.5)
Date Collected: 03/20/25 11:01
Date Received: 03/21/25 16:52

Lab Sample ID: 500-265642-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811311	ST	EET CHI	03/26/25 15:32

Client Sample ID: SB141b (5-7.5)
Date Collected: 03/20/25 11:01
Date Received: 03/21/25 16:52

Lab Sample ID: 500-265642-3
Matrix: Solid
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811122	KP	EET CHI	03/25/25 08:58
Total/NA	Analysis	8015D		500	811616	KP	EET CHI	03/28/25 23:07
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		5	811370	H7CM	EET CHI	03/26/25 22:36

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-265642-1

Client Sample ID: SB141b (12.5-15)
Lab Sample ID: 500-265642-4
Date Collected: 03/20/25 11:15
Matrix: Solid
Date Received: 03/21/25 16:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811132	ST	EET CHI	03/25/25 09:47

Client Sample ID: SB141b (12.5-15)
Lab Sample ID: 500-265642-4
Date Collected: 03/20/25 11:15
Matrix: Solid
Date Received: 03/21/25 16:52
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811122	KP	EET CHI	03/25/25 08:58
Total/NA	Analysis	8015D		50	811439	KP	EET CHI	03/27/25 15:52
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		1	811370	H7CM	EET CHI	03/26/25 22:58

Client Sample ID: SB141c (5-7.5)
Lab Sample ID: 500-265642-5
Date Collected: 03/20/25 11:43
Matrix: Solid
Date Received: 03/21/25 16:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811132	ST	EET CHI	03/25/25 09:47

Client Sample ID: SB141c (5-7.5)
Lab Sample ID: 500-265642-5
Date Collected: 03/20/25 11:43
Matrix: Solid
Date Received: 03/21/25 16:52
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811122	KP	EET CHI	03/25/25 08:58
Total/NA	Analysis	8015D		50	811439	KP	EET CHI	03/27/25 18:03
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		1	811370	H7CM	EET CHI	03/26/25 23:21

Client Sample ID: SB141c (7.5-10)
Lab Sample ID: 500-265642-6
Date Collected: 03/20/25 12:02
Matrix: Solid
Date Received: 03/21/25 16:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811132	ST	EET CHI	03/25/25 09:47

Client Sample ID: SB141c (7.5-10)
Lab Sample ID: 500-265642-6
Date Collected: 03/20/25 12:02
Matrix: Solid
Date Received: 03/21/25 16:52
Percent Solids: 40.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811122	KP	EET CHI	03/25/25 08:58
Total/NA	Analysis	8015D		50	811439	KP	EET CHI	03/27/25 18:36
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		5	811370	H7CM	EET CHI	03/26/25 23:44

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-265642-1

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265642-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record

670167

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact		Project Manager: Jake Hartsock	Site Contact:	Date:	COC No 1
Company Name	Pioneer	Tel/Email: jhartsock@pioneeroesgn	Lab Contact:	Carrier:	1 of 1 COCs
Address	2753 W. 31st St.	Analysis Turnaround Time			Sampler
City/State/Zip	Chicago, IL, 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone		TAT if different from Below 5 day			Walk-in Client
Fax		☐ 2 weeks			Lab Sampling
Project Name	8080 S. Lakeshore Dr.	☐ 1 week			
Site		☐ 2 days			Job / SDG No
P O #	24-0124-103	☐ 1 day			500-265642

500-265642 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TPH	Sample Specific Notes
1	SB141a (7.5-10)	3/20/25	10:30am	G	S	2			X	
2	SB141a (10-12.5)	↓	10:47am	↓	↓	↓			X	
3	SB141b (5-7.5)	↓	11:01am	↓	↓	↓			X	
4	SB141b (12.5-15)	↓	11:15am	↓	↓	↓			X	
5	SB141c (5-7.5)	↓	11:43am	↓	↓	↓			X	
6	SB141c (7.5-10)	↓	12:02pm	↓	↓	↓			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd -0.1 Corr'd -0.7 48qt Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Jake Dixon	Pioneer	3/21/25	J Saiah Medley	EETA	3/21/25 1515
J Saiah Medley	EETA	3/21/25 1652			
			Received in Laboratory by: Stephanie Hernandez	EETA	3/21/25 1652

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-265642-1

Login Number: 265642
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-0.7 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/31/2025 11:19:11 AM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-265692-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Eurofins Chicago

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/31/2025 11:19:11 AM

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Job ID: 500-265692-1 — Eurofins Chicago

Job Narrative
500-265692-1

Receipt
The samples were received on 3/24/2025 1:26 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265692-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70h (10-15) — Lab Sample ID: 500-265692-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	16		11		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB118g (10-15) — Lab Sample ID: 500-265692-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	13		9.0		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB118h (10-15) — Lab Sample ID: 500-265692-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	16		11		mg/Kg	1	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265692-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265692-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-265692-1	SB70h (10-15)	Solid	03/21/25 10:58	03/24/25 13:26
500-265692-2	SB118g (10-15)	Solid	03/21/25 12:33	03/24/25 13:26
500-265692-3	SB118h (10-15)	Solid	03/21/25 13:49	03/24/25 13:26

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265692-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70h (10-15)
Lab Sample ID: 500-265692-1
Date Collected: 03/21/25 10:58
Matrix: Solid
Date Received: 03/24/25 13:26
Percent Solids: 75.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.9		1.9		mg/Kg	☼	03/21/25 10:58	03/27/25 21:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*70 - 130*	*03/21/25 10:58*	*03/27/25 21:52*	*50*
4-Bromofluorobenzene	*104*		*60 - 130*	*03/21/25 10:58*	*03/27/25 21:52*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**16**		11		mg/Kg	☼	03/25/25 15:16	03/27/25 00:06	1
Oil Range Organics (C28-C36)	<22		22		mg/Kg	☼	03/25/25 15:16	03/27/25 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*73*		*50 - 126*	*03/25/25 15:16*	*03/27/25 00:06*	*1*
2-Fluorobiphenyl (Surr)	*48*		*40 - 133*	*03/25/25 15:16*	*03/27/25 00:06*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265692-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB118g (10-15)
Lab Sample ID: 500-265692-2
Date Collected: 03/21/25 12:33
Matrix: Solid
Date Received: 03/24/25 13:26
Percent Solids: 86.9

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.3		1.3		mg/Kg	☼	03/21/25 12:33	03/27/25 22:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*03/21/25 12:33*	*03/27/25 22:25*	*50*
4-Bromofluorobenzene	*102*		*60 - 130*	*03/21/25 12:33*	*03/27/25 22:25*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13**		9.0		mg/Kg	☼	03/25/25 15:16	03/27/25 00:29	1
Oil Range Organics (C28-C36)	<18		18		mg/Kg	☼	03/25/25 15:16	03/27/25 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*80*		*50 - 126*	*03/25/25 15:16*	*03/27/25 00:29*	*1*
2-Fluorobiphenyl (Surr)	*62*		*40 - 133*	*03/25/25 15:16*	*03/27/25 00:29*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265692-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB118h (10-15)
Lab Sample ID: 500-265692-3
Date Collected: 03/21/25 13:49
Matrix: Solid
Date Received: 03/24/25 13:26
Percent Solids: 75.7

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.3		1.3		mg/Kg	☼	03/21/25 13:49	03/27/25 22:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*70 - 130*	*03/21/25 13:49*	*03/27/25 22:57*	*50*
4-Bromofluorobenzene	*96*		*60 - 130*	*03/21/25 13:49*	*03/27/25 22:57*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**16**		11		mg/Kg	☼	03/25/25 15:16	03/27/25 01:37	1
Oil Range Organics (C28-C36)	<22		22		mg/Kg	☼	03/25/25 15:16	03/27/25 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*80*		*50 - 126*	*03/25/25 15:16*	*03/27/25 01:37*	*1*
2-Fluorobiphenyl (Surr)	*50*		*40 - 133*	*03/25/25 15:16*	*03/27/25 01:37*	*1*

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC VOA

Prep Batch: 811164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265692-1	SB70h (10-15)	Total/NA	Solid	5035	
500-265692-2	SB118g (10-15)	Total/NA	Solid	5035	
500-265692-3	SB118h (10-15)	Total/NA	Solid	5035	

Analysis Batch: 811439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265692-1	SB70h (10-15)	Total/NA	Solid	8015D	811164
500-265692-2	SB118g (10-15)	Total/NA	Solid	8015D	811164
500-265692-3	SB118h (10-15)	Total/NA	Solid	8015D	811164
MB 500-811439/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-811439/5	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 811215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265692-1	SB70h (10-15)	Total/NA	Solid	3541	
500-265692-2	SB118g (10-15)	Total/NA	Solid	3541	
500-265692-3	SB118h (10-15)	Total/NA	Solid	3541	
MB 500-811215/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-811215/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 811370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265692-1	SB70h (10-15)	Total/NA	Solid	8015D	811215
500-265692-2	SB118g (10-15)	Total/NA	Solid	8015D	811215
500-265692-3	SB118h (10-15)	Total/NA	Solid	8015D	811215
MB 500-811215/1-A	Method Blank	Total/NA	Solid	8015D	811215
LCS 500-811215/2-A	Lab Control Sample	Total/NA	Solid	8015D	811215

General Chemistry

Analysis Batch: 811157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265692-1	SB70h (10-15)	Total/NA	Solid	Moisture	
500-265692-2	SB118g (10-15)	Total/NA	Solid	Moisture	
500-265692-3	SB118h (10-15)	Total/NA	Solid	Moisture	
500-265692-1 DU	SB70h (10-15)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265692-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-265692-1	SB70h (10-15)	97	104
500-265692-2	SB118g (10-15)	94	102
500-265692-3	SB118h (10-15)	90	96
LCS 500-811439/5	Lab Control Sample	105	108
MB 500-811439/6	Method Blank	90	98

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-265692-1	SB70h (10-15)	73	48
500-265692-2	SB118g (10-15)	80	62
500-265692-3	SB118h (10-15)	80	50
LCS 500-811215/2-A	Lab Control Sample	98	107
MB 500-811215/1-A	Method Blank	93	96

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-811439/6
Matrix: Solid
Analysis Batch: 811439

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			03/27/25 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*70 - 130*		*03/27/25 11:29*	*1*
4-Bromofluorobenzene	*98*		*60 - 130*		*03/27/25 11:29*	*1*

Lab Sample ID: LCS 500-811439/5
Matrix: Solid
Analysis Batch: 811439

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			0.397	0.347		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*70 - 130*
4-Bromofluorobenzene	*108*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-811215/1-A
Matrix: Solid
Analysis Batch: 811370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 811215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		03/25/25 15:16	03/26/25 16:31	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		03/25/25 15:16	03/26/25 16:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*93*		*50 - 126*	*03/25/25 15:16*	*03/26/25 16:31*	*1*
2-Fluorobiphenyl (Surr)	*96*		*40 - 133*	*03/25/25 15:16*	*03/26/25 16:31*	*1*

Lab Sample ID: LCS 500-811215/2-A
Matrix: Solid
Analysis Batch: 811370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 811215

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	61.1		mg/Kg		92	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*98*		*50 - 126*
2-Fluorobiphenyl (Surr)	*107*		*40 - 133*

Client Sample ID: SB70h (10-15)
Lab Sample ID: 500-265692-1
Date Collected: 03/21/25 10:58
Matrix: Solid
Date Received: 03/24/25 13:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811157	ST	EET CHI	03/25/25 11:03

Client Sample ID: SB70h (10-15)
Lab Sample ID: 500-265692-1
Date Collected: 03/21/25 10:58
Matrix: Solid
Date Received: 03/24/25 13:26
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811164	KP	EET CHI	03/21/25 10:58
Total/NA	Analysis	8015D		50	811439	KP	EET CHI	03/27/25 21:52
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		1	811370	H7CM	EET CHI	03/27/25 00:06

Client Sample ID: SB118g (10-15)
Lab Sample ID: 500-265692-2
Date Collected: 03/21/25 12:33
Matrix: Solid
Date Received: 03/24/25 13:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811157	ST	EET CHI	03/25/25 11:03

Client Sample ID: SB118g (10-15)
Lab Sample ID: 500-265692-2
Date Collected: 03/21/25 12:33
Matrix: Solid
Date Received: 03/24/25 13:26
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811164	KP	EET CHI	03/21/25 12:33
Total/NA	Analysis	8015D		50	811439	KP	EET CHI	03/27/25 22:25
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		1	811370	H7CM	EET CHI	03/27/25 00:29

Client Sample ID: SB118h (10-15)
Lab Sample ID: 500-265692-3
Date Collected: 03/21/25 13:49
Matrix: Solid
Date Received: 03/24/25 13:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811157	ST	EET CHI	03/25/25 11:03

Client Sample ID: SB118h (10-15)
Lab Sample ID: 500-265692-3
Date Collected: 03/21/25 13:49
Matrix: Solid
Date Received: 03/24/25 13:26
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811164	KP	EET CHI	03/21/25 13:49
Total/NA	Analysis	8015D		50	811439	KP	EET CHI	03/27/25 22:57
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		1	811370	H7CM	EET CHI	03/27/25 01:37

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-265692-1

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265692-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734274

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Address

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Shary Sothe Pioneer	Site Contact:	Date:	COC No 1 of 1 COCs
Company Name: Pioneer	Tel/Email:	Lab Contact:	Carrier:	
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
Phone	TAT if different from Below			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name: 8080 S Lone Shore Dr	☐ 1 week			
Site	☐ 2 days			Job / SDG No
P O #	☐ 1 day			500-265692

500-265692 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TPH	Sample Specific Notes
1 SB70h (10-15)	3/21/25	1058	G	SO	2			X	
2 SB118g (10-15)	↓	1233	↓	↓	↓			X	
3 SB118h (10-15)	↓	149	↓	↓	↓			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 4.3 Corr'd 3.9 | Therm ID No

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pioneer	3/24/25	J Seriah Medley	EETA	3/24/25 1315
J Seriah Medley	EETA	3/24/25 1326			
			Received in Laboratory by: [signature]	EETA	3/24/25 1326

3/31/2025

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-265692-1

Login Number: 265692
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kim Hempel
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/4/2025 3:49:52 PM

JOB DESCRIPTION

8080 S.Lake Shore Drive

JOB NUMBER

500-265962-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-265962-1 — Eurofins Chicago

Job Narrative
500-265962-1

Receipt
The samples were received on 03/28/25 15:14. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following samples required a dilution due to the nature of the sample matrix: SB70L (15-17.5) (500-265962-1), SB70N (12.5-15) (500-265962-3) and SB70O (12.5-15) (500-265962-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015D: o-Terphenyl surrogate recovery for the following sample was outside control limits: SB70M (15-17.5) (500-265962-2). 2-Fluorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265962-1
Project/Site: 8080 S.Lake Shore Drive

Client Sample ID: SB70L (15-17.5) — Lab Sample ID: 500-265962-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	14		0.99		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	14000		1300		mg/Kg	50	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	13000		2600		mg/Kg	50	☼	8015D	Total/NA

Client Sample ID: SB70M (15-17.5) — Lab Sample ID: 500-265962-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	18		1.0		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	3900		240		mg/Kg	10	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	3300		490		mg/Kg	10	☼	8015D	Total/NA

Client Sample ID: SB70N (12.5-15) — Lab Sample ID: 500-265962-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	6.9		1.2		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	2000		210		mg/Kg	20	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	2900		420		mg/Kg	20	☼	8015D	Total/NA

Client Sample ID: SB70N (15-17.5) — Lab Sample ID: 500-265962-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	79		10		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	76		21		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB70O (12.5-15) — Lab Sample ID: 500-265962-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	22		1.0		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	22000		2600		mg/Kg	100	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	14000		5300		mg/Kg	100	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265962-1
Project/Site: 8080 S.Lake Shore Drive

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265962-1
Project/Site: 8080 S.Lake Shore Drive

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-265962-1	SB70L (15-17.5)	Solid	03/27/25 07:59	03/28/25 15:14
500-265962-2	SB70M (15-17.5)	Solid	03/27/25 09:45	03/28/25 15:14
500-265962-3	SB70N (12.5-15)	Solid	03/27/25 12:08	03/28/25 15:14
500-265962-4	SB70N (15-17.5)	Solid	03/27/25 12:37	03/28/25 15:14
500-265962-5	SB70O (12.5-15)	Solid	03/27/25 13:58	03/28/25 15:14

Client Sample ID: SB70L (15-17.5)
Lab Sample ID: 500-265962-1

Date Collected: 03/27/25 07:59
Matrix: Solid

Date Received: 03/28/25 15:14
Percent Solids: 91.1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	14		0.99		mg/Kg	☼	03/27/25 07:59	04/02/25 19:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*70 - 130*	*03/27/25 07:59*	*04/02/25 19:14*	*50*
4-Bromofluorobenzene	*101*		*60 - 130*	*03/27/25 07:59*	*04/02/25 19:14*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14000		1300		mg/Kg	☼	03/31/25 08:03	04/02/25 13:58	50
Oil Range Organics (C28-C36)	13000		2600		mg/Kg	☼	03/31/25 08:03	04/02/25 13:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*03/31/25 08:03*	*04/02/25 13:58*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*03/31/25 08:03*	*04/02/25 13:58*	*50*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265962-1
Project/Site: 8080 S.Lake Shore Drive

Client Sample ID: SB70M (15-17.5)
Lab Sample ID: 500-265962-2
Date Collected: 03/27/25 09:45
Matrix: Solid
Date Received: 03/28/25 15:14
Percent Solids: 87.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	18		1.0		mg/Kg	☼	03/27/25 09:45	04/02/25 19:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*70 - 130*	*03/27/25 09:45*	*04/02/25 19:47*	*50*
4-Bromofluorobenzene	*104*		*60 - 130*	*03/27/25 09:45*	*04/02/25 19:47*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3900		240		mg/Kg	☼	03/31/25 08:03	04/03/25 15:28	10
Oil Range Organics (C28-C36)	3300		490		mg/Kg	☼	03/31/25 08:03	04/03/25 15:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*132*	*S1+*	*50 - 126*	*03/31/25 08:03*	*04/03/25 15:28*	*10*
2-Fluorobiphenyl (Surr)	*110*		*40 - 133*	*03/31/25 08:03*	*04/03/25 15:28*	*10*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265962-1
Project/Site: 8080 S.Lake Shore Drive

Client Sample ID: SB70N (12.5-15)
Lab Sample ID: 500-265962-3

Date Collected: 03/27/25 12:08
Matrix: Solid

Date Received: 03/28/25 15:14
Percent Solids: 76.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	6.9		1.2		mg/Kg	☼	03/27/25 12:08	04/02/25 20:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*70 - 130*	*03/27/25 12:08*	*04/02/25 20:21*	*50*
4-Bromofluorobenzene	*103*		*60 - 130*	*03/27/25 12:08*	*04/02/25 20:21*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2000		210		mg/Kg	☼	03/31/25 08:03	04/02/25 14:42	20
Oil Range Organics (C28-C36)	2900		420		mg/Kg	☼	03/31/25 08:03	04/02/25 14:42	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*118*		*50 - 126*	*03/31/25 08:03*	*04/02/25 14:42*	*20*
2-Fluorobiphenyl (Surr)	*134*	*S1+*	*40 - 133*	*03/31/25 08:03*	*04/02/25 14:42*	*20*

Client Sample ID: SB70N (15-17.5)
Lab Sample ID: 500-265962-4

Date Collected: 03/27/25 12:37
Matrix: Solid

Date Received: 03/28/25 15:14
Percent Solids: 79.7

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.1		1.1		mg/Kg	☼	03/27/25 12:37	04/02/25 20:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*70 - 130*	*03/27/25 12:37*	*04/02/25 20:55*	*50*
4-Bromofluorobenzene	*101*		*60 - 130*	*03/27/25 12:37*	*04/02/25 20:55*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**79**		10		mg/Kg	☼	03/31/25 08:03	04/01/25 20:04	1
Oil Range Organics (C28-C36)	**76**		21		mg/Kg	☼	03/31/25 08:03	04/01/25 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*94*		*50 - 126*	*03/31/25 08:03*	*04/01/25 20:04*	*1*
2-Fluorobiphenyl (Surr)	*91*		*40 - 133*	*03/31/25 08:03*	*04/01/25 20:04*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265962-1
Project/Site: 8080 S.Lake Shore Drive

Client Sample ID: SB70O (12.5-15)
Lab Sample ID: 500-265962-5

Date Collected: 03/27/25 13:58
Matrix: Solid

Date Received: 03/28/25 15:14
Percent Solids: 85.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	22		1.0		mg/Kg	☼	03/27/25 13:58	04/02/25 21:28	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*70 - 130*	*03/27/25 13:58*	*04/02/25 21:28*	*50*
4-Bromofluorobenzene	*98*		*60 - 130*	*03/27/25 13:58*	*04/02/25 21:28*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	22000		2600		mg/Kg	☼	03/31/25 08:03	04/02/25 15:04	100
Oil Range Organics (C28-C36)	14000		5300		mg/Kg	☼	03/31/25 08:03	04/02/25 15:04	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*03/31/25 08:03*	*04/02/25 15:04*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*03/31/25 08:03*	*04/02/25 15:04*	*100*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265962-1
Project/Site: 8080 S.Lake Shore Drive

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC VOA

Prep Batch: 811860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265962-1	SB70L (15-17.5)	Total/NA	Solid	5035	
500-265962-2	SB70M (15-17.5)	Total/NA	Solid	5035	
500-265962-3	SB70N (12.5-15)	Total/NA	Solid	5035	
500-265962-4	SB70N (15-17.5)	Total/NA	Solid	5035	
500-265962-5	SB70O (12.5-15)	Total/NA	Solid	5035	

Analysis Batch: 812128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265962-1	SB70L (15-17.5)	Total/NA	Solid	8015D	811860
500-265962-2	SB70M (15-17.5)	Total/NA	Solid	8015D	811860
500-265962-3	SB70N (12.5-15)	Total/NA	Solid	8015D	811860
500-265962-4	SB70N (15-17.5)	Total/NA	Solid	8015D	811860
500-265962-5	SB70O (12.5-15)	Total/NA	Solid	8015D	811860
MB 500-812128/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-812128/12	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 811781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265962-1	SB70L (15-17.5)	Total/NA	Solid	3541	
500-265962-2	SB70M (15-17.5)	Total/NA	Solid	3541	
500-265962-3	SB70N (12.5-15)	Total/NA	Solid	3541	
500-265962-4	SB70N (15-17.5)	Total/NA	Solid	3541	
500-265962-5	SB70O (12.5-15)	Total/NA	Solid	3541	
MB 500-811781/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-811781/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 811805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265962-4	SB70N (15-17.5)	Total/NA	Solid	8015D	811781
MB 500-811781/1-A	Method Blank	Total/NA	Solid	8015D	811781
LCS 500-811781/2-A	Lab Control Sample	Total/NA	Solid	8015D	811781

Analysis Batch: 812020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265962-1	SB70L (15-17.5)	Total/NA	Solid	8015D	811781
500-265962-3	SB70N (12.5-15)	Total/NA	Solid	8015D	811781
500-265962-5	SB70O (12.5-15)	Total/NA	Solid	8015D	811781

Analysis Batch: 812370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265962-2	SB70M (15-17.5)	Total/NA	Solid	8015D	811781

General Chemistry

Analysis Batch: 811995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265962-1	SB70L (15-17.5)	Total/NA	Solid	Moisture	
500-265962-2	SB70M (15-17.5)	Total/NA	Solid	Moisture	
500-265962-3	SB70N (12.5-15)	Total/NA	Solid	Moisture	
500-265962-4	SB70N (15-17.5)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 811995 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265962-5	SB70O (12.5-15)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S.Lake Shore Drive

Job ID: 500-265962-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT1 (70-130)	BFB1 (60-130)
500-265962-1	SB70L (15-17.5)	91	101
500-265962-2	SB70M (15-17.5)	97	104
500-265962-3	SB70N (12.5-15)	87	103
500-265962-4	SB70N (15-17.5)	87	101
500-265962-5	SB70O (12.5-15)	90	98
LCS 500-812128/12	Lab Control Sample	92	92
MB 500-812128/6	Method Blank	85	92

Surrogate Legend

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH (50-126)	FBP (40-133)
500-265962-1	SB70L (15-17.5)	0 S1-	0 S1-
500-265962-2	SB70M (15-17.5)	132 S1+	110
500-265962-3	SB70N (12.5-15)	118	134 S1+
500-265962-4	SB70N (15-17.5)	94	91
500-265962-5	SB70O (12.5-15)	0 S1-	0 S1-
LCS 500-811781/2-A	Lab Control Sample	105	103
MB 500-811781/1-A	Method Blank	111	108

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-812128/6
Matrix: Solid
Analysis Batch: 812128

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			04/02/25 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*85*		*70 - 130*		*04/02/25 12:02*	*1*
4-Bromofluorobenzene	*92*		*60 - 130*		*04/02/25 12:02*	*1*

Lab Sample ID: LCS 500-812128/12
Matrix: Solid
Analysis Batch: 812128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	0.397	0.358		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*92*		*70 - 130*
4-Bromofluorobenzene	*92*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-811781/1-A
Matrix: Solid
Analysis Batch: 811805

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 811781

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		03/31/25 08:03	04/01/25 15:44	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		03/31/25 08:03	04/01/25 15:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*111*		*50 - 126*	*03/31/25 08:03*	*04/01/25 15:44*	*1*
2-Fluorobiphenyl (Surr)	*108*		*40 - 133*	*03/31/25 08:03*	*04/01/25 15:44*	*1*

Lab Sample ID: LCS 500-811781/2-A
Matrix: Solid
Analysis Batch: 811805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 811781

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	67.9		mg/Kg		102	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*105*		*50 - 126*
2-Fluorobiphenyl (Surr)	*103*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S.Lake Shore Drive

Job ID: 500-265962-1

Client Sample ID: SB70L (15-17.5)
Date Collected: 03/27/25 07:59
Date Received: 03/28/25 15:14

Lab Sample ID: 500-265962-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811995	ST	EET CHI	04/01/25 11:21

Client Sample ID: SB70L (15-17.5)
Date Collected: 03/27/25 07:59
Date Received: 03/28/25 15:14

Lab Sample ID: 500-265962-1
Matrix: Solid
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811860	KP	EET CHI	03/27/25 07:59
Total/NA	Analysis	8015D		50	812128	KP	EET CHI	04/02/25 19:14
Total/NA	Prep	3541			811781	FRG	EET CHI	03/31/25 08:03 - 03/31/25 15:33 [1]
Total/NA	Analysis	8015D		50	812020	GLR	EET CHI	04/02/25 13:58

Client Sample ID: SB70M (15-17.5)
Date Collected: 03/27/25 09:45
Date Received: 03/28/25 15:14

Lab Sample ID: 500-265962-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811995	ST	EET CHI	04/01/25 11:21

Client Sample ID: SB70M (15-17.5)
Date Collected: 03/27/25 09:45
Date Received: 03/28/25 15:14

Lab Sample ID: 500-265962-2
Matrix: Solid
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811860	KP	EET CHI	03/27/25 09:45
Total/NA	Analysis	8015D		50	812128	KP	EET CHI	04/02/25 19:47
Total/NA	Prep	3541			811781	FRG	EET CHI	03/31/25 08:03 - 03/31/25 15:33 [1]
Total/NA	Analysis	8015D		10	812370	H7CM	EET CHI	04/03/25 15:28

Client Sample ID: SB70N (12.5-15)
Date Collected: 03/27/25 12:08
Date Received: 03/28/25 15:14

Lab Sample ID: 500-265962-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811995	ST	EET CHI	04/01/25 11:21

Client Sample ID: SB70N (12.5-15)
Date Collected: 03/27/25 12:08
Date Received: 03/28/25 15:14

Lab Sample ID: 500-265962-3
Matrix: Solid
Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811860	KP	EET CHI	03/27/25 12:08
Total/NA	Analysis	8015D		50	812128	KP	EET CHI	04/02/25 20:21
Total/NA	Prep	3541			811781	FRG	EET CHI	03/31/25 08:03 - 03/31/25 15:33 [1]
Total/NA	Analysis	8015D		20	812020	GLR	EET CHI	04/02/25 14:42

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S.Lake Shore Drive

Job ID: 500-265962-1

Client Sample ID: SB70N (15-17.5)
Date Collected: 03/27/25 12:37
Date Received: 03/28/25 15:14

Lab Sample ID: 500-265962-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811995	ST	EET CHI	04/01/25 11:21

Client Sample ID: SB70N (15-17.5)
Date Collected: 03/27/25 12:37
Date Received: 03/28/25 15:14

Lab Sample ID: 500-265962-4
Matrix: Solid
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811860	KP	EET CHI	03/27/25 12:37
Total/NA	Analysis	8015D		50	812128	KP	EET CHI	04/02/25 20:55
Total/NA	Prep	3541			811781	FRG	EET CHI	03/31/25 08:03 - 03/31/25 15:33 [1]
Total/NA	Analysis	8015D		1	811805	MS	EET CHI	04/01/25 20:04

Client Sample ID: SB70O (12.5-15)
Date Collected: 03/27/25 13:58
Date Received: 03/28/25 15:14

Lab Sample ID: 500-265962-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811995	ST	EET CHI	04/01/25 11:21

Client Sample ID: SB70O (12.5-15)
Date Collected: 03/27/25 13:58
Date Received: 03/28/25 15:14

Lab Sample ID: 500-265962-5
Matrix: Solid
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811860	KP	EET CHI	03/27/25 13:58
Total/NA	Analysis	8015D		50	812128	KP	EET CHI	04/02/25 21:28
Total/NA	Prep	3541			811781	FRG	EET CHI	03/31/25 08:03 - 03/31/25 15:33 [1]
Total/NA	Analysis	8015D		100	812020	GLR	EET CHI	04/02/25 15:04

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265962-1
Project/Site: 8080 S.Lake Shore Drive

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

Chain of Custody Record 731283

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact:	Date:	COC No 1 of 1 COCs
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier:	Sampler
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below			Lab Sampling
Fax	☐ 2 weeks			
Project Name	☐ 1 week			
Site: 8080 S Lake Shore Dr	☐ 2 days			Job / SDG No: 500-265962
P O #	☐ 1 day			

STAND

500-265962 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TPH	Sample Specific Notes
1	SB70L (15-17.5)	3/22/25	759	G	SO	2			X	
2	SB70M (15-17.5)	↓	945	↓	↓	↓			X	
3	SB70N (12.5-15)	↓	1208	↓	↓	↓			X	
4	SB70N (15-17.5)	↓	1237	↓	↓	↓			X	
5	SB70O (12.5-15)	↓	158	↓	↓	↓			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☑ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 3.9 Corr'd 3.5 | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	3/28/25	[signature]	EETA	03/28/25 e 1400
[signature]	EETA	03/28/25 e	1514		
			Received in Laboratory by: [signature]	EETA	3/28/25 1514

4/4/2025

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-265962-1

Login Number: 265962
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 04/02/25 12:09:47

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-265731-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

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Authorization

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Job ID: 500-265731-1 — Eurofins Chicago

Job Narrative
500-265731-1

Receipt
The samples were received on 03/25/25 11:42. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following samples required a dilution due to the nature of the sample matrix: SB61s(15-17.5) (500-265731-2) and SB61t(15-17.5) (500-265731-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265731-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61r(15-17.5) — Lab Sample ID: 500-265731-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	33		9.5		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	34		19		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB61s(15-17.5) — Lab Sample ID: 500-265731-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	12		1.6		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	12000		1300		mg/Kg	50	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	20000		2600		mg/Kg	50	☼	8015D	Total/NA

Client Sample ID: SB61t(15-17.5) — Lab Sample ID: 500-265731-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	54		1.9		mg/Kg	100	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	16000		1300		mg/Kg	50	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	16000		2600		mg/Kg	50	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265731-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265731-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-265731-1	SB61r(15-17.5)	Solid	03/24/25 07:39	03/25/25 11:42
500-265731-2	SB61s(15-17.5)	Solid	03/24/25 09:45	03/25/25 11:42
500-265731-3	SB61t(15-17.5)	Solid	03/24/25 11:31	03/25/25 11:42

Client Sample ID: SB61r(15-17.5)
Lab Sample ID: 500-265731-1
Date Collected: 03/24/25 07:39
Matrix: Solid
Date Received: 03/25/25 11:42
Percent Solids: 82.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.2		1.2		mg/Kg	☼	03/24/25 07:39	03/28/25 19:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*03/24/25 07:39*	*03/28/25 19:17*	*50*
4-Bromofluorobenzene	*106*		*60 - 130*	*03/24/25 07:39*	*03/28/25 19:17*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**33**		9.5		mg/Kg	☼	03/25/25 15:16	03/27/25 02:00	1
Oil Range Organics (C28-C36)	**34**		19		mg/Kg	☼	03/25/25 15:16	03/27/25 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*94*		*50 - 126*	*03/25/25 15:16*	*03/27/25 02:00*	*1*
2-Fluorobiphenyl (Surr)	*65*		*40 - 133*	*03/25/25 15:16*	*03/27/25 02:00*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265731-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61s(15-17.5)
Lab Sample ID: 500-265731-2
Date Collected: 03/24/25 09:45
Matrix: Solid
Date Received: 03/25/25 11:42
Percent Solids: 84.9

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	12		1.6		mg/Kg	☼	03/24/25 09:45	03/28/25 19:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*03/24/25 09:45*	*03/28/25 19:50*	*50*
4-Bromofluorobenzene	*105*		*60 - 130*	*03/24/25 09:45*	*03/28/25 19:50*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12000		1300		mg/Kg	☼	03/25/25 15:16	03/27/25 17:20	50
Oil Range Organics (C28-C36)	20000		2600		mg/Kg	☼	03/25/25 15:16	03/27/25 17:20	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*03/25/25 15:16*	*03/27/25 17:20*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*03/25/25 15:16*	*03/27/25 17:20*	*50*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265731-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61t(15-17.5)
Lab Sample ID: 500-265731-3

Date Collected: 03/24/25 11:31
Matrix: Solid

Date Received: 03/25/25 11:42
Percent Solids: 88.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	54		1.9		mg/Kg	☼	03/24/25 11:31	03/31/25 15:34	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*70 - 130*	*03/24/25 11:31*	*03/31/25 15:34*	*100*
4-Bromofluorobenzene	*106*		*60 - 130*	*03/24/25 11:31*	*03/31/25 15:34*	*100*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16000		1300		mg/Kg	☼	03/25/25 15:16	03/27/25 17:43	50
Oil Range Organics (C28-C36)	16000		2600		mg/Kg	☼	03/25/25 15:16	03/27/25 17:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*03/25/25 15:16*	*03/27/25 17:43*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*03/25/25 15:16*	*03/27/25 17:43*	*50*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265731-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265731-1
Project/Site: 8080 District (24-0124-103)

GC VOA

Prep Batch: 811530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265731-1	SB61r(15-17.5)	Total/NA	Solid	5035	
500-265731-2	SB61s(15-17.5)	Total/NA	Solid	5035	
500-265731-3	SB61t(15-17.5)	Total/NA	Solid	5035	

Analysis Batch: 811616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265731-1	SB61r(15-17.5)	Total/NA	Solid	8015D	811530
500-265731-2	SB61s(15-17.5)	Total/NA	Solid	8015D	811530
MB 500-811616/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-811616/5	Lab Control Sample	Total/NA	Solid	8015D	

Analysis Batch: 811793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265731-3	SB61t(15-17.5)	Total/NA	Solid	8015D	811530
MB 500-811793/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-811793/5	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 811215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265731-1	SB61r(15-17.5)	Total/NA	Solid	3541	
500-265731-2	SB61s(15-17.5)	Total/NA	Solid	3541	
500-265731-3	SB61t(15-17.5)	Total/NA	Solid	3541	
MB 500-811215/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-811215/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 811370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265731-1	SB61r(15-17.5)	Total/NA	Solid	8015D	811215
MB 500-811215/1-A	Method Blank	Total/NA	Solid	8015D	811215
LCS 500-811215/2-A	Lab Control Sample	Total/NA	Solid	8015D	811215

Analysis Batch: 811540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265731-2	SB61s(15-17.5)	Total/NA	Solid	8015D	811215
500-265731-3	SB61t(15-17.5)	Total/NA	Solid	8015D	811215

General Chemistry

Analysis Batch: 811303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265731-1	SB61r(15-17.5)	Total/NA	Solid	Moisture	
500-265731-2	SB61s(15-17.5)	Total/NA	Solid	Moisture	
500-265731-3	SB61t(15-17.5)	Total/NA	Solid	Moisture	
500-265731-3 DU	SB61t(15-17.5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265731-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-265731-1	SB61r(15-17.5)	96	106
500-265731-2	SB61s(15-17.5)	98	105
500-265731-3	SB61t(15-17.5)	100	106
LCS 500-811616/5	Lab Control Sample	96	103
LCS 500-811793/5	Lab Control Sample	92	98
MB 500-811616/6	Method Blank	90	101
MB 500-811793/6	Method Blank	93	103

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-265731-1	SB61r(15-17.5)	94	65
500-265731-2	SB61s(15-17.5)	0 S1-	0 S1-
500-265731-3	SB61t(15-17.5)	0 S1-	0 S1-
LCS 500-811215/2-A	Lab Control Sample	98	107
MB 500-811215/1-A	Method Blank	93	96

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-811616/6
Matrix: Solid
Analysis Batch: 811616

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			03/28/25 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*70 - 130*		*03/28/25 12:08*	*1*
4-Bromofluorobenzene	*101*		*60 - 130*		*03/28/25 12:08*	*1*

Lab Sample ID: LCS 500-811616/5
Matrix: Solid
Analysis Batch: 811616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	0.397	0.352		mg/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*96*		*70 - 130*
4-Bromofluorobenzene	*103*		*60 - 130*

Lab Sample ID: MB 500-811793/6
Matrix: Solid
Analysis Batch: 811793

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			03/31/25 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*70 - 130*		*03/31/25 12:17*	*1*
4-Bromofluorobenzene	*103*		*60 - 130*		*03/31/25 12:17*	*1*

Lab Sample ID: LCS 500-811793/5
Matrix: Solid
Analysis Batch: 811793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	0.397	0.337		mg/Kg		85	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*92*		*70 - 130*
4-Bromofluorobenzene	*98*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-811215/1-A
Matrix: Solid
Analysis Batch: 811370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 811215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		03/25/25 15:16	03/26/25 16:31	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		03/25/25 15:16	03/26/25 16:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*93*		*50 - 126*	*03/25/25 15:16*	*03/26/25 16:31*	*1*
2-Fluorobiphenyl (Surr)	*96*		*40 - 133*	*03/25/25 15:16*	*03/26/25 16:31*	*1*

Lab Sample ID: LCS 500-811215/2-A
Matrix: Solid
Analysis Batch: 811370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 811215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	61.1		mg/Kg		92	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*98*		*50 - 126*
2-Fluorobiphenyl (Surr)	*107*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-265731-1

Client Sample ID: SB61r(15-17.5)
Date Collected: 03/24/25 07:39
Date Received: 03/25/25 11:42

Lab Sample ID: 500-265731-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811303	ST	EET CHI	03/26/25 10:12

Client Sample ID: SB61r(15-17.5)
Date Collected: 03/24/25 07:39
Date Received: 03/25/25 11:42

Lab Sample ID: 500-265731-1
Matrix: Solid
Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811530	KP	EET CHI	03/24/25 07:39
Total/NA	Analysis	8015D		50	811616	KP	EET CHI	03/28/25 19:17
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		1	811370	H7CM	EET CHI	03/27/25 02:00

Client Sample ID: SB61s(15-17.5)
Date Collected: 03/24/25 09:45
Date Received: 03/25/25 11:42

Lab Sample ID: 500-265731-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811303	ST	EET CHI	03/26/25 10:12

Client Sample ID: SB61s(15-17.5)
Date Collected: 03/24/25 09:45
Date Received: 03/25/25 11:42

Lab Sample ID: 500-265731-2
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811530	KP	EET CHI	03/24/25 09:45
Total/NA	Analysis	8015D		50	811616	KP	EET CHI	03/28/25 19:50
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		50	811540	H7CM	EET CHI	03/27/25 17:20

Client Sample ID: SB61t(15-17.5)
Date Collected: 03/24/25 11:31
Date Received: 03/25/25 11:42

Lab Sample ID: 500-265731-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811303	ST	EET CHI	03/26/25 10:12

Client Sample ID: SB61t(15-17.5)
Date Collected: 03/24/25 11:31
Date Received: 03/25/25 11:42

Lab Sample ID: 500-265731-3
Matrix: Solid
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811530	KP	EET CHI	03/24/25 11:31
Total/NA	Analysis	8015D		100	811793	KP	EET CHI	03/31/25 15:34
Total/NA	Prep	3541			811215	SV	EET CHI	03/25/25 15:16 - 03/25/25 19:50 [1]
Total/NA	Analysis	8015D		50	811540	H7CM	EET CHI	03/27/25 17:43

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-265731-1

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265731-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734275

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Shantsoche Pioneer	Site Contact:	Date:	COC No 1 of 1 COCs
Company Name PIONEER	Tel/Email:	Lab Contact:	Carrier.	Sampler
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below			Lab Sampling
Fax	☐ 2 weeks (STAND)			
Project Name 8080 S Lake Shore N	☐ 1 week			
Site	☐ 2 days			Job / SDG No
P O #	☐ 1 day			500-265731

500-265731 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPH	Sample Specific Notes
1	SB61P (15-17.5)	3/24/25	739	G	SO	2			X	
2	SB61S (15-17.5)	↓	945	↓	↓	↓			X	
3	SB61T (15-17.5)	↓	1131	↓	↓	↓			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 4.0+3.6 Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	3/25/25	Isaiah Malley	EETA	3/25/25 1055
Isaiah Malley	EETA	3/25/25 1142			
			Received in Laboratory by: Stephanie Hernandez	EETA	3/25/25 1142

04/02/25

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-265731-1

Login Number: 265731
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/8/2025 3:29:33 PM

JOB DESCRIPTION

8080 S Lake Shore Dr.

JOB NUMBER

500-265866-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
4/8/2025 3:29:33 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-265866-1 — Eurofins Chicago

Job Narrative
500-265866-1

Receipt
The sample was received on 03/27/25 11:52. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC) COC lists sample ID as SB70i (10-15) however container labels list SB70i (12.5-15). Logged per COC.

GC/MS VOA
Method 8015D: Surrogate recovery for the following sample was outside control limits: SB70i (10-15) (500-265866-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB70i (10-15) (500-265866-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265866-1
Project/Site: 8080 S Lake Shore Dr.

Client Sample ID: SB70i (10-15)
Lab Sample ID: 500-265866-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	510	F1	14		mg/Kg	500	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	23000		2700		mg/Kg	100	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	10000		5300		mg/Kg	100	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265866-1
Project/Site: 8080 S Lake Shore Dr.

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265866-1
Project/Site: 8080 S Lake Shore Dr.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-265866-1	SB70i (10-15)	Solid	03/25/25 11:33	03/27/25 11:52

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lake Shore Dr.

Job ID: 500-265866-1

Client Sample ID: SB70i (10-15)

Date Collected: 03/25/25 11:33
Date Received: 03/27/25 11:52

Lab Sample ID: 500-265866-1

Matrix: Solid
Percent Solids: 79.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	510	F1	14		mg/Kg	☼	03/25/25 11:33	04/03/25 20:02	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*83*		*70 - 130*	*03/25/25 11:33*	*04/03/25 20:02*	*500*
4-Bromofluorobenzene	*0*	*S1-*	*60 - 130*	*03/25/25 11:33*	*04/03/25 20:02*	*500*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	23000		2700		mg/Kg	☼	03/28/25 14:51	03/31/25 15:58	100
Oil Range Organics (C28-C36)	10000		5300		mg/Kg	☼	03/28/25 14:51	03/31/25 15:58	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*03/28/25 14:51*	*03/31/25 15:58*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*03/28/25 14:51*	*03/31/25 15:58*	*100*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265866-1
Project/Site: 8080 S Lake Shore Dr.

Qualifiers

GC VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265866-1
Project/Site: 8080 S Lake Shore Dr.

GC VOA

Prep Batch: 811858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265866-1	SB70i (10-15)	Total/NA	Solid	5035	
500-265866-1 MS	SB70i (10-15)	Total/NA	Solid	5035	
500-265866-1 MSD	SB70i (10-15)	Total/NA	Solid	5035	

Analysis Batch: 812356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265866-1	SB70i (10-15)	Total/NA	Solid	8015D	811858
MB 500-812356/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-812356/5	Lab Control Sample	Total/NA	Solid	8015D	
500-265866-1 MS	SB70i (10-15)	Total/NA	Solid	8015D	811858
500-265866-1 MSD	SB70i (10-15)	Total/NA	Solid	8015D	811858

GC Semi VOA

Prep Batch: 811709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265866-1	SB70i (10-15)	Total/NA	Solid	3541	
MB 500-811709/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-811709/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 811838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265866-1	SB70i (10-15)	Total/NA	Solid	8015D	811709
MB 500-811709/1-A	Method Blank	Total/NA	Solid	8015D	811709
LCS 500-811709/2-A	Lab Control Sample	Total/NA	Solid	8015D	811709

General Chemistry

Analysis Batch: 811615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265866-1	SB70i (10-15)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265866-1
Project/Site: 8080 S Lake Shore Dr.

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-265866-1	SB70i (10-15)	83	0 S1-
500-265866-1 MS	SB70i (10-15)	85	0 S1-
500-265866-1 MSD	SB70i (10-15)	82	0 S1-
LCS 500-812356/5	Lab Control Sample	82	90
MB 500-812356/6	Method Blank	78	92

Surrogate Legend

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-265866-1	SB70i (10-15)	0 S1-	0 S1-
LCS 500-811709/2-A	Lab Control Sample	104	95
MB 500-811709/1-A	Method Blank	84	66

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 500-265866-1 MS
Matrix: Solid
Analysis Batch: 812356

Client Sample ID: SB70i (10-15)
Prep Type: Total/NA
Prep Batch: 811858

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	510	F1	283	664	F1	mg/Kg	☼	56	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*85*		*70 - 130*
4-Bromofluorobenzene	*0*	*S1-*	*60 - 130*

Lab Sample ID: 500-265866-1 MSD
Matrix: Solid
Analysis Batch: 812356

Client Sample ID: SB70i (10-15)
Prep Type: Total/NA
Prep Batch: 811858

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C6-C9)	510	F1	283	744	E	mg/Kg	☼	84	70 - 130	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*82*		*70 - 130*
4-Bromofluorobenzene	*0*	*S1-*	*60 - 130*

Lab Sample ID: MB 500-812356/6
Matrix: Solid
Analysis Batch: 812356

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			04/03/25 16:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*78*		*70 - 130*		*04/03/25 16:44*	*1*
4-Bromofluorobenzene	*92*		*60 - 130*		*04/03/25 16:44*	*1*

Lab Sample ID: LCS 500-812356/5
Matrix: Solid
Analysis Batch: 812356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	0.397	0.336		mg/Kg		85	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*82*		*70 - 130*
4-Bromofluorobenzene	*90*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-811709/1-A
Matrix: Solid
Analysis Batch: 811838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 811709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		03/28/25 14:51	03/31/25 13:46	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		03/28/25 14:51	03/31/25 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*84*		*50 - 126*	*03/28/25 14:51*	*03/31/25 13:46*	*1*
2-Fluorobiphenyl (Surr)	*66*		*40 - 133*	*03/28/25 14:51*	*03/31/25 13:46*	*1*

Lab Sample ID: LCS 500-811709/2-A
Matrix: Solid
Analysis Batch: 811838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 811709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	65.6		mg/Kg		98	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*104*		*50 - 126*
2-Fluorobiphenyl (Surr)	*95*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lake Shore Dr.

Job ID: 500-265866-1

Client Sample ID: SB70i (10-15)
Date Collected: 03/25/25 11:33
Date Received: 03/27/25 11:52

Lab Sample ID: 500-265866-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811615	ST	EET CHI	03/28/25 08:53

Client Sample ID: SB70i (10-15)
Date Collected: 03/25/25 11:33
Date Received: 03/27/25 11:52

Lab Sample ID: 500-265866-1
Matrix: Solid
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811858	KP	EET CHI	03/25/25 11:33
Total/NA	Analysis	8015D		500	812356	KP	EET CHI	04/03/25 20:02
Total/NA	Prep	3541			811709	SV	EET CHI	03/28/25 14:51 - 03/28/25 20:00 [1]
Total/NA	Analysis	8015D		100	811838	H7CM	EET CHI	03/31/25 15:58

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265866-1
Project/Site: 8080 S Lake Shore Dr.

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734280

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: STEPHANIE HEMMERLING	Site Contact:	Date:	COC No 1 of 1 COCs
Company Name: PIONEER	Tel/Email:	Lab Contact.	Carrier:	Sampler
Address	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client / Lab Sampling
City/State/Zip	TAT if different from Below: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day — STAND			
Phone				
Fax				
Project Name				Job / SDG No: 500-265866
Site: 8080 S LAKE OLIVE DR				
P O #				

500-265866 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
1 SB701 (10-15)	3/25/25	1133	G	SO	2		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

3.8+3.4

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	3/27/25	Received by: Jessica Medley	EETA	3/27/25 1105
Relinquished by: Jessica Medley	Company: EETA	Date/Time 1152 3/27/25	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by: Stephanie Hemmerling	Company: EETA	Date/Time 3/27/25 1152

4/8/2025

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-265866-1

Login Number: 265866
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/8/2025 3:33:23 PM

JOB DESCRIPTION

8080 S Lake Shore Dr.

JOB NUMBER

500-265868-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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Job ID: 500-265868-1 — Eurofins Chicago

Job Narrative
500-265868-1

Receipt
The samples were received on 03/27/25 11:52. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB70k (10-15) (500-265868-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

Client Sample ID: SB70j (10-15) — Lab Sample ID: 500-265868-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	1.6		1.4		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	16		10		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB21p (10-15) — Lab Sample ID: 500-265868-2

No Detections.

Client Sample ID: SB21q (10-15) — Lab Sample ID: 500-265868-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	32		10		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB70k (10-15) — Lab Sample ID: 500-265868-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	17		1.3		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	7900		570		mg/Kg	20	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	5600		1100		mg/Kg	20	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-265868-1	SB70j (10-15)	Solid	03/26/25 07:31	03/27/25 11:52
500-265868-2	SB21p (10-15)	Solid	03/26/25 10:01	03/27/25 11:52
500-265868-3	SB21q (10-15)	Solid	03/26/25 12:04	03/27/25 11:52
500-265868-4	SB70k (10-15)	Solid	03/26/25 13:33	03/27/25 11:52

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

Client Sample ID: SB70j (10-15)
Lab Sample ID: 500-265868-1

Date Collected: 03/26/25 07:31
Matrix: Solid

Date Received: 03/27/25 11:52
Percent Solids: 77.8

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	**1.6**		1.4		mg/Kg	☼	03/26/25 07:31	04/04/25 00:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*70*		*70 - 130*	*03/26/25 07:31*	*04/04/25 00:29*	*50*
4-Bromofluorobenzene	*84*		*60 - 130*	*03/26/25 07:31*	*04/04/25 00:29*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**16**		10		mg/Kg	☼	03/28/25 14:51	03/31/25 14:51	1
Oil Range Organics (C28-C36)	<20		20		mg/Kg	☼	03/28/25 14:51	03/31/25 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*86*		*50 - 126*	*03/28/25 14:51*	*03/31/25 14:51*	*1*
2-Fluorobiphenyl (Surr)	*54*		*40 - 133*	*03/28/25 14:51*	*03/31/25 14:51*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

Client Sample ID: SB21p (10-15)
Lab Sample ID: 500-265868-2
Date Collected: 03/26/25 10:01
Matrix: Solid
Date Received: 03/27/25 11:52
Percent Solids: 77.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.4		1.4		mg/Kg	☼	03/26/25 10:01	04/04/25 01:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*76*		*70 - 130*	*03/26/25 10:01*	*04/04/25 01:02*	*50*
4-Bromofluorobenzene	*90*		*60 - 130*	*03/26/25 10:01*	*04/04/25 01:02*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<10		10		mg/Kg	☼	04/01/25 15:03	04/02/25 16:10	1
Oil Range Organics (C28-C36)	<21		21		mg/Kg	☼	04/01/25 15:03	04/02/25 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*90*		*50 - 126*	*04/01/25 15:03*	*04/02/25 16:10*	*1*
2-Fluorobiphenyl (Surr)	*80*		*40 - 133*	*04/01/25 15:03*	*04/02/25 16:10*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

Client Sample ID: SB21q (10-15)
Lab Sample ID: 500-265868-3
Date Collected: 03/26/25 12:04
Matrix: Solid
Date Received: 03/27/25 11:52
Percent Solids: 78.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.3		1.3		mg/Kg	☼	03/26/25 12:04	04/04/25 01:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*81*		*70 - 130*	*03/26/25 12:04*	*04/04/25 01:35*	*50*
4-Bromofluorobenzene	*93*		*60 - 130*	*03/26/25 12:04*	*04/04/25 01:35*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**32**		10		mg/Kg	☼	03/28/25 14:51	03/31/25 17:25	1
Oil Range Organics (C28-C36)	<21		21		mg/Kg	☼	03/28/25 14:51	03/31/25 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*86*		*50 - 126*	*03/28/25 14:51*	*03/31/25 17:25*	*1*
2-Fluorobiphenyl (Surr)	*51*		*40 - 133*	*03/28/25 14:51*	*03/31/25 17:25*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

Client Sample ID: SB70k (10-15)
Lab Sample ID: 500-265868-4

Date Collected: 03/26/25 13:33
Matrix: Solid

Date Received: 03/27/25 11:52
Percent Solids: 79.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	17		1.3		mg/Kg	☼	03/26/25 13:33	04/04/25 02:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*71*		*70 - 130*	*03/26/25 13:33*	*04/04/25 02:09*	*50*
4-Bromofluorobenzene	*90*		*60 - 130*	*03/26/25 13:33*	*04/04/25 02:09*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7900		570		mg/Kg	☼	03/28/25 14:51	03/31/25 17:47	20
Oil Range Organics (C28-C36)	5600		1100		mg/Kg	☼	03/28/25 14:51	03/31/25 17:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*03/28/25 14:51*	*03/31/25 17:47*	*20*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*03/28/25 14:51*	*03/31/25 17:47*	*20*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

GC VOA

Prep Batch: 811858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265868-1	SB70j (10-15)	Total/NA	Solid	5035	
500-265868-2	SB21p (10-15)	Total/NA	Solid	5035	
500-265868-3	SB21q (10-15)	Total/NA	Solid	5035	
500-265868-4	SB70k (10-15)	Total/NA	Solid	5035	

Analysis Batch: 812356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265868-1	SB70j (10-15)	Total/NA	Solid	8015D	811858
500-265868-2	SB21p (10-15)	Total/NA	Solid	8015D	811858
500-265868-3	SB21q (10-15)	Total/NA	Solid	8015D	811858
500-265868-4	SB70k (10-15)	Total/NA	Solid	8015D	811858
MB 500-812356/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-812356/5	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 811709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265868-1	SB70j (10-15)	Total/NA	Solid	3541	
500-265868-3	SB21q (10-15)	Total/NA	Solid	3541	
500-265868-4	SB70k (10-15)	Total/NA	Solid	3541	
MB 500-811709/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-811709/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-265868-1 MS	SB70j (10-15)	Total/NA	Solid	3541	
500-265868-1 MSD	SB70j (10-15)	Total/NA	Solid	3541	

Analysis Batch: 811838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265868-1	SB70j (10-15)	Total/NA	Solid	8015D	811709
500-265868-3	SB21q (10-15)	Total/NA	Solid	8015D	811709
500-265868-4	SB70k (10-15)	Total/NA	Solid	8015D	811709
MB 500-811709/1-A	Method Blank	Total/NA	Solid	8015D	811709
LCS 500-811709/2-A	Lab Control Sample	Total/NA	Solid	8015D	811709
500-265868-1 MS	SB70j (10-15)	Total/NA	Solid	8015D	811709
500-265868-1 MSD	SB70j (10-15)	Total/NA	Solid	8015D	811709

Analysis Batch: 812020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265868-2	SB21p (10-15)	Total/NA	Solid	8015D	812044
MB 500-812044/1-A	Method Blank	Total/NA	Solid	8015D	812044
LCS 500-812044/2-A	Lab Control Sample	Total/NA	Solid	8015D	812044

Prep Batch: 812044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265868-2	SB21p (10-15)	Total/NA	Solid	3541	
MB 500-812044/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-812044/2-A	Lab Control Sample	Total/NA	Solid	3541	

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

General Chemistry

Analysis Batch: 811625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265868-2	SB21p (10-15)	Total/NA	Solid	Moisture	
500-265868-3	SB21q (10-15)	Total/NA	Solid	Moisture	
500-265868-4	SB70k (10-15)	Total/NA	Solid	Moisture	
500-265868-2 DU	SB21p (10-15)	Total/NA	Solid	Moisture	

Analysis Batch: 811668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265868-1	SB70j (10-15)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-265868-1	SB70j (10-15)	70	84
500-265868-2	SB21p (10-15)	76	90
500-265868-3	SB21q (10-15)	81	93
500-265868-4	SB70k (10-15)	71	90
LCS 500-812356/5	Lab Control Sample	82	90
MB 500-812356/6	Method Blank	78	92

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-265868-1	SB70j (10-15)	86	54
500-265868-1 MS	SB70j (10-15)	99	73
500-265868-1 MSD	SB70j (10-15)	91	56
500-265868-2	SB21p (10-15)	90	80
500-265868-3	SB21q (10-15)	86	51
500-265868-4	SB70k (10-15)	0 S1-	0 S1-
LCS 500-811709/2-A	Lab Control Sample	104	95
LCS 500-812044/2-A	Lab Control Sample	105	107
MB 500-811709/1-A	Method Blank	84	66
MB 500-812044/1-A	Method Blank	116	110

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lake Shore Dr.

Job ID: 500-265868-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-812356/6
Matrix: Solid
Analysis Batch: 812356

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			04/03/25 16:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*78*		*70 - 130*		*04/03/25 16:44*	*1*
4-Bromofluorobenzene	*92*		*60 - 130*		*04/03/25 16:44*	*1*

Lab Sample ID: LCS 500-812356/5
Matrix: Solid
Analysis Batch: 812356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			0.397	0.336		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*82*		*70 - 130*
4-Bromofluorobenzene	*90*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-811709/1-A
Matrix: Solid
Analysis Batch: 811838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 811709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		03/28/25 14:51	03/31/25 13:46	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		03/28/25 14:51	03/31/25 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*84*		*50 - 126*	*03/28/25 14:51*	*03/31/25 13:46*	*1*
2-Fluorobiphenyl (Surr)	*66*		*40 - 133*	*03/28/25 14:51*	*03/31/25 13:46*	*1*

Lab Sample ID: LCS 500-811709/2-A
Matrix: Solid
Analysis Batch: 811838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 811709

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	65.6		mg/Kg		98	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*104*		*50 - 126*
2-Fluorobiphenyl (Surr)	*95*		*40 - 133*

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 500-265868-1 MS
Matrix: Solid
Analysis Batch: 811838

Client Sample ID: SB70j (10-15)
Prep Type: Total/NA
Prep Batch: 811709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	16		84.0	84.5		mg/Kg	☼	82	60 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*99*		*50 - 126*
2-Fluorobiphenyl (Surr)	*73*		*40 - 133*

Lab Sample ID: 500-265868-1 MSD
Matrix: Solid
Analysis Batch: 811838

Client Sample ID: SB70j (10-15)
Prep Type: Total/NA
Prep Batch: 811709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	16		83.6	76.1		mg/Kg	☼	72	60 - 125	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*91*		*50 - 126*
2-Fluorobiphenyl (Surr)	*56*		*40 - 133*

Lab Sample ID: MB 500-812044/1-A
Matrix: Solid
Analysis Batch: 812020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 812044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		04/01/25 15:03	04/02/25 12:53	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		04/01/25 15:03	04/02/25 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*116*		*50 - 126*	*04/01/25 15:03*	*04/02/25 12:53*	*1*
2-Fluorobiphenyl (Surr)	*110*		*40 - 133*	*04/01/25 15:03*	*04/02/25 12:53*	*1*

Lab Sample ID: LCS 500-812044/2-A
Matrix: Solid
Analysis Batch: 812020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 812044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	71.8		mg/Kg		108	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*105*		*50 - 126*
2-Fluorobiphenyl (Surr)	*107*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lake Shore Dr.

Job ID: 500-265868-1

Client Sample ID: SB70j (10-15)
Date Collected: 03/26/25 07:31
Date Received: 03/27/25 11:52

Lab Sample ID: 500-265868-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811668	ST	EET CHI	03/28/25 14:14

Client Sample ID: SB70j (10-15)
Date Collected: 03/26/25 07:31
Date Received: 03/27/25 11:52

Lab Sample ID: 500-265868-1
Matrix: Solid
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811858	KP	EET CHI	03/26/25 07:31
Total/NA	Analysis	8015D		50	812356	KP	EET CHI	04/04/25 00:29
Total/NA	Prep	3541			811709	SV	EET CHI	03/28/25 14:51 - 03/28/25 20:00 [1]
Total/NA	Analysis	8015D		1	811838	H7CM	EET CHI	03/31/25 14:51

Client Sample ID: SB21p (10-15)
Date Collected: 03/26/25 10:01
Date Received: 03/27/25 11:52

Lab Sample ID: 500-265868-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811625	ST	EET CHI	03/28/25 09:45

Client Sample ID: SB21p (10-15)
Date Collected: 03/26/25 10:01
Date Received: 03/27/25 11:52

Lab Sample ID: 500-265868-2
Matrix: Solid
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811858	KP	EET CHI	03/26/25 10:01
Total/NA	Analysis	8015D		50	812356	KP	EET CHI	04/04/25 01:02
Total/NA	Prep	3541			812044	SV	EET CHI	04/01/25 15:03 - 04/01/25 20:02 [1]
Total/NA	Analysis	8015D		1	812020	GLR	EET CHI	04/02/25 16:10

Client Sample ID: SB21q (10-15)
Date Collected: 03/26/25 12:04
Date Received: 03/27/25 11:52

Lab Sample ID: 500-265868-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811625	ST	EET CHI	03/28/25 09:45

Client Sample ID: SB21q (10-15)
Date Collected: 03/26/25 12:04
Date Received: 03/27/25 11:52

Lab Sample ID: 500-265868-3
Matrix: Solid
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811858	KP	EET CHI	03/26/25 12:04
Total/NA	Analysis	8015D		50	812356	KP	EET CHI	04/04/25 01:35
Total/NA	Prep	3541			811709	SV	EET CHI	03/28/25 14:51 - 03/28/25 20:00 [1]
Total/NA	Analysis	8015D		1	811838	H7CM	EET CHI	03/31/25 17:25

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

Client Sample ID: SB70k (10-15)
Lab Sample ID: 500-265868-4
Date Collected: 03/26/25 13:33
Matrix: Solid
Date Received: 03/27/25 11:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	811625	ST	EET CHI	03/28/25 09:45

Client Sample ID: SB70k (10-15)
Lab Sample ID: 500-265868-4
Date Collected: 03/26/25 13:33
Matrix: Solid
Date Received: 03/27/25 11:52
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			811858	KP	EET CHI	03/26/25 13:33
Total/NA	Analysis	8015D		50	812356	KP	EET CHI	04/04/25 02:09
Total/NA	Prep	3541			811709	SV	EET CHI	03/28/25 14:51 - 03/28/25 20:00 [1]
Total/NA	Analysis	8015D		20	811838	H7CM	EET CHI	03/31/25 17:47

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265868-1
Project/Site: 8080 S Lake Shore Dr.

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734279

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARBOCK	Site Contact:	Date:	COC No 1
Company Name PIONEER	Tel/Email:	Lab Contact:	Carrier:	1 of 1 COCs
Address	Analysis Turnaround Time			Sampler:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name	☐ 1 week 5 YANY			
Site 8080 S LAKE SHORE DR	☐ 2 days			Job / SDG No
P O #	☐ 1 day			~~500-265866~~ 3/27/25
				500-265868

500-265868 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPH	Sample Specific Notes
1	SB70j (10-15)	3/26/25	731	G	SO	2			X	
2	SB21p (10-15)	↓	1001	↓	↓	↓			X	
3	SB21q (10-15)	↓	1204	↓	↓	↓			X	
4	SB70k (10-15)	↓	133	↓	↓	↓			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

3.8+3.4

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	3/27/25	Isaiah Medley	EETA	3/27/25 1105
Isaiah Medley	EETA	3/27/25 1152			
			Received in Laboratory by: Stephanie Hernandez	EETA	3/27/25 1152

4/8/2025

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-265868-1

Login Number: 265868
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608
Generated 4/9/2025 4:15:17 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-266010-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
4/9/2025 4:15:17 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-266010-1 — Eurofins Chicago

Job Narrative
500-266010-1

Receipt
The samples were received on 03/31/25 11:16. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7º C.

Receipt Exceptions
Received both samples with the same ID of SB70p, per the client SB70q is the aromatic sample.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The continuing calibration verification (CCV) associated with batch 500-812677 recovered above the upper control limit for Oil Range Organics (C28-C36). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: SB70p (15-17.5) (500-266010-1).

Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB70q (15-17.5) (500-266010-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3541: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: SB70q (15-17.5) (500-266010-2). The reporting limit (RL) has been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266010-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70p (15-17.5) — Lab Sample ID: 500-266010-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	21		10		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB70q (15-17.5) — Lab Sample ID: 500-266010-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	21		1.0		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	79000		2900		mg/Kg	100	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	59000		5800		mg/Kg	100	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266010-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266010-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-266010-1	SB70p (15-17.5)	Solid	03/28/25 09:04	03/31/25 11:16
500-266010-2	SB70q (15-17.5)	Solid	03/28/25 11:11	03/31/25 11:16

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266010-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70p (15-17.5)
Lab Sample ID: 500-266010-1
Date Collected: 03/28/25 09:04
Matrix: Solid
Date Received: 03/31/25 11:16
Percent Solids: 80.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.1		1.1		mg/Kg	☼	03/28/25 09:04	04/03/25 23:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*73*		*70 - 130*	*03/28/25 09:04*	*04/03/25 23:22*	*50*
4-Bromofluorobenzene	*85*		*60 - 130*	*03/28/25 09:04*	*04/03/25 23:22*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**21**		10		mg/Kg	☼	04/04/25 07:19	04/07/25 13:26	1
Oil Range Organics (C28-C36)	<20		20		mg/Kg	☼	04/04/25 07:19	04/07/25 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*107*		*50 - 126*	*04/04/25 07:19*	*04/07/25 13:26*	*1*
2-Fluorobiphenyl (Surr)	*88*		*40 - 133*	*04/04/25 07:19*	*04/07/25 13:26*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266010-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70q (15-17.5)
Lab Sample ID: 500-266010-2
Date Collected: 03/28/25 11:11
Matrix: Solid
Date Received: 03/31/25 11:16
Percent Solids: 83.8

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	21		1.0		mg/Kg	☼	03/28/25 11:11	04/03/25 23:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*70 - 130*	*03/28/25 11:11*	*04/03/25 23:55*	*50*
4-Bromofluorobenzene	*106*		*60 - 130*	*03/28/25 11:11*	*04/03/25 23:55*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	79000		2900		mg/Kg	☼	04/04/25 07:19	04/08/25 10:26	100
Oil Range Organics (C28-C36)	59000		5800		mg/Kg	☼	04/04/25 07:19	04/08/25 10:26	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*04/04/25 07:19*	*04/08/25 10:26*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*04/04/25 07:19*	*04/08/25 10:26*	*100*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266010-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266010-1
Project/Site: 8080 District (24-0124-103)

GC VOA

Prep Batch: 812185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266010-1	SB70p (15-17.5)	Total/NA	Solid	5035	
500-266010-2	SB70q (15-17.5)	Total/NA	Solid	5035	

Analysis Batch: 812356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266010-1	SB70p (15-17.5)	Total/NA	Solid	8015D	812185
500-266010-2	SB70q (15-17.5)	Total/NA	Solid	8015D	812185
MB 500-812356/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-812356/5	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 812444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266010-1	SB70p (15-17.5)	Total/NA	Solid	3541	
500-266010-2	SB70q (15-17.5)	Total/NA	Solid	3541	
MB 500-812444/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-812444/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-266010-1 MS	SB70p (15-17.5)	Total/NA	Solid	3541	
500-266010-1 MSD	SB70p (15-17.5)	Total/NA	Solid	3541	

Analysis Batch: 812537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-812444/1-A	Method Blank	Total/NA	Solid	8015D	812444
LCS 500-812444/2-A	Lab Control Sample	Total/NA	Solid	8015D	812444

Analysis Batch: 812677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266010-1	SB70p (15-17.5)	Total/NA	Solid	8015D	812444
500-266010-1 MS	SB70p (15-17.5)	Total/NA	Solid	8015D	812444
500-266010-1 MSD	SB70p (15-17.5)	Total/NA	Solid	8015D	812444

Analysis Batch: 812788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266010-2	SB70q (15-17.5)	Total/NA	Solid	8015D	812444

General Chemistry

Analysis Batch: 812018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266010-1	SB70p (15-17.5)	Total/NA	Solid	Moisture	
500-266010-2	SB70q (15-17.5)	Total/NA	Solid	Moisture	
500-266010-1 DU	SB70p (15-17.5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266010-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-266010-1	SB70p (15-17.5)	73	85
500-266010-2	SB70q (15-17.5)	100	106
LCS 500-812356/5	Lab Control Sample	82	90
MB 500-812356/6	Method Blank	78	92

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-266010-1	SB70p (15-17.5)	107	88
500-266010-1 MS	SB70p (15-17.5)	116	104
500-266010-1 MSD	SB70p (15-17.5)	102	96
500-266010-2	SB70q (15-17.5)	0 S1-	0 S1-
LCS 500-812444/2-A	Lab Control Sample	103	103
MB 500-812444/1-A	Method Blank	99	99

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-812356/6
Matrix: Solid
Analysis Batch: 812356

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			04/03/25 16:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*78*		*70 - 130*		*04/03/25 16:44*	*1*
4-Bromofluorobenzene	*92*		*60 - 130*		*04/03/25 16:44*	*1*

Lab Sample ID: LCS 500-812356/5
Matrix: Solid
Analysis Batch: 812356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			0.397	0.336		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*82*		*70 - 130*
4-Bromofluorobenzene	*90*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-812444/1-A
Matrix: Solid
Analysis Batch: 812537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 812444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		04/04/25 07:19	04/05/25 02:08	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		04/04/25 07:19	04/05/25 02:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*99*		*50 - 126*	*04/04/25 07:19*	*04/05/25 02:08*	*1*
2-Fluorobiphenyl (Surr)	*99*		*40 - 133*	*04/04/25 07:19*	*04/05/25 02:08*	*1*

Lab Sample ID: LCS 500-812444/2-A
Matrix: Solid
Analysis Batch: 812537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 812444

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	70.3		mg/Kg		105	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*103*		*50 - 126*
2-Fluorobiphenyl (Surr)	*103*		*40 - 133*

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 500-266010-1 MS
Matrix: Solid
Analysis Batch: 812677

Client Sample ID: SB70p (15-17.5)
Prep Type: Total/NA
Prep Batch: 812444

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	21		79.6	100		mg/Kg	☼	100	60 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*116*		*50 - 126*
2-Fluorobiphenyl (Surr)	*104*		*40 - 133*

Lab Sample ID: 500-266010-1 MSD
Matrix: Solid
Analysis Batch: 812677

Client Sample ID: SB70p (15-17.5)
Prep Type: Total/NA
Prep Batch: 812444

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	21		82.3	96.0		mg/Kg	☼	92	60 - 125	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*102*		*50 - 126*
2-Fluorobiphenyl (Surr)	*96*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266010-1

Client Sample ID: SB70p (15-17.5)
Date Collected: 03/28/25 09:04
Date Received: 03/31/25 11:16

Lab Sample ID: 500-266010-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812018	ST	EET CHI	04/01/25 13:09

Client Sample ID: SB70p (15-17.5)
Date Collected: 03/28/25 09:04
Date Received: 03/31/25 11:16

Lab Sample ID: 500-266010-1
Matrix: Solid
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812185	KP	EET CHI	03/28/25 09:04
Total/NA	Analysis	8015D		50	812356	KP	EET CHI	04/03/25 23:22
Total/NA	Prep	3541			812444	FRG	EET CHI	04/04/25 07:19 - 04/04/25 12:58 [1]
Total/NA	Analysis	8015D		1	812677	NMB	EET CHI	04/07/25 13:26

Client Sample ID: SB70q (15-17.5)
Date Collected: 03/28/25 11:11
Date Received: 03/31/25 11:16

Lab Sample ID: 500-266010-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812018	ST	EET CHI	04/01/25 13:09

Client Sample ID: SB70q (15-17.5)
Date Collected: 03/28/25 11:11
Date Received: 03/31/25 11:16

Lab Sample ID: 500-266010-2
Matrix: Solid
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812185	KP	EET CHI	03/28/25 11:11
Total/NA	Analysis	8015D		50	812356	KP	EET CHI	04/03/25 23:55
Total/NA	Prep	3541			812444	FRG	EET CHI	04/04/25 07:19 - 04/04/25 12:58 [1]
Total/NA	Analysis	8015D		100	812788	H7CM	EET CHI	04/08/25 10:26

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266010-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734276

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARRELL	Site Contact:	Date:	COC No 1 of 1 COCs
Company Name PIONEER	Tel/Email:	Lab Contact:	Carrier:	Sampler
Address	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS (STAND)			For Lab Use Only. Walk-in Client / Lab Sampling
City/State/Zip	TAT if different from Below: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			
Phone				
Fax				
Project Name				
Site 8080 S LAKE SHORE DR				Job / SDG No 500-266010
P O #				

500-266010 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TOX	Sample Specific Notes
1	SB70P(15-17.5)	3/28/25	904	G	SO	2			X	
2	SB709(15-17.5)	↓	1111	↓	↓	↓			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 2.1 Corr'd 1.7 | Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	3/31/25	Received by	EETA	3/31/25 0930
Relinquished by	EETA 3/31/25	1116	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	EETA	3/31/25 1116

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-266010-1

Login Number: 266010
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/8/2025 3:42:46 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-266043-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-266043-1 — Eurofins Chicago

Job Narrative
500-266043-1

Receipt
The samples were received on 04/01/25 12:25. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.2º C.

Receipt Exceptions
Received both bottles for sample 1 with ID of SB71a (15-17.5), logged per COC.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB70s (15-17.5) (500-266043-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266043-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70r (15-17.5) — Lab Sample ID: 500-266043-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	28		9.7		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB70s (15-17.5) — Lab Sample ID: 500-266043-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	6.8		0.88		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	3100		170		mg/Kg	20	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	2100		350		mg/Kg	20	☼	8015D	Total/NA

Client Sample ID: SB70t (10-15) — Lab Sample ID: 500-266043-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	11		9.6		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB61u (15-17.5) — Lab Sample ID: 500-266043-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	3.1		1.1		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	110		49		mg/Kg	5	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	140		98		mg/Kg	5	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266043-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266043-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-266043-1	SB70r (15-17.5)	Solid	03/31/25 08:37	04/01/25 12:25
500-266043-2	SB70s (15-17.5)	Solid	03/31/25 11:02	04/01/25 12:25
500-266043-3	SB70t (10-15)	Solid	03/31/25 12:37	04/01/25 12:25
500-266043-4	SB61u (15-17.5)	Solid	03/31/25 14:07	04/01/25 12:25

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266043-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70r (15-17.5)
Lab Sample ID: 500-266043-1

Date Collected: 03/31/25 08:37
Matrix: Solid

Date Received: 04/01/25 12:25
Percent Solids: 83.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.1		1.1		mg/Kg	☼	03/31/25 08:37	04/04/25 21:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*03/31/25 08:37*	*04/04/25 21:03*	*50*
4-Bromofluorobenzene	*105*		*60 - 130*	*03/31/25 08:37*	*04/04/25 21:03*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**28**		9.7		mg/Kg	☼	04/01/25 15:03	04/02/25 16:32	1
Oil Range Organics (C28-C36)	<19		19		mg/Kg	☼	04/01/25 15:03	04/02/25 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*104*		*50 - 126*	*04/01/25 15:03*	*04/02/25 16:32*	*1*
2-Fluorobiphenyl (Surr)	*88*		*40 - 133*	*04/01/25 15:03*	*04/02/25 16:32*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266043-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70s (15-17.5)
Lab Sample ID: 500-266043-2
Date Collected: 03/31/25 11:02
Matrix: Solid
Date Received: 04/01/25 12:25
Percent Solids: 91.4

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	6.8		0.88		mg/Kg	☼	03/31/25 11:02	04/04/25 22:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*70 - 130*	*03/31/25 11:02*	*04/04/25 22:44*	*50*
4-Bromofluorobenzene	*101*		*60 - 130*	*03/31/25 11:02*	*04/04/25 22:44*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3100		170		mg/Kg	☼	04/01/25 15:03	04/02/25 18:22	20
Oil Range Organics (C28-C36)	2100		350		mg/Kg	☼	04/01/25 15:03	04/02/25 18:22	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*04/01/25 15:03*	*04/02/25 18:22*	*20*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*04/01/25 15:03*	*04/02/25 18:22*	*20*

Client Sample ID: SB70t (10-15)
Date Collected: 03/31/25 12:37
Date Received: 04/01/25 12:25

Lab Sample ID: 500-266043-3
Matrix: Solid
Percent Solids: 81.1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.1		1.1		mg/Kg	☼	03/31/25 12:37	04/04/25 23:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*70 - 130*	*03/31/25 12:37*	*04/04/25 23:17*	*50*
4-Bromofluorobenzene	*101*		*60 - 130*	*03/31/25 12:37*	*04/04/25 23:17*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.6		mg/Kg	☼	04/01/25 15:03	04/02/25 16:54	1
Oil Range Organics (C28-C36)	<19		19		mg/Kg	☼	04/01/25 15:03	04/02/25 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*108*		*50 - 126*	*04/01/25 15:03*	*04/02/25 16:54*	*1*
2-Fluorobiphenyl (Surr)	*87*		*40 - 133*	*04/01/25 15:03*	*04/02/25 16:54*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266043-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61u (15-17.5)
Lab Sample ID: 500-266043-4

Date Collected: 03/31/25 14:07
Matrix: Solid
Date Received: 04/01/25 12:25
Percent Solids: 84.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	3.1		1.1		mg/Kg	☼	03/31/25 14:07	04/04/25 23:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*70 - 130*	*03/31/25 14:07*	*04/04/25 23:51*	*50*
4-Bromofluorobenzene	*96*		*60 - 130*	*03/31/25 14:07*	*04/04/25 23:51*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110		49		mg/Kg	☼	04/01/25 15:03	04/02/25 18:43	5
Oil Range Organics (C28-C36)	140		98		mg/Kg	☼	04/01/25 15:03	04/02/25 18:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*102*		*50 - 126*	*04/01/25 15:03*	*04/02/25 18:43*	*5*
2-Fluorobiphenyl (Surr)	*86*		*40 - 133*	*04/01/25 15:03*	*04/02/25 18:43*	*5*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266043-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266043-1
Project/Site: 8080 District (24-0124-103)

GC VOA

Prep Batch: 812188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266043-1	SB70r (15-17.5)	Total/NA	Solid	5035	
500-266043-2	SB70s (15-17.5)	Total/NA	Solid	5035	
500-266043-3	SB70t (10-15)	Total/NA	Solid	5035	
500-266043-4	SB61u (15-17.5)	Total/NA	Solid	5035	
500-266043-1 MS	SB70r (15-17.5)	Total/NA	Solid	5035	
500-266043-1 MSD	SB70r (15-17.5)	Total/NA	Solid	5035	

Analysis Batch: 812529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266043-1	SB70r (15-17.5)	Total/NA	Solid	8015D	812188
500-266043-2	SB70s (15-17.5)	Total/NA	Solid	8015D	812188
500-266043-3	SB70t (10-15)	Total/NA	Solid	8015D	812188
500-266043-4	SB61u (15-17.5)	Total/NA	Solid	8015D	812188
MB 500-812529/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-812529/5	Lab Control Sample	Total/NA	Solid	8015D	
500-266043-1 MS	SB70r (15-17.5)	Total/NA	Solid	8015D	812188
500-266043-1 MSD	SB70r (15-17.5)	Total/NA	Solid	8015D	812188

GC Semi VOA

Analysis Batch: 812020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266043-1	SB70r (15-17.5)	Total/NA	Solid	8015D	812044
500-266043-2	SB70s (15-17.5)	Total/NA	Solid	8015D	812044
500-266043-3	SB70t (10-15)	Total/NA	Solid	8015D	812044
500-266043-4	SB61u (15-17.5)	Total/NA	Solid	8015D	812044
MB 500-812044/1-A	Method Blank	Total/NA	Solid	8015D	812044
LCS 500-812044/2-A	Lab Control Sample	Total/NA	Solid	8015D	812044

Prep Batch: 812044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266043-1	SB70r (15-17.5)	Total/NA	Solid	3541	
500-266043-2	SB70s (15-17.5)	Total/NA	Solid	3541	
500-266043-3	SB70t (10-15)	Total/NA	Solid	3541	
500-266043-4	SB61u (15-17.5)	Total/NA	Solid	3541	
MB 500-812044/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-812044/2-A	Lab Control Sample	Total/NA	Solid	3541	

General Chemistry

Analysis Batch: 812137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266043-1	SB70r (15-17.5)	Total/NA	Solid	Moisture	
500-266043-2	SB70s (15-17.5)	Total/NA	Solid	Moisture	
500-266043-3	SB70t (10-15)	Total/NA	Solid	Moisture	
500-266043-4	SB61u (15-17.5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266043-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-266043-1	SB70r (15-17.5)	96	105
500-266043-1 MS	SB70r (15-17.5)	94	100
500-266043-1 MSD	SB70r (15-17.5)	97	103
500-266043-2	SB70s (15-17.5)	92	101
500-266043-3	SB70t (10-15)	93	101
500-266043-4	SB61u (15-17.5)	90	96
LCS 500-812529/5	Lab Control Sample	95	102
MB 500-812529/6	Method Blank	89	96

Surrogate Legend

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-266043-1	SB70r (15-17.5)	104	88
500-266043-2	SB70s (15-17.5)	0 S1-	0 S1-
500-266043-3	SB70t (10-15)	108	87
500-266043-4	SB61u (15-17.5)	102	86
LCS 500-812044/2-A	Lab Control Sample	105	107
MB 500-812044/1-A	Method Blank	116	110

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 500-266043-1 MS
Matrix: Solid
Analysis Batch: 812529

Client Sample ID: SB70r (15-17.5)
Prep Type: Total/NA
Prep Batch: 812188

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)	<1.1		21.5	16.9		mg/Kg	☼	79	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*94*		*70 - 130*
4-Bromofluorobenzene	*100*		*60 - 130*

Lab Sample ID: 500-266043-1 MSD
Matrix: Solid
Analysis Batch: 812529

Client Sample ID: SB70r (15-17.5)
Prep Type: Total/NA
Prep Batch: 812188

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C6-C9)	<1.1		21.5	17.3		mg/Kg	☼	80	70 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*97*		*70 - 130*
4-Bromofluorobenzene	*103*		*60 - 130*

Lab Sample ID: MB 500-812529/6
Matrix: Solid
Analysis Batch: 812529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			04/04/25 14:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*70 - 130*		*04/04/25 14:54*	*1*
4-Bromofluorobenzene	*96*		*60 - 130*		*04/04/25 14:54*	*1*

Lab Sample ID: LCS 500-812529/5
Matrix: Solid
Analysis Batch: 812529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			0.397	0.314		mg/Kg		79	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*95*		*70 - 130*
4-Bromofluorobenzene	*102*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-812044/1-A
Matrix: Solid
Analysis Batch: 812020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 812044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		04/01/25 15:03	04/02/25 12:53	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		04/01/25 15:03	04/02/25 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*116*		*50 - 126*	*04/01/25 15:03*	*04/02/25 12:53*	*1*
2-Fluorobiphenyl (Surr)	*110*		*40 - 133*	*04/01/25 15:03*	*04/02/25 12:53*	*1*

Lab Sample ID: LCS 500-812044/2-A
Matrix: Solid
Analysis Batch: 812020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 812044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	71.8		mg/Kg		108	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*105*		*50 - 126*
2-Fluorobiphenyl (Surr)	*107*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266043-1

Client Sample ID: SB70r (15-17.5)
Date Collected: 03/31/25 08:37
Date Received: 04/01/25 12:25

Lab Sample ID: 500-266043-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812137	ST	EET CHI	04/02/25 09:28

Client Sample ID: SB70r (15-17.5)
Date Collected: 03/31/25 08:37
Date Received: 04/01/25 12:25

Lab Sample ID: 500-266043-1
Matrix: Solid
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812188	KP	EET CHI	03/31/25 08:37
Total/NA	Analysis	8015D		50	812529	KP	EET CHI	04/04/25 21:03
Total/NA	Prep	3541			812044	SV	EET CHI	04/01/25 15:03 - 04/01/25 20:02 [1]
Total/NA	Analysis	8015D		1	812020	GLR	EET CHI	04/02/25 16:32

Client Sample ID: SB70s (15-17.5)
Date Collected: 03/31/25 11:02
Date Received: 04/01/25 12:25

Lab Sample ID: 500-266043-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812137	ST	EET CHI	04/02/25 09:28

Client Sample ID: SB70s (15-17.5)
Date Collected: 03/31/25 11:02
Date Received: 04/01/25 12:25

Lab Sample ID: 500-266043-2
Matrix: Solid
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812188	KP	EET CHI	03/31/25 11:02
Total/NA	Analysis	8015D		50	812529	KP	EET CHI	04/04/25 22:44
Total/NA	Prep	3541			812044	SV	EET CHI	04/01/25 15:03 - 04/01/25 20:02 [1]
Total/NA	Analysis	8015D		20	812020	GLR	EET CHI	04/02/25 18:22

Client Sample ID: SB70t (10-15)
Date Collected: 03/31/25 12:37
Date Received: 04/01/25 12:25

Lab Sample ID: 500-266043-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812137	ST	EET CHI	04/02/25 09:28

Client Sample ID: SB70t (10-15)
Date Collected: 03/31/25 12:37
Date Received: 04/01/25 12:25

Lab Sample ID: 500-266043-3
Matrix: Solid
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812188	KP	EET CHI	03/31/25 12:37
Total/NA	Analysis	8015D		50	812529	KP	EET CHI	04/04/25 23:17
Total/NA	Prep	3541			812044	SV	EET CHI	04/01/25 15:03 - 04/01/25 20:02 [1]
Total/NA	Analysis	8015D		1	812020	GLR	EET CHI	04/02/25 16:54

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266043-1

Client Sample ID: SB61u (15-17.5)

Lab Sample ID: 500-266043-4
Matrix: Solid
Date Collected: 03/31/25 14:07
Date Received: 04/01/25 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812137	ST	EET CHI	04/02/25 09:28

Client Sample ID: SB61u (15-17.5)

Lab Sample ID: 500-266043-4
Matrix: Solid
Date Collected: 03/31/25 14:07
Date Received: 04/01/25 12:25
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812188	KP	EET CHI	03/31/25 14:07
Total/NA	Analysis	8015D		50	812529	KP	EET CHI	04/04/25 23:51
Total/NA	Prep	3541			812044	SV	EET CHI	04/01/25 15:03 - 04/01/25 20:02 [1]
Total/NA	Analysis	8015D		5	812020	GLR	EET CHI	04/02/25 18:43

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266043-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734273

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No 1 of 1 COCs
Company Name PIONEER	Tel/Email:	Lab Contact:	Carrier	Sampler
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below			Lab Sampling
Fax	☐ 2 weeks (STAND)			
Project Name 8080 S LAKESHORE AVE	☐ 1 week			Job / SDG No 500-266043
Site	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TCLP	500-266043 COC	Sample Specific Notes
1 SB70r (15-17.5)	3/31/25	837	G	SO	2			X		
2 SB70s (15-17.5)	↓	1102	↓	↓	↓			X		
3 SB70t (10-15)		1237						X		
4 SB61v (15-17.5)		207						X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd 5.6 Corr'd 5.2	Therm ID No

	Relinquished by:	Company	Date/Time	Received by:	Company	Date/Time
1		PIONEER	4/1/25		EETA	4/1/25 1130
2	Relinquished by:	Company EETA 4/1/25	Date/Time 1225	Received by:	Company	Date/Time
3	Relinquished by:	Company	Date/Time	Received in Laboratory by:	Company EETA	Date/Time 4/1/25 1225

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-266043-1

Login Number: 266043
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/11/2025 3:48:39 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-266123-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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Authorized for release by
Jim Knapp, Senior Project Manager
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(630)758-0262

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Job ID: 500-266123-1 — Eurofins Chicago

Job Narrative
500-266123-1

Receipt
The samples were received on 04/02/25 11:35. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The continuing calibration verification (CCV) associated with batch 500-812677 recovered above the upper control limit for Oil Range Organics (C28-C36). The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated sample is impacted: SB70U (15-17.5) (500-266123-1).

Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB61V (15-17.5) (500-266123-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70U (15-17.5) — Lab Sample ID: 500-266123-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	16		11		mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: SB61V (15-17.5) — Lab Sample ID: 500-266123-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4600		550		mg/Kg	50	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	6300		1100		mg/Kg	50	☼	8015D	Total/NA

Client Sample ID: SB61W (15-17.5) — Lab Sample ID: 500-266123-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	96		12		mg/Kg	1	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	51		25		mg/Kg	1	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-266123-1	SB70U (15-17.5)	Solid	04/01/25 07:01	04/02/25 11:35
500-266123-3	SB61V (15-17.5)	Solid	04/01/25 10:10	04/02/25 11:35
500-266123-4	SB61W (15-17.5)	Solid	04/01/25 11:44	04/02/25 11:35

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70U (15-17.5)
Lab Sample ID: 500-266123-1
Date Collected: 04/01/25 07:01
Matrix: Solid
Date Received: 04/02/25 11:35
Percent Solids: 75.7

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.3		1.3		mg/Kg	☼	04/01/25 07:01	04/09/25 23:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*04/01/25 07:01*	*04/09/25 23:09*	*50*
4-Bromofluorobenzene	*100*		*60 - 130*	*04/01/25 07:01*	*04/09/25 23:09*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**16**		11		mg/Kg	☼	04/04/25 07:19	04/07/25 19:58	1
Oil Range Organics (C28-C36)	<21		21		mg/Kg	☼	04/04/25 07:19	04/07/25 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*103*		*50 - 126*	*04/04/25 07:19*	*04/07/25 19:58*	*1*
2-Fluorobiphenyl (Surr)	*70*		*40 - 133*	*04/04/25 07:19*	*04/07/25 19:58*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61V (15-17.5)
Lab Sample ID: 500-266123-3
Date Collected: 04/01/25 10:10
Matrix: Solid
Date Received: 04/02/25 11:35
Percent Solids: 72.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.2		1.2		mg/Kg	☼	04/01/25 10:10	04/09/25 23:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*04/01/25 10:10*	*04/09/25 23:43*	*50*
4-Bromofluorobenzene	*99*		*60 - 130*	*04/01/25 10:10*	*04/09/25 23:43*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4600**		550		mg/Kg	☼	04/04/25 07:19	04/08/25 15:10	50
Oil Range Organics (C28-C36)	**6300**		1100		mg/Kg	☼	04/04/25 07:19	04/08/25 15:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*04/04/25 07:19*	*04/08/25 15:10*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*04/04/25 07:19*	*04/08/25 15:10*	*50*

Client Sample ID: SB61W (15-17.5)
Lab Sample ID: 500-266123-4

Date Collected: 04/01/25 11:44
Matrix: Solid

Date Received: 04/02/25 11:35
Percent Solids: 66.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.5		1.5		mg/Kg	☼	04/01/25 11:44	04/10/25 00:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*04/01/25 11:44*	*04/10/25 00:16*	*50*
4-Bromofluorobenzene	*102*		*60 - 130*	*04/01/25 11:44*	*04/10/25 00:16*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**96**		12		mg/Kg	☼	04/04/25 07:19	04/08/25 15:32	1
Oil Range Organics (C28-C36)	**51**		25		mg/Kg	☼	04/04/25 07:19	04/08/25 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*101*		*50 - 126*	*04/04/25 07:19*	*04/08/25 15:32*	*1*
2-Fluorobiphenyl (Surr)	*76*		*40 - 133*	*04/04/25 07:19*	*04/08/25 15:32*	*1*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-1
Project/Site: 8080 District (24-0124-103)

GC VOA

Prep Batch: 812375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-1	SB70U (15-17.5)	Total/NA	Solid	5035	
500-266123-3	SB61V (15-17.5)	Total/NA	Solid	5035	
500-266123-4	SB61W (15-17.5)	Total/NA	Solid	5035	

Analysis Batch: 813095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-1	SB70U (15-17.5)	Total/NA	Solid	8015D	812375
500-266123-3	SB61V (15-17.5)	Total/NA	Solid	8015D	812375
500-266123-4	SB61W (15-17.5)	Total/NA	Solid	8015D	812375
MB 500-813095/3	Method Blank	Total/NA	Solid	8015D	
LCS 500-813095/2	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 812444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-1	SB70U (15-17.5)	Total/NA	Solid	3541	
500-266123-3	SB61V (15-17.5)	Total/NA	Solid	3541	
500-266123-4	SB61W (15-17.5)	Total/NA	Solid	3541	
MB 500-812444/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-812444/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 812537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-812444/1-A	Method Blank	Total/NA	Solid	8015D	812444
LCS 500-812444/2-A	Lab Control Sample	Total/NA	Solid	8015D	812444

Analysis Batch: 812677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-1	SB70U (15-17.5)	Total/NA	Solid	8015D	812444

Analysis Batch: 812788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-3	SB61V (15-17.5)	Total/NA	Solid	8015D	812444
500-266123-4	SB61W (15-17.5)	Total/NA	Solid	8015D	812444

General Chemistry

Analysis Batch: 812350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-1	SB70U (15-17.5)	Total/NA	Solid	Moisture	
500-266123-3	SB61V (15-17.5)	Total/NA	Solid	Moisture	
500-266123-4	SB61W (15-17.5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-266123-1	SB70U (15-17.5)	94	100
500-266123-3	SB61V (15-17.5)	94	99
500-266123-4	SB61W (15-17.5)	96	102
LCS 500-813095/2	Lab Control Sample	88	93
MB 500-813095/3	Method Blank	87	95

Surrogate Legend

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-266123-1	SB70U (15-17.5)	103	70
500-266123-3	SB61V (15-17.5)	0 S1-	0 S1-
500-266123-4	SB61W (15-17.5)	101	76
LCS 500-812444/2-A	Lab Control Sample	103	103
MB 500-812444/1-A	Method Blank	99	99

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-813095/3
Matrix: Solid
Analysis Batch: 813095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			04/09/25 22:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*70 - 130*		*04/09/25 22:36*	*1*
4-Bromofluorobenzene	*95*		*60 - 130*		*04/09/25 22:36*	*1*

Lab Sample ID: LCS 500-813095/2
Matrix: Solid
Analysis Batch: 813095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	0.397	0.309		mg/Kg		78	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*88*		*70 - 130*
4-Bromofluorobenzene	*93*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-812444/1-A
Matrix: Solid
Analysis Batch: 812537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 812444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		04/04/25 07:19	04/05/25 02:08	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		04/04/25 07:19	04/05/25 02:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*99*		*50 - 126*	*04/04/25 07:19*	*04/05/25 02:08*	*1*
2-Fluorobiphenyl (Surr)	*99*		*40 - 133*	*04/04/25 07:19*	*04/05/25 02:08*	*1*

Lab Sample ID: LCS 500-812444/2-A
Matrix: Solid
Analysis Batch: 812537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 812444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	70.3		mg/Kg		105	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*103*		*50 - 126*
2-Fluorobiphenyl (Surr)	*103*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266123-1

Client Sample ID: SB70U (15-17.5)
Date Collected: 04/01/25 07:01
Date Received: 04/02/25 11:35

Lab Sample ID: 500-266123-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812350	ST	EET CHI	04/03/25 11:33

Client Sample ID: SB70U (15-17.5)
Date Collected: 04/01/25 07:01
Date Received: 04/02/25 11:35

Lab Sample ID: 500-266123-1
Matrix: Solid
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812375	KP	EET CHI	04/01/25 07:01
Total/NA	Analysis	8015D		50	813095	KP	EET CHI	04/09/25 23:09
Total/NA	Prep	3541			812444	FRG	EET CHI	04/04/25 07:19 - 04/04/25 12:58 [1]
Total/NA	Analysis	8015D		1	812677	NMB	EET CHI	04/07/25 19:58

Client Sample ID: SB61V (15-17.5)
Date Collected: 04/01/25 10:10
Date Received: 04/02/25 11:35

Lab Sample ID: 500-266123-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812350	ST	EET CHI	04/03/25 11:33

Client Sample ID: SB61V (15-17.5)
Date Collected: 04/01/25 10:10
Date Received: 04/02/25 11:35

Lab Sample ID: 500-266123-3
Matrix: Solid
Percent Solids: 72.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812375	KP	EET CHI	04/01/25 10:10
Total/NA	Analysis	8015D		50	813095	KP	EET CHI	04/09/25 23:43
Total/NA	Prep	3541			812444	FRG	EET CHI	04/04/25 07:19 - 04/04/25 12:58 [1]
Total/NA	Analysis	8015D		50	812788	H7CM	EET CHI	04/08/25 15:10

Client Sample ID: SB61W (15-17.5)
Date Collected: 04/01/25 11:44
Date Received: 04/02/25 11:35

Lab Sample ID: 500-266123-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812350	ST	EET CHI	04/03/25 11:33

Client Sample ID: SB61W (15-17.5)
Date Collected: 04/01/25 11:44
Date Received: 04/02/25 11:35

Lab Sample ID: 500-266123-4
Matrix: Solid
Percent Solids: 66.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812375	KP	EET CHI	04/01/25 11:44
Total/NA	Analysis	8015D		50	813095	KP	EET CHI	04/10/25 00:16
Total/NA	Prep	3541			812444	FRG	EET CHI	04/04/25 07:19 - 04/04/25 12:58 [1]
Total/NA	Analysis	8015D		1	812788	H7CM	EET CHI	04/08/25 15:32

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266123-1

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734272

eurofins | Environment Testing America

Address _____

Regulatory Program: ☑ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: LAKE HARTOCK	Site Contact	Date:	COC No
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier:	___ of ___ COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below			Walk-in Client
Fax	☐ 2 weeks (STAND)			Lab Sampling
Project Name	☐ 1 week			
Site: 8080S LAKE SHORE DR	☐ 2 days			Job / SDG No: 500-266123
P O #	☐ 1 day			

500-266123 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes
1	SB70U (15-17.5)	4/1/25	701	G	SO	2		X	
2	SB70V (15-17.5)		839					X	
3	SB61V (15-17.5)		1010					X	
4	SB61W (15-17.5)		1144					X	
5	SB70W (15-17.5)		137					X	
6	SB70X (15-17.5)		[illegible]					X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

2.6+2.2

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ | Therm ID No _____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	PIONEER	4/2/25			
Relinquished by	EEA 4/2/25	1135			4/2/25 1025
Relinquished by	Company	Date/Time	Received in Laboratory by: Stephanie Hernandez	Company: EEA	Date/Time: 4/12/25 1135

4/11/2025

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-266123-1

Login Number: 266123
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/9/2025 4:20:42 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-266123-2

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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4/9/2025 4:20:42 PM

Authorized for release by
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Job ID: 500-266123-2 — Eurofins Chicago

Job Narrative
500-266123-2

Receipt
The samples were received on 04/02/25 11:35. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: o-Terphenyl surrogate recovery for the following sample was outside control limits: SB70W (15-17.5) (500-266123-5). 2-Fluorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB70X (15-17.5) (500-266123-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015D: The following sample required a dilution due to the nature of the sample matrix: SB70V (15-17.5) (500-266123-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70V (15-17.5) — Lab Sample ID: 500-266123-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	29		1.0		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	7600		890		mg/Kg	100	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	2900		1800		mg/Kg	100	☼	8015D	Total/NA

Client Sample ID: SB70W (15-17.5) — Lab Sample ID: 500-266123-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	28		0.96		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	1600		91		mg/Kg	10	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	790		180		mg/Kg	10	☼	8015D	Total/NA

Client Sample ID: SB70X (15-17.5) — Lab Sample ID: 500-266123-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	2.5		0.93		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	13000		1800		mg/Kg	200	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	6800		3600		mg/Kg	200	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-2
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-2
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-266123-2	SB70V (15-17.5)	Solid	04/01/25 08:39	04/02/25 11:35
500-266123-5	SB70W (15-17.5)	Solid	04/01/25 13:37	04/02/25 11:35
500-266123-6	SB70X (15-17.5)	Solid	04/01/25 14:59	04/02/25 11:35

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70V (15-17.5)
Lab Sample ID: 500-266123-2

Date Collected: 04/01/25 08:39
Matrix: Solid

Date Received: 04/02/25 11:35
Percent Solids: 90.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	29		1.0		mg/Kg	☼	04/01/25 08:39	04/04/25 02:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*70 - 130*	*04/01/25 08:39*	*04/04/25 02:42*	*50*
4-Bromofluorobenzene	*93*		*60 - 130*	*04/01/25 08:39*	*04/04/25 02:42*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7600		890		mg/Kg	☼	04/04/25 07:19	04/08/25 18:04	100
Oil Range Organics (C28-C36)	2900		1800		mg/Kg	☼	04/04/25 07:19	04/08/25 18:04	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*04/04/25 07:19*	*04/08/25 18:04*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*04/04/25 07:19*	*04/08/25 18:04*	*100*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70W (15-17.5)
Lab Sample ID: 500-266123-5
Date Collected: 04/01/25 13:37
Matrix: Solid
Date Received: 04/02/25 11:35
Percent Solids: 90.7

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	28		0.96		mg/Kg	☼	04/01/25 13:37	04/04/25 03:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*70 - 130*	*04/01/25 13:37*	*04/04/25 03:16*	*50*
4-Bromofluorobenzene	*64*		*60 - 130*	*04/01/25 13:37*	*04/04/25 03:16*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1600		91		mg/Kg	☼	04/04/25 07:19	04/05/25 03:13	10
Oil Range Organics (C28-C36)	790		180		mg/Kg	☼	04/04/25 07:19	04/05/25 03:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*132*	*S1+*	*50 - 126*	*04/04/25 07:19*	*04/05/25 03:13*	*10*
2-Fluorobiphenyl (Surr)	*100*		*40 - 133*	*04/04/25 07:19*	*04/05/25 03:13*	*10*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70X (15-17.5)
Lab Sample ID: 500-266123-6

Date Collected: 04/01/25 14:59
Matrix: Solid

Date Received: 04/02/25 11:35
Percent Solids: 90.9

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	2.5		0.93		mg/Kg	☼	04/01/25 14:59	04/04/25 03:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*80*		*70 - 130*	*04/01/25 14:59*	*04/04/25 03:49*	*50*
4-Bromofluorobenzene	*92*		*60 - 130*	*04/01/25 14:59*	*04/04/25 03:49*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13000		1800		mg/Kg	☼	04/04/25 07:19	04/08/25 09:21	200
Oil Range Organics (C28-C36)	6800		3600		mg/Kg	☼	04/04/25 07:19	04/08/25 09:21	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*04/04/25 07:19*	*04/08/25 09:21*	*200*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*04/04/25 07:19*	*04/08/25 09:21*	*200*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-2
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-2
Project/Site: 8080 District (24-0124-103)

GC VOA

Analysis Batch: 812356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-2	SB70V (15-17.5)	Total/NA	Solid	8015D	812375
500-266123-5	SB70W (15-17.5)	Total/NA	Solid	8015D	812375
500-266123-6	SB70X (15-17.5)	Total/NA	Solid	8015D	812375
MB 500-812356/6	Method Blank	Total/NA	Solid	8015D	
LCS 500-812356/5	Lab Control Sample	Total/NA	Solid	8015D	

Prep Batch: 812375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-2	SB70V (15-17.5)	Total/NA	Solid	5035	
500-266123-5	SB70W (15-17.5)	Total/NA	Solid	5035	
500-266123-6	SB70X (15-17.5)	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 812444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-2	SB70V (15-17.5)	Total/NA	Solid	3541	
500-266123-5	SB70W (15-17.5)	Total/NA	Solid	3541	
500-266123-6	SB70X (15-17.5)	Total/NA	Solid	3541	
MB 500-812444/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-812444/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 812537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-5	SB70W (15-17.5)	Total/NA	Solid	8015D	812444
MB 500-812444/1-A	Method Blank	Total/NA	Solid	8015D	812444
LCS 500-812444/2-A	Lab Control Sample	Total/NA	Solid	8015D	812444

Analysis Batch: 812788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-6	SB70X (15-17.5)	Total/NA	Solid	8015D	812444

Analysis Batch: 812879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-2	SB70V (15-17.5)	Total/NA	Solid	8015D	812444

General Chemistry

Analysis Batch: 812350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-2	SB70V (15-17.5)	Total/NA	Solid	Moisture	
500-266123-5	SB70W (15-17.5)	Total/NA	Solid	Moisture	

Analysis Batch: 812357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266123-6	SB70X (15-17.5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-2
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-266123-2	SB70V (15-17.5)	92	93
500-266123-5	SB70W (15-17.5)	92	64
500-266123-6	SB70X (15-17.5)	80	92
LCS 500-812356/5	Lab Control Sample	82	90
MB 500-812356/6	Method Blank	78	92

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-266123-2	SB70V (15-17.5)	0 S1-	0 S1-
500-266123-5	SB70W (15-17.5)	132 S1+	100
500-266123-6	SB70X (15-17.5)	0 S1-	0 S1-
LCS 500-812444/2-A	Lab Control Sample	103	103
MB 500-812444/1-A	Method Blank	99	99

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-812356/6
Matrix: Solid
Analysis Batch: 812356

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			04/03/25 16:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*78*		*70 - 130*		*04/03/25 16:44*	*1*
4-Bromofluorobenzene	*92*		*60 - 130*		*04/03/25 16:44*	*1*

Lab Sample ID: LCS 500-812356/5
Matrix: Solid
Analysis Batch: 812356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C6-C9)			0.397	0.336		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*82*		*70 - 130*
4-Bromofluorobenzene	*90*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-812444/1-A
Matrix: Solid
Analysis Batch: 812537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 812444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		04/04/25 07:19	04/05/25 02:08	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		04/04/25 07:19	04/05/25 02:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*99*		*50 - 126*	*04/04/25 07:19*	*04/05/25 02:08*	*1*
2-Fluorobiphenyl (Surr)	*99*		*40 - 133*	*04/04/25 07:19*	*04/05/25 02:08*	*1*

Lab Sample ID: LCS 500-812444/2-A
Matrix: Solid
Analysis Batch: 812537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 812444

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	70.3		mg/Kg		105	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*103*		*50 - 126*
2-Fluorobiphenyl (Surr)	*103*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266123-2

Client Sample ID: SB70V (15-17.5)
Date Collected: 04/01/25 08:39
Date Received: 04/02/25 11:35

Lab Sample ID: 500-266123-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812350	ST	EET CHI	04/03/25 11:33

Client Sample ID: SB70V (15-17.5)
Date Collected: 04/01/25 08:39
Date Received: 04/02/25 11:35

Lab Sample ID: 500-266123-2
Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812375	KP	EET CHI	04/01/25 08:39
Total/NA	Analysis	8015D		50	812356	KP	EET CHI	04/04/25 02:42
Total/NA	Prep	3541			812444	FRG	EET CHI	04/04/25 07:19 - 04/04/25 12:58 [1]
Total/NA	Analysis	8015D		100	812879	H7CM	EET CHI	04/08/25 18:04

Client Sample ID: SB70W (15-17.5)
Date Collected: 04/01/25 13:37
Date Received: 04/02/25 11:35

Lab Sample ID: 500-266123-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812350	ST	EET CHI	04/03/25 11:33

Client Sample ID: SB70W (15-17.5)
Date Collected: 04/01/25 13:37
Date Received: 04/02/25 11:35

Lab Sample ID: 500-266123-5
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812375	KP	EET CHI	04/01/25 13:37
Total/NA	Analysis	8015D		50	812356	KP	EET CHI	04/04/25 03:16
Total/NA	Prep	3541			812444	FRG	EET CHI	04/04/25 07:19 - 04/04/25 12:58 [1]
Total/NA	Analysis	8015D		10	812537	H7CM	EET CHI	04/05/25 03:13

Client Sample ID: SB70X (15-17.5)
Date Collected: 04/01/25 14:59
Date Received: 04/02/25 11:35

Lab Sample ID: 500-266123-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812357	ST	EET CHI	04/03/25 12:06

Client Sample ID: SB70X (15-17.5)
Date Collected: 04/01/25 14:59
Date Received: 04/02/25 11:35

Lab Sample ID: 500-266123-6
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812375	KP	EET CHI	04/01/25 14:59
Total/NA	Analysis	8015D		50	812356	KP	EET CHI	04/04/25 03:49
Total/NA	Prep	3541			812444	FRG	EET CHI	04/04/25 07:19 - 04/04/25 12:58 [1]
Total/NA	Analysis	8015D		200	812788	H7CM	EET CHI	04/08/25 09:21

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-2
Project/Site: 8080 District (24-0124-103)

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266123-2
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734272

eurofins | Environment Testing America

Address _____

Regulatory Program: ☑ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARTOCK	Site Contact	Date:	COC No
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier:	___ of ___ COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below: STAND			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name	☐ 1 week			
Site: 8080S LAKE SHORE DR	☐ 2 days			Job / SDG No: 500-266123
P O #	☐ 1 day			

500-266123 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes
1	SB70U (15-17.5)	4/1/25	701	G	SO	2		X	
2	SB70V (15-17.5)		839					X	
3	SB61V (15-17.5)		1010					X	
4	SB61W (15-17.5)		1144					X	
5	SB70W (15-17.5)		137					X	
6	SB70X (15-17.5)		[illegible]					X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

2.6+2.2

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by:	PIONEER	4/2/25			
Relinquished by	PIONEER 4/2/25	1135			
Relinquished by	Company	Date/Time	Received in Laboratory by: Stephanie Hernandez	Company EEA	Date/Time: 4/2/25 1135

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-266123-2

Login Number: 266123
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/10/2025 4:39:28 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-266273-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
4/10/2025 4:39:28 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-266273-1 — Eurofins Chicago

Job Narrative
500-266273-1

Receipt
The samples were received on 04/04/25 11:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following samples required a dilution due to the nature of the sample matrix: SB70y(15-17.5) (500-266273-1) and SB61x(15-17.5) (500-266273-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266273-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70y(15-17.5) — Lab Sample ID: 500-266273-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	12000		2400		mg/Kg	250	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	7500		4800		mg/Kg	250	☼	8015D	Total/NA

Client Sample ID: SB61x(15-17.5) — Lab Sample ID: 500-266273-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	5.8		1.7		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	29000		5300		mg/Kg	500	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	37000		11000		mg/Kg	500	☼	8015D	Total/NA

Client Sample ID: SB61y(15-17.5) — Lab Sample ID: 500-266273-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	1.8		1.2		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	110		45		mg/Kg	5	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	210		92		mg/Kg	5	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266273-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266273-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-266273-1	SB70y(15-17.5)	Solid	04/03/25 09:32	04/04/25 11:50
500-266273-2	SB61x(15-17.5)	Solid	04/03/25 10:27	04/04/25 11:50
500-266273-3	SB61y(15-17.5)	Solid	04/03/25 13:37	04/04/25 11:50

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266273-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70y(15-17.5)
Lab Sample ID: 500-266273-1
Date Collected: 04/03/25 09:32
Matrix: Solid
Date Received: 04/04/25 11:50
Percent Solids: 84.1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg	☼	04/03/25 09:32	04/10/25 04:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*70 - 130*	*04/03/25 09:32*	*04/10/25 04:11*	*50*
4-Bromofluorobenzene	*95*		*60 - 130*	*04/03/25 09:32*	*04/10/25 04:11*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**12000**		2400		mg/Kg	☼	04/08/25 14:29	04/09/25 17:14	250
Oil Range Organics (C28-C36)	**7500**		4800		mg/Kg	☼	04/08/25 14:29	04/09/25 17:14	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*04/08/25 14:29*	*04/09/25 17:14*	*250*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*04/08/25 14:29*	*04/09/25 17:14*	*250*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266273-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61x(15-17.5)
Lab Sample ID: 500-266273-2
Date Collected: 04/03/25 10:27
Matrix: Solid
Date Received: 04/04/25 11:50
Percent Solids: 74.9

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	5.8		1.7		mg/Kg	☼	04/03/25 10:27	04/10/25 04:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*04/03/25 10:27*	*04/10/25 04:45*	*50*
4-Bromofluorobenzene	*97*		*60 - 130*	*04/03/25 10:27*	*04/10/25 04:45*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	29000		5300		mg/Kg	☼	04/08/25 14:29	04/09/25 17:37	500
Oil Range Organics (C28-C36)	37000		11000		mg/Kg	☼	04/08/25 14:29	04/09/25 17:37	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*04/08/25 14:29*	*04/09/25 17:37*	*500*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*04/08/25 14:29*	*04/09/25 17:37*	*500*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266273-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61y(15-17.5)
Lab Sample ID: 500-266273-3

Date Collected: 04/03/25 13:37
Matrix: Solid

Date Received: 04/04/25 11:50
Percent Solids: 87.1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	1.8		1.2		mg/Kg	☼	04/03/25 13:37	04/10/25 05:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*70 - 130*	*04/03/25 13:37*	*04/10/25 05:19*	*50*
4-Bromofluorobenzene	*95*		*60 - 130*	*04/03/25 13:37*	*04/10/25 05:19*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110		45		mg/Kg	☼	04/08/25 14:29	04/09/25 16:08	5
Oil Range Organics (C28-C36)	210		92		mg/Kg	☼	04/08/25 14:29	04/09/25 16:08	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*102*		*50 - 126*	*04/08/25 14:29*	*04/09/25 16:08*	*5*
2-Fluorobiphenyl (Surr)	*80*		*40 - 133*	*04/08/25 14:29*	*04/09/25 16:08*	*5*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266273-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266273-1
Project/Site: 8080 District (24-0124-103)

GC VOA

Prep Batch: 812708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266273-1	SB70y(15-17.5)	Total/NA	Solid	5035	
500-266273-2	SB61x(15-17.5)	Total/NA	Solid	5035	
500-266273-3	SB61y(15-17.5)	Total/NA	Solid	5035	

Analysis Batch: 813095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266273-1	SB70y(15-17.5)	Total/NA	Solid	8015D	812708
500-266273-2	SB61x(15-17.5)	Total/NA	Solid	8015D	812708
500-266273-3	SB61y(15-17.5)	Total/NA	Solid	8015D	812708
MB 500-813095/3	Method Blank	Total/NA	Solid	8015D	
LCS 500-813095/2	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 812917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266273-1	SB70y(15-17.5)	Total/NA	Solid	3541	
500-266273-2	SB61x(15-17.5)	Total/NA	Solid	3541	
500-266273-3	SB61y(15-17.5)	Total/NA	Solid	3541	
MB 500-812917/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-812917/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 813020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266273-1	SB70y(15-17.5)	Total/NA	Solid	8015D	812917
500-266273-2	SB61x(15-17.5)	Total/NA	Solid	8015D	812917
500-266273-3	SB61y(15-17.5)	Total/NA	Solid	8015D	812917
MB 500-812917/1-A	Method Blank	Total/NA	Solid	8015D	812917
LCS 500-812917/2-A	Lab Control Sample	Total/NA	Solid	8015D	812917

General Chemistry

Analysis Batch: 812710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266273-1	SB70y(15-17.5)	Total/NA	Solid	Moisture	
500-266273-2	SB61x(15-17.5)	Total/NA	Solid	Moisture	
500-266273-3	SB61y(15-17.5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266273-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-266273-1	SB70y(15-17.5)	92	95
500-266273-2	SB61x(15-17.5)	96	97
500-266273-3	SB61y(15-17.5)	87	95
LCS 500-813095/2	Lab Control Sample	88	93
MB 500-813095/3	Method Blank	87	95

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-266273-1	SB70y(15-17.5)	0 S1-	0 S1-
500-266273-2	SB61x(15-17.5)	0 S1-	0 S1-
500-266273-3	SB61y(15-17.5)	102	80
LCS 500-812917/2-A	Lab Control Sample	103	102
MB 500-812917/1-A	Method Blank	97	93

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-813095/3
Matrix: Solid
Analysis Batch: 813095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			04/09/25 22:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*70 - 130*		*04/09/25 22:36*	*1*
4-Bromofluorobenzene	*95*		*60 - 130*		*04/09/25 22:36*	*1*

Lab Sample ID: LCS 500-813095/2
Matrix: Solid
Analysis Batch: 813095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	0.397	0.309		mg/Kg		78	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*88*		*70 - 130*
4-Bromofluorobenzene	*93*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-812917/1-A
Matrix: Solid
Analysis Batch: 813020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 812917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		04/08/25 14:29	04/09/25 12:06	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		04/08/25 14:29	04/09/25 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*97*		*50 - 126*	*04/08/25 14:29*	*04/09/25 12:06*	*1*
2-Fluorobiphenyl (Surr)	*93*		*40 - 133*	*04/08/25 14:29*	*04/09/25 12:06*	*1*

Lab Sample ID: LCS 500-812917/2-A
Matrix: Solid
Analysis Batch: 813020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 812917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	71.7		mg/Kg		108	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*103*		*50 - 126*
2-Fluorobiphenyl (Surr)	*102*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266273-1

Client Sample ID: SB70y(15-17.5)
Date Collected: 04/03/25 09:32
Date Received: 04/04/25 11:50

Lab Sample ID: 500-266273-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812710	ST	EET CHI	04/07/25 10:47

Client Sample ID: SB70y(15-17.5)
Date Collected: 04/03/25 09:32
Date Received: 04/04/25 11:50

Lab Sample ID: 500-266273-1
Matrix: Solid
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812708	KP	EET CHI	04/03/25 09:32
Total/NA	Analysis	8015D		50	813095	KP	EET CHI	04/10/25 04:11
Total/NA	Prep	3541			812917	SV	EET CHI	04/08/25 14:29 - 04/08/25 19:44 [1]
Total/NA	Analysis	8015D		250	813020	H7CM	EET CHI	04/09/25 17:14

Client Sample ID: SB61x(15-17.5)
Date Collected: 04/03/25 10:27
Date Received: 04/04/25 11:50

Lab Sample ID: 500-266273-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812710	ST	EET CHI	04/07/25 10:47

Client Sample ID: SB61x(15-17.5)
Date Collected: 04/03/25 10:27
Date Received: 04/04/25 11:50

Lab Sample ID: 500-266273-2
Matrix: Solid
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812708	KP	EET CHI	04/03/25 10:27
Total/NA	Analysis	8015D		50	813095	KP	EET CHI	04/10/25 04:45
Total/NA	Prep	3541			812917	SV	EET CHI	04/08/25 14:29 - 04/08/25 19:44 [1]
Total/NA	Analysis	8015D		500	813020	H7CM	EET CHI	04/09/25 17:37

Client Sample ID: SB61y(15-17.5)
Date Collected: 04/03/25 13:37
Date Received: 04/04/25 11:50

Lab Sample ID: 500-266273-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	812710	ST	EET CHI	04/07/25 10:47

Client Sample ID: SB61y(15-17.5)
Date Collected: 04/03/25 13:37
Date Received: 04/04/25 11:50

Lab Sample ID: 500-266273-3
Matrix: Solid
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			812708	KP	EET CHI	04/03/25 13:37
Total/NA	Analysis	8015D		50	813095	KP	EET CHI	04/10/25 05:19
Total/NA	Prep	3541			812917	SV	EET CHI	04/08/25 14:29 - 04/08/25 19:44 [1]
Total/NA	Analysis	8015D		5	813020	H7CM	EET CHI	04/09/25 16:08

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266273-1

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266273-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record

670172 eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact:	Date:	COC No 1
Company Name Pioneer	Tel/Email: JHartsock@pioneerenv.com	Lab Contact:	Carrier:	1 of 1 COCs
Address 2753 W. 31st St	Analysis Turnaround Time			Sampler
City/State/Zip Amarillo, TX, 79109	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below 5day			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name 5080 S. Lone Star Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No
P O #	☐ 1 day			500-266273

500-266273 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPH	Sample Specific Notes
1	SB70y(15-17.5)	4/3/25	9:32am	G	S	2			X	
2	SB61x(15-17.5)		10:27am						X	
3	SB61y(15-17.5)		1:37pm						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

1.6 +1.0

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	Pioneer	4/4/25		EA	4/4/25 1040
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	EA	4/4/25 1150			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			Stephanie Hernandez	EA	4/4/25 1150

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-266273-1

Login Number: 266273
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/22/2025 3:06:54 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-266457-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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4/22/2025 3:06:54 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-266457-1 — Eurofins Chicago

Job Narrative
500-266457-1

Receipt
The samples were received on 4/8/2025 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015D: The following samples required a dilution due to the nature of the sample matrix: SB61z (15-17.5) (500-266457-1) and SB21r (10-15) (500-266457-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266457-1

Client Sample ID: SB61z (15-17.5) — Lab Sample ID: 500-266457-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	42		1.8		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	57000		6400		mg/Kg	200	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	29000		13000		mg/Kg	200	☼	8015D	Total/NA

Client Sample ID: SB70z (10-15) — Lab Sample ID: 500-266457-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	1.4		0.96		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	210		49		mg/Kg	5	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	270		98		mg/Kg	5	☼	8015D	Total/NA

Client Sample ID: SB70aa (10-15) — Lab Sample ID: 500-266457-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	1.2		1.1		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	130		51		mg/Kg	5	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	150		100		mg/Kg	5	☼	8015D	Total/NA

Client Sample ID: SB21r (10-15) — Lab Sample ID: 500-266457-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (C6-C9)	11		0.95		mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	4000		500		mg/Kg	50	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	1500		1000		mg/Kg	50	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266457-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266457-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-266457-1	SB61z (15-17.5)	Solid	04/07/25 10:39	04/08/25 11:05
500-266457-2	SB70z (10-15)	Solid	04/07/25 11:30	04/08/25 11:05
500-266457-3	SB70aa (10-15)	Solid	04/07/25 12:45	04/08/25 11:05
500-266457-4	SB21r (10-15)	Solid	04/07/25 13:42	04/08/25 11:05

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266457-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61z (15-17.5)
Lab Sample ID: 500-266457-1
Date Collected: 04/07/25 10:39
Matrix: Solid
Date Received: 04/08/25 11:05
Percent Solids: 67.7

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	42		1.8		mg/Kg	☼	04/07/25 10:02	04/21/25 11:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*70 - 130*	*04/07/25 10:02*	*04/21/25 11:47*	*50*
4-Bromofluorobenzene	*94*		*60 - 130*	*04/07/25 10:02*	*04/21/25 11:47*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	57000		6400		mg/Kg	☼	04/11/25 06:35	04/16/25 18:01	200
Oil Range Organics (C28-C36)	29000		13000		mg/Kg	☼	04/11/25 06:35	04/16/25 18:01	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*04/11/25 06:35*	*04/16/25 18:01*	*200*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*04/11/25 06:35*	*04/16/25 18:01*	*200*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266457-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70z (10-15)
Lab Sample ID: 500-266457-2
Date Collected: 04/07/25 11:30
Matrix: Solid
Date Received: 04/08/25 11:05
Percent Solids: 82.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	1.4		0.96		mg/Kg	☼	04/07/25 10:02	04/21/25 12:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*70 - 130*	*04/07/25 10:02*	*04/21/25 12:21*	*50*
4-Bromofluorobenzene	*100*		*60 - 130*	*04/07/25 10:02*	*04/21/25 12:21*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	210		49		mg/Kg	☼	04/11/25 06:35	04/16/25 02:02	5
Oil Range Organics (C28-C36)	270		98		mg/Kg	☼	04/11/25 06:35	04/16/25 02:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*105*		*50 - 126*	*04/11/25 06:35*	*04/16/25 02:02*	*5*
2-Fluorobiphenyl (Surr)	*67*		*40 - 133*	*04/11/25 06:35*	*04/16/25 02:02*	*5*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266457-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70aa (10-15)
Lab Sample ID: 500-266457-3
Date Collected: 04/07/25 12:45
Matrix: Solid
Date Received: 04/08/25 11:05
Percent Solids: 78.4

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	1.2		1.1		mg/Kg	☼	04/07/25 10:02	04/21/25 12:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*70 - 130*	*04/07/25 10:02*	*04/21/25 12:55*	*50*
4-Bromofluorobenzene	*97*		*60 - 130*	*04/07/25 10:02*	*04/21/25 12:55*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	130		51		mg/Kg	☼	04/11/25 06:35	04/16/25 02:24	5
Oil Range Organics (C28-C36)	150		100		mg/Kg	☼	04/11/25 06:35	04/16/25 02:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*92*		*50 - 126*	*04/11/25 06:35*	*04/16/25 02:24*	*5*
2-Fluorobiphenyl (Surr)	*63*		*40 - 133*	*04/11/25 06:35*	*04/16/25 02:24*	*5*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266457-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21r (10-15)
Lab Sample ID: 500-266457-4
Date Collected: 04/07/25 13:42
Matrix: Solid
Date Received: 04/08/25 11:05
Percent Solids: 83.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	11		0.95		mg/Kg	☼	04/07/25 10:02	04/21/25 13:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*04/07/25 10:02*	*04/21/25 13:29*	*50*
4-Bromofluorobenzene	*104*		*60 - 130*	*04/07/25 10:02*	*04/21/25 13:29*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4000		500		mg/Kg	☼	04/11/25 06:35	04/16/25 18:22	50
Oil Range Organics (C28-C36)	1500		1000		mg/Kg	☼	04/11/25 06:35	04/16/25 18:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*S1-*	*50 - 126*	*04/11/25 06:35*	*04/16/25 18:22*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*40 - 133*	*04/11/25 06:35*	*04/16/25 18:22*	*50*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266457-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266457-1
Project/Site: 8080 District (24-0124-103)

GC VOA

Prep Batch: 813198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266457-1	SB61z (15-17.5)	Total/NA	Solid	5035	
500-266457-2	SB70z (10-15)	Total/NA	Solid	5035	
500-266457-3	SB70aa (10-15)	Total/NA	Solid	5035	
500-266457-4	SB21r (10-15)	Total/NA	Solid	5035	

Analysis Batch: 814428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266457-1	SB61z (15-17.5)	Total/NA	Solid	8015D	813198
500-266457-2	SB70z (10-15)	Total/NA	Solid	8015D	813198
500-266457-3	SB70aa (10-15)	Total/NA	Solid	8015D	813198
500-266457-4	SB21r (10-15)	Total/NA	Solid	8015D	813198
MB 500-814428/5	Method Blank	Total/NA	Solid	8015D	
LCS 500-814428/4	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 813300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266457-1	SB61z (15-17.5)	Total/NA	Solid	3541	
500-266457-2	SB70z (10-15)	Total/NA	Solid	3541	
500-266457-3	SB70aa (10-15)	Total/NA	Solid	3541	
500-266457-4	SB21r (10-15)	Total/NA	Solid	3541	
MB 500-813300/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-813300/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 813795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266457-1	SB61z (15-17.5)	Total/NA	Solid	8015D	813300
500-266457-2	SB70z (10-15)	Total/NA	Solid	8015D	813300
500-266457-3	SB70aa (10-15)	Total/NA	Solid	8015D	813300
500-266457-4	SB21r (10-15)	Total/NA	Solid	8015D	813300
MB 500-813300/1-A	Method Blank	Total/NA	Solid	8015D	813300

Analysis Batch: 813874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-813300/2-A	Lab Control Sample	Total/NA	Solid	8015D	813300

General Chemistry

Analysis Batch: 813066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266457-1	SB61z (15-17.5)	Total/NA	Solid	Moisture	
500-266457-2	SB70z (10-15)	Total/NA	Solid	Moisture	
500-266457-3	SB70aa (10-15)	Total/NA	Solid	Moisture	
500-266457-4	SB21r (10-15)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266457-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-266457-1	SB61z (15-17.5)	102	94
500-266457-2	SB70z (10-15)	101	100
500-266457-3	SB70aa (10-15)	99	97
500-266457-4	SB21r (10-15)	94	104
LCS 500-814428/4	Lab Control Sample	102	96
MB 500-814428/5	Method Blank	98	97

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-266457-1	SB61z (15-17.5)	0 S1-	0 S1-
500-266457-2	SB70z (10-15)	105	67
500-266457-3	SB70aa (10-15)	92	63
500-266457-4	SB21r (10-15)	0 S1-	0 S1-
LCS 500-813300/2-A	Lab Control Sample	105	103
MB 500-813300/1-A	Method Blank	88	81

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266457-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-814428/5
Matrix: Solid
Analysis Batch: 814428

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			04/21/25 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*		*04/21/25 11:11*	*1*
4-Bromofluorobenzene	*97*		*60 - 130*		*04/21/25 11:11*	*1*

Lab Sample ID: LCS 500-814428/4
Matrix: Solid
Analysis Batch: 814428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	0.397	0.336		mg/Kg		85	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*102*		*70 - 130*
4-Bromofluorobenzene	*96*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-813300/1-A
Matrix: Solid
Analysis Batch: 813795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 813300

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		04/11/25 06:35	04/15/25 16:38	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		04/11/25 06:35	04/15/25 16:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*88*		*50 - 126*	*04/11/25 06:35*	*04/15/25 16:38*	*1*
2-Fluorobiphenyl (Surr)	*81*		*40 - 133*	*04/11/25 06:35*	*04/15/25 16:38*	*1*

Lab Sample ID: LCS 500-813300/2-A
Matrix: Solid
Analysis Batch: 813874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813300

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	68.9		mg/Kg		103	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*105*		*50 - 126*
2-Fluorobiphenyl (Surr)	*103*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266457-1

Client Sample ID: SB61z (15-17.5)
Date Collected: 04/07/25 10:39
Date Received: 04/08/25 11:05

Lab Sample ID: 500-266457-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	813066	ST	EET CHI	04/09/25 14:01

Client Sample ID: SB61z (15-17.5)
Date Collected: 04/07/25 10:39
Date Received: 04/08/25 11:05

Lab Sample ID: 500-266457-1
Matrix: Solid
Percent Solids: 67.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			813198	KP	EET CHI	04/07/25 10:02
Total/NA	Analysis	8015D		50	814428	KP	EET CHI	04/21/25 11:47
Total/NA	Prep	3541			813300	SV	EET CHI	04/11/25 06:35 - 04/11/25 10:50 [1]
Total/NA	Analysis	8015D		200	813795	EK	EET CHI	04/16/25 18:01

Client Sample ID: SB70z (10-15)
Date Collected: 04/07/25 11:30
Date Received: 04/08/25 11:05

Lab Sample ID: 500-266457-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	813066	ST	EET CHI	04/09/25 14:01

Client Sample ID: SB70z (10-15)
Date Collected: 04/07/25 11:30
Date Received: 04/08/25 11:05

Lab Sample ID: 500-266457-2
Matrix: Solid
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			813198	KP	EET CHI	04/07/25 10:02
Total/NA	Analysis	8015D		50	814428	KP	EET CHI	04/21/25 12:21
Total/NA	Prep	3541			813300	SV	EET CHI	04/11/25 06:35 - 04/11/25 10:50 [1]
Total/NA	Analysis	8015D		5	813795	EK	EET CHI	04/16/25 02:02

Client Sample ID: SB70aa (10-15)
Date Collected: 04/07/25 12:45
Date Received: 04/08/25 11:05

Lab Sample ID: 500-266457-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	813066	ST	EET CHI	04/09/25 14:01

Client Sample ID: SB70aa (10-15)
Date Collected: 04/07/25 12:45
Date Received: 04/08/25 11:05

Lab Sample ID: 500-266457-3
Matrix: Solid
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			813198	KP	EET CHI	04/07/25 10:02
Total/NA	Analysis	8015D		50	814428	KP	EET CHI	04/21/25 12:55
Total/NA	Prep	3541			813300	SV	EET CHI	04/11/25 06:35 - 04/11/25 10:50 [1]
Total/NA	Analysis	8015D		5	813795	EK	EET CHI	04/16/25 02:24

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266457-1

Client Sample ID: SB21r (10-15)
Date Collected: 04/07/25 13:42
Date Received: 04/08/25 11:05

Lab Sample ID: 500-266457-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	813066	ST	EET CHI	04/09/25 14:01

Client Sample ID: SB21r (10-15)
Date Collected: 04/07/25 13:42
Date Received: 04/08/25 11:05

Lab Sample ID: 500-266457-4
Matrix: Solid
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			813198	KP	EET CHI	04/07/25 10:02
Total/NA	Analysis	8015D		50	814428	KP	EET CHI	04/21/25 13:29
Total/NA	Prep	3541			813300	SV	EET CHI	04/11/25 06:35 - 04/11/25 10:50 [1]
Total/NA	Analysis	8015D		50	813795	EK	EET CHI	04/16/25 18:22

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266457-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734282

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARTSOCK	Site Contact:	Date:
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier:
Address	Analysis Turnaround Time		
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS		
Phone	TAT if different from Below		
Fax	☐ 2 weeks STAND		
Project Name: 8080 LAKE SHORE DR	☐ 1 week		
Site	☐ 2 days		
P O #	☐ 1 day		

COC No: 1 of ____ COCs

Sampler

For Lab Use Only:
Walk-in Client
Lab Sampling

Job / SDG No: 500-266457

500-266457 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Sample Specific Notes
1	SB612 (15-17.5)	4/7/25	1039	G	SO	2		X	
2	SB802 (10-15)		1130					X	
3	SB704a (10-15)		1245					X	
4	SB21r (10-15)		142					X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

2.7+2.3

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company: PIONEER	Date/Time: 4/8/25	Received by	Company: EETA 4-8-25 1014	Date/Time: 4-8-25 1014
Relinquished by	Company: EETA	Date/Time: 4-8-25 1105	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by: Stephanie Hernandez	Company: EETA	Date/Time: 4/8/25 1105

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-266457-1

Login Number: 266457
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/25/2025 10:49:54 AM Revision 1

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-266501-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
4/25/2025 10:49:54 AM
Revision 1

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-266501-1 — Eurofins Chicago

Job Narrative
500-266501-1

Revision
The report being provided is a revision of the original report sent on 4/22/2025. The report (revision 1) is being revised due to: The report and EDD have been revised to fix sample ID. SB21v (7.5-10) should be SB21u (7.5-10) per client request..

Receipt
The samples were received on 4/9/2025 3:12 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266501-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21s (10-15) — Lab Sample ID: 500-266501-1

No Detections.

Client Sample ID: SB21t (7.5-10) — Lab Sample ID: 500-266501-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	510		100		mg/Kg	10	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	630		200		mg/Kg	10	☼	8015D	Total/NA

Client Sample ID: SB21u (7.5-10) — Lab Sample ID: 500-266501-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	400		53		mg/Kg	5	☼	8015D	Total/NA
Oil Range Organics (C28-C36)	720		110		mg/Kg	5	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266501-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET CHI
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266501-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-266501-1	SB21s (10-15)	Solid	04/08/25 08:39	04/09/25 15:12
500-266501-2	SB21t (7.5-10)	Solid	04/08/25 11:17	04/09/25 15:12
500-266501-3	SB21u (7.5-10)	Solid	04/08/25 12:59	04/09/25 15:12

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266501-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21s (10-15)
Lab Sample ID: 500-266501-1

Date Collected: 04/08/25 08:39
Matrix: Solid

Date Received: 04/09/25 15:12
Percent Solids: 82.9

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.0		1.0		mg/Kg	☼	04/08/25 08:39	04/17/25 01:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*70 - 130*	*04/08/25 08:39*	*04/17/25 01:12*	*50*
4-Bromofluorobenzene	*94*		*60 - 130*	*04/08/25 08:39*	*04/17/25 01:12*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<9.8		9.8		mg/Kg	☼	04/11/25 06:35	04/16/25 03:07	1
Oil Range Organics (C28-C36)	<20		20		mg/Kg	☼	04/11/25 06:35	04/16/25 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*79*		*50 - 126*	*04/11/25 06:35*	*04/16/25 03:07*	*1*
2-Fluorobiphenyl (Surr)	*47*		*40 - 133*	*04/11/25 06:35*	*04/16/25 03:07*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266501-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21t (7.5-10)
Lab Sample ID: 500-266501-2
Date Collected: 04/08/25 11:17
Matrix: Solid
Date Received: 04/09/25 15:12
Percent Solids: 80.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.1		1.1		mg/Kg	☼	04/08/25 11:17	04/17/25 01:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*70 - 130*	*04/08/25 11:17*	*04/17/25 01:46*	*50*
4-Bromofluorobenzene	*93*		*60 - 130*	*04/08/25 11:17*	*04/17/25 01:46*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**510**		100		mg/Kg	☼	04/11/25 06:35	04/16/25 03:29	10
Oil Range Organics (C28-C36)	**630**		200		mg/Kg	☼	04/11/25 06:35	04/16/25 03:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*100*		*50 - 126*	*04/11/25 06:35*	*04/16/25 03:29*	*10*
2-Fluorobiphenyl (Surr)	*73*		*40 - 133*	*04/11/25 06:35*	*04/16/25 03:29*	*10*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266501-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21u (7.5-10)
Lab Sample ID: 500-266501-3
Date Collected: 04/08/25 12:59
Matrix: Solid
Date Received: 04/09/25 15:12
Percent Solids: 78.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<1.3		1.3		mg/Kg	☼	04/08/25 12:59	04/17/25 02:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*70 - 130*	*04/08/25 12:59*	*04/17/25 02:19*	*50*
4-Bromofluorobenzene	*93*		*60 - 130*	*04/08/25 12:59*	*04/17/25 02:19*	*50*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**400**		53		mg/Kg	☼	04/11/25 06:35	04/16/25 03:50	5
Oil Range Organics (C28-C36)	**720**		110		mg/Kg	☼	04/11/25 06:35	04/16/25 03:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*106*		*50 - 126*	*04/11/25 06:35*	*04/16/25 03:50*	*5*
2-Fluorobiphenyl (Surr)	*80*		*40 - 133*	*04/11/25 06:35*	*04/16/25 03:50*	*5*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266501-1
Project/Site: 8080 District (24-0124-103)

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266501-1
Project/Site: 8080 District (24-0124-103)

GC VOA

Prep Batch: 813196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266501-1	SB21s (10-15)	Total/NA	Solid	5035	
500-266501-2	SB21t (7.5-10)	Total/NA	Solid	5035	
500-266501-3	SB21u (7.5-10)	Total/NA	Solid	5035	

Analysis Batch: 813850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266501-1	SB21s (10-15)	Total/NA	Solid	8015D	813196
500-266501-2	SB21t (7.5-10)	Total/NA	Solid	8015D	813196
500-266501-3	SB21u (7.5-10)	Total/NA	Solid	8015D	813196
MB 500-813850/4	Method Blank	Total/NA	Solid	8015D	
LCS 500-813850/9	Lab Control Sample	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 813300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266501-1	SB21s (10-15)	Total/NA	Solid	3541	
500-266501-2	SB21t (7.5-10)	Total/NA	Solid	3541	
500-266501-3	SB21u (7.5-10)	Total/NA	Solid	3541	
MB 500-813300/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-813300/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 813795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266501-1	SB21s (10-15)	Total/NA	Solid	8015D	813300
500-266501-2	SB21t (7.5-10)	Total/NA	Solid	8015D	813300
500-266501-3	SB21u (7.5-10)	Total/NA	Solid	8015D	813300
MB 500-813300/1-A	Method Blank	Total/NA	Solid	8015D	813300

Analysis Batch: 813874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-813300/2-A	Lab Control Sample	Total/NA	Solid	8015D	813300

General Chemistry

Analysis Batch: 813207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266501-1	SB21s (10-15)	Total/NA	Solid	Moisture	
500-266501-2	SB21t (7.5-10)	Total/NA	Solid	Moisture	
500-266501-3	SB21u (7.5-10)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266501-1
Project/Site: 8080 District (24-0124-103)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-266501-1	SB21s (10-15)	91	94
500-266501-2	SB21t (7.5-10)	90	93
500-266501-3	SB21u (7.5-10)	89	93
LCS 500-813850/9	Lab Control Sample	100	98
MB 500-813850/4	Method Blank	101	104

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-266501-1	SB21s (10-15)	79	47
500-266501-2	SB21t (7.5-10)	100	73
500-266501-3	SB21u (7.5-10)	106	80
LCS 500-813300/2-A	Lab Control Sample	105	103
MB 500-813300/1-A	Method Blank	88	81

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 500-813850/4
Matrix: Solid
Analysis Batch: 813850

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C6-C9)	<0.020		0.020		mg/Kg			04/16/25 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*70 - 130*		*04/16/25 10:35*	*1*
4-Bromofluorobenzene	*104*		*60 - 130*		*04/16/25 10:35*	*1*

Lab Sample ID: LCS 500-813850/9
Matrix: Solid
Analysis Batch: 813850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C6-C9)	0.397	0.354		mg/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*100*		*70 - 130*
4-Bromofluorobenzene	*98*		*60 - 130*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-813300/1-A
Matrix: Solid
Analysis Batch: 813795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 813300

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.3		8.3		mg/Kg		04/11/25 06:35	04/15/25 16:38	1
Oil Range Organics (C28-C36)	<17		17		mg/Kg		04/11/25 06:35	04/15/25 16:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*88*		*50 - 126*	*04/11/25 06:35*	*04/15/25 16:38*	*1*
2-Fluorobiphenyl (Surr)	*81*		*40 - 133*	*04/11/25 06:35*	*04/15/25 16:38*	*1*

Lab Sample ID: LCS 500-813300/2-A
Matrix: Solid
Analysis Batch: 813874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813300

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	68.9		mg/Kg		103	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*105*		*50 - 126*
2-Fluorobiphenyl (Surr)	*103*		*40 - 133*

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266501-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21s (10-15)
Lab Sample ID: 500-266501-1
Date Collected: 04/08/25 08:39
Matrix: Solid
Date Received: 04/09/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	813207	ST	EET CHI	04/10/25 11:52

Client Sample ID: SB21s (10-15)
Lab Sample ID: 500-266501-1
Date Collected: 04/08/25 08:39
Matrix: Solid
Date Received: 04/09/25 15:12
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			813196	KP	EET CHI	04/08/25 08:39
Total/NA	Analysis	8015D		50	813850	KP	EET CHI	04/17/25 01:12
Total/NA	Prep	3541			813300	SV	EET CHI	04/11/25 06:35 - 04/11/25 10:50 [1]
Total/NA	Analysis	8015D		1	813795	EK	EET CHI	04/16/25 03:07

Client Sample ID: SB21t (7.5-10)
Lab Sample ID: 500-266501-2
Date Collected: 04/08/25 11:17
Matrix: Solid
Date Received: 04/09/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	813207	ST	EET CHI	04/10/25 11:52

Client Sample ID: SB21t (7.5-10)
Lab Sample ID: 500-266501-2
Date Collected: 04/08/25 11:17
Matrix: Solid
Date Received: 04/09/25 15:12
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			813196	KP	EET CHI	04/08/25 11:17
Total/NA	Analysis	8015D		50	813850	KP	EET CHI	04/17/25 01:46
Total/NA	Prep	3541			813300	SV	EET CHI	04/11/25 06:35 - 04/11/25 10:50 [1]
Total/NA	Analysis	8015D		10	813795	EK	EET CHI	04/16/25 03:29

Client Sample ID: SB21u (7.5-10)
Lab Sample ID: 500-266501-3
Date Collected: 04/08/25 12:59
Matrix: Solid
Date Received: 04/09/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	813207	ST	EET CHI	04/10/25 11:52

Client Sample ID: SB21u (7.5-10)
Lab Sample ID: 500-266501-3
Date Collected: 04/08/25 12:59
Matrix: Solid
Date Received: 04/09/25 15:12
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			813196	KP	EET CHI	04/08/25 12:59
Total/NA	Analysis	8015D		50	813850	KP	EET CHI	04/17/25 02:19
Total/NA	Prep	3541			813300	SV	EET CHI	04/11/25 06:35 - 04/11/25 10:50 [1]
Total/NA	Analysis	8015D		5	813795	EK	EET CHI	04/16/25 03:50

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266501-1

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266501-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-22-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	3541	Solid	Oil Range Organics (C28-C36)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734835

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hancock	Site Contact:	Date:	COC No 1 of 1 COCs
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier.	Sampler
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below			Lab Sampling
Fax	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day (STAND)			Job / SDG No 500-266501
Project Name: 8080 S LAKE SHORE DR				
Site				
P O #				

500-266501 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
1 SB21S (10-15)	4/8/25	839	G	SO	2		X	
2 SB21I (7.5-10)	↓	1117	↓	↓	↓		X	
3 SB21D (7.5-10)	↓	1259	↓	↓	↓		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

2.1+17

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company: PIONEER	Date/Time: 4/9/25	Received by: Isaiah Melley	Company: EETA	Date/Time: 4-9-25 1420
Relinquished by: Isaiah Melley	Company: EETA	Date/Time: 1512 4-9-25	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Stephanie Hernandez	Company: EEA	Date/Time: 4/9/25 1512

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-266501-1

Login Number: 266501
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/30/2025 2:49:47 PM Revision 1

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-266534-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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Revision 1

Authorized for release by
Jim Knapp, Senior Project Manager
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(630)758-0262

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Job ID: 500-266534-1 — Eurofins Chicago

Job Narrative
500-266534-1

Revision
The report being provided is a revision of the original report sent on 4/25/2025. The report (revision 1) is being revised due to: The report and EDD have been revised to report the VOCs, SVOCs, and Pesticides to the MDL per client request,.

Receipt
The sample was received on 4/9/2025 3:12 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7º C.

Receipt Exceptions

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-813322 was outside the method criteria for the following analyte(s): chlorobenzene, chloroform, 1,1,2-trichloroethane, methyl tert-butyl ether, 2-butanone, toluene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The following analyte(s) recovered outside control limits for the LCSD associated with analytical batch 500-813322: toluene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-813600 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-813600 was outside the method criteria for the following analyte(s): Dibenz(a,h)anthracene and Di-n-octyl phthalate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-813691 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-813691 was outside the method criteria for the following analyte(s): Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: SB145 (0-3) (500-266534-1).

Method 8081B: The following sample was diluted due to the nature of the sample matrix: SB145 (0-3) (500-266534-1). Elevated reporting limits (RLs) are provided.

Method 8082A: The %RPD between the primary and confirmation column exceeded 40% for PCB-1254 for the following sample: SB145 (0-3) (500-266534-1). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-266534-1 (Continued)

General Chemistry
Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-813910 and analytical batch 500-814069 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 9012B: The following sample(s) was analyzed outside of analytical holding time due to laboratory error.
SB145 (0-3) (500-266534-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB145 (0-3)
Lab Sample ID: 500-266534-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.016	J	0.037	0.0075	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.13		0.037	0.0063	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.13		0.037	0.0076	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.70		0.037	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.77		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1.3		0.037	0.035	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.76		0.037	0.017	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.46		0.037	0.014	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.85		0.037	0.0098	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.22		0.037	0.037	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.87		0.037	0.0086	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.014	J	0.037	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.81		0.037	0.036	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.040		0.037	0.0067	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.22		0.037	0.0080	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.78		0.037	0.010	mg/Kg	1	☼	8270E	Total/NA
2-Methylnaphthalene	0.045	J	0.075	0.0074	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.088	J	0.19	0.015	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.021	J	0.19	0.013	mg/Kg	1	☼	8270E	Total/NA
PCB-1254	1.3		0.18	0.062	mg/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	1.3		0.18	0.050	mg/Kg	10	☼	8082A	Total/NA
Aluminum	7300		21		mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.6		1.0		mg/Kg	1	☼	6010D	Total/NA
Barium	130		1.0		mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.1		0.41		mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.3		0.21		mg/Kg	1	☼	6010D	Total/NA
Calcium	160000		100		mg/Kg	5	☼	6010D	Total/NA
Chromium	190		1.0		mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.1		2.6		mg/Kg	5	☼	6010D	Total/NA
Copper	35		1.0		mg/Kg	1	☼	6010D	Total/NA
Iron	38000		21		mg/Kg	1	☼	6010D	Total/NA
Lead	170		2.6		mg/Kg	5	☼	6010D	Total/NA
Magnesium	48000		10		mg/Kg	1	☼	6010D	Total/NA
Manganese	4100		5.2		mg/Kg	5	☼	6010D	Total/NA
Nickel	23		1.0		mg/Kg	1	☼	6010D	Total/NA
Potassium	710		52		mg/Kg	1	☼	6010D	Total/NA
Selenium	1.3		1.0		mg/Kg	1	☼	6010D	Total/NA
Sodium	310		100		mg/Kg	1	☼	6010D	Total/NA
Thallium	16		5.2		mg/Kg	5	☼	6010D	Total/NA
Vanadium	67		2.6		mg/Kg	5	☼	6010D	Total/NA
Zinc	180		2.1		mg/Kg	1	☼	6010D	Total/NA
Mercury	0.47		0.018		mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.42	F1	0.26		mg/Kg	1	☼	9012B	Total/NA
pH	8.34		0.20		SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Reactive	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7.3.4	Sulfide, Reactive	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-266534-1	SB145 (0-3)	Solid	04/08/25 10:04	04/09/25 15:12

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB145 (0-3)
Lab Sample ID: 500-266534-1
Date Collected: 04/08/25 10:04
Matrix: Solid
Date Received: 04/09/25 15:12
Percent Solids: 85.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00085		0.0021	0.00085	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0021	0.0010	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
1,1,2-Trichloroethane	<0.00078		0.0021	0.00078	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
1,1-Dichloroethane	<0.00079		0.0021	0.00079	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
1,1-Dichloroethene	<0.00086		0.0021	0.00086	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
1,2-Dichloroethane	<0.0014		0.0052	0.0014	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
2-Hexanone	<0.0032		0.0052	0.0032	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0052	0.0037	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Acetone	<0.0088		0.021	0.0088	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Benzene	<0.00066		0.0021	0.00066	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Bromodichloromethane	<0.00067		0.0021	0.00067	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Bromoform	<0.0012		0.0021	0.0012	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Bromomethane	<0.0026		0.0052	0.0026	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Carbon disulfide	<0.00097		0.0052	0.00097	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Carbon tetrachloride	<0.00071		0.0021	0.00071	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Chlorobenzene	<0.00088		0.0021	0.00088	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Chloroethane	<0.0017		0.0052	0.0017	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Chloroform	<0.0015		0.0021	0.0015	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Chloromethane	<0.0010		0.0052	0.0010	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
cis-1,2-Dichloroethene	<0.00085		0.0021	0.00085	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
1,3-Dichloropropene, Total	<0.0010		0.0021	0.0010	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Dibromochloromethane	<0.00097		0.0021	0.00097	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Ethylbenzene	<0.0011		0.0021	0.0011	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Methyl tert-butyl ether	<0.00068		0.0021	0.00068	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Methylene Chloride	<0.0022		0.0052	0.0022	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Styrene	<0.00094		0.0021	0.00094	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Tetrachloroethene	<0.0012		0.0021	0.0012	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Toluene	<0.00042	*-	0.0021	0.00042	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Xylenes, Total	<0.00072		0.0042	0.00072	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
trans-1,2-Dichloroethene	<0.00079		0.0021	0.00079	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Trichloroethene	<0.00057		0.0021	0.00057	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1
Vinyl chloride	<0.00086		0.0021	0.00086	mg/Kg	☼	04/09/25 18:05	04/11/25 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*04/09/25 18:05*	*04/11/25 15:00*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*04/09/25 18:05*	*04/11/25 15:00*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 126*	*04/09/25 18:05*	*04/11/25 15:00*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*04/09/25 18:05*	*04/11/25 15:00*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.016**	**J**	0.037	0.0075	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Acenaphthylene	**0.13**		0.037	0.0063	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Anthracene	**0.13**		0.037	0.0076	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Benzo[a]anthracene	**0.70**		0.037	0.0078	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Benzo[a]pyrene	**0.77**		0.037	0.036	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Benzo[b]fluoranthene	**1.3**		0.037	0.035	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Benzo[g,h,i]perylene	**0.76**		0.037	0.017	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB145 (0-3)
Lab Sample ID: 500-266534-1
Date Collected: 04/08/25 10:04
Matrix: Solid
Date Received: 04/09/25 15:12
Percent Solids: 85.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**0.46**		0.037	0.014	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Chrysene	**0.85**		0.037	0.0098	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Dibenz(a,h)anthracene	**0.22**		0.037	0.037	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Fluoranthene	**0.87**		0.037	0.0086	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Fluorene	**0.014**	**J**	0.037	0.011	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Indeno[1,2,3-cd]pyrene	**0.81**		0.037	0.036	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Naphthalene	**0.040**		0.037	0.0067	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Phenanthrene	**0.22**		0.037	0.0080	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Pyrene	**0.78**		0.037	0.010	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
1,2,4-Trichlorobenzene	<0.026		0.19	0.026	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
1,2-Dichlorobenzene	<0.015		0.19	0.015	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
1,3-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
1,4-Dichlorobenzene	<0.017		0.19	0.017	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2,4,5-Trichlorophenol	<0.014		0.37	0.014	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2,4,6-Trichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2,4-Dichlorophenol	<0.013		0.37	0.013	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2,4-Dimethylphenol	<0.083		0.37	0.083	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2,4-Dinitrophenol	<0.21		0.75	0.21	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2,4-Dinitrotoluene	<0.021		0.19	0.021	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2,6-Dinitrotoluene	<0.026		0.19	0.026	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2-Chloronaphthalene	<0.014		0.19	0.014	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2-Chlorophenol	<0.012		0.19	0.012	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2-Methylnaphthalene	**0.045**	**J**	0.075	0.0074	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2-Methylphenol	<0.020		0.19	0.020	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2-Nitroaniline	<0.020		0.19	0.020	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
2-Nitrophenol	<0.025		0.37	0.025	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
3,3'-Dichlorobenzidine	<0.16		0.19	0.16	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
3 & 4 Methylphenol	<0.027		0.19	0.027	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
3-Nitroaniline	<0.017		0.37	0.017	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
4,6-Dinitro-2-methylphenol	<0.21		0.75	0.21	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
4-Bromophenyl phenyl ether	<0.025		0.19	0.025	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
4-Chloro-3-methylphenol	<0.031		0.37	0.031	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
4-Chloroaniline	<0.39		0.75	0.39	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
4-Chlorophenyl phenyl ether	<0.048		0.19	0.048	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
4-Nitroaniline	<0.027		0.37	0.027	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
4-Nitrophenol	<0.40		0.75	0.40	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Bis(2-chloroethoxy)methane	<0.014		0.19	0.014	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Bis(2-chloroethyl)ether	<0.017		0.19	0.017	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
bis(chloroisopropyl) ether	<0.027		0.19	0.027	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Bis(2-ethylhexyl) phthalate	<0.14		0.19	0.14	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Butyl benzyl phthalate	<0.018		0.19	0.018	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Carbazole	**0.088**	**J**	0.19	0.015	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Dibenzofuran	**0.021**	**J**	0.19	0.013	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Diethyl phthalate	<0.017		0.19	0.017	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Dimethyl phthalate	<0.0080		0.19	0.0080	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Di-n-butyl phthalate	<0.012		0.19	0.012	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Di-n-octyl phthalate	<0.26		0.37	0.26	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Hexachlorobenzene	<0.0071		0.075	0.0071	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Hexachlorobutadiene	<0.021		0.19	0.021	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1

Client Sample ID: SB145 (0-3)
Lab Sample ID: 500-266534-1
Date Collected: 04/08/25 10:04
Matrix: Solid
Date Received: 04/09/25 15:12
Percent Solids: 85.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.39		0.75	0.39	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Hexachloroethane	<0.018		0.19	0.018	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Isophorone	<0.019		0.19	0.019	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Nitrobenzene	<0.012		0.037	0.012	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
N-Nitrosodi-n-propylamine	<0.021		0.075	0.021	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
N-Nitrosodiphenylamine	<0.073		0.19	0.073	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Pentachlorophenol	<0.41		0.75	0.41	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1
Phenol	<0.016		0.19	0.016	mg/Kg	☼	04/14/25 07:28	04/15/25 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*79*		*31 - 166*	*04/14/25 07:28*	*04/15/25 13:21*	*1*
Phenol-d5 (Surr)	*77*		*30 - 153*	*04/14/25 07:28*	*04/15/25 13:21*	*1*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*04/14/25 07:28*	*04/15/25 13:21*	*1*
2-Fluorobiphenyl (Surr)	*83*		*43 - 145*	*04/14/25 07:28*	*04/15/25 13:21*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*31 - 143*	*04/14/25 07:28*	*04/15/25 13:21*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*04/14/25 07:28*	*04/15/25 13:21*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.010		0.019	0.010	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
4,4'-DDE	<0.0096		0.019	0.0096	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
4,4'-DDT	<0.0088		0.019	0.0088	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Aldrin	<0.013		0.019	0.013	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
alpha-BHC	<0.010		0.019	0.010	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
alpha-Chlordane	<0.0099		0.019	0.0099	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
beta-BHC	<0.015		0.019	0.015	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Chlordane (technical)	<0.035		0.074	0.035	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
delta-BHC	<0.0089		0.019	0.0089	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Dieldrin	<0.0097		0.019	0.0097	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Endosulfan I	<0.010		0.019	0.010	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Endosulfan II	<0.010		0.019	0.010	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Endosulfan sulfate	<0.010		0.019	0.010	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Endrin	<0.0095		0.019	0.0095	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Endrin aldehyde	<0.011		0.019	0.011	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Endrin ketone	<0.0090		0.019	0.0090	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
gamma-BHC (Lindane)	<0.0093		0.019	0.0093	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
gamma-Chlordane	<0.011		0.019	0.011	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Heptachlor	<0.010		0.019	0.010	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Heptachlor epoxide	<0.010		0.019	0.010	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Methoxychlor	<0.012		0.091	0.012	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10
Toxaphene	<0.074		0.18	0.074	mg/Kg	☼	04/14/25 14:13	04/25/25 14:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*33 - 148*	*04/14/25 14:13*	*04/25/25 14:37*	*10*
Tetrachloro-m-xylene	*85*		*30 - 121*	*04/14/25 14:13*	*04/25/25 14:37*	*10*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.072		0.18	0.072	mg/Kg	☼	04/14/25 14:13	04/24/25 10:14	10
PCB-1221	<0.072		0.18	0.072	mg/Kg	☼	04/14/25 14:13	04/24/25 10:14	10

Client Sample ID: SB145 (0-3)
Lab Sample ID: 500-266534-1
Date Collected: 04/08/25 10:04
Matrix: Solid
Date Received: 04/09/25 15:12
Percent Solids: 85.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.050		0.18	0.050	mg/Kg	☼	04/14/25 14:13	04/24/25 10:14	10
PCB-1242	<0.071		0.18	0.071	mg/Kg	☼	04/14/25 14:13	04/24/25 10:14	10
PCB-1248	<0.087		0.18	0.087	mg/Kg	☼	04/14/25 14:13	04/24/25 10:14	10
PCB-1254	**1.3**		0.18	0.062	mg/Kg	☼	04/14/25 14:13	04/24/25 10:14	10
PCB-1260	<0.069		0.18	0.069	mg/Kg	☼	04/14/25 14:13	04/24/25 10:14	10
Polychlorinated biphenyls, Total	**1.3**		0.18	0.050	mg/Kg	☼	04/14/25 14:13	04/24/25 10:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*49 - 129*	*04/14/25 14:13*	*04/24/25 10:14*	*10*
DCB Decachlorobiphenyl	*67*		*37 - 121*	*04/14/25 14:13*	*04/24/25 10:14*	*10*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7300**		21		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Antimony	<2.1		2.1		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Arsenic	**5.6**		1.0		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Barium	**130**		1.0		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Beryllium	**1.1**		0.41		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Cadmium	**1.3**		0.21		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Calcium	**160000**		100		mg/Kg	☼	04/14/25 09:27	04/17/25 01:34	5
Chromium	**190**		1.0		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Cobalt	**3.1**		2.6		mg/Kg	☼	04/14/25 09:27	04/17/25 01:34	5
Copper	**35**		1.0		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Iron	**38000**		21		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Lead	**170**		2.6		mg/Kg	☼	04/14/25 09:27	04/17/25 01:34	5
Magnesium	**48000**		10		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Manganese	**4100**		5.2		mg/Kg	☼	04/14/25 09:27	04/17/25 01:34	5
Nickel	**23**		1.0		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Potassium	**710**		52		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Selenium	**1.3**		1.0		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Silver	<2.6		2.6		mg/Kg	☼	04/14/25 09:27	04/17/25 01:34	5
Sodium	**310**		100		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1
Thallium	**16**		5.2		mg/Kg	☼	04/14/25 09:27	04/17/25 01:34	5
Vanadium	**67**		2.6		mg/Kg	☼	04/14/25 09:27	04/17/25 01:34	5
Zinc	**180**		2.1		mg/Kg	☼	04/14/25 09:27	04/14/25 20:52	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		04/15/25 09:40	04/16/25 09:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.47**		0.018		mg/Kg	☼	04/17/25 14:55	04/18/25 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.42**	**F1**	0.26		mg/Kg	☼	04/16/25 12:34	04/16/25 16:57	1
Sulfide, Reactive (SW846 9034)	<44		44		mg/Kg		04/22/25 08:56	04/27/25 17:55	1
pH (SW846 9045D)	**8.34**		0.20		SU			04/11/25 18:03	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 813322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	8260D	813379
MB 500-813322/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-813322/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-813322/8	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 813379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 813510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	3546	
MB 500-813510/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-813510/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 813600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-813510/1-A	Method Blank	Total/NA	Solid	8270E	813510
LCS 500-813510/2-A	Lab Control Sample	Total/NA	Solid	8270E	813510

Analysis Batch: 813691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	8270E	813510

GC Semi VOA

Prep Batch: 813626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	3541	
MB 500-813626/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-813626/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-813626/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 813705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-813626/1-A	Method Blank	Total/NA	Solid	8082A	813626
LCS 500-813626/3-A	Lab Control Sample	Total/NA	Solid	8082A	813626

Analysis Batch: 814651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-813626/1-A	Method Blank	Total/NA	Solid	8081B	813626
LCS 500-813626/2-A	Lab Control Sample	Total/NA	Solid	8081B	813626

Analysis Batch: 815006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	8082A	813626

Analysis Batch: 815214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	8081B	813626

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-1
Project/Site: 8080 District (24-0124-103)

Metals

Leach Batch: 813351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	TCLP	Solid	1311	
LB 500-813351/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 813551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	3050B	
MB 500-813551/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-813551/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 813673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	6010D	813551
MB 500-813551/1-A	Method Blank	Total/NA	Solid	6010D	813551
LCS 500-813551/2-A	Lab Control Sample	Total/NA	Solid	6010D	813551

Prep Batch: 813727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	TCLP	Solid	7470A	813351
LB 500-813351/1-C	Method Blank	TCLP	Solid	7470A	813351
MB 500-813727/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-813727/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 813930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	TCLP	Solid	7470A	813727
LB 500-813351/1-C	Method Blank	TCLP	Solid	7470A	813727
MB 500-813727/12-A	Method Blank	Total/NA	Solid	7470A	813727
LCS 500-813727/14-A	Lab Control Sample	Total/NA	Solid	7470A	813727

Analysis Batch: 814063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	6010D	813551
MB 500-813551/1-A	Method Blank	Total/NA	Solid	6010D	813551
LCS 500-813551/2-A	Lab Control Sample	Total/NA	Solid	6010D	813551

Prep Batch: 814113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	7471B	
MB 500-814113/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-814113/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 814305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	7471B	814113
MB 500-814113/12-A	Method Blank	Total/NA	Solid	7471B	814113
LCS 500-814113/13-A	Lab Control Sample	Total/NA	Solid	7471B	814113

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-1
Project/Site: 8080 District (24-0124-103)

General Chemistry

Analysis Batch: 813207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	Moisture	

Analysis Batch: 813505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	9045D	
LCS 500-813505/18	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-813505/19	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 813910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	9010C	
MB 500-813910/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-813910/2-A	Lab Control Sample	Total/NA	Solid	9010C	
500-266534-1 MS	SB145 (0-3)	Total/NA	Solid	9010C	
500-266534-1 MSD	SB145 (0-3)	Total/NA	Solid	9010C	

Analysis Batch: 814069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	9012B	813910
MB 500-813910/1-A	Method Blank	Total/NA	Solid	9012B	813910
LCS 500-813910/2-A	Lab Control Sample	Total/NA	Solid	9012B	813910
500-266534-1 MS	SB145 (0-3)	Total/NA	Solid	9012B	813910
500-266534-1 MSD	SB145 (0-3)	Total/NA	Solid	9012B	813910

Prep Batch: 814613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	7.3.4	
MB 500-814613/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 500-814613/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCSD 500-814613/3-A	Lab Control Sample Dup	Total/NA	Solid	7.3.4	

Analysis Batch: 814676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	Total/NA	Solid	9034	814613
MB 500-814613/1-A	Method Blank	Total/NA	Solid	9034	814613
LCS 500-814613/2-A	Lab Control Sample	Total/NA	Solid	9034	814613
LCSD 500-814613/3-A	Lab Control Sample Dup	Total/NA	Solid	9034	814613

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-266534-1	SB145 (0-3)	109	103	106	98
LCS 500-813322/5	Lab Control Sample	107	95	103	97
LCSD 500-813322/8	Lab Control Sample Dup	105	97	105	96
MB 500-813322/7	Method Blank	106	100	105	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-266534-1	SB145 (0-3)	79	77	76	83	76	86
LCS 500-813510/2-A	Lab Control Sample	89	86	85	81	80	84
MB 500-813510/1-A	Method Blank	92	89	87	81	85	87

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(33-148)	(30-121)
500-266534-1	SB145 (0-3)	106	85
LCS 500-813626/2-A	Lab Control Sample	106	103
MB 500-813626/1-A	Method Blank	94	89

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-266534-1	SB145 (0-3)	60	67
LCS 500-813626/3-A	Lab Control Sample	70	55
MB 500-813626/1-A	Method Blank	65	73

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-1
Project/Site: 8080 District (24-0124-103)

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266534-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-813322/7
Matrix: Solid
Analysis Batch: 813322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00081		0.0020	0.00081	mg/Kg			04/11/25 11:56	1
1,1,2,2-Tetrachloroethane	<0.00099		0.0020	0.00099	mg/Kg			04/11/25 11:56	1
1,1,2-Trichloroethane	<0.00075		0.0020	0.00075	mg/Kg			04/11/25 11:56	1
1,1-Dichloroethane	<0.00075		0.0020	0.00075	mg/Kg			04/11/25 11:56	1
1,1-Dichloroethene	<0.00082		0.0020	0.00082	mg/Kg			04/11/25 11:56	1
1,2-Dichloroethane	<0.0013		0.0050	0.0013	mg/Kg			04/11/25 11:56	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			04/11/25 11:56	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			04/11/25 11:56	1
2-Hexanone	<0.0030		0.0050	0.0030	mg/Kg			04/11/25 11:56	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0050	0.0036	mg/Kg			04/11/25 11:56	1
Acetone	<0.0084		0.020	0.0084	mg/Kg			04/11/25 11:56	1
Benzene	<0.00063		0.0020	0.00063	mg/Kg			04/11/25 11:56	1
Bromodichloromethane	<0.00064		0.0020	0.00064	mg/Kg			04/11/25 11:56	1
Bromoform	<0.0012		0.0020	0.0012	mg/Kg			04/11/25 11:56	1
Bromomethane	<0.0025		0.0050	0.0025	mg/Kg			04/11/25 11:56	1
Carbon disulfide	<0.00092		0.0050	0.00092	mg/Kg			04/11/25 11:56	1
Carbon tetrachloride	<0.00068		0.0020	0.00068	mg/Kg			04/11/25 11:56	1
Chlorobenzene	<0.00084		0.0020	0.00084	mg/Kg			04/11/25 11:56	1
Chloroethane	<0.0016		0.0050	0.0016	mg/Kg			04/11/25 11:56	1
Chloroform	<0.0014		0.0020	0.0014	mg/Kg			04/11/25 11:56	1
Chloromethane	<0.00097		0.0050	0.00097	mg/Kg			04/11/25 11:56	1
cis-1,2-Dichloroethene	<0.00081		0.0020	0.00081	mg/Kg			04/11/25 11:56	1
1,3-Dichloropropene, Total	<0.00096		0.0020	0.00096	mg/Kg			04/11/25 11:56	1
Dibromochloromethane	<0.00093		0.0020	0.00093	mg/Kg			04/11/25 11:56	1
Ethylbenzene	<0.0011		0.0020	0.0011	mg/Kg			04/11/25 11:56	1
Methyl tert-butyl ether	<0.00065		0.0020	0.00065	mg/Kg			04/11/25 11:56	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			04/11/25 11:56	1
Styrene	<0.00090		0.0020	0.00090	mg/Kg			04/11/25 11:56	1
Tetrachloroethene	<0.0011		0.0020	0.0011	mg/Kg			04/11/25 11:56	1
Toluene	<0.00040		0.0020	0.00040	mg/Kg			04/11/25 11:56	1
Xylenes, Total	<0.00069		0.0040	0.00069	mg/Kg			04/11/25 11:56	1
trans-1,2-Dichloroethene	<0.00076		0.0020	0.00076	mg/Kg			04/11/25 11:56	1
Trichloroethene	<0.00054		0.0020	0.00054	mg/Kg			04/11/25 11:56	1
Vinyl chloride	<0.00082		0.0020	0.00082	mg/Kg			04/11/25 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*		*04/11/25 11:56*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*		*04/11/25 11:56*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 126*		*04/11/25 11:56*	*1*
Toluene-d8 (Surr)	*95*		*75 - 124*		*04/11/25 11:56*	*1*

Lab Sample ID: LCS 500-813322/5
Matrix: Solid
Analysis Batch: 813322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0485		mg/Kg		97	70 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.0486		mg/Kg		97	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-813322/5
Matrix: Solid
Analysis Batch: 813322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0459		mg/Kg		92	70 - 125
1,1-Dichloroethane	0.0500	0.0519		mg/Kg		104	70 - 125
1,1-Dichloroethene	0.0500	0.0495		mg/Kg		99	70 - 120
1,2-Dichloroethane	0.0500	0.0494		mg/Kg		99	70 - 130
1,2-Dichloropropane	0.0500	0.0532		mg/Kg		106	70 - 125
2-Butanone (MEK)	0.0500	0.0459		mg/Kg		92	47 - 138
2-Hexanone	0.0500	0.0481		mg/Kg		96	48 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0480		mg/Kg		96	50 - 148
Acetone	0.0500	0.0379		mg/Kg		76	40 - 150
Benzene	0.0500	0.0495		mg/Kg		99	70 - 125
Bromodichloromethane	0.0500	0.0486		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0508		mg/Kg		102	68 - 136
Bromomethane	0.0500	0.0592		mg/Kg		118	70 - 130
Carbon disulfide	0.0500	0.0493		mg/Kg		99	70 - 129
Carbon tetrachloride	0.0500	0.0475		mg/Kg		95	75 - 125
Chlorobenzene	0.0500	0.0465		mg/Kg		93	50 - 150
Chloroethane	0.0500	0.0530		mg/Kg		106	75 - 125
Chloroform	0.0500	0.0455		mg/Kg		91	57 - 135
Chloromethane	0.0500	0.0530		mg/Kg		106	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0488		mg/Kg		98	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0486		mg/Kg		97	70 - 125
Dibromochloromethane	0.0500	0.0474		mg/Kg		95	69 - 125
Ethylbenzene	0.0500	0.0505		mg/Kg		101	61 - 136
Methyl tert-butyl ether	0.0500	0.0455		mg/Kg		91	50 - 140
Methylene Chloride	0.0500	0.0470		mg/Kg		94	70 - 126
Styrene	0.0500	0.0526		mg/Kg		105	70 - 125
Tetrachloroethene	0.0500	0.0495		mg/Kg		99	70 - 124
Toluene	0.0500	0.0426		mg/Kg		85	70 - 125
Xylenes, Total	0.100	0.0951		mg/Kg		95	53 - 147
trans-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0469		mg/Kg		94	70 - 125
Trichloroethene	0.0500	0.0491		mg/Kg		98	70 - 125
Vinyl chloride	0.0500	0.0514		mg/Kg		103	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*
Dibromofluoromethane (Surr)	*103*		*75 - 126*
Toluene-d8 (Surr)	*97*		*75 - 124*

Lab Sample ID: LCSD 500-813322/8
Matrix: Solid
Analysis Batch: 813322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0383		mg/Kg		77	70 - 128	24	30
1,1,2,2-Tetrachloroethane	0.0500	0.0392		mg/Kg		78	70 - 122	21	30
1,1,2-Trichloroethane	0.0500	0.0356		mg/Kg		71	70 - 125	25	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-813322/8
Matrix: Solid
Analysis Batch: 813322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0418		mg/Kg		84	70 - 125	22	30
1,1-Dichloroethene			0.0500	0.0395		mg/Kg		79	70 - 120	22	30
1,2-Dichloroethane			0.0500	0.0402		mg/Kg		80	70 - 130	20	30
1,2-Dichloropropane			0.0500	0.0420		mg/Kg		84	70 - 125	24	30
2-Butanone (MEK)			0.0500	0.0367		mg/Kg		73	47 - 138	22	30
2-Hexanone			0.0500	0.0384		mg/Kg		77	48 - 146	23	30
4-Methyl-2-pentanone (MIBK)			0.0500	0.0384		mg/Kg		77	50 - 148	22	30
Acetone			0.0500	0.0318		mg/Kg		64	40 - 150	18	30
Benzene			0.0500	0.0390		mg/Kg		78	70 - 125	24	30
Bromodichloromethane			0.0500	0.0391		mg/Kg		78	67 - 129	22	30
Bromoform			0.0500	0.0393		mg/Kg		79	68 - 136	26	30
Bromomethane			0.0500	0.0510		mg/Kg		102	70 - 130	15	30
Carbon disulfide			0.0500	0.0393		mg/Kg		79	70 - 129	23	30
Carbon tetrachloride			0.0500	0.0381		mg/Kg		76	75 - 125	22	30
Chlorobenzene			0.0500	0.0366		mg/Kg		73	50 - 150	24	30
Chloroethane			0.0500	0.0452		mg/Kg		90	75 - 125	16	30
Chloroform			0.0500	0.0357		mg/Kg		71	57 - 135	24	30
Chloromethane			0.0500	0.0443		mg/Kg		89	70 - 125	18	30
cis-1,2-Dichloroethene			0.0500	0.0392		mg/Kg		78	70 - 125	22	30
cis-1,3-Dichloropropene			0.0500	0.0374		mg/Kg		75	70 - 125	26	30
Dibromochloromethane			0.0500	0.0372		mg/Kg		74	69 - 125	24	30
Ethylbenzene			0.0500	0.0397		mg/Kg		79	61 - 136	24	30
Methyl tert-butyl ether			0.0500	0.0361		mg/Kg		72	50 - 140	23	30
Methylene Chloride			0.0500	0.0409		mg/Kg		82	70 - 126	14	30
Styrene			0.0500	0.0411		mg/Kg		82	70 - 125	25	30
Tetrachloroethene			0.0500	0.0403		mg/Kg		81	70 - 124	21	30
Toluene			0.0500	0.0332	*-	mg/Kg		66	70 - 125	25	30
Xylenes, Total			0.100	0.0757		mg/Kg		76	53 - 147	23	30
trans-1,2-Dichloroethene			0.0500	0.0382		mg/Kg		76	70 - 125	23	30
trans-1,3-Dichloropropene			0.0500	0.0365		mg/Kg		73	70 - 125	25	30
Trichloroethene			0.0500	0.0386		mg/Kg		77	70 - 125	24	30
Vinyl chloride			0.0500	0.0429		mg/Kg		86	70 - 125	18	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*
Dibromofluoromethane (Surr)	*105*		*75 - 126*
Toluene-d8 (Surr)	*96*		*75 - 124*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-813510/1-A
Matrix: Solid
Analysis Batch: 813600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 813510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		04/14/25 07:28	04/14/25 17:14	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-813510/1-A
Matrix: Solid
Analysis Batch: 813600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 813510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Benzo[g,h,i]perylene	<0.015		0.033	0.015	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
1,3-Dichlorobenzene	<0.015		0.17	0.015	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2,6-Dinitrotoluene	<0.023		0.17	0.023	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2-Chloronaphthalene	<0.012		0.17	0.012	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2-Methylnaphthalene	<0.0067		0.067	0.0067	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2-Nitroaniline	<0.018		0.17	0.018	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
2-Nitrophenol	<0.023		0.33	0.023	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
3,3'-Dichlorobenzidine	<0.15		0.17	0.15	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
3 & 4 Methylphenol	<0.024		0.17	0.024	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
3-Nitroaniline	<0.015		0.33	0.015	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
4,6-Dinitro-2-methylphenol	<0.19		0.67	0.19	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
4-Bromophenyl phenyl ether	<0.023		0.17	0.023	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
4-Chloro-3-methylphenol	<0.028		0.33	0.028	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
4-Chlorophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
4-Nitroaniline	<0.025		0.33	0.025	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
4-Nitrophenol	<0.36		0.67	0.36	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Bis(2-chloroethoxy)methane	<0.012		0.17	0.012	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
bis(chloroisopropyl) ether	<0.024		0.17	0.024	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Carbazole	<0.013		0.17	0.013	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Dibenzofuran	<0.012		0.17	0.012	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Dimethyl phthalate	<0.0072		0.17	0.0072	mg/Kg		04/14/25 07:28	04/14/25 17:14	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-813510/1-A
Matrix: Solid
Analysis Batch: 813600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 813510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Isophorone	<0.017		0.17	0.017	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
N-Nitrosodi-n-propylamine	<0.019		0.067	0.019	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
N-Nitrosodiphenylamine	<0.066		0.17	0.066	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Pentachlorophenol	<0.37		0.67	0.37	mg/Kg		04/14/25 07:28	04/14/25 17:14	1
Phenol	<0.014		0.17	0.014	mg/Kg		04/14/25 07:28	04/14/25 17:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*92*		*31 - 166*	*04/14/25 07:28*	*04/14/25 17:14*	*1*
Phenol-d5 (Surr)	*89*		*30 - 153*	*04/14/25 07:28*	*04/14/25 17:14*	*1*
Nitrobenzene-d5 (Surr)	*87*		*37 - 147*	*04/14/25 07:28*	*04/14/25 17:14*	*1*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*04/14/25 07:28*	*04/14/25 17:14*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*31 - 143*	*04/14/25 07:28*	*04/14/25 17:14*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*04/14/25 07:28*	*04/14/25 17:14*	*1*

Lab Sample ID: LCS 500-813510/2-A
Matrix: Solid
Analysis Batch: 813600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.59		mg/Kg		78	63 - 109
Acenaphthylene	3.33	2.58		mg/Kg		77	61 - 115
Anthracene	3.33	2.79		mg/Kg		84	68 - 120
Benzo[a]anthracene	3.33	2.60		mg/Kg		78	70 - 121
Benzo[a]pyrene	3.33	3.00		mg/Kg		90	73 - 132
Benzo[b]fluoranthene	3.33	2.86		mg/Kg		86	68 - 123
Benzo[g,h,i]perylene	3.33	2.74		mg/Kg		82	65 - 126
Benzo[k]fluoranthene	3.33	2.81		mg/Kg		84	64 - 128
Chrysene	3.33	2.54		mg/Kg		76	70 - 123
Dibenz(a,h)anthracene	3.33	2.92		mg/Kg		88	66 - 125
Fluoranthene	3.33	2.73		mg/Kg		82	66 - 123
Fluorene	3.33	2.62		mg/Kg		79	62 - 113
Indeno[1,2,3-cd]pyrene	3.33	2.93		mg/Kg		88	66 - 131
Naphthalene	3.33	2.53		mg/Kg		76	54 - 98
Phenanthrene	3.33	2.76		mg/Kg		83	65 - 115
Pyrene	3.33	2.83		mg/Kg		85	71 - 128
1,2,4-Trichlorobenzene	3.33	2.53		mg/Kg		76	49 - 100
1,2-Dichlorobenzene	3.33	2.51		mg/Kg		75	47 - 94
1,3-Dichlorobenzene	3.33	2.47		mg/Kg		74	47 - 92
1,4-Dichlorobenzene	3.33	2.46		mg/Kg		74	46 - 92
2,4,5-Trichlorophenol	3.33	2.90		mg/Kg		87	48 - 121
2,4,6-Trichlorophenol	3.33	2.73		mg/Kg		82	50 - 121

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266534-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-813510/2-A
Matrix: Solid
Analysis Batch: 813600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dichlorophenol	3.33	2.75		mg/Kg		82	51 - 109
2,4-Dimethylphenol	3.33	2.69		mg/Kg		81	48 - 93
2,4-Dinitrophenol	6.67	5.31		mg/Kg		80	10 - 130
2,4-Dinitrotoluene	3.33	2.66		mg/Kg		80	65 - 120
2,6-Dinitrotoluene	3.33	2.65		mg/Kg		80	66 - 117
2-Chloronaphthalene	3.33	2.64		mg/Kg		79	60 - 107
2-Chlorophenol	3.33	2.65		mg/Kg		80	50 - 102
2-Methylnaphthalene	3.33	2.60		mg/Kg		78	58 - 103
2-Methylphenol	3.33	2.72		mg/Kg		81	50 - 104
2-Nitroaniline	3.33	2.95		mg/Kg		88	61 - 126
2-Nitrophenol	3.33	2.72		mg/Kg		81	41 - 114
3,3'-Dichlorobenzidine	3.33	1.96		mg/Kg		59	36 - 131
3 & 4 Methylphenol	3.33	2.67		mg/Kg		80	49 - 109
3-Nitroaniline	3.33	2.45		mg/Kg		73	44 - 124
4,6-Dinitro-2-methylphenol	6.67	6.43		mg/Kg		96	36 - 138
4-Bromophenyl phenyl ether	3.33	2.74		mg/Kg		82	57 - 124
4-Chloro-3-methylphenol	3.33	2.77		mg/Kg		83	57 - 113
4-Chloroaniline	3.33	2.36		mg/Kg		71	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.53		mg/Kg		76	60 - 112
4-Nitroaniline	3.33	2.63		mg/Kg		79	60 - 115
4-Nitrophenol	6.67	5.00		mg/Kg		75	45 - 126
Bis(2-chloroethoxy)methane	3.33	2.63		mg/Kg		79	54 - 102
Bis(2-chloroethyl)ether	3.33	2.63		mg/Kg		79	49 - 99
bis(chloroisopropyl) ether	3.33	2.74		mg/Kg		82	43 - 111
Bis(2-ethylhexyl) phthalate	3.33	2.92		mg/Kg		88	70 - 139
Butyl benzyl phthalate	3.33	2.77		mg/Kg		83	65 - 140
Carbazole	3.33	2.79		mg/Kg		84	68 - 120
Dibenzofuran	3.33	2.59		mg/Kg		78	64 - 112
Diethyl phthalate	3.33	2.60		mg/Kg		78	66 - 115
Dimethyl phthalate	3.33	2.54		mg/Kg		76	65 - 114
Di-n-butyl phthalate	3.33	2.70		mg/Kg		81	69 - 125
Di-n-octyl phthalate	3.33	2.82		mg/Kg		84	61 - 131
Hexachlorobenzene	3.33	2.72		mg/Kg		82	52 - 126
Hexachlorobutadiene	3.33	2.44		mg/Kg		73	42 - 103
Hexachlorocyclopentadiene	3.33	2.60		mg/Kg		78	10 - 100
Hexachloroethane	3.33	2.55		mg/Kg		77	45 - 95
Isophorone	3.33	2.64		mg/Kg		79	47 - 108
Nitrobenzene	3.33	2.67		mg/Kg		80	52 - 105
N-Nitrosodi-n-propylamine	3.33	2.73		mg/Kg		82	48 - 110
N-Nitrosodiphenylamine	3.33	2.82		mg/Kg		85	67 - 112
Pentachlorophenol	6.67	5.03		mg/Kg		76	32 - 128
Phenol	3.33	2.82		mg/Kg		85	52 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*89*		*31 - 166*
Phenol-d5 (Surr)	*86*		*30 - 153*
Nitrobenzene-d5 (Surr)	*85*		*37 - 147*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-813510/2-A
Matrix: Solid
Analysis Batch: 813600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813510

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	*80*		*31 - 143*
Terphenyl-d14 (Surr)	*84*		*42 - 157*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-813626/1-A
Matrix: Solid
Analysis Batch: 814651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 813626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00091		0.0017	0.00091	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
4,4'-DDE	<0.00087		0.0017	0.00087	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
4,4'-DDT	<0.00080		0.0017	0.00080	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Aldrin	<0.0012		0.0017	0.0012	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
alpha-BHC	<0.00095		0.0017	0.00095	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
alpha-Chlordane	<0.00090		0.0017	0.00090	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
beta-BHC	<0.0014		0.0017	0.0014	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Chlordane (technical)	<0.0032		0.0067	0.0032	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
delta-BHC	<0.00081		0.0017	0.00081	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Dieldrin	<0.00088		0.0017	0.00088	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Endosulfan I	<0.00091		0.0017	0.00091	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Endosulfan II	<0.00093		0.0017	0.00093	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Endosulfan sulfate	<0.00093		0.0017	0.00093	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Endrin	<0.00086		0.0017	0.00086	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Endrin aldehyde	<0.00096		0.0017	0.00096	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Endrin ketone	<0.00082		0.0017	0.00082	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
gamma-BHC (Lindane)	<0.00084		0.0017	0.00084	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
gamma-Chlordane	<0.00097		0.0017	0.00097	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Heptachlor	<0.00091		0.0017	0.00091	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Heptachlor epoxide	<0.00091		0.0017	0.00091	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Methoxychlor	<0.0011		0.0083	0.0011	mg/Kg		04/14/25 14:13	04/22/25 12:14	1
Toxaphene	<0.0067		0.017	0.0067	mg/Kg		04/14/25 14:13	04/22/25 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*94*		*33 - 148*	*04/14/25 14:13*	*04/22/25 12:14*	*1*
Tetrachloro-m-xylene	*89*		*30 - 121*	*04/14/25 14:13*	*04/22/25 12:14*	*1*

Lab Sample ID: LCS 500-813626/2-A
Matrix: Solid
Analysis Batch: 814651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0133	0.0148		mg/Kg		111	47 - 137
4,4'-DDE	0.0133	0.0132		mg/Kg		99	50 - 130
4,4'-DDT	0.0133	0.0152		mg/Kg		114	46 - 143
Aldrin	0.0133	0.0149		mg/Kg		112	52 - 122
alpha-BHC	0.0133	0.0130		mg/Kg		98	50 - 123
beta-BHC	0.0133	0.0147		mg/Kg		110	44 - 140

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-813626/2-A
Matrix: Solid
Analysis Batch: 814651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
delta-BHC	0.0133	0.0131		mg/Kg		98	57 - 125
Dieldrin	0.0133	0.0136		mg/Kg		102	51 - 133
Endosulfan I	0.0133	0.0149		mg/Kg		112	30 - 120
Endosulfan II	0.0133	0.0156		mg/Kg		117	30 - 120
Endosulfan sulfate	0.0133	0.0139		mg/Kg		104	42 - 150
Endrin	0.0133	0.0145		mg/Kg		109	43 - 144
Endrin aldehyde	0.0133	0.00948		mg/Kg		71	39 - 131
Endrin ketone	0.0133	0.0149		mg/Kg		112	51 - 135
gamma-BHC (Lindane)	0.0133	0.0132		mg/Kg		99	50 - 122
Heptachlor	0.0133	0.0157		mg/Kg		118	53 - 129
Heptachlor epoxide	0.0133	0.0151		mg/Kg		113	50 - 139
Methoxychlor	0.0133	0.0153		mg/Kg		115	45 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*106*		*33 - 148*
Tetrachloro-m-xylene	*103*		*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-813626/1-A
Matrix: Solid
Analysis Batch: 813705

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 813626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0066		0.017	0.0066	mg/Kg		04/14/25 14:13	04/15/25 09:45	1
PCB-1221	<0.0066		0.017	0.0066	mg/Kg		04/14/25 14:13	04/15/25 09:45	1
PCB-1232	<0.0045		0.017	0.0045	mg/Kg		04/14/25 14:13	04/15/25 09:45	1
PCB-1242	<0.0065		0.017	0.0065	mg/Kg		04/14/25 14:13	04/15/25 09:45	1
PCB-1248	<0.0079		0.017	0.0079	mg/Kg		04/14/25 14:13	04/15/25 09:45	1
PCB-1254	<0.0057		0.017	0.0057	mg/Kg		04/14/25 14:13	04/15/25 09:45	1
PCB-1260	<0.0063		0.017	0.0063	mg/Kg		04/14/25 14:13	04/15/25 09:45	1
Polychlorinated biphenyls, Total	<0.0045		0.017	0.0045	mg/Kg		04/14/25 14:13	04/15/25 09:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*49 - 129*	*04/14/25 14:13*	*04/15/25 09:45*	*1*
DCB Decachlorobiphenyl	*73*		*37 - 121*	*04/14/25 14:13*	*04/15/25 09:45*	*1*

Lab Sample ID: LCS 500-813626/3-A
Matrix: Solid
Analysis Batch: 813705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.129		mg/Kg		77	57 - 120
PCB-1260	0.167	0.138		mg/Kg		83	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*70*		*49 - 129*
DCB Decachlorobiphenyl	*55*		*37 - 121*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-813551/1-A
Matrix: Solid
Analysis Batch: 813673

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 813551

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Antimony	<2.0		2.0		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Arsenic	<1.0		1.0		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Barium	<1.0		1.0		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Beryllium	<0.40		0.40		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Cadmium	<0.20		0.20		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Calcium	<20		20		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Chromium	<1.0		1.0		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Cobalt	<0.50		0.50		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Copper	<1.0		1.0		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Iron	<20		20		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Lead	<0.50		0.50		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Magnesium	<10		10		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Manganese	<1.0		1.0		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Nickel	<1.0		1.0		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Potassium	<50		50		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Selenium	<1.0		1.0		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Sodium	<100		100		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Thallium	<1.0		1.0		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Vanadium	<0.50		0.50		mg/Kg		04/14/25 09:27	04/14/25 17:08	1
Zinc	<2.0		2.0		mg/Kg		04/14/25 09:27	04/14/25 17:08	1

Lab Sample ID: MB 500-813551/1-A
Matrix: Solid
Analysis Batch: 814063

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 813551

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.50		0.50		mg/Kg		04/14/25 09:27	04/17/25 00:08	1

Lab Sample ID: LCS 500-813551/2-A
Matrix: Solid
Analysis Batch: 813673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	196		mg/Kg		98	80 - 120
Antimony	50.0	48.1		mg/Kg		96	80 - 120
Arsenic	10.0	10.1		mg/Kg		101	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	4.50		mg/Kg		90	80 - 120
Cadmium	5.00	4.86		mg/Kg		97	80 - 120
Calcium	1000	973		mg/Kg		97	80 - 120
Chromium	20.0	19.9		mg/Kg		100	80 - 120
Cobalt	50.0	49.2		mg/Kg		98	80 - 120
Copper	25.0	23.9		mg/Kg		96	80 - 120
Iron	100	99.0		mg/Kg		99	80 - 120
Lead	10.0	10.1		mg/Kg		101	80 - 120
Magnesium	1000	988		mg/Kg		99	80 - 120
Manganese	50.0	47.7		mg/Kg		95	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-813551/2-A
Matrix: Solid
Analysis Batch: 813673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	1000	1060		mg/Kg		106	80 - 120
Selenium	10.0	10.3		mg/Kg		103	80 - 120
Sodium	1000	1050		mg/Kg		105	80 - 120
Thallium	10.0	10.9		mg/Kg		109	80 - 120
Vanadium	50.0	51.2		mg/Kg		102	80 - 120
Zinc	50.0	48.1		mg/Kg		96	80 - 120

Lab Sample ID: LCS 500-813551/2-A
Matrix: Solid
Analysis Batch: 814063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	5.00	4.39		mg/Kg		88	80 - 120

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-813727/12-A
Matrix: Solid
Analysis Batch: 813930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 813727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		04/15/25 09:40	04/16/25 08:15	1

Lab Sample ID: LCS 500-813727/14-A
Matrix: Solid
Analysis Batch: 813930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00198		mg/L		99	80 - 120

Lab Sample ID: LB 500-813351/1-C
Matrix: Solid
Analysis Batch: 813930

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 813727

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		04/15/25 09:40	04/16/25 09:10	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-814113/12-A
Matrix: Solid
Analysis Batch: 814305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 814113

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		04/17/25 14:55	04/18/25 10:31	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-814113/13-A
Matrix: Solid
Analysis Batch: 814305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 814113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.168		mg/Kg		101	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-813910/1-A
Matrix: Solid
Analysis Batch: 814069

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 813910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24		mg/Kg		04/16/25 12:34	04/16/25 16:54	1

Lab Sample ID: LCS 500-813910/2-A
Matrix: Solid
Analysis Batch: 814069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 813910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.42		mg/Kg		101	85 - 115

Lab Sample ID: 500-266534-1 MS
Matrix: Solid
Analysis Batch: 814069

Client Sample ID: SB145 (0-3)
Prep Type: Total/NA
Prep Batch: 813910

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.42	F1	2.75	3.55		mg/Kg	☼	114	75 - 125

Lab Sample ID: 500-266534-1 MSD
Matrix: Solid
Analysis Batch: 814069

Client Sample ID: SB145 (0-3)
Prep Type: Total/NA
Prep Batch: 813910

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.42	F1	2.77	4.18	F1	mg/Kg	☼	136	75 - 125	16	20

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 500-814613/1-A
Matrix: Solid
Analysis Batch: 814676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 814613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	<50		50		mg/Kg		04/22/25 08:56	04/22/25 11:40	1

Lab Sample ID: LCS 500-814613/2-A
Matrix: Solid
Analysis Batch: 814676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 814613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	163	119		mg/Kg		73	70 - 130

Method: 9034 - Sulfide, Reactive (Continued)

Lab Sample ID: LCSD 500-814613/3-A
Matrix: Solid
Analysis Batch: 814676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 814613

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Reactive			163	121		mg/Kg		74	70 - 130	2	30

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-266534-1

Client Sample ID: SB145 (0-3)

Date Collected: 04/08/25 10:04
Date Received: 04/09/25 15:12

Lab Sample ID: 500-266534-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			813351	JL	EET CHI	04/11/25 12:13 - 04/12/25 06:13 [1]
TCLP	Prep	7470A			813727	MJG	EET CHI	04/15/25 09:40 - 04/15/25 11:40 [1]
TCLP	Analysis	7470A		1	813930	MJG	EET CHI	04/16/25 09:12
Total/NA	Prep	7.3.4			814613	TR	EET CHI	04/22/25 08:56
Total/NA	Analysis	9034		1	814676	TR	EET CHI	04/27/25 17:55
Total/NA	Analysis	9045D		1	813505	ST	EET CHI	04/11/25 18:03
Total/NA	Analysis	Moisture		1	813207	ST	EET CHI	04/10/25 11:52

Client Sample ID: SB145 (0-3)

Date Collected: 04/08/25 10:04
Date Received: 04/09/25 15:12

Lab Sample ID: 500-266534-1
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			813379	OP	EET CHI	04/09/25 18:05
Total/NA	Analysis	8260D		1	813322	OP	EET CHI	04/11/25 15:00
Total/NA	Prep	3546			813510	SC	EET CHI	04/14/25 07:28
Total/NA	Analysis	8270E		1	813691	H7CM	EET CHI	04/15/25 13:21
Total/NA	Prep	3541			813626	SV	EET CHI	04/14/25 14:13 - 04/14/25 20:29 [1]
Total/NA	Analysis	8081B		10	815214	GLR	EET CHI	04/25/25 14:37
Total/NA	Prep	3541			813626	SV	EET CHI	04/14/25 14:13 - 04/14/25 20:29 [1]
Total/NA	Analysis	8082A		10	815006	H7CM	EET CHI	04/24/25 10:14
Total/NA	Prep	3050B			813551	BDE	EET CHI	04/14/25 09:27 - 04/14/25 15:27 [1]
Total/NA	Analysis	6010D		1	813673	SJ	EET CHI	04/14/25 20:52
Total/NA	Prep	3050B			813551	BDE	EET CHI	04/14/25 09:27 - 04/14/25 15:27 [1]
Total/NA	Analysis	6010D		5	814063	SJ	EET CHI	04/17/25 01:34
Total/NA	Prep	7471B			814113	MJG	EET CHI	04/17/25 14:55
Total/NA	Analysis	7471B		1	814305	MJG	EET CHI	04/18/25 11:13
Total/NA	Prep	9010C			813910	AC	EET CHI	04/16/25 12:34 - 04/16/25 13:04 [1]
Total/NA	Analysis	9012B		1	814069	AC	EET CHI	04/16/25 16:57

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
9034	7.3.4	Solid	Sulfide, Reactive
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 734281

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact		Project Manager: JACOB HARTSOCK	Site Contact:	Date:	COC No 1 of 1 COCs
Company Name	PIONEER	Tel/Email:	Lab Contact:	Carrier:	
Address		Analysis Turnaround Time			Sampler
City/State/Zip		☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone		TAT if different from Below			Walk-in Client
Fax		☐ 2 weeks			Lab Sampling
Project Name	8080 S LAKE SHORE Dr	☐ 1 week STAND			
Site		☐ 2 days			Job / SDG No
P O #		☐ 1 day			500-266534

500-266534 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL	pH	TCLP HS	TCLP CYANIDE	REACTIVITY	SPLP EXTRACTION	Sample Specific Notes
SB145(0-3)	4/8/25	1004	G	SO	4			X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

2.1+1.7

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by:	Company	Date/Time	Received by:	Company	Date/Time
[signature]	PIONEER	4/9/25	Isaiah Malley	EETA	4-9-25 1420
Isaiah Malley	EETA	4/9/25 1512			
			Received in Laboratory by: Stephanie Hernandez	EETA	4/9/25 1512

4/30/2025 (Rev. 1)

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-266534-1

Login Number: 266534
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/13/2025 7:11:58 AM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-255852-10

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/13/2025 7:11:58 AM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-255852-10 — Eurofins Chicago

Job Narrative
500-255852-10

Receipt
The samples were received on 8/29/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

Receipt Exceptions
Received 16oz soil jar with two different sample IDs-client paper label list SB4 (0-3) and soil lid list SB5 (0-3). Already received soil jar for SB4 (0-3) with paper label and lid matching. Logged jar per sample ID on lid (SB5 0-3). Received two sets of voas with same ID of SB4 (0-3). For the SB4 (0-3) true sample client wrote in blue ink, and the other "SB4 (0-3)" being logged as SB5 (0-3) client wrote in black ink. This set was also packaged with other SB5 sample vials.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-255852-2 — Eurofins Chicago

Job Narrative
500-255852-2

Revision
The report being provided is a revision of the original report sent on 10/16/2024. The report (revision 1) is being revised due to: Report TCLP Fe & Th for SB (5-7.5) per client request.

Receipt
The samples were received on 8/29/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

Receipt Exceptions
Received 16oz soil jar with two different sample IDs-client paper label list SB4 (0-3) and soil lid list SB5 (0-3). Already received soil jar for SB4 (0-3) with paper label and lid matching. Logged jar per sample ID on lid (SB5 0-3). Received two sets of voas with same ID of SB4 (0-3). For the SB4 (0-3) true sample client wrote in blue ink, and the other "SB4 (0-3)" being logged as SB5 (0-3) client wrote in black ink. This set was also packaged with other SB5 sample vials.

Metals
Method 6020B: Barium and Lead exceeded the reporting limit in the leachate blank. Process cleanliness cannot be guaranteed for samples undergoing metals leachate procedures at the requested reporting limit. SB3 (5-7.5) (500-255852-6)

Method 6020B: The leachate blank for 240-630579 and 240-630669 contained iron above the reporting limit (RL). Associated sample(s) were not re-digested because results were greater than 10X the value found in the leachate blank. SB3 (5-7.5) (500-255852-6)

Method 7470A: The following sample(s) was prepared outside of preparation holding time due to mercury being requested after hold time had expired. SB3 (5-7.5) (500-255852-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 1311: The following sample was prepared outside of preparation holding time due to the analysis being requested after the holding time had elapsed: SB3 (5-7.5) (500-255852-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-255852-3 — Eurofins Chicago

Job Narrative
500-255852-3

Revision
The report being provided is a revision of the original report sent on 10/30/2024. The report (revision 2) is being revised due to: Add SPLP Fe to SB3 (5-7.5) per client request.

Report revision history
Revision 1 - 1/16/2025 - Reason - Report TCLP Fe from SB4 (0-3) & SPLP Mn from SB (5-7.5) per client request.

Receipt
The samples were received on 8/29/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

Receipt Exceptions

Received 16oz soil jar with two different sample IDs-client paper label list SB4 (0-3) and soil lid list SB5 (0-3). Already received soil jar for SB4 (0-3) with paper label and lid matching. Logged jar per sample ID on lid (SB5 0-3). Received two sets of voas with same ID of SB4 (0-3). For the SB4 (0-3) true sample client wrote in blue ink, and the other "SB4 (0-3)" being logged as SB5 (0-3) client wrote in black ink. This set was also packaged with other SB5 sample vials.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-255852-4 — Eurofins Chicago

Job Narrative
500-255852-4

Revision
The report being provided is a revision of the original report sent on 11/7/2024. The report (revision 1) is being revised due to: Add SPLP Fe to SB4 (0-3) per client request.

Receipt
The samples were received on 8/29/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

Receipt Exceptions

Received 16oz soil jar with two different sample IDs-client paper label list SB4 (0-3) and soil lid list SB5 (0-3). Already received soil jar for SB4 (0-3) with paper label and lid matching. Logged jar per sample ID on lid (SB5 0-3). Received two sets of voas with same ID of SB4 (0-3). For the SB4 (0-3) true sample client wrote in blue ink, and the other "SB4 (0-3)" being logged as SB5 (0-3) client wrote in black ink. This set was also packaged with other SB5 sample vials.

Metals
Method 6010D: The leach blank for prep batch 793820 contained Fe above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-255852-5 — Eurofins Chicago

Job Narrative
500-255852-5

Receipt
The samples were received on 8/29/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

Receipt Exceptions

Received 16oz soil jar with two different sample IDs-client paper label list SB4 (0-3) and soil lid list SB5 (0-3). Already received soil jar for SB4 (0-3) with paper label and lid matching. Logged jar per sample ID on lid (SB5 0-3). Received two sets of voas with same ID of SB4 (0-3). For the SB4 (0-3) true sample client wrote in blue ink, and the other "SB4 (0-3)" being logged as SB5 (0-3) client wrote in black ink. This set was also packaged with other SB5 sample vials.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-255852-6 — Eurofins Chicago

Job Narrative
500-255852-6

Receipt
The samples were received on 8/29/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

Receipt Exceptions
Received 16oz soil jar with two different sample IDs-client paper label list SB4 (0-3) and soil lid list SB5 (0-3). Already received soil jar for SB4 (0-3) with paper label and lid matching. Logged jar per sample ID on lid (SB5 0-3). Received two sets of voas with same ID of SB4 (0-3). For the SB4 (0-3) true sample client wrote in blue ink, and the other "SB4 (0-3)" being logged as SB5 (0-3) client wrote in black ink. This set was also packaged with other SB5 sample vials.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-255852-7 — Eurofins Chicago

Job Narrative
500-255852-7

Receipt
The samples were received on 8/29/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

Receipt Exceptions

Received 16oz soil jar with two different sample IDs-client paper label list SB4 (0-3) and soil lid list SB5 (0-3). Already received soil jar for SB4 (0-3) with paper label and lid matching. Logged jar per sample ID on lid (SB5 0-3). Received two sets of voas with same ID of SB4 (0-3). For the SB4 (0-3) true sample client wrote in blue ink, and the other "SB4 (0-3)" being logged as SB5 (0-3) client wrote in black ink. This set was also packaged with other SB5 sample vials.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-255852-9 — Eurofins Chicago

Job Narrative
500-255852-9

Revision
The report being provided is a revision of the original report sent on 1/29/2025. The report (revision 1) is being revised due to: The report and EDD have been revised to include results for TCLP Pb/V for #5..

Receipt
The samples were received on 8/29/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

Receipt Exceptions

Received 16oz soil jar with two different sample IDs-client paper label list SB4 (0-3) and soil lid list SB5 (0-3). Already received soil jar for SB4 (0-3) with paper label and lid matching. Logged jar per sample ID on lid (SB5 0-3). Received two sets of voas with same ID of SB4 (0-3). For the SB4 (0-3) true sample client wrote in blue ink, and the other "SB4 (0-3)" being logged as SB5 (0-3) client wrote in black ink. This set was also packaged with other SB5 sample vials.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB1 (0-3) — Lab Sample ID: 500-255852-1

No Detections.

Client Sample ID: SB1 (5-7.5) — Lab Sample ID: 500-255852-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.011	J	0.025	0.010	mg/L	1		6010D	SPLP East
Manganese	0.12		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB2 (0-3) — Lab Sample ID: 500-255852-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.80		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB2 (3-5) — Lab Sample ID: 500-255852-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4.2		0.20	0.20	mg/L	1		6010D	SPLP East

Client Sample ID: SB3 (0-3) — Lab Sample ID: 500-255852-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.030		0.025	0.010	mg/L	1		6010D	TCLP
Chromium	0.017	J	0.025	0.010	mg/L	1		6010D	SPLP East
Iron	0.24		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.040		0.025	0.010	mg/L	1		6010D	SPLP East
Vanadium	0.11		0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0045	J	0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB3 (5-7.5) — Lab Sample ID: 500-255852-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0063		0.0050		mg/L	1		6020B	TCLP
Barium	0.39	B	0.0050		mg/L	1		6020B	TCLP
Cadmium	0.0013		0.0010		mg/L	1		6020B	TCLP
Lead	0.17	B	0.0010		mg/L	1		6020B	TCLP
Iron	37	B	0.10		mg/L	1		6020B	TCLP
Manganese	0.42		0.0050		mg/L	1		6020B	SPLP East

Client Sample ID: SB4 (0-3) — Lab Sample ID: 500-255852-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.037		0.025		mg/L	1		6010D	TCLP
Lead	0.16		0.0075		mg/L	1		6010D	TCLP
Iron	11		0.20		mg/L	1		6010D	TCLP
Iron	53	B	0.40		mg/L	2		6010D	SPLP East
Lead	0.77		0.015		mg/L	2		6010D	SPLP East
Antimony	0.0062		0.0060		mg/L	1		6020B	TCLP
Antimony	0.0083	B	0.0060	0.0013	mg/L	1		6020B	SPLP East

Client Sample ID: SB5 (0-3) — Lab Sample ID: 500-255852-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.14		0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CLE
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-255852-1	SB1 (0-3)	Solid	08/28/24 09:47	08/29/24 15:25
500-255852-2	SB1 (5-7.5)	Solid	08/28/24 09:53	08/29/24 15:25
500-255852-3	SB2 (0-3)	Solid	08/28/24 10:15	08/29/24 15:25
500-255852-4	SB2 (3-5)	Solid	08/28/24 10:35	08/29/24 15:25
500-255852-5	SB3 (0-3)	Solid	08/28/24 11:43	08/29/24 15:25
500-255852-6	SB3 (5-7.5)	Solid	08/28/24 12:30	08/29/24 15:25
500-255852-7	SB4 (0-3)	Solid	08/28/24 13:45	08/29/24 15:25
500-255852-9	SB5 (0-3)	Solid	08/28/24 14:07	08/29/24 15:25

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB1 (0-3)
Lab Sample ID: 500-255852-1

Date Collected: 08/28/24 09:47
Matrix: Solid
Date Received: 08/29/24 15:25

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 15:08	01/09/25 14:19	1
Chromium	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:19	1
Zinc	<0.020		0.10	0.020	mg/L		01/08/25 15:08	01/09/25 14:19	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 16:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB1 (5-7.5)
Lab Sample ID: 500-255852-2
Date Collected: 08/28/24 09:53
Matrix: Solid
Date Received: 08/29/24 15:25

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		02/26/25 12:46	03/05/25 05:17	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/08/25 15:08	01/09/25 14:23	1
Chromium	**0.011**	**J**	0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:23	1
Manganese	**0.12**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:23	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 15:08	01/09/25 14:23	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:23	1
Zinc	<0.020		0.10	0.020	mg/L		01/08/25 15:08	01/09/25 14:23	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 16:33	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB2 (0-3)
Lab Sample ID: 500-255852-3
Date Collected: 08/28/24 10:15
Matrix: Solid
Date Received: 08/29/24 15:25

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 15:08	01/09/25 14:28	1
Manganese	**0.80**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:28	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:28	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 16:52	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB2 (3-5)
Lab Sample ID: 500-255852-4
Date Collected: 08/28/24 10:35
Matrix: Solid
Date Received: 08/29/24 15:25

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4.2**		0.20	0.20	mg/L		01/08/25 15:08	01/09/25 14:32	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 15:08	01/09/25 14:32	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 16:56	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB3 (0-3)
Lab Sample ID: 500-255852-5

Date Collected: 08/28/24 11:43
Matrix: Solid
Date Received: 08/29/24 15:25

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/27/25 08:09	01/28/25 00:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/27/25 08:09	01/28/25 00:33	1
Vanadium	**0.030**		0.025	0.010	mg/L		01/27/25 08:09	01/28/25 00:33	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 15:08	01/09/25 14:36	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/08/25 15:08	01/09/25 14:36	1
Chromium	**0.017**	**J**	0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:36	1
Copper	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:36	1
Iron	**0.24**		0.20	0.20	mg/L		01/08/25 15:08	01/09/25 14:36	1
Lead	<0.0075		0.050	0.0075	mg/L		01/08/25 15:08	01/09/25 14:36	1
Manganese	**0.040**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:36	1
Nickel	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:36	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 15:08	01/09/25 14:36	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:36	1
Vanadium	**0.11**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:36	1
Zinc	<0.020		0.10	0.020	mg/L		01/08/25 15:08	01/09/25 14:36	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0045**	**J**	0.0060	0.0013	mg/L		01/27/25 08:09	03/05/25 14:31	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 17:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB3 (5-7.5)
Lab Sample ID: 500-255852-6
Date Collected: 08/28/24 12:30
Matrix: Solid
Date Received: 08/29/24 15:25

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 13:03	1
Arsenic	**0.0063**		0.0050		mg/L		10/14/24 14:00	10/15/24 13:03	1
Barium	**0.39**	**B**	0.0050		mg/L		10/14/24 14:00	10/15/24 13:03	1
Cadmium	**0.0013**		0.0010		mg/L		10/14/24 14:00	10/15/24 13:03	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 13:03	1
Lead	**0.17**	**B**	0.0010		mg/L		10/14/24 14:00	10/15/24 13:03	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 13:03	1
Iron	**37**	**B**	0.10		mg/L		10/14/24 14:00	10/15/24 13:03	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 13:03	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0010		0.0010		mg/L		10/25/24 14:00	10/28/24 16:24	1
Manganese	**0.42**		0.0050		mg/L		10/25/24 14:00	10/28/24 16:24	1
Iron	<0.10		0.10		mg/L		10/25/24 14:00	10/28/24 16:24	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	H	0.0020		mg/L		10/14/24 14:00	10/15/24 10:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB4 (0-3)
Lab Sample ID: 500-255852-7

Date Collected: 08/28/24 13:45
Matrix: Solid
Date Received: 08/29/24 15:25

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.037		0.025		mg/L		10/29/24 14:15	10/30/24 12:58	1
Lead	0.16		0.0075		mg/L		10/29/24 14:15	10/30/24 12:58	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:58	1
Iron	11		0.20		mg/L		10/29/24 14:15	10/30/24 12:58	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	53	B	0.40		mg/L		11/06/24 08:43	11/07/24 00:20	2
Lead	0.77		0.015		mg/L		11/06/24 08:43	11/07/24 00:20	2

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0062		0.0060		mg/L		10/29/24 14:15	11/14/24 13:52	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0083	B	0.0060	0.0013	mg/L		12/02/24 09:04	12/03/24 14:33	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB5 (0-3)
Lab Sample ID: 500-255852-9

Date Collected: 08/28/24 14:07
Matrix: Solid
Date Received: 08/29/24 15:25

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 15:08	01/09/25 14:41	1
Manganese	**0.14**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:41	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 15:08	01/09/25 14:41	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:41	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 17:04	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 630579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-6	SB3 (5-7.5)	TCLP	Solid	1311	
LB 240-630579/1-B	Method Blank	TCLP	Solid	1311	
LB 240-630579/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 630669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-6	SB3 (5-7.5)	TCLP	Solid	3010A	630579
LB 240-630579/1-B	Method Blank	TCLP	Solid	3010A	630579
MB 240-630669/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630669/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 630675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-6	SB3 (5-7.5)	TCLP	Solid	7470A	630579
LB 240-630579/1-C	Method Blank	TCLP	Solid	7470A	630579
MB 240-630675/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 240-630675/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 630895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-6	SB3 (5-7.5)	TCLP	Solid	7470A	630675
LB 240-630579/1-C	Method Blank	TCLP	Solid	7470A	630675
MB 240-630675/2-A	Method Blank	Total/NA	Solid	7470A	630675
LCS 240-630675/3-A	Lab Control Sample	Total/NA	Solid	7470A	630675

Analysis Batch: 630899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-6	SB3 (5-7.5)	TCLP	Solid	6020B	630669
LB 240-630579/1-B	Method Blank	TCLP	Solid	6020B	630669
MB 240-630669/2-A	Method Blank	Total/NA	Solid	6020B	630669
LCS 240-630669/4-A	Lab Control Sample	Total/NA	Solid	6020B	630669

Leach Batch: 632368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-6	SB3 (5-7.5)	SPLP East	Solid	1312	
LB 240-632368/1-B	Method Blank	SPLP East	Solid	1312	
500-255852-6 MS	SB3 (5-7.5)	SPLP East	Solid	1312	
500-255852-6 MSD	SB3 (5-7.5)	SPLP East	Solid	1312	

Prep Batch: 632464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-6	SB3 (5-7.5)	SPLP East	Solid	3010A	632368
LB 240-632368/1-B	Method Blank	SPLP East	Solid	3010A	632368
MB 240-632464/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-632464/4-A	Lab Control Sample	Total/NA	Solid	3010A	
500-255852-6 MS	SB3 (5-7.5)	SPLP East	Solid	3010A	632368
500-255852-6 MSD	SB3 (5-7.5)	SPLP East	Solid	3010A	632368

Analysis Batch: 632808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-6	SB3 (5-7.5)	SPLP East	Solid	6020B	632464

Metals (Continued)

Analysis Batch: 632808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-632368/1-B	Method Blank	SPLP East	Solid	6020B	632464
MB 240-632464/2-A	Method Blank	Total/NA	Solid	6020B	632464
LCS 240-632464/4-A	Lab Control Sample	Total/NA	Solid	6020B	632464
500-255852-6 MS	SB3 (5-7.5)	SPLP East	Solid	6020B	632464
500-255852-6 MSD	SB3 (5-7.5)	SPLP East	Solid	6020B	632464

Leach Batch: 792364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-7	SB4 (0-3)	TCLP	Solid	1311	
500-255852-7	SB4 (0-3)	TCLP	Solid	1311	
LB 500-792364/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 792710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-7	SB4 (0-3)	TCLP	Solid	3010A	792364
500-255852-7	SB4 (0-3)	TCLP	Solid	3010A	792364
LB 500-792364/1-B	Method Blank	TCLP	Solid	3010A	792364
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 793149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-7	SB4 (0-3)	TCLP	Solid	6010D	792710
LB 500-792364/1-B	Method Blank	TCLP	Solid	6010D	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6010D	792710

Leach Batch: 793820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-7	SB4 (0-3)	SPLP East	Solid	1312	
LB 500-793820/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 794087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-7	SB4 (0-3)	SPLP East	Solid	3010A	793820
LB 500-793820/1-B	Method Blank	SPLP East	Solid	3010A	793820
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 794312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-7	SB4 (0-3)	SPLP East	Solid	6010D	794087
LB 500-793820/1-B	Method Blank	SPLP East	Solid	6010D	794087
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	6010D	794087

Analysis Batch: 795410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-7	SB4 (0-3)	TCLP	Solid	6020B	792710
LB 500-792364/1-B	Method Blank	TCLP	Solid	6020B	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6020B	792710

Leach Batch: 796673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-7	SB4 (0-3)	SPLP East	Solid	1312	

Metals (Continued)

Leach Batch: 796673 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-796673/1-B	Method Blank	SPLP East	Solid	1312	
500-255852-7 MS	SB4 (0-3)	SPLP East	Solid	1312	
500-255852-7 DU	SB4 (0-3)	SPLP East	Solid	1312	

Prep Batch: 797564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-7	SB4 (0-3)	SPLP East	Solid	3010A	796673
LB 500-796673/1-B	Method Blank	SPLP East	Solid	3010A	796673
LCS 500-797564/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-255852-7 MS	SB4 (0-3)	SPLP East	Solid	3010A	796673
500-255852-7 DU	SB4 (0-3)	SPLP East	Solid	3010A	796673

Analysis Batch: 797840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-7	SB4 (0-3)	SPLP East	Solid	6020B	797564
LB 500-796673/1-B	Method Blank	SPLP East	Solid	6020B	797564
LCS 500-797564/2-A	Lab Control Sample	Total/NA	Solid	6020B	797564
500-255852-7 MS	SB4 (0-3)	SPLP East	Solid	6020B	797564
500-255852-7 DU	SB4 (0-3)	SPLP East	Solid	6020B	797564

Leach Batch: 801978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	SPLP East	Solid	1312	
500-255852-2	SB1 (5-7.5)	SPLP East	Solid	1312	
500-255852-3	SB2 (0-3)	SPLP East	Solid	1312	
500-255852-4	SB2 (3-5)	SPLP East	Solid	1312	
500-255852-5	SB3 (0-3)	SPLP East	Solid	1312	
500-255852-9	SB5 (0-3)	SPLP East	Solid	1312	
LB 500-801978/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 802170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	SPLP East	Solid	3010A	801978
500-255852-2	SB1 (5-7.5)	SPLP East	Solid	3010A	801978
500-255852-3	SB2 (0-3)	SPLP East	Solid	3010A	801978
500-255852-4	SB2 (3-5)	SPLP East	Solid	3010A	801978
500-255852-5	SB3 (0-3)	SPLP East	Solid	3010A	801978
500-255852-9	SB5 (0-3)	SPLP East	Solid	3010A	801978
LB 500-801978/1-B	Method Blank	SPLP East	Solid	3010A	801978
LCS 500-802170/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 802359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	SPLP East	Solid	6010D	802170
500-255852-2	SB1 (5-7.5)	SPLP East	Solid	6010D	802170
500-255852-3	SB2 (0-3)	SPLP East	Solid	6010D	802170
500-255852-4	SB2 (3-5)	SPLP East	Solid	6010D	802170
500-255852-5	SB3 (0-3)	SPLP East	Solid	6010D	802170
500-255852-9	SB5 (0-3)	SPLP East	Solid	6010D	802170
LB 500-801978/1-B	Method Blank	SPLP East	Solid	6010D	802170
LCS 500-802170/2-A	Lab Control Sample	Total/NA	Solid	6010D	802170

Metals

Analysis Batch: 802391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-1	SB1 (0-3)	SPLP East	Solid	6020B	802170
500-255852-2	SB1 (5-7.5)	SPLP East	Solid	6020B	802170
500-255852-3	SB2 (0-3)	SPLP East	Solid	6020B	802170
500-255852-4	SB2 (3-5)	SPLP East	Solid	6020B	802170
500-255852-5	SB3 (0-3)	SPLP East	Solid	6020B	802170
500-255852-9	SB5 (0-3)	SPLP East	Solid	6020B	802170
LB 500-801978/1-B	Method Blank	SPLP East	Solid	6020B	802170
LCS 500-802170/2-A	Lab Control Sample	Total/NA	Solid	6020B	802170

Leach Batch: 804074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-5	SB3 (0-3)	TCLP	Solid	1311	
LB 500-804074/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 804225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-5	SB3 (0-3)	TCLP	Solid	3010A	804074
LB 500-804074/1-B	Method Blank	TCLP	Solid	3010A	804074
LCS 500-804225/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-804225/7-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 804397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-5	SB3 (0-3)	TCLP	Solid	6010D	804225
LB 500-804074/1-B	Method Blank	TCLP	Solid	6010D	804225
LCS 500-804225/2-A	Lab Control Sample	Total/NA	Solid	6010D	804225

Leach Batch: 807590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-2	SB1 (5-7.5)	TCLP	Solid	1311	
LB 500-807590/1-B	Method Blank	TCLP	Solid	1311	
500-255852-2 MS	SB1 (5-7.5)	TCLP	Solid	1311	
500-255852-2 DU	SB1 (5-7.5)	TCLP	Solid	1311	

Prep Batch: 807791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-2	SB1 (5-7.5)	TCLP	Solid	3010A	807590
LB 500-807590/1-B	Method Blank	TCLP	Solid	3010A	807590
LCS 500-807791/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-255852-2 MS	SB1 (5-7.5)	TCLP	Solid	3010A	807590
500-255852-2 DU	SB1 (5-7.5)	TCLP	Solid	3010A	807590

Analysis Batch: 808677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-2	SB1 (5-7.5)	TCLP	Solid	6010D	807791
LB 500-807590/1-B	Method Blank	TCLP	Solid	6010D	807791
LCS 500-807791/2-A	Lab Control Sample	Total/NA	Solid	6010D	807791
500-255852-2 MS	SB1 (5-7.5)	TCLP	Solid	6010D	807791
500-255852-2 DU	SB1 (5-7.5)	TCLP	Solid	6010D	807791

Metals

Analysis Batch: 808757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255852-5	SB3 (0-3)	TCLP	Solid	6020B	804225
LB 500-804074/1-B	Method Blank	TCLP	Solid	6020B	804225
LCS 500-804225/7-A	Lab Control Sample	Total/NA	Solid	6020B	804225

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.250	0.251		mg/L		100	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Silver	0.0500	0.0499		mg/L		100	80 - 120
Iron	1.00	0.873		mg/L		87	80 - 120

Lab Sample ID: LCS 500-794087/2-A
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 794087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.19		mg/L		119	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LCS 500-802170/2-A
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0476		mg/L		95	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Copper	0.250	0.251		mg/L		100	80 - 120
Lead	0.100	0.0995		mg/L		100	80 - 120
Manganese	0.500	0.465		mg/L		93	80 - 120
Nickel	0.500	0.494		mg/L		99	80 - 120
Silver	0.0500	0.0480		mg/L		96	80 - 120
Vanadium	0.500	0.504		mg/L		101	80 - 120
Zinc	0.500	0.488		mg/L		98	80 - 120
Iron	1.00	0.914		mg/L		91	80 - 120
Selenium	0.100	0.0971		mg/L		97	80 - 120

Lab Sample ID: LCS 500-804225/2-A
Matrix: Solid
Analysis Batch: 804397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 804225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.199		mg/L		99	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Vanadium	0.500	0.515		mg/L		103	80 - 120

Lab Sample ID: LCS 500-807791/2-A
Matrix: Solid
Analysis Batch: 808677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 807791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.226		mg/L		113	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-792364/1-B
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Lead	<0.0075		0.0075		mg/L		10/29/24 14:15	10/30/24 12:53	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Iron	<0.20		0.20		mg/L		10/29/24 14:15	10/30/24 12:53	1

Lab Sample ID: LB 500-804074/1-B
Matrix: Solid
Analysis Batch: 804397

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 804225

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/27/25 08:09	01/28/25 00:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/27/25 08:09	01/28/25 00:23	1
Vanadium	<0.010		0.025	0.010	mg/L		01/27/25 08:09	01/28/25 00:23	1

Lab Sample ID: LB 500-807590/1-B
Matrix: Solid
Analysis Batch: 808677

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 807791

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		02/26/25 12:46	03/05/25 05:08	1

Lab Sample ID: 500-255852-2 MS
Matrix: Solid
Analysis Batch: 808677

Client Sample ID: SB1 (5-7.5)
Prep Type: TCLP
Prep Batch: 807791

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	<0.010		0.200	0.215		mg/L		107	75 - 125

Lab Sample ID: 500-255852-2 DU
Matrix: Solid
Analysis Batch: 808677

Client Sample ID: SB1 (5-7.5)
Prep Type: TCLP
Prep Batch: 807791

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium	<0.010		<0.010		mg/L		NC	20

Lab Sample ID: LB 500-793820/1-B
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 794087

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.250		0.20		mg/L		11/06/24 08:43	11/06/24 23:27	1
Lead	<0.0075		0.0075		mg/L		11/06/24 08:43	11/06/24 23:27	1

Lab Sample ID: LB 500-801978/1-B
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802170

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 15:08	01/09/25 12:43	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/08/25 15:08	01/09/25 12:43	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-801978/1-B
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802170

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Copper	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/08/25 15:08	01/09/25 12:43	1
Manganese	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Nickel	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Vanadium	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Zinc	<0.020		0.10	0.020	mg/L		01/08/25 15:08	01/09/25 12:43	1
Iron	<0.20		0.20	0.20	mg/L		01/08/25 15:08	01/09/25 12:43	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 15:08	01/09/25 12:43	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-630669/2-A
Matrix: Solid
Analysis Batch: 630899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:18	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:18	1
Barium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:18	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:18	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:18	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:18	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:18	1
Iron	<0.10		0.10		mg/L		10/14/24 14:00	10/15/24 12:18	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 12:18	1

Lab Sample ID: LCS 240-630669/4-A
Matrix: Solid
Analysis Batch: 630899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.100	0.0989		mg/L		99	80 - 120
Arsenic	1.00	1.09		mg/L		109	80 - 120
Barium	1.00	0.990		mg/L		99	80 - 120
Cadmium	0.500	0.475		mg/L		95	80 - 120
Chromium	0.500	0.484		mg/L		97	80 - 120
Lead	0.500	0.462		mg/L		92	80 - 120
Selenium	1.00	0.954		mg/L		95	80 - 120
Iron	5.00	5.79		mg/L		116	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120

Lab Sample ID: MB 240-632464/2-A
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0010		0.0010		mg/L		10/25/24 14:00	10/28/24 16:19	1
Manganese	<0.0050		0.0050		mg/L		10/25/24 14:00	10/28/24 16:19	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-632464/2-A
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.10		0.10		mg/L		10/25/24 14:00	10/28/24 16:19	1

Lab Sample ID: LCS 240-632464/4-A
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.500	0.476		mg/L		95	80 - 120
Manganese	0.500	0.466		mg/L		93	80 - 120
Iron	5.00	4.75		mg/L		95	80 - 120

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 795410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.538		mg/L		108	80 - 120

Lab Sample ID: LCS 500-797564/2-A
Matrix: Solid
Analysis Batch: 797840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 797564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.574		mg/L		115	80 - 120

Lab Sample ID: LCS 500-802170/2-A
Matrix: Solid
Analysis Batch: 802391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LCS 500-804225/7-A
Matrix: Solid
Analysis Batch: 808757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 804225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.517		mg/L		103	80 - 120

Lab Sample ID: LB 240-630579/1-B
Matrix: Solid
Analysis Batch: 630899

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630669

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:15	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:15	1
Barium	0.00512		0.0050		mg/L		10/14/24 14:00	10/15/24 12:15	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:15	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:15	1
Lead	0.00155		0.0010		mg/L		10/14/24 14:00	10/15/24 12:15	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 240-630579/1-B
Matrix: Solid
Analysis Batch: 630899

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630669

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:15	1
Iron	0.839		0.10		mg/L		10/14/24 14:00	10/15/24 12:15	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 12:15	1

Lab Sample ID: LB 500-792364/1-B
Matrix: Solid
Analysis Batch: 795410

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060		mg/L		10/29/24 14:15	11/14/24 13:44	1

Lab Sample ID: LB 500-804074/1-B
Matrix: Solid
Analysis Batch: 808757

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 804225

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/27/25 08:09	03/05/25 14:26	1

Lab Sample ID: LB 240-632368/1-B
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 632464

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0010		0.0010		mg/L		10/25/24 14:00	10/28/24 16:16	1
Manganese	<0.0050		0.0050		mg/L		10/25/24 14:00	10/28/24 16:16	1
Iron	<0.10		0.10		mg/L		10/25/24 14:00	10/28/24 16:16	1

Lab Sample ID: 500-255852-6 MS
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: SB3 (5-7.5)
Prep Type: SPLP East
Prep Batch: 632464

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	<0.0010		0.500	0.477		mg/L		95	50 - 150
Manganese	0.42		0.500	0.893		mg/L		95	50 - 150
Iron	<0.10		5.00	4.82		mg/L		95	50 - 150

Lab Sample ID: 500-255852-6 MSD
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: SB3 (5-7.5)
Prep Type: SPLP East
Prep Batch: 632464

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	<0.0010		0.500	0.497		mg/L		99	50 - 150	4	20
Manganese	0.42		0.500	0.921		mg/L		100	50 - 150	3	20
Iron	<0.10		5.00	5.12		mg/L		101	50 - 150	6	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-796673/1-B
Matrix: Solid
Analysis Batch: 797840

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 797564

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00219	J	0.0060	0.0013	mg/L		12/02/24 09:04	12/03/24 14:26	1

Lab Sample ID: 500-255852-7 MS
Matrix: Solid
Analysis Batch: 797840

Client Sample ID: SB4 (0-3)
Prep Type: SPLP East
Prep Batch: 797564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0083	B	0.500	0.579		mg/L		114	75 - 125

Lab Sample ID: 500-255852-7 DU
Matrix: Solid
Analysis Batch: 797840

Client Sample ID: SB4 (0-3)
Prep Type: SPLP East
Prep Batch: 797564

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.0083	B	0.00675	F5	mg/L		21	20

Lab Sample ID: LB 500-801978/1-B
Matrix: Solid
Analysis Batch: 802391

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802170

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 16:03	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-630675/2-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 09:26	1

Lab Sample ID: LCS 240-630675/3-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00458		mg/L		92	80 - 120

Lab Sample ID: LB 240-630579/1-C
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630675

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 09:25	1

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-255852-10

Client Sample ID: SB1 (0-3)
Date Collected: 08/28/24 09:47
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 14:19
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 16:30

Client Sample ID: SB1 (5-7.5)
Date Collected: 08/28/24 09:53
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 14:23
TCLP	Leach	1311			807590	TJ	EET CHI	02/25/25 13:03 - 02/26/25 07:03 [1]
TCLP	Prep	3010A			807791	S1Z	EET CHI	02/26/25 12:46 - 02/26/25 16:46 [1]
TCLP	Analysis	6010D		1	808677	RB	EET CHI	03/05/25 05:17
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 16:33

Client Sample ID: SB2 (0-3)
Date Collected: 08/28/24 10:15
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 14:28
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 16:52

Client Sample ID: SB2 (3-5)
Date Collected: 08/28/24 10:35
Date Received: 08/29/24 15:25

Lab Sample ID: 500-255852-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 14:32
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 16:56

Client Sample ID: SB3 (0-3)

Lab Sample ID: 500-255852-5

Date Collected: 08/28/24 11:43

Matrix: Solid

Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 14:36
TCLP	Leach	1311			804074	TJ	EET CHI	01/24/25 14:26 - 01/25/25 08:26 [1]
TCLP	Prep	3010A			804225	BDE	EET CHI	01/27/25 08:09 - 01/27/25 14:09 [1]
TCLP	Analysis	6010D		1	804397	RB	EET CHI	01/28/25 00:33
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 17:00
TCLP	Leach	1311			804074	TJ	EET CHI	01/24/25 14:26 - 01/25/25 08:26 [1]
TCLP	Prep	3010A			804225	BDE	EET CHI	01/27/25 08:09 - 01/27/25 14:09 [1]
TCLP	Analysis	6020B		1	808757	RN	EET CHI	03/05/25 14:31

Client Sample ID: SB3 (5-7.5)

Lab Sample ID: 500-255852-6

Date Collected: 08/28/24 12:30

Matrix: Solid

Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			632368	DRJ	EET CLE	10/24/24 17:15 - 10/25/24 09:25 [1]
SPLP East	Prep	3010A			632464	BN	EET CLE	10/25/24 14:00
SPLP East	Analysis	6020B		1	632808	AJC	EET CLE	10/28/24 16:24
TCLP	Leach	1311			630579	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 12:10 [1]
TCLP	Prep	3010A			630669	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6020B		1	630899	AJC	EET CLE	10/15/24 13:03
TCLP	Leach	1311			630579	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 12:10 [1]
TCLP	Prep	7470A			630675	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	7470A		1	630895	TQ6W	EET CLE	10/15/24 10:06

Client Sample ID: SB4 (0-3)

Lab Sample ID: 500-255852-7

Date Collected: 08/28/24 13:45

Matrix: Solid

Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6010D		2	794312	SJ	EET CHI	11/07/24 00:20
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 12:58
SPLP East	Leach	1312			796673	RJ	EET CHI	11/22/24 13:50 - 11/23/24 07:50 [1]
SPLP East	Prep	3010A			797564	BDE	EET CHI	12/02/24 09:04 - 12/02/24 15:04 [1]
SPLP East	Analysis	6020B		1	797840	RN	EET CHI	12/03/24 14:33
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6020B		1	795410	RN	EET CHI	11/14/24 13:52

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB5 (0-3)
Lab Sample ID: 500-255852-9

Date Collected: 08/28/24 14:07
Matrix: Solid

Date Received: 08/29/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 14:41
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 17:04

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255852-10
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-255852-10

Login Number: 255852
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/13/2025 7:17:19 AM Revision 5

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-255917-2

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/13/2025 7:17:19 AM
Revision 5

Authorized for release by
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Job ID: 500-255917-2 — Eurofins Chicago

Job Narrative
500-255917-2

Revision
The report being provided is a revision of the original report sent on 10/17/2024. The report (revision 5) is being revised due to: The report has been revised to include results for TCLP Fe for sample #1.

Report revision history
Revision 1 - 10/25/2024 - Reason - Add TCLP Sb, Ni to SB6 (0-3) and TCLP Sb to SB14 (0-3) per client request.

Revision 2 - 11/13/2024 - Reason - The report and EDD have been revised to lower limit for TCLP copper to meet TACO objectives. Method calibration supports the lower limit..

Revision 3 - 1/16/2025 - Reason - Add additional TCLP metals per client request.

Revision 4 - 1/29/2025 - Reason - Add TCLP Mn to SB14 (0-3) per client request.

Receipt
The samples were received on 8/30/2024 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
Method 7470A: The following sample(s) was prepared outside of preparation holding time due to mercury being requested after hold time had expired. SB6 (0-3) (500-255917-1), SB13 (5-7.5) (500-255917-16) and SB14 (0-3) (500-255917-17).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 1311: The following samples were prepared outside of preparation holding time due to the analysis being requested after the holding time had elapsed: SB6 (0-3) (500-255917-1), SB13 (5-7.5) (500-255917-16) and SB14 (0-3) (500-255917-17).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-255917-3 — Eurofins Chicago

Job Narrative
500-255917-3

Revision
The report being provided is a revision of the original report sent on 10/31/2024. The report (revision 1) is being revised due to: Add additional TCLP analytes per client request.

Receipt
The samples were received on 8/30/2024 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-255917-4 — Eurofins Chicago

Job Narrative
500-255917-4

Revision
The report being provided is a revision of the original report sent on 11/8/2024. The report (revision 4) is being revised due to: The report has been revised to include results for SPLP Fe for sample #1. Also, the "H" flag was removed from the results for #2 as the flag does not apply..

Report revision history
Revision 1 - 11/13/2024 - Reason - The report and EDD have been revised to lower limits for SPLP copper to meet TACO objectives. Method calibrations support the lower limit..

Revision 2 - 1/21/2025 - Reason - Add additional SPLP analytes per client request.

Revision 3 - 1/29/2025 - Reason - Add additional SPLP analytes per client request.

Receipt
The samples were received on 8/30/2024 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-255917-5 — Eurofins Chicago

Job Narrative
500-255917-5

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 2) is being revised due to: The report has been revised to include pther TCLP/SPLP results for sample #7 and #22..

Report revision history
Revision 1 - 1/29/2025 - Reason - Add additional leach analytes per client request.

Receipt
The samples were received on 8/30/2024 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB6 (0-3) — Lab Sample ID: 500-255917-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.50		0.0050		mg/L	1		6020B	TCLP
Nickel	0.016		0.0020		mg/L	1		6020B	TCLP
Vanadium	0.024		0.020		mg/L	1		6020B	TCLP
Manganese	0.0082		0.0050		mg/L	1		6020B	SPLP East

Client Sample ID: SB6 (3-5) — Lab Sample ID: 500-255917-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.50		0.025		mg/L	1		6010D	TCLP
Iron	21		0.20		mg/L	1		6010D	TCLP
Lead	0.12		0.0075		mg/L	1		6010D	TCLP
Zinc	1.6		0.10		mg/L	1		6010D	TCLP
Antimony	0.011		0.0060		mg/L	1		6020B	TCLP
Iron	0.46		0.10		mg/L	1		6020B	SPLP East
Lead	0.0020		0.00050		mg/L	1		6020B	SPLP East
Manganese	0.024		0.0025		mg/L	1		6020B	SPLP East

Client Sample ID: SB7 (0-3) — Lab Sample ID: 500-255917-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.015	J	0.025	0.010	mg/L	1		6010D	TCLP
Copper	0.017	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	3.7		0.20	0.20	mg/L	1		6010D	TCLP
Manganese	5.1		0.025	0.010	mg/L	1		6010D	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010D	TCLP
Chromium	0.012	J	0.025	0.010	mg/L	1		6010D	SPLP East
Manganese	0.40		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB8 (0-3) — Lab Sample ID: 500-255917-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.017	J	0.025	0.010	mg/L	1		6010D	TCLP
Manganese	5.9		0.025	0.010	mg/L	1		6010D	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB9 (0-3) — Lab Sample ID: 500-255917-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.032	H	0.025	0.010	mg/L	1		6010D	SPLP East
Iron	3.3		0.20	0.20	mg/L	1		6010D	SPLP East
Zinc	0.22		0.10	0.020	mg/L	1		6010D	SPLP East

Client Sample ID: SB10 (0-3) — Lab Sample ID: 500-255917-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.12		0.038	0.038	mg/L	5		6010D	TCLP
Lead	0.16		0.0075	0.0075	mg/L	1		6010D	SPLP East
Manganese	0.26		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB10 (5-7.5) — Lab Sample ID: 500-255917-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0044	J	0.0050	0.0020	mg/L	1		6010D	TCLP
Copper	0.042		0.025	0.010	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB10 (5-7.5) (Continued) — Lab Sample ID: 500-255917-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.056		0.038	0.038	mg/L	5		6010D	TCLP
Manganese	2.8		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.47		0.10	0.020	mg/L	1		6010D	TCLP
Antimony	0.014		0.0060	0.0013	mg/L	1		6020B	TCLP
Thallium	0.00065	J	0.0020	0.00057	mg/L	1		6020B	TCLP

Client Sample ID: SB11 (0-3) — Lab Sample ID: 500-255917-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0043	J	0.0050	0.0020	mg/L	1		6010D	TCLP
Chromium	0.033		0.025	0.010	mg/L	1		6010D	TCLP
Copper	0.012	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	3.2		0.20	0.20	mg/L	1		6010D	TCLP
Lead	0.014	J	0.050	0.0075	mg/L	1		6010D	TCLP
Manganese	28		0.13	0.050	mg/L	5		6010D	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010D	TCLP
Selenium	0.024	J	0.050	0.020	mg/L	1		6010D	TCLP
Zinc	4.1		0.10	0.020	mg/L	1		6010D	TCLP
Lead	0.019		0.0075	0.0075	mg/L	1		6010D	SPLP East
Manganese	0.16		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB11 (5-7.5) — Lab Sample ID: 500-255917-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.022	J	0.025	0.010	mg/L	1		6010D	SPLP East
Iron	4.0		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.21		0.025	0.010	mg/L	1		6010D	SPLP East
Zinc	0.093	J	0.10	0.020	mg/L	1		6010D	SPLP East

Client Sample ID: SB12 (0-3) — Lab Sample ID: 500-255917-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	3.4		0.13	0.050	mg/L	5		6010D	TCLP
Zinc	0.20		0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB13 (0-3) — Lab Sample ID: 500-255917-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.13		0.049		mg/L	1		6010D	SPLP East
Cadmium	0.00021	J	0.0010	0.000077	mg/L	1		6020B	TCLP
Chromium	0.0026	J B	0.0050	0.0012	mg/L	1		6020B	TCLP
Nickel	0.0063		0.0020	0.0015	mg/L	1		6020B	TCLP
Selenium	0.0020	J	0.0050	0.00089	mg/L	1		6020B	TCLP
Thallium	0.00089	J	0.0020	0.00051	mg/L	1		6020B	TCLP
Vanadium	0.12		0.020	0.00082	mg/L	1		6020B	TCLP

Client Sample ID: SB13 (5-7.5) — Lab Sample ID: 500-255917-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.031		0.015	0.0026	mg/L	1		6010D	SPLP East
Barium	0.71		0.0050		mg/L	1		6020B	TCLP
Cadmium	0.0013		0.0010		mg/L	1		6020B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB13 (5-7.5) (Continued) — Lab Sample ID: 500-255917-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.39		0.0020		mg/L	1		6020B	TCLP
Lead	0.0035		0.0010		mg/L	1		6020B	TCLP
Zinc	0.15		0.020		mg/L	1		6020B	TCLP

Client Sample ID: SB14 (0-3) — Lab Sample ID: 500-255917-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.22		0.015	0.0026	mg/L	1		6010D	SPLP East
Antimony	0.0035		0.0020		mg/L	1		6020B	TCLP
Barium	0.35		0.0050		mg/L	1		6020B	TCLP
Cadmium	0.0027		0.0010		mg/L	1		6020B	TCLP
Copper	0.0024		0.0020		mg/L	1		6020B	TCLP
Iron	0.17		0.10		mg/L	1		6020B	TCLP
Lead	0.0025		0.0010		mg/L	1		6020B	TCLP
Manganese	3.6		0.0050		mg/L	1		6020B	TCLP
Nickel	0.0073		0.0020		mg/L	1		6020B	TCLP
Zinc	0.13		0.020		mg/L	1		6020B	TCLP

Client Sample ID: SB14 (10-12.5) — Lab Sample ID: 500-255917-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010D	TCLP
Selenium	0.026	J	0.050	0.020	mg/L	1		6010D	TCLP
Silver	0.022	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.21		0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.021	J	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB15 (0-3) — Lab Sample ID: 500-255917-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.020	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	4.9		0.20	0.20	mg/L	1		6010D	TCLP
Manganese	4.8		0.13	0.050	mg/L	5		6010D	TCLP
Silver	0.013	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.11		0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.43		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB15 (7.5-10) — Lab Sample ID: 500-255917-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3.5		0.20	0.20	mg/L	1		6010D	TCLP
Lead	0.044	J	0.25	0.038	mg/L	5		6010D	TCLP
Zinc	0.048	J	0.10	0.020	mg/L	1		6010D	TCLP

Client Sample ID: SB16 (0-3) — Lab Sample ID: 500-255917-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010D	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	1.7		0.20	0.20	mg/L	1		6010D	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010D	TCLP
Silver	0.018	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.17		0.10	0.020	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB16 (0-3) (Continued)
Lab Sample ID: 500-255917-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.00088	J	0.0020	0.00057	mg/L	1		6020B	TCLP

Client Sample ID: SB16 (3-5)
Lab Sample ID: 500-255917-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0045	J	0.0050	0.0020	mg/L	1		6010D	TCLP
Iron	2.2		0.20	0.20	mg/L	1		6010D	TCLP
Silver	0.018	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.37		0.10	0.020	mg/L	1		6010D	TCLP
Thallium	0.0028		0.0020	0.00057	mg/L	1		6020B	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CLE
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
1312	Synthetic Precipitation Leaching Procedure -East (Metals)	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-255917-1	SB6 (0-3)	Solid	08/29/24 09:47	08/30/24 12:00
500-255917-2	SB6 (3-5)	Solid	08/29/24 09:58	08/30/24 12:00
500-255917-3	SB7 (0-3)	Solid	08/29/24 10:36	08/30/24 12:00
500-255917-5	SB8 (0-3)	Solid	08/29/24 12:36	08/30/24 12:00
500-255917-7	SB9 (0-3)	Solid	08/29/24 13:06	08/30/24 12:00
500-255917-9	SB10 (0-3)	Solid	08/29/24 13:39	08/30/24 12:00
500-255917-10	SB10 (5-7.5)	Solid	08/29/24 13:47	08/30/24 12:00
500-255917-11	SB11 (0-3)	Solid	08/29/24 14:01	08/30/24 12:00
500-255917-12	SB11 (5-7.5)	Solid	08/29/24 14:15	08/30/24 12:00
500-255917-13	SB12 (0-3)	Solid	08/29/24 09:23	08/30/24 12:00
500-255917-15	SB13 (0-3)	Solid	08/29/24 10:45	08/30/24 12:00
500-255917-16	SB13 (5-7.5)	Solid	08/29/24 10:54	08/30/24 12:00
500-255917-17	SB14 (0-3)	Solid	08/29/24 12:09	08/30/24 12:00
500-255917-18	SB14 (10-12.5)	Solid	08/29/24 12:23	08/30/24 12:00
500-255917-19	SB15 (0-3)	Solid	08/29/24 13:35	08/30/24 12:00
500-255917-20	SB15 (7.5-10)	Solid	08/29/24 13:53	08/30/24 12:00
500-255917-21	SB16 (0-3)	Solid	08/29/24 15:03	08/30/24 12:00
500-255917-22	SB16 (3-5)	Solid	08/29/24 15:09	08/30/24 12:00

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB6 (0-3)
Lab Sample ID: 500-255917-1
Date Collected: 08/29/24 09:47
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:09	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:09	1
Barium	**0.50**		0.0050		mg/L		10/14/24 14:00	10/15/24 19:09	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:09	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:09	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:09	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:09	1
Iron	<0.10		0.10		mg/L		10/14/24 14:00	10/15/24 19:09	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:09	1
Nickel	**0.016**		0.0020		mg/L		10/14/24 14:00	10/15/24 19:09	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:09	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:09	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:09	1
Vanadium	**0.024**		0.020		mg/L		10/14/24 14:00	10/15/24 19:09	1
Zinc	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 19:09	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.10		0.10		mg/L		11/04/24 14:00	11/05/24 14:52	1
Manganese	**0.0082**		0.0050		mg/L		11/04/24 14:00	11/05/24 14:52	1
Nickel	<0.0020		0.0020		mg/L		11/04/24 14:00	11/05/24 14:52	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	H	0.0020		mg/L		10/14/24 14:00	10/15/24 11:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB6 (3-5)
Lab Sample ID: 500-255917-2

Date Collected: 08/29/24 09:58
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 13:02	1
Copper	**0.50**		0.025		mg/L		10/29/24 14:15	10/30/24 13:02	1
Iron	**21**		0.20		mg/L		10/29/24 14:15	10/30/24 13:02	1
Lead	**0.12**		0.0075		mg/L		10/29/24 14:15	10/30/24 13:02	1
Zinc	**1.6**		0.10		mg/L		10/29/24 14:15	10/30/24 13:02	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.011**		0.0060		mg/L		10/29/24 14:15	10/30/24 16:27	1
Thallium	<0.0020		0.0020		mg/L		10/29/24 14:15	10/30/24 16:27	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060		mg/L		11/06/24 08:43	11/07/24 17:10	1
Iron	**0.46**		0.10		mg/L		11/06/24 08:43	11/07/24 17:10	1
Lead	**0.0020**		0.00050		mg/L		11/06/24 08:43	11/07/24 17:10	1
Manganese	**0.024**		0.0025		mg/L		11/06/24 08:43	11/07/24 17:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB7 (0-3)
Lab Sample ID: 500-255917-3

Date Collected: 08/29/24 10:36
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 14:28	01/09/25 11:29	1
Chromium	**0.015**	**J**	0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:29	1
Copper	**0.017**	**J**	0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:29	1
Iron	**3.7**		0.20	0.20	mg/L		01/08/25 14:28	01/09/25 11:29	1
Lead	<0.038	F1	0.038	0.038	mg/L		01/08/25 14:28	01/09/25 18:06	5
Manganese	**5.1**		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:29	1
Nickel	**0.010**	**J**	0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:29	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 14:28	01/09/25 11:29	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.012**	**J**	0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:02	1
Manganese	**0.40**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:02	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 14:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB8 (0-3)
Lab Sample ID: 500-255917-5

Date Collected: 08/29/24 12:36
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 14:28	01/09/25 11:48	1
Chromium	**0.017**	**J**	0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:48	1
Manganese	**5.9**		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:48	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 14:28	01/09/25 11:48	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:48	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.16**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:10	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 15:12	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB9 (0-3)
Lab Sample ID: 500-255917-7

Date Collected: 08/29/24 13:06
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/08/25 15:08	01/09/25 14:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 15:08	01/09/25 14:06	1
Copper	**0.032**	**H**	0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:06	1
Iron	**3.3**		0.20	0.20	mg/L		01/08/25 15:08	01/09/25 14:06	1
Nickel	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:06	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 15:08	01/09/25 14:06	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:06	1
Zinc	**0.22**		0.10	0.020	mg/L		01/08/25 15:08	01/09/25 14:06	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 16:26	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10 (0-3)
Lab Sample ID: 500-255917-9

Date Collected: 08/29/24 13:39
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.12**		0.038	0.038	mg/L		01/08/25 14:28	01/09/25 18:32	5
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 14:28	01/09/25 11:52	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.16**		0.0075	0.0075	mg/L		01/08/25 15:08	01/09/25 14:15	1
Manganese	**0.26**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 14:15	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10 (5-7.5)
Lab Sample ID: 500-255917-10
Date Collected: 08/29/24 13:47
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0044**	**J**	0.0050	0.0020	mg/L		01/08/25 14:28	01/09/25 11:57	1
Copper	**0.042**		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:57	1
Lead	**0.056**		0.038	0.038	mg/L		01/08/25 14:28	01/09/25 18:37	5
Manganese	**2.8**		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:57	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 14:28	01/09/25 11:57	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:57	1
Zinc	**0.47**		0.10	0.020	mg/L		01/08/25 14:28	01/09/25 11:57	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/10/25 14:49	01/13/25 23:02	1
Manganese	<0.010		0.025	0.010	mg/L		01/10/25 14:49	01/14/25 13:08	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.014**		0.0060	0.0013	mg/L		01/08/25 14:28	01/09/25 15:16	1
Thallium	**0.00065**	**J**	0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 15:16	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-255917-2

Client Sample ID: SB11 (0-3)

Date Collected: 08/29/24 14:01
Date Received: 08/30/24 12:00

Lab Sample ID: 500-255917-11

Matrix: Solid

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 14:28	01/09/25 12:01	1
Cadmium	**0.0043**	**J**	0.0050	0.0020	mg/L		01/08/25 14:28	01/09/25 12:01	1
Chromium	**0.033**		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:01	1
Copper	**0.012**	**J**	0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:01	1
Iron	**3.2**		0.20	0.20	mg/L		01/08/25 14:28	01/09/25 12:01	1
Lead	**0.014**	**J**	0.050	0.0075	mg/L		01/08/25 14:28	01/09/25 12:01	1
Manganese	**28**		0.13	0.050	mg/L		01/08/25 14:28	01/23/25 12:41	5
Nickel	**0.026**		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:01	1
Selenium	**0.024**	**J**	0.050	0.020	mg/L		01/08/25 14:28	01/09/25 12:01	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:01	1
Zinc	**4.1**		0.10	0.020	mg/L		01/08/25 14:28	01/09/25 12:01	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.019**		0.0075	0.0075	mg/L		01/10/25 14:49	01/13/25 23:20	1
Manganese	**0.16**		0.025	0.010	mg/L		01/10/25 14:49	01/14/25 13:34	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 15:20	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB11 (5-7.5)
Lab Sample ID: 500-255917-12
Date Collected: 08/29/24 14:15
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:49	01/13/25 23:24	1
Copper	**0.022**	**J**	0.025	0.010	mg/L		01/10/25 14:49	01/13/25 23:24	1
Iron	**4.0**		0.20	0.20	mg/L		01/10/25 14:49	01/14/25 16:26	1
Manganese	**0.21**		0.025	0.010	mg/L		01/10/25 14:49	01/14/25 13:38	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:49	01/13/25 23:24	1
Silver	<0.010		0.025	0.010	mg/L		01/10/25 14:49	01/13/25 23:24	1
Zinc	**0.093**	**J**	0.10	0.020	mg/L		01/10/25 14:49	01/13/25 23:24	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:49	01/13/25 16:38	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB12 (0-3)
Lab Sample ID: 500-255917-13

Date Collected: 08/29/24 09:23
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 15:58	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 15:58	1
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:58	1
Copper	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:58	1
Iron	<0.20		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 15:58	1
Lead	<0.038		0.25	0.038	mg/L		01/10/25 14:52	01/14/25 11:36	5
Manganese	**3.4**		0.13	0.050	mg/L		01/10/25 14:52	01/14/25 11:36	5
Nickel	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:58	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 15:58	1
Silver	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:58	1
Zinc	**0.20**		0.10	0.020	mg/L		01/10/25 14:52	01/13/25 15:58	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.24**		0.025	0.010	mg/L		01/10/25 14:49	01/14/25 13:42	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 18:18	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB13 (0-3)
Lab Sample ID: 500-255917-15
Date Collected: 08/29/24 10:45
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.65		0.65		mg/L		10/14/24 14:00	10/15/24 19:21	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.65		0.65		mg/L		11/04/24 14:00	11/06/24 06:00	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 06:00	1
Vanadium	**0.13**		0.049		mg/L		11/04/24 14:00	11/06/24 06:00	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/27/24 14:00	12/30/24 21:07	1
Cadmium	**0.00021**	**J**	0.0010	0.000077	mg/L		12/27/24 14:00	12/30/24 21:07	1
Chromium	**0.0026**	**J B**	0.0050	0.0012	mg/L		12/27/24 14:00	12/30/24 21:07	1
Iron	<0.047		0.10	0.047	mg/L		12/27/24 14:00	12/30/24 21:07	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/27/24 14:00	12/30/24 21:07	1
Nickel	**0.0063**		0.0020	0.0015	mg/L		12/27/24 14:00	12/30/24 21:07	1
Selenium	**0.0020**	**J**	0.0050	0.00089	mg/L		12/27/24 14:00	12/30/24 21:07	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/27/24 14:00	12/30/24 21:07	1
Thallium	**0.00089**	**J**	0.0020	0.00051	mg/L		12/27/24 14:00	12/30/24 21:07	1
Vanadium	**0.12**		0.020	0.00082	mg/L		12/27/24 14:00	12/30/24 21:07	1
Zinc	<0.015		0.020	0.015	mg/L		12/27/24 14:00	12/30/24 21:07	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB13 (5-7.5)
Lab Sample ID: 500-255917-16

Date Collected: 08/29/24 10:54
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.031**		0.015	0.0026	mg/L		12/27/24 14:00	12/31/24 20:34	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:23	1
Barium	**0.71**		0.0050		mg/L		10/14/24 14:00	10/15/24 19:23	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:23	1
Cadmium	**0.0013**		0.0010		mg/L		10/14/24 14:00	10/15/24 19:23	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:23	1
Copper	**0.39**		0.0020		mg/L		10/14/24 14:00	10/15/24 19:23	1
Iron	<0.10		0.10		mg/L		10/14/24 14:00	10/15/24 19:23	1
Lead	**0.0035**		0.0010		mg/L		10/14/24 14:00	10/15/24 19:23	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:23	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:23	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:23	1
Zinc	**0.15**		0.020		mg/L		10/14/24 14:00	10/15/24 19:23	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	H	0.0020		mg/L		10/14/24 14:00	10/15/24 11:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB14 (0-3)
Lab Sample ID: 500-255917-17

Date Collected: 08/29/24 12:09
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.22**		0.015	0.0026	mg/L		12/27/24 14:00	12/31/24 20:38	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0035**		0.0020		mg/L		10/14/24 14:00	10/15/24 19:30	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:30	1
Barium	**0.35**		0.0050		mg/L		10/14/24 14:00	10/15/24 19:30	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:30	1
Cadmium	**0.0027**		0.0010		mg/L		10/14/24 14:00	10/15/24 19:30	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:30	1
Copper	**0.0024**		0.0020		mg/L		10/14/24 14:00	10/15/24 19:30	1
Iron	**0.17**		0.10		mg/L		10/14/24 14:00	10/15/24 19:30	1
Lead	**0.0025**		0.0010		mg/L		10/14/24 14:00	10/15/24 19:30	1
Manganese	**3.6**		0.0050		mg/L		10/14/24 14:00	10/15/24 19:30	1
Nickel	**0.0073**		0.0020		mg/L		10/14/24 14:00	10/15/24 19:30	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:30	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:30	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:30	1
Zinc	**0.13**		0.020		mg/L		10/14/24 14:00	10/15/24 19:30	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	H	0.0020		mg/L		10/14/24 14:00	10/15/24 11:31	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB14 (10-12.5)
Lab Sample ID: 500-255917-18
Date Collected: 08/29/24 12:23
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 16:16	1
Cadmium	**0.0021**	**J**	0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 16:16	1
Lead	<0.038		0.038	0.038	mg/L		01/10/25 14:52	01/14/25 11:54	5
Selenium	**0.026**	**J**	0.050	0.020	mg/L		01/10/25 14:52	01/13/25 16:16	1
Silver	**0.022**	**J**	0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:16	1
Zinc	**0.21**		0.10	0.020	mg/L		01/10/25 14:52	01/13/25 16:16	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.021**	**J**	0.025	0.010	mg/L		01/10/25 14:49	01/14/25 13:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB15 (0-3)
Lab Sample ID: 500-255917-19
Date Collected: 08/29/24 13:35
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 16:21	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 16:21	1
Copper	**0.020**	**J**	0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:21	1
Iron	**4.9**		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 16:21	1
Lead	<0.038		0.25	0.038	mg/L		01/10/25 14:52	01/14/25 11:59	5
Manganese	**4.8**		0.13	0.050	mg/L		01/10/25 14:52	01/14/25 11:59	5
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 16:21	1
Silver	**0.013**	**J**	0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:21	1
Zinc	**0.11**		0.10	0.020	mg/L		01/10/25 14:52	01/13/25 16:21	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.43**		0.025	0.010	mg/L		01/10/25 14:49	01/14/25 13:51	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 18:33	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB15 (7.5-10)
Lab Sample ID: 500-255917-20

Date Collected: 08/29/24 13:53
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 16:34	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 16:34	1
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:34	1
Iron	**3.5**		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 16:34	1
Lead	**0.044**	**J**	0.25	0.038	mg/L		01/10/25 14:52	01/14/25 12:04	5
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 16:34	1
Silver	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:34	1
Zinc	**0.048**	**J**	0.10	0.020	mg/L		01/10/25 14:52	01/13/25 16:34	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/10/25 14:49	01/13/25 23:50	1
Manganese	<0.010		0.025	0.010	mg/L		01/10/25 14:49	01/14/25 13:55	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 18:37	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB16 (0-3)
Lab Sample ID: 500-255917-21
Date Collected: 08/29/24 15:03
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 16:39	1
Cadmium	**0.0029**	**J**	0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 16:39	1
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:39	1
Copper	**0.010**	**J**	0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:39	1
Iron	**1.7**		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 16:39	1
Lead	<0.038		0.25	0.038	mg/L		01/10/25 14:52	01/14/25 12:08	5
Nickel	**0.016**	**J**	0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:39	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 16:39	1
Silver	**0.018**	**J**	0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:39	1
Zinc	**0.17**		0.10	0.020	mg/L		01/10/25 14:52	01/13/25 16:39	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/10/25 14:49	01/14/25 14:00	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**0.00088**	**J**	0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 18:41	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB16 (3-5)
Lab Sample ID: 500-255917-22

Date Collected: 08/29/24 15:09
Matrix: Solid
Date Received: 08/30/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 16:43	1
Cadmium	**0.0045**	**J**	0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 16:43	1
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:43	1
Copper	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:43	1
Iron	**2.2**		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 16:43	1
Lead	<0.038		0.25	0.038	mg/L		01/10/25 14:52	01/14/25 12:13	5
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 16:43	1
Silver	**0.018**	**J**	0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:43	1
Zinc	**0.37**		0.10	0.020	mg/L		01/10/25 14:52	01/13/25 16:43	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/10/25 14:49	01/14/25 14:04	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**0.0028**		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 18:45	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 630581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	TCLP	Solid	1311	
500-255917-15	SB13 (0-3)	TCLP	Solid	1311	
500-255917-16	SB13 (5-7.5)	TCLP	Solid	1311	
500-255917-17	SB14 (0-3)	TCLP	Solid	1311	
LB 240-630581/1-B	Method Blank	TCLP	Solid	1311	
500-255917-1 MS	SB6 (0-3)	TCLP	Solid	1311	
500-255917-1 MSD	SB6 (0-3)	TCLP	Solid	1311	
500-255917-15 MS	SB13 (0-3)	TCLP	Solid	1311	
500-255917-15 MSD	SB13 (0-3)	TCLP	Solid	1311	

Prep Batch: 630682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	TCLP	Solid	3010A	630581
500-255917-15	SB13 (0-3)	TCLP	Solid	3010A	630581
500-255917-16	SB13 (5-7.5)	TCLP	Solid	3010A	630581
500-255917-17	SB14 (0-3)	TCLP	Solid	3010A	630581
LB 240-630581/1-B	Method Blank	TCLP	Solid	3010A	630581
MB 240-630682/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630682/3-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 240-630682/4-A	Lab Control Sample	Total/NA	Solid	3010A	
500-255917-1 MS	SB6 (0-3)	TCLP	Solid	3010A	630581
500-255917-1 MSD	SB6 (0-3)	TCLP	Solid	3010A	630581
500-255917-15 MS	SB13 (0-3)	TCLP	Solid	3010A	630581
500-255917-15 MSD	SB13 (0-3)	TCLP	Solid	3010A	630581

Prep Batch: 630688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	TCLP	Solid	7470A	630581
500-255917-16	SB13 (5-7.5)	TCLP	Solid	7470A	630581
500-255917-17	SB14 (0-3)	TCLP	Solid	7470A	630581
LB 240-630688/1-A	Method Blank	Total/NA	Solid	7470A	
MB 240-630688/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 240-630688/3-A	Lab Control Sample	Total/NA	Solid	7470A	
500-255917-1 MS	SB6 (0-3)	TCLP	Solid	7470A	630581
500-255917-1 MSD	SB6 (0-3)	TCLP	Solid	7470A	630581

Analysis Batch: 630895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	TCLP	Solid	7470A	630688
500-255917-16	SB13 (5-7.5)	TCLP	Solid	7470A	630688
500-255917-17	SB14 (0-3)	TCLP	Solid	7470A	630688
LB 240-630688/1-A	Method Blank	Total/NA	Solid	7470A	630688
MB 240-630688/2-A	Method Blank	Total/NA	Solid	7470A	630688
LCS 240-630688/3-A	Lab Control Sample	Total/NA	Solid	7470A	630688
500-255917-1 MS	SB6 (0-3)	TCLP	Solid	7470A	630688
500-255917-1 MSD	SB6 (0-3)	TCLP	Solid	7470A	630688

Analysis Batch: 630918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-15	SB13 (0-3)	TCLP	Solid	6010D	630682
LB 240-630581/1-B	Method Blank	TCLP	Solid	6010D	630682

Metals (Continued)

Analysis Batch: 630918 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-630682/2-A	Method Blank	Total/NA	Solid	6010D	630682
LCS 240-630682/3-A	Lab Control Sample	Total/NA	Solid	6010D	630682
500-255917-15 MS	SB13 (0-3)	TCLP	Solid	6010D	630682
500-255917-15 MSD	SB13 (0-3)	TCLP	Solid	6010D	630682

Analysis Batch: 630986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	TCLP	Solid	6020B	630682
500-255917-16	SB13 (5-7.5)	TCLP	Solid	6020B	630682
500-255917-17	SB14 (0-3)	TCLP	Solid	6020B	630682
LB 240-630581/1-B	Method Blank	TCLP	Solid	6020B	630682
MB 240-630682/2-A	Method Blank	Total/NA	Solid	6020B	630682
LCS 240-630682/4-A	Lab Control Sample	Total/NA	Solid	6020B	630682
500-255917-1 MS	SB6 (0-3)	TCLP	Solid	6020B	630682
500-255917-1 MSD	SB6 (0-3)	TCLP	Solid	6020B	630682

Leach Batch: 633697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	SPLP East	Solid	1312	
500-255917-15	SB13 (0-3)	SPLP East	Solid	1312	
LB 240-633697/1-B	Method Blank	SPLP East	Solid	1312	
500-255917-1 MS	SB6 (0-3)	SPLP East	Solid	1312	
500-255917-1 MSD	SB6 (0-3)	SPLP East	Solid	1312	
500-255917-15 MS	SB13 (0-3)	SPLP East	Solid	1312	
500-255917-15 MSD	SB13 (0-3)	SPLP East	Solid	1312	

Prep Batch: 633805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	SPLP East	Solid	3010A	633697
500-255917-15	SB13 (0-3)	SPLP East	Solid	3010A	633697
LB 240-633697/1-B	Method Blank	SPLP East	Solid	3010A	633697
MB 240-633805/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-633805/3-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 240-633805/4-A	Lab Control Sample	Total/NA	Solid	3010A	
500-255917-1 MS	SB6 (0-3)	SPLP East	Solid	3010A	633697
500-255917-1 MSD	SB6 (0-3)	SPLP East	Solid	3010A	633697
500-255917-15 MS	SB13 (0-3)	SPLP East	Solid	3010A	633697
500-255917-15 MSD	SB13 (0-3)	SPLP East	Solid	3010A	633697

Analysis Batch: 634046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-1	SB6 (0-3)	SPLP East	Solid	6020B	633805
LB 240-633697/1-B	Method Blank	SPLP East	Solid	6020B	633805
MB 240-633805/2-A	Method Blank	Total/NA	Solid	6020B	633805
LCS 240-633805/4-A	Lab Control Sample	Total/NA	Solid	6020B	633805
500-255917-1 MS	SB6 (0-3)	SPLP East	Solid	6020B	633805
500-255917-1 MSD	SB6 (0-3)	SPLP East	Solid	6020B	633805

Analysis Batch: 634193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-15	SB13 (0-3)	SPLP East	Solid	6010D	633805

Metals (Continued)

Analysis Batch: 634193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-633697/1-B	Method Blank	SPLP East	Solid	6010D	633805
MB 240-633805/2-A	Method Blank	Total/NA	Solid	6010D	633805
LCS 240-633805/3-A	Lab Control Sample	Total/NA	Solid	6010D	633805
500-255917-15 MS	SB13 (0-3)	SPLP East	Solid	6010D	633805
500-255917-15 MSD	SB13 (0-3)	SPLP East	Solid	6010D	633805

Leach Batch: 639988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-16	SB13 (5-7.5)	SPLP East	Solid	1312	
500-255917-17	SB14 (0-3)	SPLP East	Solid	1312	
LB 240-639988/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 639989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-15	SB13 (0-3)	TCLP	Solid	1311	
LB 240-639989/1-B	Method Blank	TCLP	Solid	1311	
500-255917-15 MS	SB13 (0-3)	TCLP	Solid	1311	
500-255917-15 MSD	SB13 (0-3)	TCLP	Solid	1311	

Prep Batch: 640065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-16	SB13 (5-7.5)	SPLP East	Solid	3010A	639988
500-255917-17	SB14 (0-3)	SPLP East	Solid	3010A	639988
LB 240-639988/1-B	Method Blank	SPLP East	Solid	3010A	639988
MB 240-640065/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640065/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 640066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-15	SB13 (0-3)	TCLP	Solid	3010A	639989
LB 240-639989/1-B	Method Blank	TCLP	Solid	3010A	639989
MB 240-640066/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640066/4-A	Lab Control Sample	Total/NA	Solid	3010A	
500-255917-15 MS	SB13 (0-3)	TCLP	Solid	3010A	639989
500-255917-15 MSD	SB13 (0-3)	TCLP	Solid	3010A	639989

Analysis Batch: 640345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-15	SB13 (0-3)	TCLP	Solid	6020B	640066
LB 240-639989/1-B	Method Blank	TCLP	Solid	6020B	640066
MB 240-640066/2-A	Method Blank	Total/NA	Solid	6020B	640066
LCS 240-640066/4-A	Lab Control Sample	Total/NA	Solid	6020B	640066
500-255917-15 MS	SB13 (0-3)	TCLP	Solid	6020B	640066
500-255917-15 MSD	SB13 (0-3)	TCLP	Solid	6020B	640066

Analysis Batch: 640423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-16	SB13 (5-7.5)	SPLP East	Solid	6010D	640065
500-255917-17	SB14 (0-3)	SPLP East	Solid	6010D	640065
LB 240-639988/1-B	Method Blank	SPLP East	Solid	6010D	640065
MB 240-640065/2-A	Method Blank	Total/NA	Solid	6010D	640065

Metals (Continued)

Analysis Batch: 640423 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-640065/3-A	Lab Control Sample	Total/NA	Solid	6010D	640065

Leach Batch: 792364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-2	SB6 (3-5)	TCLP	Solid	1311	
LB 500-792364/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 792710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-2	SB6 (3-5)	TCLP	Solid	3010A	792364
LB 500-792364/1-B	Method Blank	TCLP	Solid	3010A	792364
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 793149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-2	SB6 (3-5)	TCLP	Solid	6010D	792710
LB 500-792364/1-B	Method Blank	TCLP	Solid	6010D	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6010D	792710

Analysis Batch: 793227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-2	SB6 (3-5)	TCLP	Solid	6020B	792710
LB 500-792364/1-B	Method Blank	TCLP	Solid	6020B	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6020B	792710

Leach Batch: 793820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-2	SB6 (3-5)	SPLP East	Solid	1312	
LB 500-793820/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 794087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-2	SB6 (3-5)	SPLP East	Solid	3010A	793820
LB 500-793820/1-B	Method Blank	SPLP East	Solid	3010A	793820
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 794479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-2	SB6 (3-5)	SPLP East	Solid	6020B	794087
LB 500-793820/1-B	Method Blank	SPLP East	Solid	6020B	794087
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	6020B	794087

Leach Batch: 801978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-3	SB7 (0-3)	SPLP East	Solid	1312	
500-255917-5	SB8 (0-3)	SPLP East	Solid	1312	
500-255917-7	SB9 (0-3)	SPLP East	Solid	1312	
500-255917-9	SB10 (0-3)	SPLP East	Solid	1312	
LB 500-801978/1-B	Method Blank	SPLP East	Solid	1312	

Metals

Leach Batch: 801994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-3	SB7 (0-3)	TCLP	Solid	1311	
500-255917-5	SB8 (0-3)	TCLP	Solid	1311	
500-255917-9	SB10 (0-3)	TCLP	Solid	1311	
500-255917-10	SB10 (5-7.5)	TCLP	Solid	1311	
500-255917-11	SB11 (0-3)	TCLP	Solid	1311	
LB 500-801994/1-B	Method Blank	TCLP	Solid	1311	
500-255917-3 MS	SB7 (0-3)	TCLP	Solid	1311	
500-255917-3 DU	SB7 (0-3)	TCLP	Solid	1311	

Prep Batch: 802156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-3	SB7 (0-3)	TCLP	Solid	3010A	801994
500-255917-5	SB8 (0-3)	TCLP	Solid	3010A	801994
500-255917-9	SB10 (0-3)	TCLP	Solid	3010A	801994
500-255917-10	SB10 (5-7.5)	TCLP	Solid	3010A	801994
500-255917-11	SB11 (0-3)	TCLP	Solid	3010A	801994
LB 500-801994/1-B	Method Blank	TCLP	Solid	3010A	801994
LCS 500-802156/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-255917-3 MS	SB7 (0-3)	TCLP	Solid	3010A	801994
500-255917-3 DU	SB7 (0-3)	TCLP	Solid	3010A	801994

Prep Batch: 802170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-3	SB7 (0-3)	SPLP East	Solid	3010A	801978
500-255917-5	SB8 (0-3)	SPLP East	Solid	3010A	801978
500-255917-7	SB9 (0-3)	SPLP East	Solid	3010A	801978
500-255917-9	SB10 (0-3)	SPLP East	Solid	3010A	801978
LB 500-801978/1-B	Method Blank	SPLP East	Solid	3010A	801978
LCS 500-802170/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Leach Batch: 802298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-10	SB10 (5-7.5)	SPLP East	Solid	1312	
500-255917-11	SB11 (0-3)	SPLP East	Solid	1312	
500-255917-12	SB11 (5-7.5)	SPLP East	Solid	1312	
500-255917-13	SB12 (0-3)	SPLP East	Solid	1312	
500-255917-18	SB14 (10-12.5)	SPLP East	Solid	1312	
500-255917-19	SB15 (0-3)	SPLP East	Solid	1312	
500-255917-20	SB15 (7.5-10)	SPLP East	Solid	1312	
500-255917-21	SB16 (0-3)	SPLP East	Solid	1312	
500-255917-22	SB16 (3-5)	SPLP East	Solid	1312	
LB 500-802298/1-B	Method Blank	SPLP East	Solid	1312	
500-255917-10 MS	SB10 (5-7.5)	SPLP East	Solid	1312	
500-255917-10 DU	SB10 (5-7.5)	SPLP East	Solid	1312	

Leach Batch: 802305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-13	SB12 (0-3)	TCLP	Solid	1311	
500-255917-18	SB14 (10-12.5)	TCLP	Solid	1311	
500-255917-19	SB15 (0-3)	TCLP	Solid	1311	
500-255917-20	SB15 (7.5-10)	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 802305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-21	SB16 (0-3)	TCLP	Solid	1311	
500-255917-22	SB16 (3-5)	TCLP	Solid	1311	
LB 500-802305/1-B	Method Blank	TCLP	Solid	1311	
500-255917-13 MS	SB12 (0-3)	TCLP	Solid	1311	
500-255917-13 DU	SB12 (0-3)	TCLP	Solid	1311	

Analysis Batch: 802359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-3	SB7 (0-3)	SPLP East	Solid	6010D	802170
500-255917-3	SB7 (0-3)	TCLP	Solid	6010D	802156
500-255917-5	SB8 (0-3)	SPLP East	Solid	6010D	802170
500-255917-5	SB8 (0-3)	TCLP	Solid	6010D	802156
500-255917-7	SB9 (0-3)	SPLP East	Solid	6010D	802170
500-255917-9	SB10 (0-3)	SPLP East	Solid	6010D	802170
500-255917-9	SB10 (0-3)	TCLP	Solid	6010D	802156
500-255917-10	SB10 (5-7.5)	TCLP	Solid	6010D	802156
500-255917-11	SB11 (0-3)	TCLP	Solid	6010D	802156
LB 500-801978/1-B	Method Blank	SPLP East	Solid	6010D	802170
LB 500-801994/1-B	Method Blank	TCLP	Solid	6010D	802156
LCS 500-802156/2-A	Lab Control Sample	Total/NA	Solid	6010D	802156
LCS 500-802170/2-A	Lab Control Sample	Total/NA	Solid	6010D	802170
500-255917-3 MS	SB7 (0-3)	TCLP	Solid	6010D	802156
500-255917-3 DU	SB7 (0-3)	TCLP	Solid	6010D	802156

Analysis Batch: 802391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-3	SB7 (0-3)	TCLP	Solid	6020B	802156
500-255917-5	SB8 (0-3)	TCLP	Solid	6020B	802156
500-255917-7	SB9 (0-3)	SPLP East	Solid	6020B	802170
500-255917-10	SB10 (5-7.5)	TCLP	Solid	6020B	802156
500-255917-11	SB11 (0-3)	TCLP	Solid	6020B	802156
LB 500-801978/1-B	Method Blank	SPLP East	Solid	6020B	802170
LB 500-801994/1-B	Method Blank	TCLP	Solid	6020B	802156
LCS 500-802156/2-A	Lab Control Sample	Total/NA	Solid	6020B	802156
LCS 500-802170/2-A	Lab Control Sample	Total/NA	Solid	6020B	802170
500-255917-3 MS	SB7 (0-3)	TCLP	Solid	6020B	802156
500-255917-3 DU	SB7 (0-3)	TCLP	Solid	6020B	802156

Analysis Batch: 802392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-3	SB7 (0-3)	TCLP	Solid	6010D	802156
500-255917-9	SB10 (0-3)	TCLP	Solid	6010D	802156
500-255917-10	SB10 (5-7.5)	TCLP	Solid	6010D	802156
500-255917-3 MS	SB7 (0-3)	TCLP	Solid	6010D	802156
500-255917-3 DU	SB7 (0-3)	TCLP	Solid	6010D	802156

Prep Batch: 802497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-10	SB10 (5-7.5)	SPLP East	Solid	3010A	802298
500-255917-11	SB11 (0-3)	SPLP East	Solid	3010A	802298
500-255917-12	SB11 (5-7.5)	SPLP East	Solid	3010A	802298

Metals (Continued)

Prep Batch: 802497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-13	SB12 (0-3)	SPLP East	Solid	3010A	802298
500-255917-18	SB14 (10-12.5)	SPLP East	Solid	3010A	802298
500-255917-19	SB15 (0-3)	SPLP East	Solid	3010A	802298
500-255917-20	SB15 (7.5-10)	SPLP East	Solid	3010A	802298
500-255917-21	SB16 (0-3)	SPLP East	Solid	3010A	802298
500-255917-22	SB16 (3-5)	SPLP East	Solid	3010A	802298
LB 500-802298/1-B	Method Blank	SPLP East	Solid	3010A	802298
LCS 500-802497/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-255917-10 MS	SB10 (5-7.5)	SPLP East	Solid	3010A	802298
500-255917-10 DU	SB10 (5-7.5)	SPLP East	Solid	3010A	802298

Prep Batch: 802500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-13	SB12 (0-3)	TCLP	Solid	3010A	802305
500-255917-18	SB14 (10-12.5)	TCLP	Solid	3010A	802305
500-255917-19	SB15 (0-3)	TCLP	Solid	3010A	802305
500-255917-20	SB15 (7.5-10)	TCLP	Solid	3010A	802305
500-255917-21	SB16 (0-3)	TCLP	Solid	3010A	802305
500-255917-22	SB16 (3-5)	TCLP	Solid	3010A	802305
LB 500-802305/1-B	Method Blank	TCLP	Solid	3010A	802305
LCS 500-802500/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-255917-13 MS	SB12 (0-3)	TCLP	Solid	3010A	802305
500-255917-13 DU	SB12 (0-3)	TCLP	Solid	3010A	802305

Analysis Batch: 802739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-12	SB11 (5-7.5)	SPLP East	Solid	6020B	802497
LB 500-802298/1-B	Method Blank	SPLP East	Solid	6020B	802497
LCS 500-802497/2-A	Lab Control Sample	Total/NA	Solid	6020B	802497

Analysis Batch: 802745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-13	SB12 (0-3)	TCLP	Solid	6020B	802500
500-255917-19	SB15 (0-3)	TCLP	Solid	6020B	802500
500-255917-20	SB15 (7.5-10)	TCLP	Solid	6020B	802500
500-255917-21	SB16 (0-3)	TCLP	Solid	6020B	802500
500-255917-22	SB16 (3-5)	TCLP	Solid	6020B	802500
LB 500-802305/1-B	Method Blank	TCLP	Solid	6020B	802500
LCS 500-802500/2-A	Lab Control Sample	Total/NA	Solid	6020B	802500
500-255917-13 MS	SB12 (0-3)	TCLP	Solid	6020B	802500
500-255917-13 DU	SB12 (0-3)	TCLP	Solid	6020B	802500

Analysis Batch: 802753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-13	SB12 (0-3)	TCLP	Solid	6010D	802500
500-255917-18	SB14 (10-12.5)	TCLP	Solid	6010D	802500
500-255917-19	SB15 (0-3)	TCLP	Solid	6010D	802500
500-255917-20	SB15 (7.5-10)	TCLP	Solid	6010D	802500
500-255917-21	SB16 (0-3)	TCLP	Solid	6010D	802500
500-255917-22	SB16 (3-5)	TCLP	Solid	6010D	802500
LB 500-802305/1-B	Method Blank	TCLP	Solid	6010D	802500

Metals (Continued)

Analysis Batch: 802753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-802500/2-A	Lab Control Sample	Total/NA	Solid	6010D	802500
500-255917-13 MS	SB12 (0-3)	TCLP	Solid	6010D	802500
500-255917-13 DU	SB12 (0-3)	TCLP	Solid	6010D	802500

Analysis Batch: 802754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-10	SB10 (5-7.5)	SPLP East	Solid	6010D	802497
500-255917-11	SB11 (0-3)	SPLP East	Solid	6010D	802497
500-255917-12	SB11 (5-7.5)	SPLP East	Solid	6010D	802497
500-255917-20	SB15 (7.5-10)	SPLP East	Solid	6010D	802497
LB 500-802298/1-B	Method Blank	SPLP East	Solid	6010D	802497
LCS 500-802497/2-A	Lab Control Sample	Total/NA	Solid	6010D	802497
500-255917-10 MS	SB10 (5-7.5)	SPLP East	Solid	6010D	802497
500-255917-10 DU	SB10 (5-7.5)	SPLP East	Solid	6010D	802497

Analysis Batch: 802870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-10	SB10 (5-7.5)	SPLP East	Solid	6010D	802497
500-255917-11	SB11 (0-3)	SPLP East	Solid	6010D	802497
500-255917-12	SB11 (5-7.5)	SPLP East	Solid	6010D	802497
500-255917-13	SB12 (0-3)	SPLP East	Solid	6010D	802497
500-255917-13	SB12 (0-3)	TCLP	Solid	6010D	802500
500-255917-18	SB14 (10-12.5)	SPLP East	Solid	6010D	802497
500-255917-18	SB14 (10-12.5)	TCLP	Solid	6010D	802500
500-255917-19	SB15 (0-3)	SPLP East	Solid	6010D	802497
500-255917-19	SB15 (0-3)	TCLP	Solid	6010D	802500
500-255917-20	SB15 (7.5-10)	SPLP East	Solid	6010D	802497
500-255917-20	SB15 (7.5-10)	TCLP	Solid	6010D	802500
500-255917-21	SB16 (0-3)	SPLP East	Solid	6010D	802497
500-255917-21	SB16 (0-3)	TCLP	Solid	6010D	802500
500-255917-22	SB16 (3-5)	SPLP East	Solid	6010D	802497
500-255917-22	SB16 (3-5)	TCLP	Solid	6010D	802500
LB 500-802298/1-B	Method Blank	SPLP East	Solid	6010D	802497
LCS 500-802497/2-A	Lab Control Sample	Total/NA	Solid	6010D	802497
500-255917-10 MS	SB10 (5-7.5)	SPLP East	Solid	6010D	802497
500-255917-13 MS	SB12 (0-3)	TCLP	Solid	6010D	802500
500-255917-10 DU	SB10 (5-7.5)	SPLP East	Solid	6010D	802497
500-255917-13 DU	SB12 (0-3)	TCLP	Solid	6010D	802500

Analysis Batch: 802920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-12	SB11 (5-7.5)	SPLP East	Solid	6010D	802497
LB 500-802298/1-B	Method Blank	SPLP East	Solid	6010D	802497
LCS 500-802497/2-A	Lab Control Sample	Total/NA	Solid	6010D	802497

Analysis Batch: 803990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-255917-11	SB11 (0-3)	TCLP	Solid	6010D	802156

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.65		0.65		mg/L		10/14/24 14:00	10/15/24 19:04	1

Lab Sample ID: LCS 240-630682/3-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	1.00	0.938		mg/L		94	50 - 150

Lab Sample ID: MB 240-633805/2-A
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.65		0.65		mg/L		11/04/24 14:00	11/06/24 05:51	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 05:51	1
Vanadium	<0.049		0.049		mg/L		11/04/24 14:00	11/06/24 05:51	1

Lab Sample ID: LCS 240-633805/3-A
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	1.00	0.987		mg/L		99	50 - 150
Manganese	1.00	0.995		mg/L		99	50 - 150
Vanadium	1.00	1.03		mg/L		103	50 - 150

Lab Sample ID: MB 240-640065/2-A
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0026		0.015	0.0026	mg/L		12/27/24 14:00	12/31/24 19:50	1

Lab Sample ID: LCS 240-640065/3-A
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1.00	0.922		mg/L		92	50 - 150

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Copper	0.250	0.251		mg/L		100	80 - 120
Iron	1.00	0.873		mg/L		87	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.512		mg/L		102	80 - 120

Lab Sample ID: LCS 500-802156/2-A
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0524		mg/L		105	80 - 120
Cadmium	0.0500	0.0539		mg/L		108	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Copper	0.250	0.279		mg/L		112	80 - 120
Iron	1.00	0.965		mg/L		96	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Manganese	0.500	0.488		mg/L		98	80 - 120
Nickel	0.500	0.523		mg/L		105	80 - 120
Silver	0.0500	0.0528		mg/L		106	80 - 120
Zinc	0.500	0.549		mg/L		110	80 - 120
Selenium	0.100	0.115		mg/L		115	80 - 120

Lab Sample ID: LCS 500-802170/2-A
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0982		mg/L		98	80 - 120
Beryllium	0.0500	0.0476		mg/L		95	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Copper	0.250	0.251		mg/L		100	80 - 120
Iron	1.00	0.914		mg/L		91	80 - 120
Lead	0.100	0.0995		mg/L		100	80 - 120
Manganese	0.500	0.465		mg/L		93	80 - 120
Nickel	0.500	0.494		mg/L		99	80 - 120
Silver	0.0500	0.0480		mg/L		96	80 - 120
Zinc	0.500	0.488		mg/L		98	80 - 120
Selenium	0.100	0.0971		mg/L		97	80 - 120

Lab Sample ID: LCS 500-802497/2-A
Matrix: Solid
Analysis Batch: 802754

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0506		mg/L		101	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Copper	0.250	0.243		mg/L		97	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Silver	0.0500	0.0498		mg/L		100	80 - 120
Zinc	0.500	0.505		mg/L		101	80 - 120
Selenium	0.100	0.0928		mg/L		93	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-802497/2-A
Matrix: Solid
Analysis Batch: 802870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.173		mg/L		86	80 - 120
Lead	0.100	0.0869		mg/L		87	80 - 120
Manganese	0.500	0.436		mg/L		87	80 - 120

Lab Sample ID: LCS 500-802497/2-A
Matrix: Solid
Analysis Batch: 802920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.922		mg/L		92	80 - 120

Lab Sample ID: LCS 500-802500/2-A
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0501		mg/L		100	80 - 120
Cadmium	0.0500	0.0500		mg/L		100	80 - 120
Chromium	0.200	0.212		mg/L		106	80 - 120
Copper	0.250	0.242		mg/L		97	80 - 120
Iron	1.00	0.921		mg/L		92	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Manganese	0.500	0.489		mg/L		98	80 - 120
Nickel	0.500	0.540		mg/L		108	80 - 120
Silver	0.0500	0.0489		mg/L		98	80 - 120
Zinc	0.500	0.558		mg/L		112	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.65		0.65		mg/L		10/14/24 14:00	10/15/24 19:00	1

Lab Sample ID: 500-255917-15 MS
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: SB13 (0-3)
Prep Type: TCLP
Prep Batch: 630682

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	<0.65		0.250	<3.3		mg/L		94	75 - 125

Lab Sample ID: 500-255917-15 MSD
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: SB13 (0-3)
Prep Type: TCLP
Prep Batch: 630682

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	<0.65		0.250	<3.3		mg/L		93	75 - 125	0	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-792364/1-B
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 12:53	1
Copper	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Iron	<0.20		0.20		mg/L		10/29/24 14:15	10/30/24 12:53	1
Lead	<0.0075		0.0075		mg/L		10/29/24 14:15	10/30/24 12:53	1
Zinc	<0.10		0.10		mg/L		10/29/24 14:15	10/30/24 12:53	1

Lab Sample ID: LB 500-801994/1-B
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802156

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 14:28	01/09/25 11:21	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/08/25 14:28	01/09/25 11:21	1
Chromium	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:21	1
Copper	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:21	1
Iron	<0.20		0.20	0.20	mg/L		01/08/25 14:28	01/09/25 11:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/08/25 14:28	01/09/25 11:21	1
Manganese	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:21	1
Nickel	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:21	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:21	1
Zinc	<0.020		0.10	0.020	mg/L		01/08/25 14:28	01/09/25 11:21	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 14:28	01/09/25 11:21	1

Lab Sample ID: 500-255917-3 MS
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: SB7 (0-3)
Prep Type: TCLP
Prep Batch: 802156

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0547		mg/L		109	75 - 125
Cadmium	<0.0020		0.0500	0.0566		mg/L		113	75 - 125
Chromium	0.015	J	0.200	0.209		mg/L		97	75 - 125
Copper	0.017	J	0.250	0.289		mg/L		109	75 - 125
Iron	3.7		1.00	4.56		mg/L		91	75 - 125
Manganese	5.1		0.500	5.89	4	mg/L		149	75 - 125
Nickel	0.010	J	0.500	0.527		mg/L		103	75 - 125
Silver	<0.010		0.0500	0.0529		mg/L		106	75 - 125
Zinc	0.11		0.500	0.636		mg/L		105	75 - 125
Selenium	<0.020		0.100	0.120		mg/L		120	75 - 125

Lab Sample ID: 500-255917-3 MS
Matrix: Solid
Analysis Batch: 802392

Client Sample ID: SB7 (0-3)
Prep Type: TCLP
Prep Batch: 802156

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	<0.038	F1	0.100	0.129	F1	mg/L		129	75 - 125
Manganese	5.1	H	0.500	5.84	4	mg/L		152	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-255917-3 DU
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: SB7 (0-3)
Prep Type: TCLP
Prep Batch: 802156

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Chromium	0.015	J	0.0168	J	mg/L		9	20
Copper	0.017	J	0.0222	J F5	mg/L		25	20
Iron	3.7		4.82	F3	mg/L		27	20
Manganese	5.1		5.55		mg/L		8	20
Nickel	0.010	J	0.0112	J	mg/L		11	20
Silver	<0.010		<0.010		mg/L		NC	20
Zinc	0.11		0.126		mg/L		13	20
Selenium	<0.020		<0.020		mg/L		NC	20

Lab Sample ID: 500-255917-3 DU
Matrix: Solid
Analysis Batch: 802392

Client Sample ID: SB7 (0-3)
Prep Type: TCLP
Prep Batch: 802156

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	<0.038	F1	<0.038		mg/L		NC	20
Manganese	5.1	H	5.07		mg/L		0.2	20

Lab Sample ID: LB 500-802305/1-B
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802500

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 15:49	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 15:49	1
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Copper	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Iron	<0.20		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 15:49	1
Lead	<0.0075		0.050	0.0075	mg/L		01/10/25 14:52	01/13/25 15:49	1
Manganese	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Nickel	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Silver	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Zinc	<0.020		0.10	0.020	mg/L		01/10/25 14:52	01/13/25 15:49	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 15:49	1

Lab Sample ID: 500-255917-13 MS
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: SB12 (0-3)
Prep Type: TCLP
Prep Batch: 802500

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0516		mg/L		103	75 - 125
Cadmium	<0.0020		0.0500	0.0529		mg/L		106	75 - 125
Chromium	<0.010		0.200	0.207		mg/L		103	75 - 125
Copper	<0.010		0.250	0.249		mg/L		100	75 - 125
Iron	<0.20		1.00	0.899		mg/L		90	75 - 125
Manganese	2.8	H	0.500	3.32	4	mg/L		112	75 - 125
Nickel	<0.010		0.500	0.542		mg/L		108	75 - 125
Silver	<0.010		0.0500	0.0599		mg/L		120	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-255917-13 MS
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: SB12 (0-3)
Prep Type: TCLP
Prep Batch: 802500

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.20		0.500	0.750		mg/L		110	75 - 125
Selenium	<0.020		0.100	0.110		mg/L		110	75 - 125

Lab Sample ID: 500-255917-13 MS
Matrix: Solid
Analysis Batch: 802870

Client Sample ID: SB12 (0-3)
Prep Type: TCLP
Prep Batch: 802500

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	<0.038		0.100	0.0834	J	mg/L		83	75 - 125
Manganese	3.4		0.500	4.13	4	mg/L		154	75 - 125

Lab Sample ID: 500-255917-13 DU
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: SB12 (0-3)
Prep Type: TCLP
Prep Batch: 802500

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Chromium	<0.010		<0.010		mg/L		NC	20
Copper	<0.010		<0.010		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Manganese	2.8	H	2.72		mg/L		1	20
Nickel	<0.010		<0.010		mg/L		NC	20
Silver	<0.010		<0.010		mg/L		NC	20
Zinc	0.20		0.202		mg/L		0.3	20
Selenium	<0.020		<0.020		mg/L		NC	20

Lab Sample ID: 500-255917-13 DU
Matrix: Solid
Analysis Batch: 802870

Client Sample ID: SB12 (0-3)
Prep Type: TCLP
Prep Batch: 802500

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	<0.038		<0.038		mg/L		NC	20
Manganese	3.4		3.34		mg/L		0.7	20

Lab Sample ID: LB 240-633697/1-B
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 633805

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.65		0.65		mg/L		11/04/24 14:00	11/06/24 05:46	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 05:46	1
Vanadium	<0.049		0.049		mg/L		11/04/24 14:00	11/06/24 05:46	1

Lab Sample ID: 500-255917-15 MS
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: SB13 (0-3)
Prep Type: SPLP East
Prep Batch: 633805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	<0.65		0.250	<3.3		mg/L		95	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-255917-15 MS
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: SB13 (0-3)
Prep Type: SPLP East
Prep Batch: 633805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	<0.015		0.500	0.467		mg/L		93	75 - 125
Vanadium	0.13		0.500	0.625		mg/L		99	75 - 125

Lab Sample ID: 500-255917-15 MSD
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: SB13 (0-3)
Prep Type: SPLP East
Prep Batch: 633805

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	<0.65		0.250	<3.3		mg/L		100	75 - 125	5	20
Manganese	<0.015		0.500	0.503		mg/L		101	75 - 125	8	20
Vanadium	0.13		0.500	0.650		mg/L		104	75 - 125	4	20

Lab Sample ID: LB 240-639988/1-B
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 640065

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0026		0.015	0.0026	mg/L		12/27/24 14:00	12/31/24 19:45	1

Lab Sample ID: LB 500-801978/1-B
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802170

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 15:08	01/09/25 12:43	1
Chromium	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Copper	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Iron	<0.20		0.20	0.20	mg/L		01/08/25 15:08	01/09/25 12:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/08/25 15:08	01/09/25 12:43	1
Manganese	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Nickel	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Zinc	<0.020		0.10	0.020	mg/L		01/08/25 15:08	01/09/25 12:43	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 15:08	01/09/25 12:43	1

Lab Sample ID: LB 500-802298/1-B
Matrix: Solid
Analysis Batch: 802754

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802497

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:49	01/13/25 22:53	1
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:49	01/13/25 22:53	1
Copper	<0.010		0.025	0.010	mg/L		01/10/25 14:49	01/13/25 22:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/10/25 14:49	01/13/25 22:53	1
Silver	<0.010		0.025	0.010	mg/L		01/10/25 14:49	01/13/25 22:53	1
Zinc	<0.020		0.10	0.020	mg/L		01/10/25 14:49	01/13/25 22:53	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:49	01/13/25 22:53	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802298/1-B
Matrix: Solid
Analysis Batch: 802870

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802497

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:49	01/14/25 12:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/10/25 14:49	01/14/25 12:59	1
Manganese	<0.010		0.025	0.010	mg/L		01/10/25 14:49	01/14/25 12:59	1

Lab Sample ID: LB 500-802298/1-B
Matrix: Solid
Analysis Batch: 802920

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802497

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/10/25 14:49	01/14/25 16:17	1

Lab Sample ID: 500-255917-10 MS
Matrix: Solid
Analysis Batch: 802754

Client Sample ID: SB10 (5-7.5)
Prep Type: SPLP East
Prep Batch: 802497

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium	<0.010		0.200	0.200		mg/L		100	75 - 125		
Lead	<0.0075		0.100	0.104		mg/L		104	75 - 125		

Lab Sample ID: 500-255917-10 MS
Matrix: Solid
Analysis Batch: 802870

Client Sample ID: SB10 (5-7.5)
Prep Type: SPLP East
Prep Batch: 802497

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium	<0.010		0.200	0.184		mg/L		92	75 - 125		
Lead	<0.0075		0.100	0.0935		mg/L		93	75 - 125		
Manganese	<0.010		0.500	0.467		mg/L		93	75 - 125		

Lab Sample ID: 500-255917-10 DU
Matrix: Solid
Analysis Batch: 802754

Client Sample ID: SB10 (5-7.5)
Prep Type: SPLP East
Prep Batch: 802497

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium	<0.010			<0.010		mg/L				NC	20
Lead	<0.0075			<0.0075		mg/L				NC	20

Lab Sample ID: 500-255917-10 DU
Matrix: Solid
Analysis Batch: 802870

Client Sample ID: SB10 (5-7.5)
Prep Type: SPLP East
Prep Batch: 802497

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium	<0.010			<0.010		mg/L				NC	20
Lead	<0.0075			<0.0075		mg/L				NC	20
Manganese	<0.010			<0.010		mg/L				NC	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Barium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Iron	<0.10		0.10		mg/L		10/14/24 14:00	10/15/24 19:04	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Manganese	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Nickel	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Vanadium	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Zinc	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 19:04	1

Lab Sample ID: LCS 240-630682/4-A
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.101		mg/L		101	80 - 120
Arsenic	1.00	0.944		mg/L		94	80 - 120
Barium	1.00	0.955		mg/L		96	80 - 120
Beryllium	0.500	0.508		mg/L		102	80 - 120
Cadmium	0.500	0.470		mg/L		94	80 - 120
Chromium	0.500	0.478		mg/L		96	80 - 120
Copper	0.500	0.502		mg/L		100	80 - 120
Iron	5.00	4.75		mg/L		95	80 - 120
Lead	0.500	0.450		mg/L		90	80 - 120
Manganese	0.500	0.498		mg/L		100	80 - 120
Nickel	0.500	0.509		mg/L		102	80 - 120
Selenium	1.00	0.913		mg/L		91	80 - 120
Silver	0.100	0.0973		mg/L		97	80 - 120
Thallium	1.00	1.03		mg/L		103	80 - 120
Vanadium	0.500	0.488		mg/L		98	80 - 120
Zinc	0.500	0.448		mg/L		90	80 - 120

Lab Sample ID: MB 240-633805/2-A
Matrix: Solid
Analysis Batch: 634046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.10		0.10		mg/L		11/04/24 14:00	11/05/24 14:47	1
Manganese	<0.0050		0.0050		mg/L		11/04/24 14:00	11/05/24 14:47	1
Nickel	<0.0020		0.0020		mg/L		11/04/24 14:00	11/05/24 14:47	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-633805/4-A
Matrix: Solid
Analysis Batch: 634046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	5.16		mg/L		103	80 - 120
Manganese	0.500	0.473		mg/L		95	80 - 120
Nickel	0.500	0.461		mg/L		92	80 - 120

Lab Sample ID: MB 240-640066/2-A
Matrix: Solid
Analysis Batch: 640345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/27/24 14:00	12/30/24 21:01	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/27/24 14:00	12/30/24 21:01	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/27/24 14:00	12/30/24 21:01	1
Iron	<0.047		0.10	0.047	mg/L		12/27/24 14:00	12/30/24 21:01	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/27/24 14:00	12/30/24 21:01	1
Nickel	<0.0015		0.0020	0.0015	mg/L		12/27/24 14:00	12/30/24 21:01	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/27/24 14:00	12/30/24 21:01	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/27/24 14:00	12/30/24 21:01	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/27/24 14:00	12/30/24 21:01	1
Vanadium	<0.00082		0.020	0.00082	mg/L		12/27/24 14:00	12/30/24 21:01	1
Zinc	<0.015		0.020	0.015	mg/L		12/27/24 14:00	12/30/24 21:01	1

Lab Sample ID: LCS 240-640066/4-A
Matrix: Solid
Analysis Batch: 640345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.500	0.502		mg/L		100	80 - 120
Cadmium	0.500	0.448		mg/L		90	80 - 120
Chromium	0.500	0.484		mg/L		97	80 - 120
Iron	5.00	5.22		mg/L		104	80 - 120
Lead	0.500	0.542		mg/L		108	80 - 120
Nickel	0.500	0.479		mg/L		96	80 - 120
Selenium	1.00	0.921		mg/L		92	80 - 120
Silver	0.100	0.0962		mg/L		96	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120
Vanadium	0.500	0.492		mg/L		98	80 - 120
Zinc	0.500	0.495		mg/L		99	80 - 120

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.529		mg/L		106	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-794087/2-A
Matrix: Solid
Analysis Batch: 794479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 794087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.564		mg/L		113	80 - 120
Iron	1.00	1.16		mg/L		116	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Manganese	0.500	0.550		mg/L		110	80 - 120

Lab Sample ID: LCS 500-802156/2-A
Matrix: Solid
Analysis Batch: 802391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.527		mg/L		105	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LCS 500-802170/2-A
Matrix: Solid
Analysis Batch: 802391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LCS 500-802497/2-A
Matrix: Solid
Analysis Batch: 802739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LCS 500-802500/2-A
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.111		mg/L		111	80 - 120

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Barium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Iron	<0.10		0.10		mg/L		10/14/24 14:00	10/15/24 19:01	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Manganese	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Nickel	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Vanadium	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Zinc	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 19:01	1

Lab Sample ID: 500-255917-1 MS
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: SB6 (0-3)
Prep Type: TCLP
Prep Batch: 630682

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0020		0.100	0.105		mg/L		103	50 - 150
Arsenic	<0.0050		1.00	0.938		mg/L		94	50 - 150
Barium	0.50		1.00	1.46		mg/L		96	50 - 150
Beryllium	<0.0010		0.500	0.500		mg/L		100	50 - 150
Cadmium	<0.0010		0.500	0.464		mg/L		93	50 - 150
Chromium	<0.0050		0.500	0.475		mg/L		95	50 - 150
Copper	<0.0020		0.500	0.497		mg/L		99	50 - 150
Iron	<0.10		5.00	4.73		mg/L		95	50 - 150
Lead	<0.0010		0.500	0.450		mg/L		90	50 - 150
Manganese	4.4		0.500	4.80	4	mg/L		78	50 - 150
Nickel	0.016		0.500	0.522		mg/L		101	50 - 150
Selenium	<0.0050		1.00	0.937		mg/L		93	50 - 150
Silver	<0.0010		0.100	0.0989		mg/L		99	50 - 150
Thallium	<0.0020		1.00	1.05		mg/L		105	50 - 150
Vanadium	0.024		0.500	0.513		mg/L		98	50 - 150
Zinc	<0.020		0.500	0.429		mg/L		86	50 - 150

Lab Sample ID: 500-255917-1 MSD
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: SB6 (0-3)
Prep Type: TCLP
Prep Batch: 630682

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0020		0.100	0.103		mg/L		101	50 - 150	2	20
Arsenic	<0.0050		1.00	0.930		mg/L		93	50 - 150	1	20
Barium	0.50		1.00	1.45		mg/L		95	50 - 150	0	20
Beryllium	<0.0010		0.500	0.499		mg/L		100	50 - 150	0	20
Cadmium	<0.0010		0.500	0.461		mg/L		92	50 - 150	1	20
Chromium	<0.0050		0.500	0.471		mg/L		94	50 - 150	1	20
Copper	<0.0020		0.500	0.488		mg/L		98	50 - 150	2	20
Iron	<0.10		5.00	4.72		mg/L		94	50 - 150	0	20
Lead	<0.0010		0.500	0.439		mg/L		88	50 - 150	2	20
Manganese	4.4		0.500	4.71	4	mg/L		61	50 - 150	2	20
Nickel	0.016		0.500	0.514		mg/L		100	50 - 150	1	20
Selenium	<0.0050		1.00	0.927		mg/L		92	50 - 150	1	20
Silver	<0.0010		0.100	0.0970		mg/L		97	50 - 150	2	20
Thallium	<0.0020		1.00	1.03		mg/L		103	50 - 150	2	20
Vanadium	0.024		0.500	0.508		mg/L		97	50 - 150	1	20
Zinc	<0.020		0.500	0.420		mg/L		84	50 - 150	2	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 240-639989/1-B
Matrix: Solid
Analysis Batch: 640345

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 640066

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/27/24 14:00	12/30/24 20:58	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/27/24 14:00	12/30/24 20:58	1
Chromium	0.00129	J	0.0050	0.0012	mg/L		12/27/24 14:00	12/30/24 20:58	1
Iron	<0.047		0.10	0.047	mg/L		12/27/24 14:00	12/30/24 20:58	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/27/24 14:00	12/30/24 20:58	1
Nickel	<0.0015		0.0020	0.0015	mg/L		12/27/24 14:00	12/30/24 20:58	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/27/24 14:00	12/30/24 20:58	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/27/24 14:00	12/30/24 20:58	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/27/24 14:00	12/30/24 20:58	1
Vanadium	<0.00082		0.020	0.00082	mg/L		12/27/24 14:00	12/30/24 20:58	1
Zinc	<0.015		0.020	0.015	mg/L		12/27/24 14:00	12/30/24 20:58	1

Lab Sample ID: 500-255917-15 MS
Matrix: Solid
Analysis Batch: 640345

Client Sample ID: SB13 (0-3)
Prep Type: TCLP
Prep Batch: 640066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.00027		0.500	0.504		mg/L		101	50 - 150
Cadmium	0.00021	J	0.500	0.444		mg/L		89	50 - 150
Chromium	0.0026	J B	0.500	0.483		mg/L		96	50 - 150
Iron	<0.047		5.00	5.29		mg/L		106	50 - 150
Lead	<0.00045		0.500	0.552		mg/L		110	50 - 150
Nickel	0.0063		0.500	0.488		mg/L		96	50 - 150
Selenium	0.0020	J	1.00	0.945		mg/L		94	50 - 150
Silver	<0.000053		0.100	0.0981		mg/L		98	50 - 150
Thallium	0.00089	J	1.00	1.09		mg/L		109	50 - 150
Vanadium	0.12		0.500	0.612		mg/L		99	50 - 150
Zinc	<0.015		0.500	0.482		mg/L		96	50 - 150

Lab Sample ID: 500-255917-15 MSD
Matrix: Solid
Analysis Batch: 640345

Client Sample ID: SB13 (0-3)
Prep Type: TCLP
Prep Batch: 640066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.00027		0.500	0.505		mg/L		101	50 - 150	0	20
Cadmium	0.00021	J	0.500	0.448		mg/L		90	50 - 150	1	20
Chromium	0.0026	J B	0.500	0.483		mg/L		96	50 - 150	0	20
Iron	<0.047		5.00	5.28		mg/L		106	50 - 150	0	20
Lead	<0.00045		0.500	0.551		mg/L		110	50 - 150	0	20
Nickel	0.0063		0.500	0.486		mg/L		96	50 - 150	1	20
Selenium	0.0020	J	1.00	0.944		mg/L		94	50 - 150	0	20
Silver	<0.000053		0.100	0.0982		mg/L		98	50 - 150	0	20
Thallium	0.00089	J	1.00	1.10		mg/L		110	50 - 150	1	20
Vanadium	0.12		0.500	0.613		mg/L		99	50 - 150	0	20
Zinc	<0.015		0.500	0.480		mg/L		96	50 - 150	1	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-792364/1-B
Matrix: Solid
Analysis Batch: 793227

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060		mg/L		10/29/24 14:15	10/30/24 16:19	1
Thallium	<0.0020		0.0020		mg/L		10/29/24 14:15	10/30/24 16:19	1

Lab Sample ID: LB 500-801994/1-B
Matrix: Solid
Analysis Batch: 802391

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802156

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/08/25 14:28	01/09/25 14:22	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 14:22	1

Lab Sample ID: 500-255917-3 MS
Matrix: Solid
Analysis Batch: 802391

Client Sample ID: SB7 (0-3)
Prep Type: TCLP
Prep Batch: 802156

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	5.5	J	0.500	0.510	4	mg/L		-1003	75 - 125
Thallium	<0.00057		0.100	0.113		mg/L		113	75 - 125

Lab Sample ID: 500-255917-3 DU
Matrix: Solid
Analysis Batch: 802391

Client Sample ID: SB7 (0-3)
Prep Type: TCLP
Prep Batch: 802156

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	5.5	J	0.00494	J F3	mg/L		200	20
Thallium	<0.00057		<0.00057		mg/L		NC	20

Lab Sample ID: LB 500-802305/1-B
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802500

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 17:58	1

Lab Sample ID: 500-255917-13 MS
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: SB12 (0-3)
Prep Type: TCLP
Prep Batch: 802500

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	<0.00057		0.100	0.113		mg/L		113	75 - 125

Lab Sample ID: 500-255917-13 DU
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: SB12 (0-3)
Prep Type: TCLP
Prep Batch: 802500

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	<0.00057		<0.00057		mg/L		NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 240-633697/1-B
Matrix: Solid
Analysis Batch: 634046

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 633805

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.10		0.10		mg/L		11/04/24 14:00	11/05/24 14:44	1
Manganese	<0.0050		0.0050		mg/L		11/04/24 14:00	11/05/24 14:44	1
Nickel	<0.0020		0.0020		mg/L		11/04/24 14:00	11/05/24 14:44	1

Lab Sample ID: 500-255917-1 MS
Matrix: Solid
Analysis Batch: 634046

Client Sample ID: SB6 (0-3)
Prep Type: SPLP East
Prep Batch: 633805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	<0.10		5.00	5.11		mg/L		101	50 - 150
Manganese	0.0082		0.500	0.474		mg/L		93	50 - 150
Nickel	<0.0020		0.500	0.447		mg/L		89	50 - 150

Lab Sample ID: 500-255917-1 MSD
Matrix: Solid
Analysis Batch: 634046

Client Sample ID: SB6 (0-3)
Prep Type: SPLP East
Prep Batch: 633805

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	<0.10		5.00	4.99		mg/L		98	50 - 150	2	20
Manganese	0.0082		0.500	0.461		mg/L		91	50 - 150	3	20
Nickel	<0.0020		0.500	0.438		mg/L		88	50 - 150	2	20

Lab Sample ID: LB 500-793820/1-B
Matrix: Solid
Analysis Batch: 794479

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 794087

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060		mg/L		11/06/24 08:43	11/07/24 16:59	1
Iron	<0.10		0.10		mg/L		11/06/24 08:43	11/07/24 16:59	1
Lead	<0.00050		0.00050		mg/L		11/06/24 08:43	11/07/24 16:59	1
Manganese	<0.0025		0.0025		mg/L		11/06/24 08:43	11/07/24 16:59	1

Lab Sample ID: LB 500-801978/1-B
Matrix: Solid
Analysis Batch: 802391

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802170

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 16:03	1

Lab Sample ID: LB 500-802298/1-B
Matrix: Solid
Analysis Batch: 802739

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802497

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:49	01/13/25 16:33	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 240-630688/1-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630688

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 11:15	1

Lab Sample ID: MB 240-630688/2-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 11:17	1

Lab Sample ID: LCS 240-630688/3-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00482		mg/L		96	80 - 120

Lab Sample ID: 500-255917-1 MS
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: SB6 (0-3)
Prep Type: TCLP
Prep Batch: 630688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.0020	H	0.00500	0.00462		mg/L		92	80 - 120

Lab Sample ID: 500-255917-1 MSD
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: SB6 (0-3)
Prep Type: TCLP
Prep Batch: 630688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.0020	H	0.00500	0.00461		mg/L		92	80 - 120	0	20

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB6 (0-3)
Lab Sample ID: 500-255917-1
Date Collected: 08/29/24 09:47
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			633697	DRJ	EET CLE	11/03/24 15:50 - 11/04/24 08:20 [1]
SPLP East	Prep	3010A			633805	BN	EET CLE	11/04/24 14:00
SPLP East	Analysis	6020B		1	634046	AJC	EET CLE	11/05/24 14:52
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 12:10 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6020B		1	630986	AJC	EET CLE	10/15/24 19:09
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 12:10 [1]
TCLP	Prep	7470A			630688	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	7470A		1	630895	TQ6W	EET CLE	10/15/24 11:21

Client Sample ID: SB6 (3-5)
Lab Sample ID: 500-255917-2
Date Collected: 08/29/24 09:58
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 13:02
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6020B		1	794479	RN	EET CHI	11/07/24 17:10
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6020B		1	793227	RN	EET CHI	10/30/24 16:27

Client Sample ID: SB7 (0-3)
Lab Sample ID: 500-255917-3
Date Collected: 08/29/24 10:36
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 14:02
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		5	802392	RB	EET CHI	01/09/25 18:06
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 11:29
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 14:29

Client Sample ID: SB8 (0-3)
Lab Sample ID: 500-255917-5

Date Collected: 08/29/24 12:36
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 14:10
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 11:48
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 15:12

Client Sample ID: SB9 (0-3)
Lab Sample ID: 500-255917-7

Date Collected: 08/29/24 13:06
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 14:06
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 16:26

Client Sample ID: SB10 (0-3)
Lab Sample ID: 500-255917-9

Date Collected: 08/29/24 13:39
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 14:15
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		5	802392	RB	EET CHI	01/09/25 18:32
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 11:52

Client Sample ID: SB10 (5-7.5)
Lab Sample ID: 500-255917-10

Date Collected: 08/29/24 13:47
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 23:02

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB10 (5-7.5)
Lab Sample ID: 500-255917-10
Date Collected: 08/29/24 13:47
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802870	SJ	EET CHI	01/14/25 13:08
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		5	802392	RB	EET CHI	01/09/25 18:37
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 11:57
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 15:16

Client Sample ID: SB11 (0-3)
Lab Sample ID: 500-255917-11
Date Collected: 08/29/24 14:01
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 23:20
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802870	SJ	EET CHI	01/14/25 13:34
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		5	803990	SJ	EET CHI	01/23/25 12:41
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 12:01
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 15:20

Client Sample ID: SB11 (5-7.5)
Lab Sample ID: 500-255917-12
Date Collected: 08/29/24 14:15
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 23:24
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802920	RB	EET CHI	01/14/25 16:26

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB11 (5-7.5)
Lab Sample ID: 500-255917-12
Date Collected: 08/29/24 14:15
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802870	SJ	EET CHI	01/14/25 13:38
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6020B		1	802739	RN	EET CHI	01/13/25 16:38

Client Sample ID: SB12 (0-3)
Lab Sample ID: 500-255917-13
Date Collected: 08/29/24 09:23
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802870	SJ	EET CHI	01/14/25 13:42
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 15:58
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		5	802870	SJ	EET CHI	01/14/25 11:36
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 18:18

Client Sample ID: SB13 (0-3)
Lab Sample ID: 500-255917-15
Date Collected: 08/29/24 10:45
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			633697	DRJ	EET CLE	11/03/24 15:50 - 11/04/24 08:20 [1]
SPLP East	Prep	3010A			633805	BN	EET CLE	11/04/24 14:00
SPLP East	Analysis	6010D		1	634193	KLC	EET CLE	11/06/24 06:00
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 12:10 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/15/24 19:21
TCLP	Leach	1311			639989	KLE	EET CLE	12/26/24 15:05 - 12/27/24 08:15 [1]
TCLP	Prep	3010A			640066	BN	EET CLE	12/27/24 14:00
TCLP	Analysis	6020B		1	640345	AJC	EET CLE	12/30/24 21:07

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB13 (5-7.5)
Lab Sample ID: 500-255917-16
Date Collected: 08/29/24 10:54
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			639988	KLE	EET CLE	12/26/24 15:05 - 12/27/24 08:15 [1]
SPLP East	Prep	3010A			640065	BN	EET CLE	12/27/24 14:00
SPLP East	Analysis	6010D		1	640423	RKT	EET CLE	12/31/24 20:34
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 12:10 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6020B		1	630986	AJC	EET CLE	10/15/24 19:23
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 12:10 [1]
TCLP	Prep	7470A			630688	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	7470A		1	630895	TQ6W	EET CLE	10/15/24 11:29

Client Sample ID: SB14 (0-3)
Lab Sample ID: 500-255917-17
Date Collected: 08/29/24 12:09
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			639988	KLE	EET CLE	12/26/24 15:05 - 12/27/24 08:15 [1]
SPLP East	Prep	3010A			640065	BN	EET CLE	12/27/24 14:00
SPLP East	Analysis	6010D		1	640423	RKT	EET CLE	12/31/24 20:38
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6020B		1	630986	AJC	EET CLE	10/15/24 19:30
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	7470A			630688	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	7470A		1	630895	TQ6W	EET CLE	10/15/24 11:31

Client Sample ID: SB14 (10-12.5)
Lab Sample ID: 500-255917-18
Date Collected: 08/29/24 12:23
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802870	SJ	EET CHI	01/14/25 13:47
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 16:16
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		5	802870	SJ	EET CHI	01/14/25 11:54

Client Sample ID: SB15 (0-3)
Lab Sample ID: 500-255917-19

Date Collected: 08/29/24 13:35
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802870	SJ	EET CHI	01/14/25 13:51
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 16:21
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		5	802870	SJ	EET CHI	01/14/25 11:59
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 18:33

Client Sample ID: SB15 (7.5-10)
Lab Sample ID: 500-255917-20

Date Collected: 08/29/24 13:53
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 23:50
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802870	SJ	EET CHI	01/14/25 13:55
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 16:34
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		5	802870	SJ	EET CHI	01/14/25 12:04
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 18:37

Client Sample ID: SB16 (0-3)
Lab Sample ID: 500-255917-21

Date Collected: 08/29/24 15:03
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802870	SJ	EET CHI	01/14/25 14:00
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 16:39

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB16 (0-3)
Lab Sample ID: 500-255917-21
Date Collected: 08/29/24 15:03
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		5	802870	SJ	EET CHI	01/14/25 12:08
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 18:41

Client Sample ID: SB16 (3-5)
Lab Sample ID: 500-255917-22
Date Collected: 08/29/24 15:09
Matrix: Solid
Date Received: 08/30/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802870	SJ	EET CHI	01/14/25 14:04
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 16:43
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		5	802870	SJ	EET CHI	01/14/25 12:13
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 18:45

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-255917-2
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	100201	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-25
South Carolina	State	77001003	05-31-25
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-25
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24
Wisconsin	State	399167560	08-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain of Custody Record 719717

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager Jake Hartsock	Site Contact	Date	COC No 1
Company Name Pioneer	Tel/Email. jhartsock@pioneereesc.com	Lab Contact	Carrier:	1 of 2 COCs
Address 2743 W. 31st St.	Analysis Turnaround Time			Sampler
City/State/Zip Chicago, IL 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name 8080 S. Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO# 24-0124-103	☐ 1 day			500-255917

500-255917 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL, pH	Sample Specific Notes
1	SB6(0-3)	8/29/24	9:47am	G	S	4			X	
2	SB6(3 5)		9:58am						X	
3	SB7(0 3)		10:36am						X	
4	SB7(10-12.5)		10:42am						X	
5	SB8(0-3)		12:36pm						X	
6	SB8(5-7.5)		12:45pm						X	
7	SB9(0 3)		1:06pm						X	
8	SB9(7.5-10)		1:15pm						X	
9	SB10(0-3)		1:39pm						X	
10	SB10(5-7.5)		1:47pm						X	
11	SB11(0-3)		2:01pm						X	
12	SB11(5-7.5)		2:15pm						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.9+1.6 48qt.

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____		
Relinquished by: [signature]	Company: Pioneer	Date/Time: 8/30/24	Received by: [signature]	Company: EETA	Date/Time: 8/30/24 1030
Relinquished by: [signature]	Company: EETA 8/30/24	Date/Time: 1200	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by: Stephanie Hernandez	Company: EETA	Date/Time: 8/30/24 1200

Chain of Custody Record

670145

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No
Company Name PIONEER	Tel/Email:	Lab Contact:	Carrier:	2 of 2 COCs
Address SA pg 1	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name	☐ 1 week			
Site	☐ 2 days			Job / SDG No
P O #	☐ 1 day			500-255917

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL	TPH	Sample Specific Notes
13	SB12 (0-3)	8/29/24	923	G	SO	4			X		
14	SB12 (7.5-10)		930								
15	SB13 (0-3)		1045								
16	SB13 (5-7.5)		1054								
17	SB14 (0-3)		1209								
18	SB14 (10-12.5)		1229								
19	SB15 (0-3)		135								
20	SB15 (7.5-10)		153								
21	SB16 (0-3)		303								
22	SB16 (3-5)		309								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ | Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	8/30/24	Received by	EETA	8/30/24 1030
Relinquished by	EETA 8/30/24	Date/Time 1200	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by Stephanie Hernandez	Company EETA	Date/Time 8/30/24 1200

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-193726.1
Client Contact: Shipping/Receiving	Phone:	E-Mai: Jim Knapp@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP Illinois		Job #: 500-255917-2
Address: 180 S. Van Buren Avenue,	Due Date Requested: 10/17/2024			
City: Barberton	TAT Requested (days):			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes.

Other:

EOS4

Special Instructions/Note:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/1311T_M (MOD) TCLP RCRA Metals	7470A/1311T_Hg TCLP Mercury	6010D/1311T_M (MOD) a) 1 element, including prep	6020B/1311T_M TCLP RCRA Metals	Total Number of containers
			Preservation Code:								
SB6 (0-3) (500-255917 1)	8/29/24	09:47 Central	G	Solid			X	X			1
SB13 (0-3) (500-255917-15)	8/29/24	10:45 Central	G	Solid					X		1
SB13 (5-7.5) (500-255917 16)	8/29/24	10:54 Central	G	Solid				X		X	1
SB14 (0-3) (500-255917 17)	8/29/24	12:09 Central	G	Solid				X		X	1

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hernandez	10/21/24 1600		KATHARINE MARTIN	10/21/24 920 10/22/24	EUC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Eurofins - Chicago Site Name

Cooler unpacked by: ICM

Cooler Received on 10/12/24 Opened on 10/12/24

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☒ See Multiple Cooler Form

IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3 Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
7 Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9 For each sample, does the COC specify preservatives (Y/(N)), # of containers ((Y)/N), and sample type of grab/comp ((Y)/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11 Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	(Yes)	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC447997
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved. Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen

Login # : ____________

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: ______	2.7	3.0	Wet Ice (circled) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.4	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	2.0	2.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	3.2	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ORIGIN ID:JOTA (708) 534-5200
SHIPPING DEPT
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE 11OCT24
ACTWGT: 68.00 LB MAN
CAD: 0675858/CAFE3854

BILL SENDER

Part # 159469-434 MTW EXP 02/25

TO SAMPLE RECEIVING
EUROFINS—CANTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396
REF: 257701 255852 917 256054 095 166 275

FedEx Express

E

2 of 4
MPS# 7051 7621 1593
0263
Mstr# 7051 7621 1582
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CAKA

44203
OH-US CLE

RT 448 1 12:00
FZ 447 1593 10:12

Environment Testing America

492

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-255917-2

Login Number: 255917
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/13/2025 7:59:50 AM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256054-7

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/13/2025 7:59:50 AM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Certification Summary 42
Receipt Checklists 43

Job ID: 500-256054-2 — Eurofins Chicago

Job Narrative
500-256054-2

Receipt
The samples were received on 9/3/2024 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256054-3 — Eurofins Chicago

Job Narrative
500-256054-3

Revision
The report being provided is a revision of the original report sent on 10/30/2024. The report (revision 2) is being revised due to: Add TCLP Mn to SB21 (12.5-15) per client request.

Report revision history
Revision 1 - 1/17/2025 - Reason - Add SPLP Mn to SB18 (0-3) and TCLP Br to SB21 (12.5-15) per client request.

Receipt
The samples were received on 9/3/2024 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

Receipt Exceptions

TPH logged for sample SB21 (12.5-15) per client request.

Low level VOC vials placed in freezer on 8/30/24 at 17:07.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256054-4 — Eurofins Chicago

Job Narrative
500-256054-4

Receipt
The samples were received on 09/03/24 11:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256054-5 — Eurofins Chicago

Job Narrative
500-256054-5

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 2) is being revised due to: The report has been revised to includde other TCLP metals..

Report revision history
Revision 1 - 1/29/2025 - Reason - Add TCLP Mn to SB19 (0-3) and SB20 (3-5) per client request.

Receipt
The samples were received on 9/3/2024 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

Receipt Exceptions

TPH logged for sample SB21 (12.5-15) per client request.

Low level VOC vials placed in freezer on 8/30/24 at 17:07.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256054-7 — Eurofins Chicago

Job Narrative
500-256054-7

Receipt
The samples were received on 9/3/2024 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB17 (0-3) — Lab Sample ID: 500-256054-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3.6		0.20	0.20	mg/L	1		6010D	TCLP
Manganese	8.0		0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.010	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.090	J	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0014	J H	0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB18 (0-3) — Lab Sample ID: 500-256054-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.29		0.050		mg/L	1		6010D	TCLP
Manganese	0.056		0.015		mg/L	1		6010D	SPLP East
Cadmium	0.00011	J B	0.0010	0.000077	mg/L	1		6020B	TCLP
Chromium	0.033		0.0050	0.0012	mg/L	1		6020B	TCLP
Selenium	0.0013	J	0.0050	0.00089	mg/L	1		6020B	TCLP
Thallium	0.00055	J B	0.0020	0.00051	mg/L	1		6020B	TCLP

Client Sample ID: SB18 (7.5-10) — Lab Sample ID: 500-256054-4

No Detections.

Client Sample ID: SB19 (0-3) — Lab Sample ID: 500-256054-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3.3		0.20	0.20	mg/L	1		6010D	TCLP
Zinc	0.29		0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.63	B	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB19 (5-7.5) — Lab Sample ID: 500-256054-6

No Detections.

Client Sample ID: SB20 (0-3) — Lab Sample ID: 500-256054-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.016	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	1.0		0.20	0.20	mg/L	1		6010D	TCLP
Vanadium	0.040		0.025	0.010	mg/L	1		6010D	TCLP
Manganese	0.054	B	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB20 (3-5) — Lab Sample ID: 500-256054-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.56		0.20	0.20	mg/L	1		6010D	TCLP
Manganese	6.6		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.039	J	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	1.2	B	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB21 (0-3) — Lab Sample ID: 500-256054-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2.9		0.20	0.20	mg/L	1		6010D	TCLP
Vanadium	0.047		0.025	0.010	mg/L	1		6010D	TCLP
Manganese	1.1	B	0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21 (12.5-15) — Lab Sample ID: 500-256054-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	2.2		0.50		mg/L	1		6010D	TCLP
Manganese	9.3		0.025		mg/L	1		6010D	TCLP

Client Sample ID: SB22 (0-3) — Lab Sample ID: 500-256054-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.012	J	0.025	0.010	mg/L	1		6010D	TCLP

Client Sample ID: SB23 (0-3) — Lab Sample ID: 500-256054-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4.5		0.20	0.20	mg/L	1		6010D	SPLP East
Zinc	0.076	J	0.10	0.020	mg/L	1		6010D	SPLP East

Client Sample ID: SB23 (5-7.5) — Lab Sample ID: 500-256054-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0033	J	0.0050	0.0020	mg/L	1		6010D	TCLP
Iron	1.5		0.20	0.20	mg/L	1		6010D	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.40		0.10	0.020	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CLE
1312	SPLP Extraction	SW846	EET CHI
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256054-1	SB17 (0-3)	Solid	08/30/24 09:08	09/03/24 11:50
500-256054-3	SB18 (0-3)	Solid	08/30/24 10:04	09/03/24 11:50
500-256054-4	SB18 (7.5-10)	Solid	08/30/24 10:20	09/03/24 11:50
500-256054-5	SB19 (0-3)	Solid	08/30/24 11:08	09/03/24 11:50
500-256054-6	SB19 (5-7.5)	Solid	08/30/24 11:21	09/03/24 11:50
500-256054-7	SB20 (0-3)	Solid	08/30/24 12:09	09/03/24 11:50
500-256054-8	SB20 (3-5)	Solid	08/30/24 12:14	09/03/24 11:50
500-256054-9	SB21 (0-3)	Solid	08/30/24 13:00	09/03/24 11:50
500-256054-10	SB21 (12.5-15)	Solid	08/30/24 13:29	09/03/24 11:50
500-256054-11	SB22 (0-3)	Solid	08/30/24 14:04	09/03/24 11:50
500-256054-13	SB23 (0-3)	Solid	08/30/24 15:09	09/03/24 11:50
500-256054-14	SB23 (5-7.5)	Solid	08/30/24 15:17	09/03/24 11:50

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB17 (0-3)
Lab Sample ID: 500-256054-1

Date Collected: 08/30/24 09:08
Matrix: Solid
Date Received: 09/03/24 11:50

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 16:48	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 16:48	1
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:48	1
Iron	**3.6**		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 16:48	1
Lead	<0.038		0.038	0.038	mg/L		01/10/25 14:52	01/14/25 12:17	5
Manganese	**8.0**		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:48	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 16:48	1
Vanadium	**0.010**	**J**	0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:48	1
Zinc	**0.090**	**J**	0.10	0.020	mg/L		01/10/25 14:52	01/13/25 16:48	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.22**		0.025	0.010	mg/L		01/10/25 14:49	01/14/25 14:17	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0014**	**J H**	0.0060	0.0013	mg/L		01/10/25 14:52	01/13/25 18:48	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 18:48	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		03/03/25 08:26	03/05/25 14:50	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB18 (0-3)
Lab Sample ID: 500-256054-3
Date Collected: 08/30/24 10:04
Matrix: Solid
Date Received: 09/03/24 11:50

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	**0.29**		0.050		mg/L		10/14/24 14:00	10/15/24 19:47	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.056**		0.015		mg/L		10/25/24 14:00	10/29/24 06:56	1
Vanadium	<0.050		0.050		mg/L		10/25/24 14:00	10/29/24 06:56	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 14:57	1
Cadmium	**0.00011**	**J B**	0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 14:57	1
Chromium	**0.033**		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:57	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:57	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 14:57	1
Selenium	**0.0013**	**J**	0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:57	1
Thallium	**0.00055**	**J B**	0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:57	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB18 (7.5-10)
Lab Sample ID: 500-256054-4
Date Collected: 08/30/24 10:20
Matrix: Solid
Date Received: 09/03/24 11:50

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/10/25 14:51	01/13/25 15:45	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:51	01/13/25 15:45	1
Zinc	<0.020		0.10	0.020	mg/L		01/10/25 14:51	01/13/25 15:45	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:51	01/13/25 19:58	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB19 (0-3)
Lab Sample ID: 500-256054-5

Date Collected: 08/30/24 11:08
Matrix: Solid
Date Received: 09/03/24 11:50

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.3**		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 16:53	1
Lead	<0.038		0.038	0.038	mg/L		01/10/25 14:52	01/14/25 12:31	5
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 16:53	1
Vanadium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:53	1
Zinc	**0.29**		0.10	0.020	mg/L		01/10/25 14:52	01/13/25 16:53	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.63**	**B**	0.025	0.010	mg/L		01/10/25 14:51	01/13/25 16:03	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 18:52	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB19 (5-7.5)
Lab Sample ID: 500-256054-6
Date Collected: 08/30/24 11:21
Matrix: Solid
Date Received: 09/03/24 11:50

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:51	01/13/25 16:08	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:51	01/13/25 20:13	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB20 (0-3)
Lab Sample ID: 500-256054-7
Date Collected: 08/30/24 12:09
Matrix: Solid
Date Received: 09/03/24 11:50

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 16:57	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 16:57	1
Chromium	**0.016**	**J**	0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:57	1
Iron	**1.0**		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 16:57	1
Lead	<0.038		0.038	0.038	mg/L		01/10/25 14:52	01/14/25 12:35	5
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 16:57	1
Vanadium	**0.040**		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 16:57	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.054**	**B**	0.025	0.010	mg/L		01/10/25 14:51	01/13/25 16:21	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 19:08	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB20 (3-5)
Lab Sample ID: 500-256054-8

Date Collected: 08/30/24 12:14
Matrix: Solid
Date Received: 09/03/24 11:50

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 17:02	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 17:02	1
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 17:02	1
Copper	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 17:02	1
Iron	**0.56**		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 17:02	1
Manganese	**6.6**		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 17:02	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 17:02	1
Zinc	**0.039**	**J**	0.10	0.020	mg/L		01/10/25 14:52	01/13/25 17:02	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.2**	**B**	0.025	0.010	mg/L		01/10/25 14:51	01/13/25 16:25	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 19:12	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21 (0-3)
Lab Sample ID: 500-256054-9

Date Collected: 08/30/24 13:00
Matrix: Solid
Date Received: 09/03/24 11:50

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 17:06	1
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 17:06	1
Iron	**2.9**		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 17:06	1
Lead	<0.038		0.038	0.038	mg/L		01/10/25 14:52	01/14/25 12:44	5
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 17:06	1
Vanadium	**0.047**		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 17:06	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.1**	**B**	0.025	0.010	mg/L		01/10/25 14:51	01/13/25 16:29	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 19:15	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB21 (12.5-15)
Lab Sample ID: 500-256054-10
Date Collected: 08/30/24 13:29
Matrix: Solid
Date Received: 09/03/24 11:50

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**2.2**		0.50		mg/L		10/29/24 14:58	10/30/24 13:08	1
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:58	10/30/24 13:08	1
Manganese	**9.3**		0.025		mg/L		10/29/24 14:58	10/30/24 13:08	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50		mg/L		11/06/24 08:43	11/07/24 00:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB22 (0-3)
Lab Sample ID: 500-256054-11
Date Collected: 08/30/24 14:04
Matrix: Solid
Date Received: 09/03/24 11:50

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/25 07:52	03/07/25 19:17	1
Silver	**0.012**	**J**	0.025	0.010	mg/L		03/05/25 07:52	03/07/25 19:17	1
Selenium	<0.020		0.050	0.020	mg/L		03/05/25 07:52	03/07/25 19:17	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB23 (0-3)
Lab Sample ID: 500-256054-13

Date Collected: 08/30/24 15:09
Matrix: Solid
Date Received: 09/03/24 11:50

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4.5**		0.20	0.20	mg/L		01/10/25 14:51	01/14/25 11:13	1
Zinc	**0.076**	**J**	0.10	0.020	mg/L		01/10/25 14:51	01/13/25 16:34	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:51	01/13/25 20:17	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB23 (5-7.5)
Lab Sample ID: 500-256054-14

Date Collected: 08/30/24 15:17
Matrix: Solid
Date Received: 09/03/24 11:50

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 17:11	1
Cadmium	**0.0033**	**J**	0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 17:11	1
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 17:11	1
Copper	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 17:11	1
Iron	**1.5**		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 17:11	1
Lead	<0.038		0.038	0.038	mg/L		01/10/25 14:52	01/14/25 12:49	5
Nickel	**0.012**	**J**	0.025	0.010	mg/L		01/10/25 14:52	01/13/25 17:11	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 17:11	1
Silver	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 17:11	1
Zinc	**0.40**		0.10	0.020	mg/L		01/10/25 14:52	01/13/25 17:11	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 19:19	1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 630581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-3	SB18 (0-3)	TCLP	Solid	1311	
LB 240-630581/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 630682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-3	SB18 (0-3)	TCLP	Solid	3010A	630581
LB 240-630581/1-B	Method Blank	TCLP	Solid	3010A	630581
MB 240-630682/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630682/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 630918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-3	SB18 (0-3)	TCLP	Solid	6010D	630682
LB 240-630581/1-B	Method Blank	TCLP	Solid	6010D	630682
MB 240-630682/2-A	Method Blank	Total/NA	Solid	6010D	630682
LCS 240-630682/3-A	Lab Control Sample	Total/NA	Solid	6010D	630682

Leach Batch: 632368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-3	SB18 (0-3)	SPLP East	Solid	1312	
LB 240-632368/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 632464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-3	SB18 (0-3)	SPLP East	Solid	3010A	632368
LB 240-632368/1-B	Method Blank	SPLP East	Solid	3010A	632368
MB 240-632464/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-632464/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 632866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-3	SB18 (0-3)	SPLP East	Solid	6010D	632464
LB 240-632368/1-B	Method Blank	SPLP East	Solid	6010D	632464
MB 240-632464/2-A	Method Blank	Total/NA	Solid	6010D	632464
LCS 240-632464/3-A	Lab Control Sample	Total/NA	Solid	6010D	632464

Leach Batch: 640346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-3	SB18 (0-3)	TCLP	Solid	1311	
LB 240-640346/1-B	Method Blank	TCLP	Solid	1311	
500-256054-3 MS	SB18 (0-3)	TCLP	Solid	1311	
500-256054-3 MSD	SB18 (0-3)	TCLP	Solid	1311	

Prep Batch: 640405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-3	SB18 (0-3)	TCLP	Solid	3010A	640346
LB 240-640346/1-B	Method Blank	TCLP	Solid	3010A	640346
MB 240-640405/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640405/4-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256054-3 MS	SB18 (0-3)	TCLP	Solid	3010A	640346
500-256054-3 MSD	SB18 (0-3)	TCLP	Solid	3010A	640346

Metals

Analysis Batch: 640570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-3	SB18 (0-3)	TCLP	Solid	6020B	640405
LB 240-640346/1-B	Method Blank	TCLP	Solid	6020B	640405
MB 240-640405/2-A	Method Blank	Total/NA	Solid	6020B	640405
LCS 240-640405/4-A	Lab Control Sample	Total/NA	Solid	6020B	640405
500-256054-3 MS	SB18 (0-3)	TCLP	Solid	6020B	640405
500-256054-3 MSD	SB18 (0-3)	TCLP	Solid	6020B	640405

Leach Batch: 792631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-10	SB21 (12.5-15)	TCLP	Solid	1311	
LB 500-792631/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 792940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-10	SB21 (12.5-15)	TCLP	Solid	3010A	792631
LB 500-792631/1-B	Method Blank	TCLP	Solid	3010A	792631
LCS 500-792940/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 793148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-10	SB21 (12.5-15)	TCLP	Solid	6010D	792940
LB 500-792631/1-B	Method Blank	TCLP	Solid	6010D	792940
LCS 500-792940/2-A	Lab Control Sample	Total/NA	Solid	6010D	792940

Leach Batch: 793820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-10	SB21 (12.5-15)	SPLP East	Solid	1312	
LB 500-793820/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 794087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-10	SB21 (12.5-15)	SPLP East	Solid	3010A	793820
LB 500-793820/1-B	Method Blank	SPLP East	Solid	3010A	793820
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 794312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-10	SB21 (12.5-15)	SPLP East	Solid	6010D	794087
LB 500-793820/1-B	Method Blank	SPLP East	Solid	6010D	794087
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	6010D	794087

Leach Batch: 802298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	SPLP East	Solid	1312	
LB 500-802298/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 802305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	TCLP	Solid	1311	
500-256054-5	SB19 (0-3)	TCLP	Solid	1311	
500-256054-7	SB20 (0-3)	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 802305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-8	SB20 (3-5)	TCLP	Solid	1311	
500-256054-9	SB21 (0-3)	TCLP	Solid	1311	
500-256054-14	SB23 (5-7.5)	TCLP	Solid	1311	
LB 500-802305/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 802316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-4	SB18 (7.5-10)	SPLP East	Solid	1312	
500-256054-5	SB19 (0-3)	SPLP East	Solid	1312	
500-256054-6	SB19 (5-7.5)	SPLP East	Solid	1312	
500-256054-7	SB20 (0-3)	SPLP East	Solid	1312	
500-256054-8	SB20 (3-5)	SPLP East	Solid	1312	
500-256054-9	SB21 (0-3)	SPLP East	Solid	1312	
500-256054-13	SB23 (0-3)	SPLP East	Solid	1312	
LB 500-802316/1-B	Method Blank	SPLP East	Solid	1312	
500-256054-4 MS	SB18 (7.5-10)	SPLP East	Solid	1312	
500-256054-4 DU	SB18 (7.5-10)	SPLP East	Solid	1312	

Prep Batch: 802497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	SPLP East	Solid	3010A	802298
LB 500-802298/1-B	Method Blank	SPLP East	Solid	3010A	802298
LCS 500-802497/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 802498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-4	SB18 (7.5-10)	SPLP East	Solid	3010A	802316
500-256054-5	SB19 (0-3)	SPLP East	Solid	3010A	802316
500-256054-6	SB19 (5-7.5)	SPLP East	Solid	3010A	802316
500-256054-7	SB20 (0-3)	SPLP East	Solid	3010A	802316
500-256054-8	SB20 (3-5)	SPLP East	Solid	3010A	802316
500-256054-9	SB21 (0-3)	SPLP East	Solid	3010A	802316
500-256054-13	SB23 (0-3)	SPLP East	Solid	3010A	802316
LB 500-802316/1-B	Method Blank	SPLP East	Solid	3010A	802316
LCS 500-802498/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256054-4 MS	SB18 (7.5-10)	SPLP East	Solid	3010A	802316
500-256054-4 DU	SB18 (7.5-10)	SPLP East	Solid	3010A	802316

Prep Batch: 802500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	TCLP	Solid	3010A	802305
500-256054-5	SB19 (0-3)	TCLP	Solid	3010A	802305
500-256054-7	SB20 (0-3)	TCLP	Solid	3010A	802305
500-256054-8	SB20 (3-5)	TCLP	Solid	3010A	802305
500-256054-9	SB21 (0-3)	TCLP	Solid	3010A	802305
500-256054-14	SB23 (5-7.5)	TCLP	Solid	3010A	802305
LB 500-802305/1-B	Method Blank	TCLP	Solid	3010A	802305
LCS 500-802500/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals

Analysis Batch: 802745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	TCLP	Solid	6020B	802500
500-256054-4	SB18 (7.5-10)	SPLP East	Solid	6020B	802498
500-256054-5	SB19 (0-3)	TCLP	Solid	6020B	802500
500-256054-6	SB19 (5-7.5)	SPLP East	Solid	6020B	802498
500-256054-7	SB20 (0-3)	TCLP	Solid	6020B	802500
500-256054-8	SB20 (3-5)	TCLP	Solid	6020B	802500
500-256054-9	SB21 (0-3)	TCLP	Solid	6020B	802500
500-256054-13	SB23 (0-3)	SPLP East	Solid	6020B	802498
500-256054-14	SB23 (5-7.5)	TCLP	Solid	6020B	802500
LB 500-802305/1-B	Method Blank	TCLP	Solid	6020B	802500
LB 500-802316/1-B	Method Blank	SPLP East	Solid	6020B	802498
LCS 500-802498/2-A	Lab Control Sample	Total/NA	Solid	6020B	802498
LCS 500-802500/2-A	Lab Control Sample	Total/NA	Solid	6020B	802500
500-256054-4 MS	SB18 (7.5-10)	SPLP East	Solid	6020B	802498
500-256054-4 DU	SB18 (7.5-10)	SPLP East	Solid	6020B	802498

Analysis Batch: 802752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-4	SB18 (7.5-10)	SPLP East	Solid	6010D	802498
500-256054-5	SB19 (0-3)	SPLP East	Solid	6010D	802498
500-256054-6	SB19 (5-7.5)	SPLP East	Solid	6010D	802498
500-256054-7	SB20 (0-3)	SPLP East	Solid	6010D	802498
500-256054-8	SB20 (3-5)	SPLP East	Solid	6010D	802498
500-256054-9	SB21 (0-3)	SPLP East	Solid	6010D	802498
500-256054-13	SB23 (0-3)	SPLP East	Solid	6010D	802498
LB 500-802316/1-B	Method Blank	SPLP East	Solid	6010D	802498
LCS 500-802498/2-A	Lab Control Sample	Total/NA	Solid	6010D	802498
500-256054-4 MS	SB18 (7.5-10)	SPLP East	Solid	6010D	802498
500-256054-4 DU	SB18 (7.5-10)	SPLP East	Solid	6010D	802498

Analysis Batch: 802753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	TCLP	Solid	6010D	802500
500-256054-5	SB19 (0-3)	TCLP	Solid	6010D	802500
500-256054-7	SB20 (0-3)	TCLP	Solid	6010D	802500
500-256054-8	SB20 (3-5)	TCLP	Solid	6010D	802500
500-256054-9	SB21 (0-3)	TCLP	Solid	6010D	802500
500-256054-14	SB23 (5-7.5)	TCLP	Solid	6010D	802500
LB 500-802305/1-B	Method Blank	TCLP	Solid	6010D	802500
LCS 500-802500/2-A	Lab Control Sample	Total/NA	Solid	6010D	802500

Analysis Batch: 802754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-802298/1-B	Method Blank	SPLP East	Solid	6010D	802497

Analysis Batch: 802866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-13	SB23 (0-3)	SPLP East	Solid	6010D	802498

Metals

Analysis Batch: 802870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	SPLP East	Solid	6010D	802497
500-256054-1	SB17 (0-3)	TCLP	Solid	6010D	802500
500-256054-5	SB19 (0-3)	TCLP	Solid	6010D	802500
500-256054-7	SB20 (0-3)	TCLP	Solid	6010D	802500
500-256054-9	SB21 (0-3)	TCLP	Solid	6010D	802500
500-256054-14	SB23 (5-7.5)	TCLP	Solid	6010D	802500
LB 500-802298/1-B	Method Blank	SPLP East	Solid	6010D	802497
LCS 500-802497/2-A	Lab Control Sample	Total/NA	Solid	6010D	802497

Leach Batch: 808157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	SPLP East	Solid	1312	
LB 500-808157/1-B	Method Blank	SPLP East	Solid	1312	
500-256054-1 MS	SB17 (0-3)	SPLP East	Solid	1312	
500-256054-1 DU	SB17 (0-3)	SPLP East	Solid	1312	

Prep Batch: 808302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	SPLP East	Solid	3010A	808157
LB 500-808157/1-B	Method Blank	SPLP East	Solid	3010A	808157
LCS 500-808302/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256054-1 MS	SB17 (0-3)	SPLP East	Solid	3010A	808157
500-256054-1 DU	SB17 (0-3)	SPLP East	Solid	3010A	808157

Leach Batch: 808319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-11	SB22 (0-3)	TCLP	Solid	1311	
LB 500-808319/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 808617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-11	SB22 (0-3)	TCLP	Solid	3010A	808319
LB 500-808319/1-B	Method Blank	TCLP	Solid	3010A	808319
LCS 500-808617/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 808757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-1	SB17 (0-3)	SPLP East	Solid	6020B	808302
LB 500-808157/1-B	Method Blank	SPLP East	Solid	6020B	808302
LCS 500-808302/2-A	Lab Control Sample	Total/NA	Solid	6020B	808302
500-256054-1 MS	SB17 (0-3)	SPLP East	Solid	6020B	808302
500-256054-1 DU	SB17 (0-3)	SPLP East	Solid	6020B	808302

Analysis Batch: 809243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256054-11	SB22 (0-3)	TCLP	Solid	6010D	808617
LB 500-808319/1-B	Method Blank	TCLP	Solid	6010D	808617
LCS 500-808617/2-A	Lab Control Sample	Total/NA	Solid	6010D	808617

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 19:04	1

Lab Sample ID: LCS 240-630682/3-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	1.00	0.948		mg/L		95	50 - 150

Lab Sample ID: MB 240-632464/2-A
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.015		0.015		mg/L		10/25/24 14:00	10/29/24 06:18	1
Vanadium	<0.050		0.050		mg/L		10/25/24 14:00	10/29/24 06:18	1

Lab Sample ID: LCS 240-632464/3-A
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1.00	0.923		mg/L		92	50 - 150
Vanadium	1.00	0.933		mg/L		93	50 - 150

Lab Sample ID: LCS 500-792940/2-A
Matrix: Solid
Analysis Batch: 793148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.503		mg/L		101	80 - 120
Beryllium	0.0500	0.0490		mg/L		98	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120

Lab Sample ID: LCS 500-794087/2-A
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 794087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.522		mg/L		104	80 - 120

Lab Sample ID: LCS 500-802497/2-A
Matrix: Solid
Analysis Batch: 802870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.436		mg/L		87	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-802498/2-A
Matrix: Solid
Analysis Batch: 802752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.909		mg/L		91	80 - 120
Selenium	0.100	0.0942		mg/L		94	80 - 120
Zinc	0.500	0.508		mg/L		102	80 - 120
Manganese	0.500	0.404		mg/L		81	80 - 120

Lab Sample ID: LCS 500-802500/2-A
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0501		mg/L		100	80 - 120
Cadmium	0.0500	0.0500		mg/L		100	80 - 120
Chromium	0.200	0.212		mg/L		106	80 - 120
Copper	0.250	0.242		mg/L		97	80 - 120
Iron	1.00	0.921		mg/L		92	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Nickel	0.500	0.540		mg/L		108	80 - 120
Vanadium	0.500	0.513		mg/L		103	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0489		mg/L		98	80 - 120
Zinc	0.500	0.558		mg/L		112	80 - 120
Manganese	0.500	0.489		mg/L		98	80 - 120

Lab Sample ID: LCS 500-808617/2-A
Matrix: Solid
Analysis Batch: 809243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 808617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Silver	0.0500	0.0501		mg/L		100	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 19:00	1

Lab Sample ID: LB 500-792631/1-B
Matrix: Solid
Analysis Batch: 793148

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792940

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50		mg/L		10/29/24 14:58	10/30/24 11:37	1
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:58	10/30/24 11:37	1
Manganese	<0.025		0.025		mg/L		10/29/24 14:58	10/30/24 11:37	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802305/1-B
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802500

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 15:49	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 15:49	1
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Copper	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Iron	<0.20		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 15:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/10/25 14:52	01/13/25 15:49	1
Nickel	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Vanadium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 15:49	1
Silver	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Zinc	<0.020		0.10	0.020	mg/L		01/10/25 14:52	01/13/25 15:49	1
Manganese	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1

Lab Sample ID: LB 500-808319/1-B
Matrix: Solid
Analysis Batch: 809243

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 808617

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/25 07:52	03/07/25 18:37	1
Silver	<0.010		0.025	0.010	mg/L		03/05/25 07:52	03/07/25 18:37	1
Selenium	<0.020		0.050	0.020	mg/L		03/05/25 07:52	03/07/25 18:37	1

Lab Sample ID: LB 240-632368/1-B
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 632464

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.015		0.015		mg/L		10/25/24 14:00	10/29/24 06:13	1
Vanadium	<0.050		0.050		mg/L		10/25/24 14:00	10/29/24 06:13	1

Lab Sample ID: LB 500-793820/1-B
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 794087

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50		mg/L		11/06/24 08:43	11/06/24 23:27	1

Lab Sample ID: LB 500-802298/1-B
Matrix: Solid
Analysis Batch: 802754

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802497

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.468		0.025	0.010	mg/L		01/10/25 14:49	01/13/25 22:53	1

Lab Sample ID: LB 500-802298/1-B
Matrix: Solid
Analysis Batch: 802870

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802497

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/10/25 14:49	01/14/25 12:59	1

Method: 6010D - Metals (ICP)

Lab Sample ID: LB 500-802316/1-B
Matrix: Solid
Analysis Batch: 802752

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802498

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/10/25 14:51	01/13/25 15:28	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:51	01/13/25 15:28	1
Zinc	<0.020		0.10	0.020	mg/L		01/10/25 14:51	01/13/25 15:28	1
Manganese	0.0118	J	0.025	0.010	mg/L		01/10/25 14:51	01/13/25 15:28	1

Lab Sample ID: 500-256054-4 MS
Matrix: Solid
Analysis Batch: 802752

Client Sample ID: SB18 (7.5-10)
Prep Type: SPLP East
Prep Batch: 802498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	<0.20		1.00	1.01		mg/L		101	75 - 125
Selenium	<0.020		0.100	0.103		mg/L		103	75 - 125
Zinc	<0.020		0.500	0.551		mg/L		110	75 - 125
Manganese	<0.010		0.500	0.447		mg/L		89	75 - 125

Lab Sample ID: 500-256054-4 DU
Matrix: Solid
Analysis Batch: 802752

Client Sample ID: SB18 (7.5-10)
Prep Type: SPLP East
Prep Batch: 802498

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	<0.20		<0.20		mg/L		NC	20
Selenium	<0.020		<0.020		mg/L		NC	20
Zinc	<0.020		<0.020		mg/L		NC	20
Manganese	<0.010		<0.010		mg/L		NC	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-640405/2-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 14:51	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 14:51	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:51	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:51	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 14:51	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:51	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:51	1

Lab Sample ID: LCS 240-640405/4-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.500	0.490		mg/L		98	80 - 120
Cadmium	0.500	0.457		mg/L		91	80 - 120
Chromium	0.500	0.484		mg/L		97	80 - 120
Iron	5.00	4.99		mg/L		100	80 - 120
Lead	0.500	0.536		mg/L		107	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-640405/4-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	1.00	0.956		mg/L		96	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120

Lab Sample ID: LCS 500-802498/2-A
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LCS 500-802500/2-A
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.574		mg/L		115	80 - 120
Thallium	0.100	0.111		mg/L		111	80 - 120

Lab Sample ID: LCS 500-808302/2-A
Matrix: Solid
Analysis Batch: 808757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 808302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.511		mg/L		102	80 - 120

Lab Sample ID: LB 240-640346/1-B
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 640405

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 14:43	1
Cadmium	0.000168	J	0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 14:43	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:43	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:43	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 14:43	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:43	1
Thallium	0.000670	J	0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:43	1

Lab Sample ID: 500-256054-3 MS
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: SB18 (0-3)
Prep Type: TCLP
Prep Batch: 640405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.00027		0.500	0.478		mg/L		96	50 - 150
Cadmium	0.00011	J B	0.500	0.436		mg/L		87	50 - 150
Chromium	0.033		0.500	0.496		mg/L		93	50 - 150
Iron	<0.047		5.00	4.84		mg/L		97	50 - 150
Lead	<0.00045		0.500	0.517		mg/L		103	50 - 150
Selenium	0.0013	J	1.00	0.912		mg/L		91	50 - 150
Thallium	0.00055	J B	1.00	1.03		mg/L		103	50 - 150

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 500-256054-3 MSD
Client Sample ID: SB18 (0-3)
Matrix: Solid
Prep Type: TCLP
Analysis Batch: 640570
Prep Batch: 640405

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.00027		0.500	0.486		mg/L		97	50 - 150	2	20
Cadmium	0.00011	J B	0.500	0.441		mg/L		88	50 - 150	1	20
Chromium	0.033		0.500	0.511		mg/L		96	50 - 150	3	20
Iron	<0.047		5.00	4.99		mg/L		100	50 - 150	3	20
Lead	<0.00045		0.500	0.526		mg/L		105	50 - 150	2	20
Selenium	0.0013	J	1.00	0.928		mg/L		93	50 - 150	2	20
Thallium	0.00055	J B	1.00	1.05		mg/L		105	50 - 150	2	20

Lab Sample ID: LB 500-802305/1-B
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: TCLP
Analysis Batch: 802745
Prep Batch: 802500

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/10/25 14:52	01/13/25 17:58	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 17:58	1

Lab Sample ID: LB 500-802316/1-B
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: SPLP East
Analysis Batch: 802745
Prep Batch: 802498

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:51	01/13/25 19:39	1

Lab Sample ID: 500-256054-4 MS
Client Sample ID: SB18 (7.5-10)
Matrix: Solid
Prep Type: SPLP East
Analysis Batch: 802745
Prep Batch: 802498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	<0.00057		0.100	0.108		mg/L		108	75 - 125

Lab Sample ID: 500-256054-4 DU
Client Sample ID: SB18 (7.5-10)
Matrix: Solid
Prep Type: SPLP East
Analysis Batch: 802745
Prep Batch: 802498

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	<0.00057		<0.00057		mg/L		NC	20

Lab Sample ID: LB 500-808157/1-B
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: SPLP East
Analysis Batch: 808757
Prep Batch: 808302

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		03/03/25 08:26	03/05/25 14:45	1

Lab Sample ID: 500-256054-1 MS
Client Sample ID: SB17 (0-3)
Matrix: Solid
Prep Type: SPLP East
Analysis Batch: 808757
Prep Batch: 808302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0013		0.500	0.484		mg/L		97	75 - 125

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256054-7

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 500-256054-1 DU
Matrix: Solid
Analysis Batch: 808757

Client Sample ID: SB17 (0-3)
Prep Type: SPLP East
Prep Batch: 808302

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	<0.0013			<0.0013		mg/L				NC	20

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB17 (0-3)
Lab Sample ID: 500-256054-1
Date Collected: 08/30/24 09:08
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802298	PA	EET CHI	01/09/25 12:20 - 01/10/25 06:20 [1]
SPLP East	Prep	3010A			802497	S1Z	EET CHI	01/10/25 14:49 - 01/10/25 20:49 [1]
SPLP East	Analysis	6010D		1	802870	SJ	EET CHI	01/14/25 14:17
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 16:48
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		5	802870	SJ	EET CHI	01/14/25 12:17
SPLP East	Leach	1312			808157	JL	EET CHI	02/28/25 17:17 - 03/01/25 11:17 [1]
SPLP East	Prep	3010A			808302	BDE	EET CHI	03/03/25 08:26 - 03/03/25 14:26 [1]
SPLP East	Analysis	6020B		1	808757	RN	EET CHI	03/05/25 14:50
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 18:48

Client Sample ID: SB18 (0-3)
Lab Sample ID: 500-256054-3
Date Collected: 08/30/24 10:04
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			632368	DRJ	EET CLE	10/24/24 17:10 - 10/25/24 09:25 [1]
SPLP East	Prep	3010A			632464	BN	EET CLE	10/25/24 14:00
SPLP East	Analysis	6010D		1	632866	RKT	EET CLE	10/29/24 06:56
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/15/24 19:47
TCLP	Leach	1311			640346	KLE	EET CLE	12/30/24 15:30 - 12/31/24 09:05 [1]
TCLP	Prep	3010A			640405	MN7X	EET CLE	12/31/24 14:00
TCLP	Analysis	6020B		1	640570	AJC	EET CLE	01/02/25 14:57

Client Sample ID: SB18 (7.5-10)
Lab Sample ID: 500-256054-4
Date Collected: 08/30/24 10:20
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 15:45
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 19:58

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256054-7

Client Sample ID: SB19 (0-3)

Date Collected: 08/30/24 11:08
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 16:03
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 16:53
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		5	802870	SJ	EET CHI	01/14/25 12:31
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 18:52

Client Sample ID: SB19 (5-7.5)

Date Collected: 08/30/24 11:21
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 16:08
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 20:13

Client Sample ID: SB20 (0-3)

Date Collected: 08/30/24 12:09
Date Received: 09/03/24 11:50

Lab Sample ID: 500-256054-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 16:21
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 16:57
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		5	802870	SJ	EET CHI	01/14/25 12:35
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 19:08

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB20 (3-5)
Lab Sample ID: 500-256054-8
Date Collected: 08/30/24 12:14
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 16:25
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 17:02
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 19:12

Client Sample ID: SB21 (0-3)
Lab Sample ID: 500-256054-9
Date Collected: 08/30/24 13:00
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 16:29
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 17:06
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		5	802870	SJ	EET CHI	01/14/25 12:44
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 19:15

Client Sample ID: SB21 (12.5-15)
Lab Sample ID: 500-256054-10
Date Collected: 08/30/24 13:29
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6010D		1	794312	SJ	EET CHI	11/07/24 00:29
TCLP	Leach	1311			792631	RJ	EET CHI	10/28/24 13:30 - 10/29/24 07:30 [1]
TCLP	Prep	3010A			792940	S1Z	EET CHI	10/29/24 14:58 - 10/29/24 15:58 [1]
TCLP	Analysis	6010D		1	793148	SJ	EET CHI	10/30/24 13:08

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB22 (0-3)
Lab Sample ID: 500-256054-11
Date Collected: 08/30/24 14:04
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			808319	TJ	EET CHI	03/03/25 13:27 - 03/04/25 07:27 [1]
TCLP	Prep	3010A			808617	BDE	EET CHI	03/05/25 07:52 - 03/05/25 13:52 [1]
TCLP	Analysis	6010D		1	809243	RB	EET CHI	03/07/25 19:17

Client Sample ID: SB23 (0-3)
Lab Sample ID: 500-256054-13
Date Collected: 08/30/24 15:09
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 11:13
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 16:34
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 20:17

Client Sample ID: SB23 (5-7.5)
Lab Sample ID: 500-256054-14
Date Collected: 08/30/24 15:17
Matrix: Solid
Date Received: 09/03/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 17:11
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		5	802870	SJ	EET CHI	01/14/25 12:49
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 19:19

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256054-7
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24
Wisconsin	State	399167560	08-31-25

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256054-7

Login Number: 256054
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/14/2025 4:50:24 PM

JOB DESCRIPTION

8080 S Lakeshore Dr (24-0124-103)

JOB NUMBER

500-256095-11

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
4/14/2025 4:50:24 PM

Authorized for release by
Jim Knapp, Senior Project Manager
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(630)758-0262

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Job ID: 500-256095-10 — Eurofins Chicago

Job Narrative
500-256095-10

Receipt
The samples were received on 9/4/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256095-11 — Eurofins Chicago

Job Narrative
500-256095-11

Receipt
The samples were received on 9/4/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
Method 6020B: The method blank for preparation batch 500-812104 and 500-812419 and analytical batch 500-812676 contained Manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-256095-2 — Eurofins Chicago

Job Narrative
500-256095-2

Revision
The report being provided is a revision of the original report sent on 10/17/2024. The report (revision 1) is being revised due to: Add TCLP Sb, Be, Cu, Fe to SB26 (0-3) per client request.

Receipt
The samples were received on 9/4/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
Method 7470A: The following sample(s) was prepared outside of preparation holding time due to mercury being requested after hold time had expired. SB26 (0-3) (500-256095-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 1311: The following sample was prepared outside of preparation holding time due to the analysis being requested after the holding time had elapsed: SB26 (0-3) (500-256095-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-256095-3 — Eurofins Chicago

Job Narrative
500-256095-3

Revision
The report being provided is a revision of the original report sent on 10/31/2024. The report (revision 6) is being revised due to:
Add TCLP Mn to SB28 (0-3) per client request.

Report revision history
Revision 1 - 11/13/2024 - Reason - THe report and EDD have been revised to report sample SB24 (7.5-10) in a separate report per client request..

Revision 2 - 11/13/2024 - Reason - THe report and EDD have been revise to report sample SB24 (7.5-10) separately..

Revision 3 - 11/21/2024 - Reason - The report and EDD have been revised to include TCLP lead for sample SB4(0-3)..

Revision 4 - 11/22/2024 - Reason - The report has been revised to combine all samples back into one report..

Revision 5 - 1/21/2025 - Reason - Per client request -
Add TCLP Be, Cd, Cr, Cu, Fe, Pb, Ni, Se, Ag, Zn to SB24 (7.5-10)
Add TCLP Be, Cd, Cr, Se, Ag to SB28 (0-3).

Receipt
The samples were received on 9/4/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256095-4 — Eurofins Chicago

Job Narrative
500-256095-4

Receipt
The samples were received on 09/04/24 12:15. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256095-5 — Eurofins Chicago

Job Narrative
500-256095-5

Revision
The report being provided is a revision of the original report sent on 11/20/2024. The report (revision 1) is being revised due to: Add SPLP Fe, Se, Ag to SB26 (7.5-10) per client request.

Receipt
The samples were received on 9/4/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
Method 6010D: The continuing calibration verification read outside recovery limits on the low side for iron. The result for iron is suspect.
SB26 (7.5-10) (500-256095-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256095-6 — Eurofins Chicago

Job Narrative
500-256095-6

Receipt
The samples were received on 9/4/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256095-7 — Eurofins Chicago

Job Narrative
500-256095-7

Receipt
The samples were received on 9/4/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256095-8 — Eurofins Chicago

Job Narrative
500-256095-8

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 1) is being revised due to: Add additional leach analytes per client request.

Receipt
The samples were received on 9/4/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256095-9 — Eurofins Chicago

Job Narrative
500-256095-9

Receipt
The samples were received on 9/4/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-11

Client Sample ID: SB24 (0-3) — Lab Sample ID: 500-256095-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2.1		0.20	0.20	mg/L	1		6010D	TCLP
Zinc	0.054	J	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.060		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB24 (7.5-10) — Lab Sample ID: 500-256095-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2000		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Manganese	5.4		0.025		mg/L	1		6010D	TCLP
Zinc	0.15		0.10		mg/L	1		6010D	TCLP
Manganese	1.4		0.025		mg/L	1		6010D	SPLP East
Manganese	2.2		0.025		mg/L	1		6010D	SPLP East

Client Sample ID: SB25 (0-3) — Lab Sample ID: 500-256095-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.030		0.025	0.010	mg/L	1		6010D	TCLP
Iron	2.2		0.20	0.20	mg/L	1		6010D	TCLP
Lead	0.037	J	0.050	0.0075	mg/L	1		6010D	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.17		0.10	0.020	mg/L	1		6010D	TCLP
Lead	0.029		0.0075	0.0075	mg/L	1		6010D	SPLP East
Manganese	0.11		0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0093		0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB25 (3-5) — Lab Sample ID: 500-256095-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.043		0.025	0.010	mg/L	1		6010D	TCLP
Iron	2.6		0.20	0.20	mg/L	1		6010D	TCLP
Lead	0.039	J	0.050	0.0075	mg/L	1		6010D	TCLP
Zinc	0.090	J	0.10	0.020	mg/L	1		6010D	TCLP
Lead	0.051		0.0075	0.0075	mg/L	1		6010D	SPLP East
Antimony	0.0092		0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB26 (0-3) — Lab Sample ID: 500-256095-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0067		0.0020		mg/L	1		6020B	TCLP
Arsenic	0.0068		0.0050		mg/L	1		6020B	TCLP
Barium	0.086		0.0050		mg/L	1		6020B	TCLP
Manganese	23		0.050		mg/L	10		6020B	TCLP
Manganese	0.35		0.0050		mg/L	1		6020B	SPLP East

Client Sample ID: SB26 (7.5-10) — Lab Sample ID: 500-256095-6

No Detections.

Client Sample ID: SB27 (0-3) — Lab Sample ID: 500-256095-7

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-11

Client Sample ID: SB27 (5-7.5) — Lab Sample ID: 500-256095-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4.4		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.13		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB28 (0-3) — Lab Sample ID: 500-256095-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	3.2		0.025		mg/L	1		6010D	TCLP
Manganese	0.47		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB28 (10-12.5) — Lab Sample ID: 500-256095-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3.9		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.18		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB29 (0-3) — Lab Sample ID: 500-256095-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	3.1		0.025	0.010	mg/L	1		6010D	TCLP
Iron	4.2		0.20	0.20	mg/L	1		6010D	SPLP East
Lead	0.026		0.0075	0.0075	mg/L	1		6010D	SPLP East
Manganese	0.41		0.025	0.010	mg/L	1		6010D	SPLP East
Nickel	0.022	J	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB29 (7.5-10) — Lab Sample ID: 500-256095-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.034		0.025	0.010	mg/L	1		6010D	TCLP
Iron	7.6		0.20	0.20	mg/L	1		6010D	TCLP
Lead	0.088	J	0.25	0.038	mg/L	5		6010D	TCLP
Manganese	5.7		0.025	0.010	mg/L	1		6010D	TCLP
Nickel	0.090		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.14		0.10	0.020	mg/L	1		6010D	TCLP
Iron	4.9		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.56		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB30 (0-3) — Lab Sample ID: 500-256095-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2.6		0.20	0.20	mg/L	1		6010D	TCLP
Manganese	9.9		0.025	0.010	mg/L	1		6010D	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010D	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB30 (12.5-15) — Lab Sample ID: 500-256095-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.024	H B	0.0025	0.00079	mg/L	1		6020B	SPLP East

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CLE
1312	SPLP Extraction	SW846	EET CHI
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
1312	Synthetic Precipitation Leaching Procedure -East (Metals)	SW846	EET CLE
1312	SPLP Extraction	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE
3050B	Preparation, Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256095-1	SB24 (0-3)	Solid	09/03/24 08:30	09/04/24 12:15
500-256095-2	SB24 (7.5-10)	Solid	09/03/24 08:40	09/04/24 12:15
500-256095-3	SB25 (0-3)	Solid	09/03/24 09:11	09/04/24 12:15
500-256095-4	SB25 (3-5)	Solid	09/03/24 09:16	09/04/24 12:15
500-256095-5	SB26 (0-3)	Solid	09/03/24 09:58	09/04/24 12:15
500-256095-6	SB26 (7.5-10)	Solid	09/03/24 10:12	09/04/24 12:15
500-256095-7	SB27 (0-3)	Solid	09/03/24 10:42	09/04/24 12:15
500-256095-8	SB27 (5-7.5)	Solid	09/03/24 10:57	09/04/24 12:15
500-256095-9	SB28 (0-3)	Solid	09/03/24 12:08	09/04/24 12:15
500-256095-10	SB28 (10-12.5)	Solid	09/03/24 12:30	09/04/24 12:15
500-256095-11	SB29 (0-3)	Solid	09/03/24 13:18	09/04/24 12:15
500-256095-12	SB29 (7.5-10)	Solid	09/03/24 13:30	09/04/24 12:15
500-256095-13	SB30 (0-3)	Solid	09/03/24 14:50	09/04/24 12:15
500-256095-14	SB30 (12.5-15)	Solid	09/03/24 15:09	09/04/24 12:15

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB24 (0-3)
Lab Sample ID: 500-256095-1
Date Collected: 09/03/24 08:30
Matrix: Solid
Date Received: 09/04/24 12:15

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 14:28	01/09/25 12:19	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/08/25 14:28	01/09/25 12:19	1
Iron	**2.1**		0.20	0.20	mg/L		01/08/25 14:28	01/09/25 12:19	1
Lead	<0.038		0.25	0.038	mg/L		01/08/25 14:28	01/09/25 18:41	5
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 14:28	01/09/25 12:19	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:19	1
Zinc	**0.054**	**J**	0.10	0.020	mg/L		01/08/25 14:28	01/09/25 12:19	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.060**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:52	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 15:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB24 (7.5-10)
Lab Sample ID: 500-256095-2
Date Collected: 09/03/24 08:40
Matrix: Solid
Date Received: 09/04/24 12:15

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/30/24 14:14	10/31/24 12:36	1
Cadmium	<0.0050		0.0050		mg/L		10/30/24 14:14	10/31/24 12:36	1
Chromium	<0.025		0.025		mg/L		10/30/24 14:14	10/31/24 12:36	1
Copper	<0.025		0.025		mg/L		10/30/24 14:14	10/31/24 12:36	1
Iron	<0.20		0.20		mg/L		10/30/24 14:14	10/31/24 12:36	1
Lead	<0.0075		0.0075		mg/L		10/30/24 14:14	10/31/24 12:36	1
Manganese	**5.4**		0.025		mg/L		10/30/24 14:14	10/31/24 12:36	1
Nickel	<0.025		0.025		mg/L		10/30/24 14:14	10/31/24 12:36	1
Selenium	<0.050		0.050		mg/L		10/30/24 14:14	10/31/24 12:36	1
Silver	<0.025		0.025		mg/L		10/30/24 14:14	10/31/24 12:36	1
Zinc	**0.15**		0.10		mg/L		10/30/24 14:14	10/31/24 12:36	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.4**		0.025		mg/L		11/06/24 08:43	11/07/24 00:24	1
Manganese	**2.2**		0.025		mg/L		12/10/24 14:10	12/11/24 12:30	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 15:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB24 (7.5-10)
Lab Sample ID: 500-256095-2
Date Collected: 09/03/24 08:40
Matrix: Solid
Date Received: 09/04/24 12:15
Percent Solids: 91.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2000		1.0	0.15	mg/Kg	☼	12/13/24 10:11	12/17/24 01:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB25 (0-3)
Lab Sample ID: 500-256095-3
Date Collected: 09/03/24 09:11
Matrix: Solid
Date Received: 09/04/24 12:15

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 14:28	01/09/25 12:24	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/08/25 14:28	01/09/25 12:24	1
Chromium	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:24	1
Copper	**0.030**		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:24	1
Iron	**2.2**		0.20	0.20	mg/L		01/08/25 14:28	01/09/25 12:24	1
Lead	**0.037**	**J**	0.050	0.0075	mg/L		01/08/25 14:28	01/09/25 12:24	1
Nickel	**0.016**	**J**	0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:24	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 14:28	01/09/25 12:24	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:24	1
Zinc	**0.17**		0.10	0.020	mg/L		01/08/25 14:28	01/09/25 12:24	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.029**		0.0075	0.0075	mg/L		01/08/25 15:08	01/09/25 13:18	1
Manganese	**0.11**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 13:18	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0093**		0.0060	0.0013	mg/L		01/08/25 14:28	01/09/25 15:31	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 15:31	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB25 (3-5)
Lab Sample ID: 500-256095-4

Date Collected: 09/03/24 09:16
Matrix: Solid
Date Received: 09/04/24 12:15

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 14:28	01/09/25 12:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/08/25 14:28	01/09/25 12:28	1
Copper	**0.043**		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:28	1
Iron	**2.6**		0.20	0.20	mg/L		01/08/25 14:28	01/09/25 12:28	1
Lead	**0.039**	**J**	0.050	0.0075	mg/L		01/08/25 14:28	01/09/25 12:28	1
Nickel	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:28	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 14:28	01/09/25 12:28	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:28	1
Zinc	**0.090**	**J**	0.10	0.020	mg/L		01/08/25 14:28	01/09/25 12:28	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.051**		0.0075	0.0075	mg/L		01/24/25 14:31	01/27/25 19:03	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0092**		0.0060	0.0013	mg/L		01/08/25 14:28	01/09/25 15:35	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 15:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB26 (0-3)
Lab Sample ID: 500-256095-5
Date Collected: 09/03/24 09:58
Matrix: Solid
Date Received: 09/04/24 12:15

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0067**		0.0020		mg/L		10/14/24 14:00	10/15/24 19:33	1
Arsenic	**0.0068**		0.0050		mg/L		10/14/24 14:00	10/15/24 19:33	1
Barium	**0.086**		0.0050		mg/L		10/14/24 14:00	10/15/24 19:33	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:33	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:33	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:33	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:33	1
Iron	<0.10		0.10		mg/L		10/14/24 14:00	10/15/24 19:33	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:33	1
Manganese	**23**		0.050		mg/L		10/14/24 14:00	10/16/24 15:54	10
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:33	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:33	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:33	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.35**		0.0050		mg/L		10/25/24 14:00	10/28/24 16:37	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	H	0.0020		mg/L		10/14/24 14:00	10/15/24 11:33	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB26 (7.5-10)
Lab Sample ID: 500-256095-6
Date Collected: 09/03/24 10:12
Matrix: Solid
Date Received: 09/04/24 12:15

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20	F1 ^-	0.20		mg/L		11/18/24 14:00	11/19/24 08:01	1
Manganese	<0.015		0.015		mg/L		11/18/24 14:00	11/19/24 08:01	1
Selenium	<0.050		0.050		mg/L		11/18/24 14:00	11/19/24 08:01	1
Silver	<0.050		0.050		mg/L		11/18/24 14:00	11/19/24 08:01	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:36	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB27 (0-3)
Lab Sample ID: 500-256095-7

Date Collected: 09/03/24 10:42
Matrix: Solid
Date Received: 09/04/24 12:15

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 15:08	01/09/25 13:22	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 15:08	01/09/25 13:22	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 16:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB27 (5-7.5)
Lab Sample ID: 500-256095-8
Date Collected: 09/03/24 10:57
Matrix: Solid
Date Received: 09/04/24 12:15

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 15:08	01/09/25 13:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/08/25 15:08	01/09/25 13:27	1
Iron	**4.4**		0.20	0.20	mg/L		01/08/25 15:08	01/09/25 13:27	1
Manganese	**0.13**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 13:27	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 15:08	01/09/25 13:27	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 13:27	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/08/25 15:08	01/10/25 11:43	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 16:15	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB28 (0-3)
Lab Sample ID: 500-256095-9
Date Collected: 09/03/24 12:08
Matrix: Solid
Date Received: 09/04/24 12:15

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/30/24 14:14	10/31/24 12:41	1
Cadmium	<0.0050		0.0050		mg/L		10/30/24 14:14	10/31/24 12:41	1
Chromium	<0.025		0.025		mg/L		10/30/24 14:14	10/31/24 12:41	1
Iron	<0.20		0.20		mg/L		10/30/24 14:14	10/31/24 12:41	1
Manganese	**3.2**		0.025		mg/L		10/30/24 14:14	10/31/24 12:41	1
Selenium	<0.050		0.050		mg/L		10/30/24 14:14	10/31/24 12:41	1
Silver	<0.025		0.025		mg/L		10/30/24 14:14	10/31/24 12:41	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.47**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 13:31	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/08/25 14:28	01/09/25 15:39	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 15:39	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB28 (10-12.5)
Lab Sample ID: 500-256095-10
Date Collected: 09/03/24 12:30
Matrix: Solid
Date Received: 09/04/24 12:15

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 15:08	01/09/25 13:36	1
Iron	**3.9**		0.20	0.20	mg/L		01/08/25 15:08	01/09/25 13:36	1
Manganese	**0.18**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 13:36	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 15:08	01/09/25 13:36	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 13:36	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 16:18	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-11

Client Sample ID: SB29 (0-3)

Date Collected: 09/03/24 13:18
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-11

Matrix: Solid

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.038		0.038	0.038	mg/L		01/24/25 14:31	01/28/25 15:22	5
Manganese	**3.1**		0.025	0.010	mg/L		01/24/25 14:31	01/27/25 18:50	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 15:08	01/09/25 13:40	1
Iron	**4.2**		0.20	0.20	mg/L		01/08/25 15:08	01/09/25 13:40	1
Lead	**0.026**		0.0075	0.0075	mg/L		01/08/25 15:08	01/09/25 13:40	1
Manganese	**0.41**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 13:40	1
Nickel	**0.022**	**J**	0.025	0.010	mg/L		01/08/25 15:08	01/09/25 13:40	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 15:08	01/09/25 13:40	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/08/25 15:08	01/10/25 11:51	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 16:22	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-11

Client Sample ID: SB29 (7.5-10)

Date Collected: 09/03/24 13:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-12

Matrix: Solid

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 14:28	01/09/25 12:33	1
Chromium	**0.034**		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:33	1
Iron	**7.6**		0.20	0.20	mg/L		01/08/25 14:28	01/09/25 12:33	1
Lead	**0.088**	**J**	0.25	0.038	mg/L		01/08/25 14:28	01/09/25 18:46	5
Manganese	**5.7**		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:33	1
Nickel	**0.090**		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:33	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 14:28	01/09/25 12:33	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:33	1
Zinc	**0.14**		0.10	0.020	mg/L		01/08/25 14:28	01/09/25 12:33	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4.9**		0.20	0.20	mg/L		01/08/25 15:08	01/09/25 13:44	1
Manganese	**0.56**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 13:44	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 15:43	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-11

Client Sample ID: SB30 (0-3)

Date Collected: 09/03/24 14:50
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-13

Matrix: Solid

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 14:28	01/09/25 12:38	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/08/25 14:28	01/09/25 12:38	1
Chromium	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:38	1
Iron	**2.6**		0.20	0.20	mg/L		01/08/25 14:28	01/09/25 12:38	1
Manganese	**9.9**		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:38	1
Nickel	**0.012**	**J**	0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:38	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 14:28	01/09/25 12:38	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 12:38	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.72**		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 13:49	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 16:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Client Sample ID: SB30 (12.5-15)
Lab Sample ID: 500-256095-14
Date Collected: 09/03/24 15:09
Matrix: Solid
Date Received: 09/04/24 12:15

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/25 12:46	03/07/25 13:48	1
Silver	<0.010		0.025	0.010	mg/L		02/26/25 12:46	03/05/25 06:02	1
Selenium	<0.020		0.050	0.020	mg/L		02/26/25 12:46	03/05/25 06:02	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.024**	**H B**	0.0025	0.00079	mg/L		04/03/25 15:12	04/04/25 14:24	1
Thallium	<0.00057	H	0.0020	0.00057	mg/L		04/03/25 15:12	04/04/25 14:24	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 630581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-5	SB26 (0-3)	TCLP	Solid	1311	
500-256095-6	SB26 (7.5-10)	TCLP	Solid	1311	
LB 240-630581/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 630682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-5	SB26 (0-3)	TCLP	Solid	3010A	630581
500-256095-6	SB26 (7.5-10)	TCLP	Solid	3010A	630581
LB 240-630581/1-B	Method Blank	TCLP	Solid	3010A	630581
MB 240-630682/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630682/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 630688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-5	SB26 (0-3)	TCLP	Solid	7470A	630581
LB 240-630688/1-A	Method Blank	Total/NA	Solid	7470A	
MB 240-630688/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 240-630688/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 630895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-5	SB26 (0-3)	TCLP	Solid	7470A	630688
LB 240-630688/1-A	Method Blank	Total/NA	Solid	7470A	630688
MB 240-630688/2-A	Method Blank	Total/NA	Solid	7470A	630688
LCS 240-630688/3-A	Lab Control Sample	Total/NA	Solid	7470A	630688

Analysis Batch: 630986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-5	SB26 (0-3)	TCLP	Solid	6020B	630682
500-256095-6	SB26 (7.5-10)	TCLP	Solid	6020B	630682
LB 240-630581/1-B	Method Blank	TCLP	Solid	6020B	630682
MB 240-630682/2-A	Method Blank	Total/NA	Solid	6020B	630682
LCS 240-630682/4-A	Lab Control Sample	Total/NA	Solid	6020B	630682

Analysis Batch: 631164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-5	SB26 (0-3)	TCLP	Solid	6020B	630682

Leach Batch: 632368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-5	SB26 (0-3)	SPLP East	Solid	1312	
LB 240-632368/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 632464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-5	SB26 (0-3)	SPLP East	Solid	3010A	632368
LB 240-632368/1-B	Method Blank	SPLP East	Solid	3010A	632368
MB 240-632464/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-632464/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals

Analysis Batch: 632808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-5	SB26 (0-3)	SPLP East	Solid	6020B	632464
LB 240-632368/1-B	Method Blank	SPLP East	Solid	6020B	632464
MB 240-632464/2-A	Method Blank	Total/NA	Solid	6020B	632464
LCS 240-632464/4-A	Lab Control Sample	Total/NA	Solid	6020B	632464

Leach Batch: 635599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-6	SB26 (7.5-10)	SPLP East	Solid	1312	
LB 240-635599/1-B	Method Blank	SPLP East	Solid	1312	
500-256095-6 MS	SB26 (7.5-10)	SPLP East	Solid	1312	
500-256095-6 MSD	SB26 (7.5-10)	SPLP East	Solid	1312	

Prep Batch: 635687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-6	SB26 (7.5-10)	SPLP East	Solid	3010A	635599
LB 240-635599/1-B	Method Blank	SPLP East	Solid	3010A	635599
MB 240-635687/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-635687/3-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256095-6 MS	SB26 (7.5-10)	SPLP East	Solid	3010A	635599
500-256095-6 MSD	SB26 (7.5-10)	SPLP East	Solid	3010A	635599

Analysis Batch: 635822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-6	SB26 (7.5-10)	SPLP East	Solid	6010D	635687
LB 240-635599/1-B	Method Blank	SPLP East	Solid	6010D	635687
MB 240-635687/2-A	Method Blank	Total/NA	Solid	6010D	635687
LCS 240-635687/3-A	Lab Control Sample	Total/NA	Solid	6010D	635687
500-256095-6 MS	SB26 (7.5-10)	SPLP East	Solid	6010D	635687
500-256095-6 MSD	SB26 (7.5-10)	SPLP East	Solid	6010D	635687

Leach Batch: 792816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	TCLP	Solid	1311	
500-256095-9	SB28 (0-3)	TCLP	Solid	1311	
LB 500-792816/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 793140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	TCLP	Solid	3010A	792816
500-256095-9	SB28 (0-3)	TCLP	Solid	3010A	792816
LB 500-792816/1-B	Method Blank	TCLP	Solid	3010A	792816
LCS 500-793140/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 793326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	TCLP	Solid	6010D	793140
500-256095-9	SB28 (0-3)	TCLP	Solid	6010D	793140
LB 500-792816/1-B	Method Blank	TCLP	Solid	6010D	793140
LCS 500-793140/2-A	Lab Control Sample	Total/NA	Solid	6010D	793140

Metals

Leach Batch: 793820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	SPLP East	Solid	1312	
LB 500-793820/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 794087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	SPLP East	Solid	3010A	793820
LB 500-793820/1-B	Method Blank	SPLP East	Solid	3010A	793820
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 794312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	SPLP East	Solid	6010D	794087
LB 500-793820/1-B	Method Blank	SPLP East	Solid	6010D	794087
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	6010D	794087

Leach Batch: 798557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	SPLP East	Solid	1312	
LB 500-798557/1-B	Method Blank	SPLP East	Solid	1312	
500-256095-2 MS	SB24 (7.5-10)	SPLP East	Solid	1312	
500-256095-2 DU	SB24 (7.5-10)	SPLP East	Solid	1312	

Prep Batch: 798805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	SPLP East	Solid	3010A	798557
LB 500-798557/1-B	Method Blank	SPLP East	Solid	3010A	798557
LCS 500-798805/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256095-2 MS	SB24 (7.5-10)	SPLP East	Solid	3010A	798557
500-256095-2 DU	SB24 (7.5-10)	SPLP East	Solid	3010A	798557

Analysis Batch: 799003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	SPLP East	Solid	6010D	798805
LB 500-798557/1-B	Method Blank	SPLP East	Solid	6010D	798805
LCS 500-798805/2-A	Lab Control Sample	Total/NA	Solid	6010D	798805
500-256095-2 MS	SB24 (7.5-10)	SPLP East	Solid	6010D	798805
500-256095-2 DU	SB24 (7.5-10)	SPLP East	Solid	6010D	798805

Prep Batch: 799315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	3050B	
MB 500-799315/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-799315/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 799700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-2	SB24 (7.5-10)	Total/NA	Solid	6010D	799315
MB 500-799315/1-A	Method Blank	Total/NA	Solid	6010D	799315
LCS 500-799315/2-A	Lab Control Sample	Total/NA	Solid	6010D	799315

Metals

Leach Batch: 801978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	SPLP East	Solid	1312	
500-256095-3	SB25 (0-3)	SPLP East	Solid	1312	
500-256095-7	SB27 (0-3)	SPLP East	Solid	1312	
500-256095-8	SB27 (5-7.5)	SPLP East	Solid	1312	
500-256095-9	SB28 (0-3)	SPLP East	Solid	1312	
500-256095-10	SB28 (10-12.5)	SPLP East	Solid	1312	
500-256095-11	SB29 (0-3)	SPLP East	Solid	1312	
500-256095-12	SB29 (7.5-10)	SPLP East	Solid	1312	
500-256095-13	SB30 (0-3)	SPLP East	Solid	1312	
LB 500-801978/1-B	Method Blank	SPLP East	Solid	1312	
500-256095-1 MS	SB24 (0-3)	SPLP East	Solid	1312	
500-256095-1 DU	SB24 (0-3)	SPLP East	Solid	1312	

Leach Batch: 801994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	TCLP	Solid	1311	
500-256095-2	SB24 (7.5-10)	TCLP	Solid	1311	
500-256095-3	SB25 (0-3)	TCLP	Solid	1311	
500-256095-4	SB25 (3-5)	TCLP	Solid	1311	
500-256095-9	SB28 (0-3)	TCLP	Solid	1311	
500-256095-12	SB29 (7.5-10)	TCLP	Solid	1311	
500-256095-13	SB30 (0-3)	TCLP	Solid	1311	
LB 500-801994/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 802156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	TCLP	Solid	3010A	801994
500-256095-2	SB24 (7.5-10)	TCLP	Solid	3010A	801994
500-256095-3	SB25 (0-3)	TCLP	Solid	3010A	801994
500-256095-4	SB25 (3-5)	TCLP	Solid	3010A	801994
500-256095-9	SB28 (0-3)	TCLP	Solid	3010A	801994
500-256095-12	SB29 (7.5-10)	TCLP	Solid	3010A	801994
500-256095-13	SB30 (0-3)	TCLP	Solid	3010A	801994
LB 500-801994/1-B	Method Blank	TCLP	Solid	3010A	801994
LCS 500-802156/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 802170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	SPLP East	Solid	3010A	801978
500-256095-3	SB25 (0-3)	SPLP East	Solid	3010A	801978
500-256095-7	SB27 (0-3)	SPLP East	Solid	3010A	801978
500-256095-8	SB27 (5-7.5)	SPLP East	Solid	3010A	801978
500-256095-9	SB28 (0-3)	SPLP East	Solid	3010A	801978
500-256095-10	SB28 (10-12.5)	SPLP East	Solid	3010A	801978
500-256095-11	SB29 (0-3)	SPLP East	Solid	3010A	801978
500-256095-12	SB29 (7.5-10)	SPLP East	Solid	3010A	801978
500-256095-13	SB30 (0-3)	SPLP East	Solid	3010A	801978
LB 500-801978/1-B	Method Blank	SPLP East	Solid	3010A	801978
LCS 500-802170/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256095-1 MS	SB24 (0-3)	SPLP East	Solid	3010A	801978
500-256095-1 DU	SB24 (0-3)	SPLP East	Solid	3010A	801978

Metals

Analysis Batch: 802359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	SPLP East	Solid	6010D	802170
500-256095-1	SB24 (0-3)	TCLP	Solid	6010D	802156
500-256095-3	SB25 (0-3)	SPLP East	Solid	6010D	802170
500-256095-3	SB25 (0-3)	TCLP	Solid	6010D	802156
500-256095-4	SB25 (3-5)	TCLP	Solid	6010D	802156
500-256095-7	SB27 (0-3)	SPLP East	Solid	6010D	802170
500-256095-8	SB27 (5-7.5)	SPLP East	Solid	6010D	802170
500-256095-9	SB28 (0-3)	SPLP East	Solid	6010D	802170
500-256095-10	SB28 (10-12.5)	SPLP East	Solid	6010D	802170
500-256095-11	SB29 (0-3)	SPLP East	Solid	6010D	802170
500-256095-12	SB29 (7.5-10)	SPLP East	Solid	6010D	802170
500-256095-12	SB29 (7.5-10)	TCLP	Solid	6010D	802156
500-256095-13	SB30 (0-3)	SPLP East	Solid	6010D	802170
500-256095-13	SB30 (0-3)	TCLP	Solid	6010D	802156
LB 500-801978/1-B	Method Blank	SPLP East	Solid	6010D	802170
LB 500-801994/1-B	Method Blank	TCLP	Solid	6010D	802156
LCS 500-802156/2-A	Lab Control Sample	Total/NA	Solid	6010D	802156
LCS 500-802170/2-A	Lab Control Sample	Total/NA	Solid	6010D	802170
500-256095-1 MS	SB24 (0-3)	SPLP East	Solid	6010D	802170
500-256095-1 DU	SB24 (0-3)	SPLP East	Solid	6010D	802170

Analysis Batch: 802391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	TCLP	Solid	6020B	802156
500-256095-2	SB24 (7.5-10)	TCLP	Solid	6020B	802156
500-256095-3	SB25 (0-3)	TCLP	Solid	6020B	802156
500-256095-4	SB25 (3-5)	TCLP	Solid	6020B	802156
500-256095-7	SB27 (0-3)	SPLP East	Solid	6020B	802170
500-256095-8	SB27 (5-7.5)	SPLP East	Solid	6020B	802170
500-256095-9	SB28 (0-3)	TCLP	Solid	6020B	802156
500-256095-10	SB28 (10-12.5)	SPLP East	Solid	6020B	802170
500-256095-11	SB29 (0-3)	SPLP East	Solid	6020B	802170
500-256095-12	SB29 (7.5-10)	TCLP	Solid	6020B	802156
500-256095-13	SB30 (0-3)	TCLP	Solid	6020B	802156
LB 500-801978/1-B	Method Blank	SPLP East	Solid	6020B	802170
LB 500-801994/1-B	Method Blank	TCLP	Solid	6020B	802156
LCS 500-802156/2-A	Lab Control Sample	Total/NA	Solid	6020B	802156
LCS 500-802170/2-A	Lab Control Sample	Total/NA	Solid	6020B	802170

Analysis Batch: 802392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-1	SB24 (0-3)	TCLP	Solid	6010D	802156
500-256095-12	SB29 (7.5-10)	TCLP	Solid	6010D	802156

Analysis Batch: 802478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-8	SB27 (5-7.5)	SPLP East	Solid	6020B	802170
500-256095-11	SB29 (0-3)	SPLP East	Solid	6020B	802170
LB 500-801978/1-B	Method Blank	SPLP East	Solid	6020B	802170
LCS 500-802170/2-A	Lab Control Sample	Total/NA	Solid	6020B	802170

Metals

Leach Batch: 803946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-11	SB29 (0-3)	TCLP	Solid	1311	
LB 500-803946/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 803947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-4	SB25 (3-5)	SPLP East	Solid	1312	
LB 500-803947/1-D	Method Blank	SPLP East	Solid	1312	

Prep Batch: 804147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-4	SB25 (3-5)	SPLP East	Solid	3010A	803947
500-256095-11	SB29 (0-3)	TCLP	Solid	3010A	803946
LB 500-803946/1-B	Method Blank	TCLP	Solid	3010A	803946
LB 500-803947/1-D	Method Blank	SPLP East	Solid	3010A	803947
LCS 500-804147/13-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-804147/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 804398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-4	SB25 (3-5)	SPLP East	Solid	6010D	804147
500-256095-11	SB29 (0-3)	TCLP	Solid	6010D	804147
LB 500-803946/1-B	Method Blank	TCLP	Solid	6010D	804147
LB 500-803947/1-D	Method Blank	SPLP East	Solid	6010D	804147
LCS 500-804147/13-A	Lab Control Sample	Total/NA	Solid	6010D	804147
LCS 500-804147/2-A	Lab Control Sample	Total/NA	Solid	6010D	804147

Analysis Batch: 804530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-11	SB29 (0-3)	TCLP	Solid	6010D	804147

Leach Batch: 807590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-14	SB30 (12.5-15)	TCLP	Solid	1311	
LB 500-807590/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 807791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-14	SB30 (12.5-15)	TCLP	Solid	3010A	807590
LB 500-807590/1-B	Method Blank	TCLP	Solid	3010A	807590
LCS 500-807791/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 808677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-14	SB30 (12.5-15)	TCLP	Solid	6010D	807791
LB 500-807590/1-B	Method Blank	TCLP	Solid	6010D	807791
LCS 500-807791/2-A	Lab Control Sample	Total/NA	Solid	6010D	807791

Analysis Batch: 809125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-14	SB30 (12.5-15)	TCLP	Solid	6010D	807791
LB 500-807590/1-B	Method Blank	TCLP	Solid	6010D	807791

Metals (Continued)

Analysis Batch: 809125 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-807791/2-A	Lab Control Sample	Total/NA	Solid	6010D	807791

Leach Batch: 812104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-14	SB30 (12.5-15)	SPLP East	Solid	1312	
LB 500-812104/1-B	Method Blank	SPLP East	Solid	1312	
500-256095-14 MS	SB30 (12.5-15)	SPLP East	Solid	1312	
500-256095-14 DU	SB30 (12.5-15)	SPLP East	Solid	1312	

Prep Batch: 812419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-14	SB30 (12.5-15)	SPLP East	Solid	3010A	812104
LB 500-812104/1-B	Method Blank	SPLP East	Solid	3010A	812104
LCS 500-812419/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256095-14 MS	SB30 (12.5-15)	SPLP East	Solid	3010A	812104
500-256095-14 DU	SB30 (12.5-15)	SPLP East	Solid	3010A	812104

Analysis Batch: 812676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256095-14	SB30 (12.5-15)	SPLP East	Solid	6020B	812419
LB 500-812104/1-B	Method Blank	SPLP East	Solid	6020B	812419
LCS 500-812419/2-A	Lab Control Sample	Total/NA	Solid	6020B	812419
500-256095-14 MS	SB30 (12.5-15)	SPLP East	Solid	6020B	812419
500-256095-14 DU	SB30 (12.5-15)	SPLP East	Solid	6020B	812419

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-256095-8	SB27 (5-7.5)	100	93	89	89
500-256095-9	SB28 (0-3)	102	93	90	89
500-256095-14	SB30 (12.5-15)	96	99	96	100
LCS 500-785875/4	Lab Control Sample	91	91	86	91
LCS 500-786367/4	Lab Control Sample	95	101	98	99
MB 500-785875/7	Method Blank	94	95	86	88
MB 500-786367/7	Method Blank	97	100	99	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-256095-1	SB24 (0-3)	105	118	102	109
500-256095-2	SB24 (7.5-10)	105	129	107	122
500-256095-3	SB25 (0-3)	108	120	100	108
500-256095-4	SB25 (3-5)	103	119	98	108
500-256095-5	SB26 (0-3)	111	106	103	98
500-256095-6	SB26 (7.5-10)	101	109	99	98
500-256095-7	SB27 (0-3)	113	110	59 S1-	103
500-256095-10	SB28 (10-12.5)	98	130	101	108
500-256095-11	SB29 (0-3)	102	131	113	129 S1+
500-256095-12	SB29 (7.5-10)	115	108	103	101
500-256095-13	SB30 (0-3)	105	109	101	107
LCS 500-785424/4	Lab Control Sample	104	90	103	98
LCS 500-785633/4	Lab Control Sample	100	99	97	104
LCSD 500-785424/5	Lab Control Sample Dup	102	95	101	98
LCSD 500-785633/5	Lab Control Sample Dup	102	95	100	103
MB 500-785424/7	Method Blank	105	99	101	96
MB 500-785633/7	Method Blank	104	101	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256095-1	SB24 (0-3)	72	77	73	78	34	85

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(31-166)	(30-153)	(37-147)	(43-145)	(31-143)	(42-157)
500-256095-2	SB24 (7.5-10)	47	50	45	55	47	65
500-256095-3	SB25 (0-3)	59	62	59	64	38	67
500-256095-4	SB25 (3-5)	60	64	59	69	19 S1-	74
500-256095-4 - DL	SB25 (3-5)	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
500-256095-5	SB26 (0-3)	49	61	69	78	41	90
500-256095-6	SB26 (7.5-10)	70	72	76	75	60	89
500-256095-6 MS	SB26 (7.5-10)	59	65	64	73	60	83
500-256095-6 MSD	SB26 (7.5-10)	59	66	63	73	62	84
500-256095-7	SB27 (0-3)	32	63	69	72	9 S1-	87
500-256095-8	SB27 (5-7.5)	51	61	74	77	19 S1-	86
500-256095-9	SB28 (0-3)	40	44	45	51	37	64
500-256095-10	SB28 (10-12.5)	65	67	60	66	67	86
500-256095-11	SB29 (0-3)	70	73	71	79	49	84
500-256095-12	SB29 (7.5-10)	62	66	65	71	52	73
500-256095-13	SB30 (0-3)	53	59	57	62	47	66
500-256095-14	SB30 (12.5-15)	50	74	79	78	19 S1-	94
LCS 500-785981/2-A	Lab Control Sample	84	88	91	86	92	90
MB 500-785981/1-A	Method Blank	87	86	89	79	79	90

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT1	BFB1
Lab Sample ID	Client Sample ID	(70-130)	(60-130)
500-256095-8	SB27 (5-7.5)	98	107
LCS 500-784769/6	Lab Control Sample	104	106
MB 500-784769/5	Method Blank	100	107

Surrogate Legend

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
500-256095-8	SB27 (5-7.5)	82	65
LCS 500-785024/2-A	Lab Control Sample	85	76
MB 500-785024/1-A	Method Blank	76	71

Surrogate Legend

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (33-148)	TCX2 (30-121)
500-256095-1	SB24 (0-3)	678 S1+	78
500-256095-1 MS	SB24 (0-3)	452 S1+	59
500-256095-1 MSD	SB24 (0-3)	671 S1+	84
500-256095-2	SB24 (7.5-10)	353 S1+	54
500-256095-3	SB25 (0-3)	555 S1+	78
500-256095-4	SB25 (3-5)	1237 S1+	148 S1+
500-256095-5	SB26 (0-3)	105	66
500-256095-6	SB26 (7.5-10)	81	88
500-256095-7	SB27 (0-3)	67	104
500-256095-8	SB27 (5-7.5)	92	121
500-256095-9	SB28 (0-3)	143	82
500-256095-10	SB28 (10-12.5)	95	161 S1+
500-256095-11	SB29 (0-3)	292 S1+	66
500-256095-12	SB29 (7.5-10)	206 S1+	58
500-256095-13	SB30 (0-3)	295 S1+	59
500-256095-14	SB30 (12.5-15)	80	87
LCS 500-785892/2-A	Lab Control Sample	80	57
MB 500-785892/1-A	Method Blank	69	47

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-256095-1	SB24 (0-3)	73	181 S1+
500-256095-1 MS	SB24 (0-3)	39 S1-	85
500-256095-1 MSD	SB24 (0-3)	96	211 S1+
500-256095-2	SB24 (7.5-10)	48 S1-	213 S1+
500-256095-3	SB25 (0-3)	49	162 S1+
500-256095-4	SB25 (3-5)	60	79
500-256095-5	SB26 (0-3)	62	71
500-256095-6	SB26 (7.5-10)	94	88
500-256095-7	SB27 (0-3)	55	91
500-256095-8	SB27 (5-7.5)	94	92
500-256095-9	SB28 (0-3)	131 S1+	77
500-256095-10	SB28 (10-12.5)	51	113
500-256095-11	SB29 (0-3)	57	63
500-256095-12	SB29 (7.5-10)	67	155 S1+
500-256095-13	SB30 (0-3)	75	80
500-256095-14	SB30 (12.5-15)	52	71
LCS 500-785892/3-A	Lab Control Sample	81	43
MB 500-785892/1-A	Method Blank	77	27 S1-

Surrogate Legend

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-635687/2-A
Matrix: Solid
Analysis Batch: 635822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 635687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20	^-	0.20		mg/L		11/18/24 14:00	11/19/24 07:52	1
Manganese	<0.015		0.015		mg/L		11/18/24 14:00	11/19/24 07:52	1
Selenium	<0.050		0.050		mg/L		11/18/24 14:00	11/19/24 07:52	1
Silver	<0.050		0.050		mg/L		11/18/24 14:00	11/19/24 07:52	1

Lab Sample ID: LCS 240-635687/3-A
Matrix: Solid
Analysis Batch: 635822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 635687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	7.53	^-	mg/L		75	50 - 150
Manganese	1.00	0.903		mg/L		90	50 - 150
Selenium	2.00	1.96		mg/L		98	50 - 150
Silver	0.100	0.0899		mg/L		90	50 - 150

Lab Sample ID: LCS 500-793140/2-A
Matrix: Solid
Analysis Batch: 793326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 793140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0488		mg/L		98	80 - 120
Cadmium	0.0500	0.0484		mg/L		97	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Copper	0.250	0.252		mg/L		101	80 - 120
Iron	1.00	0.850		mg/L		85	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Manganese	0.500	0.481		mg/L		96	80 - 120
Nickel	0.500	0.525		mg/L		105	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Silver	0.0500	0.0523		mg/L		105	80 - 120
Zinc	0.500	0.566		mg/L		113	80 - 120

Lab Sample ID: LCS 500-794087/2-A
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 794087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.512		mg/L		102	80 - 120

Lab Sample ID: LCS 500-798805/2-A
Matrix: Solid
Analysis Batch: 799003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.484		mg/L		97	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-799315/1-A
Matrix: Solid
Analysis Batch: 799700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.15		1.0	0.15	mg/Kg		12/13/24 10:11	12/16/24 23:35	1

Lab Sample ID: LCS 500-799315/2-A
Matrix: Solid
Analysis Batch: 799700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	50.0	47.7		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-802156/2-A
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0524		mg/L		105	80 - 120
Cadmium	0.0500	0.0539		mg/L		108	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Copper	0.250	0.279		mg/L		112	80 - 120
Iron	1.00	0.965		mg/L		96	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Manganese	0.500	0.488		mg/L		98	80 - 120
Nickel	0.500	0.523		mg/L		105	80 - 120
Selenium	0.100	0.115		mg/L		115	80 - 120
Silver	0.0500	0.0528		mg/L		106	80 - 120
Zinc	0.500	0.549		mg/L		110	80 - 120

Lab Sample ID: LCS 500-802170/2-A
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0476		mg/L		95	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Iron	1.00	0.914		mg/L		91	80 - 120
Lead	0.100	0.0995		mg/L		100	80 - 120
Manganese	0.500	0.465		mg/L		93	80 - 120
Nickel	0.500	0.494		mg/L		99	80 - 120
Selenium	0.100	0.0971		mg/L		97	80 - 120
Silver	0.0500	0.0480		mg/L		96	80 - 120

Lab Sample ID: LCS 500-804147/13-A
Matrix: Solid
Analysis Batch: 804398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 804147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.118		mg/L		118	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-804147/2-A
Matrix: Solid
Analysis Batch: 804398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 804147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.513		mg/L		103	80 - 120

Lab Sample ID: LCS 500-807791/2-A
Matrix: Solid
Analysis Batch: 808677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 807791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.0500	0.0566		mg/L		113	80 - 120
Selenium	0.100	0.111		mg/L		111	80 - 120

Lab Sample ID: LCS 500-807791/2-A
Matrix: Solid
Analysis Batch: 809125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 807791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0538		mg/L		108	80 - 120

Lab Sample ID: LB 500-792816/1-B
Matrix: Solid
Analysis Batch: 793326

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 793140

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/30/24 14:14	10/31/24 12:27	1
Cadmium	<0.0050		0.0050		mg/L		10/30/24 14:14	10/31/24 12:27	1
Chromium	<0.025		0.025		mg/L		10/30/24 14:14	10/31/24 12:27	1
Copper	<0.025		0.025		mg/L		10/30/24 14:14	10/31/24 12:27	1
Iron	<0.20		0.20		mg/L		10/30/24 14:14	10/31/24 12:27	1
Lead	<0.0075		0.0075		mg/L		10/30/24 14:14	10/31/24 12:27	1
Manganese	<0.025		0.025		mg/L		10/30/24 14:14	10/31/24 12:27	1
Nickel	<0.025		0.025		mg/L		10/30/24 14:14	10/31/24 12:27	1
Selenium	<0.050		0.050		mg/L		10/30/24 14:14	10/31/24 12:27	1
Silver	<0.025		0.025		mg/L		10/30/24 14:14	10/31/24 12:27	1
Zinc	<0.10		0.10		mg/L		10/30/24 14:14	10/31/24 12:27	1

Lab Sample ID: LB 500-801994/1-B
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802156

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 14:28	01/09/25 11:21	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/08/25 14:28	01/09/25 11:21	1
Chromium	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:21	1
Copper	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:21	1
Iron	<0.20		0.20	0.20	mg/L		01/08/25 14:28	01/09/25 11:21	1
Lead	<0.0075		0.050	0.0075	mg/L		01/08/25 14:28	01/09/25 11:21	1
Manganese	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:21	1
Nickel	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:21	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 14:28	01/09/25 11:21	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 14:28	01/09/25 11:21	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-801994/1-B
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802156

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.020		0.10	0.020	mg/L		01/08/25 14:28	01/09/25 11:21	1

Lab Sample ID: LB 500-803946/1-B
Matrix: Solid
Analysis Batch: 804398

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 804147

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/24/25 14:31	01/27/25 17:51	1

Lab Sample ID: LB 500-807590/1-B
Matrix: Solid
Analysis Batch: 808677

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 807791

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.010		0.025	0.010	mg/L		02/26/25 12:46	03/05/25 05:08	1
Selenium	<0.020		0.050	0.020	mg/L		02/26/25 12:46	03/05/25 05:08	1

Lab Sample ID: LB 500-807590/1-B
Matrix: Solid
Analysis Batch: 809125

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 807791

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/25 12:46	03/07/25 13:39	1

Lab Sample ID: LB 240-635599/1-B
Matrix: Solid
Analysis Batch: 635822

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 635687

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20	^-	0.20		mg/L		11/18/24 14:00	11/19/24 07:48	1
Manganese	<0.015		0.015		mg/L		11/18/24 14:00	11/19/24 07:48	1
Selenium	<0.050		0.050		mg/L		11/18/24 14:00	11/19/24 07:48	1
Silver	<0.050		0.050		mg/L		11/18/24 14:00	11/19/24 07:48	1

Lab Sample ID: 500-256095-6 MS
Matrix: Solid
Analysis Batch: 635822

Client Sample ID: SB26 (7.5-10)
Prep Type: SPLP East
Prep Batch: 635687

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	<0.20	F1 ^-	10.0	7.61	^-	mg/L		76	75 - 125
Manganese	<0.015		1.00	0.938		mg/L		93	75 - 125
Selenium	<0.050		2.00	2.03		mg/L		101	75 - 125
Silver	<0.050		0.100	0.0911		mg/L		91	75 - 125

Lab Sample ID: 500-256095-6 MSD
Matrix: Solid
Analysis Batch: 635822

Client Sample ID: SB26 (7.5-10)
Prep Type: SPLP East
Prep Batch: 635687

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	<0.20	F1 ^-	10.0	7.17	^- F1	mg/L		72	75 - 125	6	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256095-6 MSD
Matrix: Solid
Analysis Batch: 635822

Client Sample ID: SB26 (7.5-10)
Prep Type: SPLP East
Prep Batch: 635687

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	<0.015		1.00	0.841		mg/L		83	75 - 125	11	20
Selenium	<0.050		2.00	1.94		mg/L		97	75 - 125	4	20
Silver	<0.050		0.100	0.0821		mg/L		82	75 - 125	10	20

Lab Sample ID: LB 500-793820/1-B
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 794087

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025		mg/L		11/06/24 08:43	11/06/24 23:27	1

Lab Sample ID: LB 500-798557/1-B
Matrix: Solid
Analysis Batch: 799003

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 798805

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025		mg/L		12/10/24 14:10	12/11/24 12:22	1

Lab Sample ID: 500-256095-2 MS
Matrix: Solid
Analysis Batch: 799003

Client Sample ID: SB24 (7.5-10)
Prep Type: SPLP East
Prep Batch: 798805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	2.2		0.500	2.10	4	mg/L		-15	75 - 125

Lab Sample ID: 500-256095-2 DU
Matrix: Solid
Analysis Batch: 799003

Client Sample ID: SB24 (7.5-10)
Prep Type: SPLP East
Prep Batch: 798805

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	2.2		2.56		mg/L		16	20

Lab Sample ID: LB 500-801978/1-B
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802170

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/08/25 15:08	01/09/25 12:43	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/08/25 15:08	01/09/25 12:43	1
Iron	<0.20		0.20	0.20	mg/L		01/08/25 15:08	01/09/25 12:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/08/25 15:08	01/09/25 12:43	1
Manganese	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Nickel	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1
Selenium	<0.020		0.050	0.020	mg/L		01/08/25 15:08	01/09/25 12:43	1
Silver	<0.010		0.025	0.010	mg/L		01/08/25 15:08	01/09/25 12:43	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256095-1 MS
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: SB24 (0-3)
Prep Type: SPLP East
Prep Batch: 802170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0490		mg/L		98	75 - 125
Cadmium	<0.0020		0.0500	0.0495		mg/L		99	75 - 125
Iron	1.7		1.00	2.70		mg/L		102	75 - 125
Lead	0.014		0.100	0.112		mg/L		97	75 - 125
Manganese	0.060		0.500	0.506		mg/L		89	75 - 125
Nickel	<0.010		0.500	0.499		mg/L		100	75 - 125
Selenium	<0.020		0.100	0.102		mg/L		102	75 - 125
Silver	<0.010		0.0500	0.0479		mg/L		96	75 - 125

Lab Sample ID: 500-256095-1 DU
Matrix: Solid
Analysis Batch: 802359

Client Sample ID: SB24 (0-3)
Prep Type: SPLP East
Prep Batch: 802170

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Iron	1.7		1.89		mg/L		11	20
Lead	0.014		0.0160		mg/L		11	20
Manganese	0.060		0.0610		mg/L		2	20
Nickel	<0.010		<0.010		mg/L		NC	20
Selenium	<0.020		<0.020		mg/L		NC	20
Silver	<0.010		<0.010		mg/L		NC	20

Lab Sample ID: LB 500-803947/1-D
Matrix: Solid
Analysis Batch: 804398

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 804147

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/25 14:31	01/27/25 18:54	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Barium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Iron	<0.10		0.10		mg/L		10/14/24 14:00	10/15/24 19:04	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Manganese	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1

Lab Sample ID: LCS 240-630682/4-A
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.101		mg/L		101	80 - 120
Arsenic	1.00	0.944		mg/L		94	80 - 120
Barium	1.00	0.955		mg/L		96	80 - 120
Beryllium	0.500	0.508		mg/L		102	80 - 120
Cadmium	0.500	0.470		mg/L		94	80 - 120
Chromium	0.500	0.478		mg/L		96	80 - 120
Copper	0.500	0.502		mg/L		100	80 - 120
Iron	5.00	4.75		mg/L		95	80 - 120
Lead	0.500	0.450		mg/L		90	80 - 120
Manganese	0.500	0.498		mg/L		100	80 - 120
Selenium	1.00	0.913		mg/L		91	80 - 120
Silver	0.100	0.0973		mg/L		97	80 - 120
Thallium	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: MB 240-632464/2-A
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0050		0.0050		mg/L		10/25/24 14:00	10/28/24 16:19	1

Lab Sample ID: LCS 240-632464/4-A
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.466		mg/L		93	80 - 120

Lab Sample ID: LCS 500-802156/2-A
Matrix: Solid
Analysis Batch: 802391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.527		mg/L		105	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LCS 500-802170/2-A
Matrix: Solid
Analysis Batch: 802391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.110		mg/L		110	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-802170/2-A
Matrix: Solid
Analysis Batch: 802478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.508		mg/L		102	80 - 120

Lab Sample ID: LCS 500-812419/2-A
Matrix: Solid
Analysis Batch: 812676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 812419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.507		mg/L		101	80 - 120
Thallium	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Barium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Iron	<0.10		0.10		mg/L		10/14/24 14:00	10/15/24 19:01	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Manganese	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1

Lab Sample ID: LB 500-801994/1-B
Matrix: Solid
Analysis Batch: 802391

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802156

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/08/25 14:28	01/09/25 14:22	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 14:28	01/09/25 14:22	1

Lab Sample ID: LB 240-632368/1-B
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 632464

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0050		0.0050		mg/L		10/25/24 14:00	10/28/24 16:16	1

Lab Sample ID: LB 500-801978/1-B
Matrix: Solid
Analysis Batch: 802391

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802170

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/08/25 15:08	01/09/25 16:03	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LB 500-801978/1-B
Matrix: Solid
Analysis Batch: 802478

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802170

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/08/25 15:08	01/10/25 11:32	1

Lab Sample ID: LB 500-812104/1-B
Matrix: Solid
Analysis Batch: 812676

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 812419

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.000834	J	0.0025	0.00079	mg/L		04/03/25 15:12	04/04/25 14:19	1
Thallium	<0.00057		0.0020	0.00057	mg/L		04/03/25 15:12	04/04/25 14:19	1

Lab Sample ID: 500-256095-14 MS
Matrix: Solid
Analysis Batch: 812676

Client Sample ID: SB30 (12.5-15)
Prep Type: SPLP East
Prep Batch: 812419

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.024	H B	0.500	0.543		mg/L		104	75 - 125
Thallium	<0.00057	H	0.100	0.102		mg/L		102	75 - 125

Lab Sample ID: 500-256095-14 DU
Matrix: Solid
Analysis Batch: 812676

Client Sample ID: SB30 (12.5-15)
Prep Type: SPLP East
Prep Batch: 812419

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	0.024	H B	0.0251		mg/L		4	20
Thallium	<0.00057	H	<0.00057		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 240-630688/1-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630688

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 11:15	1

Lab Sample ID: MB 240-630688/2-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 11:17	1

Lab Sample ID: LCS 240-630688/3-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00482		mg/L		96	80 - 120

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-11

Client Sample ID: SB24 (0-3)

Date Collected: 09/03/24 08:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 12:52
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		5	802392	RB	EET CHI	01/09/25 18:41
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 12:19
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 15:24

Client Sample ID: SB24 (7.5-10)

Date Collected: 09/03/24 08:40
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6010D		1	794312	SJ	EET CHI	11/07/24 00:24
SPLP East	Leach	1312			798557	PA	EET CHI	12/09/24 14:35 - 12/10/24 08:35 [1]
SPLP East	Prep	3010A			798805	S1Z	EET CHI	12/10/24 14:10 - 12/10/24 20:10 [1]
SPLP East	Analysis	6010D		1	799003	SJ	EET CHI	12/11/24 12:30
TCLP	Leach	1311			792816	JL	EET CHI	10/29/24 13:55 - 10/30/24 07:55 [1]
TCLP	Prep	3010A			793140	S1Z	EET CHI	10/30/24 14:14 - 10/30/24 20:14 [1]
TCLP	Analysis	6010D		1	793326	SJ	EET CHI	10/31/24 12:36
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 15:28

Client Sample ID: SB24 (7.5-10)

Date Collected: 09/03/24 08:40
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-2

Matrix: Solid
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			799315	BDE	EET CHI	12/13/24 10:11 - 12/13/24 16:11 [1]
Total/NA	Analysis	6010D		1	799700	SJ	EET CHI	12/17/24 01:00

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-11

Client Sample ID: SB25 (0-3)

Lab Sample ID: 500-256095-3

Date Collected: 09/03/24 09:11

Matrix: Solid

Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 13:18
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 12:24
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 15:31

Client Sample ID: SB25 (3-5)

Lab Sample ID: 500-256095-4

Date Collected: 09/03/24 09:16

Matrix: Solid

Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			803947	JL	EET CHI	01/23/25 15:38 - 01/24/25 09:38 [1]
SPLP East	Prep	3010A			804147	S1Z	EET CHI	01/24/25 14:31 - 01/24/25 20:31 [1]
SPLP East	Analysis	6010D		1	804398	RB	EET CHI	01/27/25 19:03
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 12:28
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 15:35

Client Sample ID: SB26 (0-3)

Lab Sample ID: 500-256095-5

Date Collected: 09/03/24 09:58

Matrix: Solid

Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			632368	DRJ	EET CLE	10/24/24 17:10 - 10/25/24 09:25 [1]
SPLP East	Prep	3010A			632464	BN	EET CLE	10/25/24 14:00
SPLP East	Analysis	6020B		1	632808	AJC	EET CLE	10/28/24 16:37
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6020B		1	630986	AJC	EET CLE	10/15/24 19:33
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6020B		10	631164	AJC	EET CLE	10/16/24 15:54
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	7470A			630688	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	7470A		1	630895	TQ6W	EET CLE	10/15/24 11:33

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-11

Client Sample ID: SB26 (7.5-10)
Date Collected: 09/03/24 10:12
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			635599	DRJ	EET CLE	11/17/24 15:05 - 11/18/24 09:00 [1]
SPLP East	Prep	3010A			635687	S4FJ	EET CLE	11/18/24 14:00
SPLP East	Analysis	6010D		1	635822	KLC	EET CLE	11/19/24 08:01
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6020B		1	630986	AJC	EET CLE	10/15/24 19:36

Client Sample ID: SB27 (0-3)
Date Collected: 09/03/24 10:42
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 13:22
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 16:11

Client Sample ID: SB27 (5-7.5)
Date Collected: 09/03/24 10:57
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 13:27
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 16:15
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802478	RN	EET CHI	01/10/25 11:43

Client Sample ID: SB28 (0-3)
Date Collected: 09/03/24 12:08
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 13:31
TCLP	Leach	1311			792816	JL	EET CHI	10/29/24 13:55 - 10/30/24 07:55 [1]
TCLP	Prep	3010A			793140	S1Z	EET CHI	10/30/24 14:14 - 10/30/24 20:14 [1]
TCLP	Analysis	6010D		1	793326	SJ	EET CHI	10/31/24 12:41

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Job ID: 500-256095-11

Client Sample ID: SB28 (0-3)
Date Collected: 09/03/24 12:08
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 15:39

Client Sample ID: SB28 (10-12.5)
Date Collected: 09/03/24 12:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 13:36
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 16:18

Client Sample ID: SB29 (0-3)
Date Collected: 09/03/24 13:18
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 13:40
TCLP	Leach	1311			803946	JL	EET CHI	01/23/25 15:38 - 01/24/25 09:38 [1]
TCLP	Prep	3010A			804147	S1Z	EET CHI	01/24/25 14:31 - 01/24/25 20:31 [1]
TCLP	Analysis	6010D		5	804530	RB	EET CHI	01/28/25 15:22
TCLP	Leach	1311			803946	JL	EET CHI	01/23/25 15:38 - 01/24/25 09:38 [1]
TCLP	Prep	3010A			804147	S1Z	EET CHI	01/24/25 14:31 - 01/24/25 20:31 [1]
TCLP	Analysis	6010D		1	804398	RB	EET CHI	01/27/25 18:50
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 16:22
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6020B		1	802478	RN	EET CHI	01/10/25 11:51

Client Sample ID: SB29 (7.5-10)
Date Collected: 09/03/24 13:30
Date Received: 09/04/24 12:15

Lab Sample ID: 500-256095-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 13:44

Client Sample ID: SB29 (7.5-10)
Lab Sample ID: 500-256095-12
Date Collected: 09/03/24 13:30
Matrix: Solid
Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		5	802392	RB	EET CHI	01/09/25 18:46
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 12:33
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 15:43

Client Sample ID: SB30 (0-3)
Lab Sample ID: 500-256095-13
Date Collected: 09/03/24 14:50
Matrix: Solid
Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			801978	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
SPLP East	Prep	3010A			802170	S1Z	EET CHI	01/08/25 15:08 - 01/08/25 21:08 [1]
SPLP East	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 13:49
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6010D		1	802359	RB	EET CHI	01/09/25 12:38
TCLP	Leach	1311			801994	PA	EET CHI	01/07/25 16:34 - 01/08/25 10:34 [1]
TCLP	Prep	3010A			802156	S1Z	EET CHI	01/08/25 14:28 - 01/08/25 20:28 [1]
TCLP	Analysis	6020B		1	802391	RN	EET CHI	01/09/25 16:00

Client Sample ID: SB30 (12.5-15)
Lab Sample ID: 500-256095-14
Date Collected: 09/03/24 15:09
Matrix: Solid
Date Received: 09/04/24 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			807590	TJ	EET CHI	02/25/25 13:03 - 02/26/25 07:03 [1]
TCLP	Prep	3010A			807791	S1Z	EET CHI	02/26/25 12:46 - 02/26/25 16:46 [1]
TCLP	Analysis	6010D		1	808677	RB	EET CHI	03/05/25 06:02
TCLP	Leach	1311			807590	TJ	EET CHI	02/25/25 13:03 - 02/26/25 07:03 [1]
TCLP	Prep	3010A			807791	S1Z	EET CHI	02/26/25 12:46 - 02/26/25 16:46 [1]
TCLP	Analysis	6010D		1	809125	SJ	EET CHI	03/07/25 13:48
SPLP East	Leach	1312			812104	JL	EET CHI	04/02/25 15:03 - 04/03/25 09:03 [1]
SPLP East	Prep	3010A			812419	S1Z	EET CHI	04/03/25 15:12 - 04/03/25 21:12 [1]
SPLP East	Analysis	6020B		1	812676	RN	EET CHI	04/04/25 14:24

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256095-11
Project/Site: 8080 S Lakeshore Dr (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020B	3010A	Solid	Manganese

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24

Chain of Custody Record

670135

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HAMSCHER	Site Contact:	Date:	COC No 1 of 2 COCs
Company Name PIONEER	Tel/Email: JHAMSCHER@PIONEERES.COM	Lab Contact:	Carrier:	Sampler
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below _____			Lab Sampling
Fax	☒ 2 weeks			
Project Name 8080 S THE STATE DR	☐ 1 week			Job / SDG No 500-256095
Site	☐ 2 days			
PO # 24-0124-103	☐ 1 day			

500-256095 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TCL	PDH	Sample Specific Notes
1 SB24 (0-3)	9/3/24	830	G	SO	4			X	X	
2 SB24 (7.5-10)		840								
3 SB25 (0-3)		911								
4 SB25 (3-5)		916								
5 SB26 (0-3)		958								
6 SB26 (7.5-10)		1012								
7 SB27 (0-3)		1042								
8 SB27 (5-7.5)		1057								
9 SB28 (0-3)		1208								
10 SB28 (10-12.5)		1230								
11 SB29 (0-3)		118								
12 SB29 (7.5-10)		130								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 1.9 Corr'd 1.6 | Therm ID No

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	PIONEER	9/4/24		EETA	9/4/24 1110
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	EETA 9/4/24	1215			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				EETA	9/4/24 1215

Chain of Custody Record 720773

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager.	Site Contact.	Date:	COC No 2 of 2 COCs
Company Name PIONEER	Tel/Email:	Lab Contact	Carrier	Sampler
Address	Analysis Turnaround Time			For Lab Use Only
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below _____			Lab Sampling
Fax	☐ 2 weeks			
Project Name	☐ 1 week			Job / SDG No 500-256095
Site	☐ 2 days			
P O #	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL VOA													Sample Specific Notes
13	SB30 (0-3)	9/3/24	250	G	SO	4			X													
14	SB30 (12.5-15)	↓	309	↓	↓	↓			X													

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	9/4/24	Received by	EETA	9/4/24 1110
Relinquished by	EETA 9/4/24	1215	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company EETA	Date/Time 9/4/24 1215

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256095-11

Login Number: 256095
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/14/2025 4:54:58 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256166-7

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256166-2 — Eurofins Chicago

Job Narrative
500-256166-2

Revision
The report being provided is a revision of the original report sent on 10/17/2024. The report (revision 2) is being revised due to: Add additional analytes to SB36 (0-3) and SB42 (0-3) per client request.

Report revision history
Revision 1 - 11/13/2024 - Reason - Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit for beryllium. The continuing calibration blanks and method blanks may not support the lower PQL..

Receipt
The samples were received on 9/5/2024 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 3.3º C.

Metals
Method 6020B: Barium, Nickel, and Lead exceeded the reporting limit in the leachate blank. Process cleanliness cannot be guaranteed for samples undergoing metals leachate procedures at the requested reporting limit. SB36 (0-3) (500-256166-11)

Method 6020B: Iron exceeded the reporting limit in the leachate blank. Process cleanliness cannot be guaranteed for samples undergoing metals leachate procedures at the requested reporting limit. SB42 (0-3) (500-256166-23)

Method 6020B: Nickel and iron in the leachate blank exceeded the reporting limits. Since process cleanliness for non-RCRA analytes cannot be guaranteed for samples undergoing metals leachate procedures, corrective action for leachate blank contamination is limited to analyte concentrations for RCRA analytes. SB36 (0-3) (500-256166-11) and SB42 (0-3) (500-256166-23)

Method 7470A: The following sample(s) was prepared outside of preparation holding time due to mercury being requested after hold time had expired. SB36 (0-3) (500-256166-11).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 1311: The following sample was prepared outside of preparation holding time due to the analysis being requested after the holding time had elapsed: SB36 (0-3) (500-256166-11).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-256166-3 — Eurofins Chicago

Job Narrative
500-256166-3

Revision
The report being provided is a revision of the original report sent on 10/30/2024. The report (revision 3) is being revised due to: the report has been revised to include SPLP Pb for #23..

Report revision history
Revision 1 - 1/21/2025 - Reason - Add additional analytes to SB31 (0-3) and SB42 (0-3) per client request.

Revision 2 - 1/29/2025 - Reason - Add SPLP Fe to SB42 (0-3) per client request.

Receipt
The samples were received on 9/5/2024 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 3.3º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256166-4 — Eurofins Chicago

Job Narrative
500-256166-4

Revision
The report being provided is a revision of the original report sent on 11/7/2024. The report (revision 2) is being revised due to: Add SPLP Mn to SB36 (5-7.5) per client request.

Report revision history
Revision 1 - 11/13/2024 - Reason - Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit for beryllium. The continuing calibration blanks and method blanks may not support the lower PQL..

Receipt
The samples were received on 9/5/2024 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 3.3º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256166-5 — Eurofins Chicago

Job Narrative
500-256166-5

Revision
The report being provided is a revision of the original report sent on 11/20/2024. The report (revision 1) is being revised due to: Add additional TCLP analytes to SB36 (5-7.5) per client request.

Receipt
The samples were received on 9/5/2024 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 3.3º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256166-6 — Eurofins Chicago

Job Narrative
500-256166-6

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 2) is being revised due to: The report has been revised to add other TCLP/SPLP metals..

Report revision history
Revision 1 - 1/29/2025 - Reason - Add additional leach analytes per client request.

Receipt
The samples were received on 9/5/2024 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 3.3º C.

Metals
Method 6010D: The laboratory control sample (LCS) for prep batch 802546 recovered outside control limits for the following analytes: Zn. These analytes were biased high in the LCS and were below the reporting limit in the associated samples; therefore, the data have been reported.

Method 6020B: The continuing calibration verification (CCV) associated with batch 500-802745 recovered above the upper control limit for Antimony. The samples associated with this CCV were below the reporting limit for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256166-7 — Eurofins Chicago

Job Narrative
500-256166-7

Receipt
The samples were received on 9/5/2024 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 3.3º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256166-8 — Eurofins Chicago

Job Narrative
500-256166-8

Receipt
The samples were received on 9/5/2024 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 3.3º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256166-9 — Eurofins Chicago

Job Narrative
500-256166-9

Receipt
The samples were received on 9/5/2024 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 3.3º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB31 (0-3) — Lab Sample ID: 500-256166-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.024		0.0040		mg/L	1		6010D	TCLP
Chromium	0.042		0.025		mg/L	1		6010D	TCLP
Manganese	0.024	J H	0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0031	J ^+	0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB32 (0-3) — Lab Sample ID: 500-256166-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.045		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB32 (5-7.5) — Lab Sample ID: 500-256166-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1.5		0.20	0.20	mg/L	1		6010D	TCLP
Manganese	13		0.025	0.010	mg/L	1		6010D	TCLP
Beryllium	0.0043		0.0040	0.0040	mg/L	1		6010D	SPLP East
Copper	0.39		0.025	0.010	mg/L	1		6010D	SPLP East
Iron	70		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	6.4		0.025	0.010	mg/L	1		6010D	SPLP East
Silver	0.020	J	0.025	0.010	mg/L	1		6010D	SPLP East
Thallium	0.00082	J	0.0020	0.00057	mg/L	1		6020B	SPLP East

Client Sample ID: SB33 (0-3) — Lab Sample ID: 500-256166-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.094		0.025	0.010	mg/L	1		6010D	TCLP
Manganese	0.20		0.025	0.010	mg/L	1		6010D	SPLP East
Vanadium	0.062		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB33 (5-7.5) — Lab Sample ID: 500-256166-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.068		0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.026		0.025	0.010	mg/L	1		6010D	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB34 (0-3) — Lab Sample ID: 500-256166-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.22		0.20	0.20	mg/L	1		6010D	TCLP
Silver	0.015	J	0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.013	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.032	J *+	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.53		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB35 (0-3) — Lab Sample ID: 500-256166-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.012	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	1.2		0.20	0.20	mg/L	1		6010D	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.035		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.044	J *+	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.43		0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB35 (7.5-10) — Lab Sample ID: 500-256166-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.017	J	0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.021	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.030	J *+	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.42		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB36 (0-3) — Lab Sample ID: 500-256166-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.32	B	0.0050		mg/L	1		6020B	TCLP
Chromium	0.019		0.0050		mg/L	1		6020B	TCLP
Cobalt	0.0020		0.0010		mg/L	1		6020B	TCLP
Copper	0.0031		0.0020		mg/L	1		6020B	TCLP
Iron	0.26	B	0.10		mg/L	1		6020B	TCLP
Nickel	0.051	B	0.0020		mg/L	1		6020B	TCLP

Client Sample ID: SB36 (5-7.5) — Lab Sample ID: 500-256166-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0015	J	0.0050	0.00075	mg/L	1		6020B	TCLP
Antimony	0.0025		0.0020		mg/L	1		6020B	TCLP
Cadmium	0.00027	J B	0.0010	0.000077	mg/L	1		6020B	TCLP
Chromium	0.0031	J	0.0050	0.0012	mg/L	1		6020B	TCLP
Nickel	0.022		0.0020	0.0015	mg/L	1		6020B	TCLP
Selenium	0.0019	J	0.0050	0.00089	mg/L	1		6020B	TCLP
Thallium	0.00071	J B	0.0020	0.00051	mg/L	1		6020B	TCLP

Client Sample ID: SB37 (0-3) — Lab Sample ID: 500-256166-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.3		0.025	0.010	mg/L	1		6010D	TCLP
Manganese	2.9		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB37 (12.5-15) — Lab Sample ID: 500-256166-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	7.6		0.20	0.20	mg/L	1		6010D	SPLP East

Client Sample ID: SB38 (0-3) — Lab Sample ID: 500-256166-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.28		0.20	0.20	mg/L	1		6010D	TCLP
Manganese	2.9		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB38 (12.5-15) — Lab Sample ID: 500-256166-16

No Detections.

Client Sample ID: SB39 (0-3) — Lab Sample ID: 500-256166-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.020	J	0.025	0.010	mg/L	1		6010D	TCLP
Copper	0.041		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.045	J *+	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.046		0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB39 (7.5-10) — Lab Sample ID: 500-256166-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0021	J	0.0060	0.0013	mg/L	1		6020B	TCLP
Thallium	0.00086	J B	0.0020	0.00057	mg/L	1		6020B	TCLP

Client Sample ID: SB40 (0-3) — Lab Sample ID: 500-256166-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	6.7		0.025	0.010	mg/L	1		6010D	TCLP
Nickel	0.14		0.025	0.010	mg/L	1		6010D	TCLP
Silver	0.020	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.032	J *+	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB40 (5-7.5) — Lab Sample ID: 500-256166-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.25		0.20	0.20	mg/L	1		6010D	TCLP
Nickel	0.14		0.025	0.010	mg/L	1		6010D	TCLP
Silver	0.042		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.029	J *+	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.011	J	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB41 (0-3) — Lab Sample ID: 500-256166-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.022	J	0.025	0.010	mg/L	1		6010D	TCLP

Client Sample ID: SB41 (5-7.5) — Lab Sample ID: 500-256166-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.32		0.20	0.20	mg/L	1		6010D	TCLP
Silver	0.011	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.032	J *+	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB42 (0-3) — Lab Sample ID: 500-256166-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.023		0.0020		mg/L	1		6020B	TCLP
Cadmium	0.0049		0.0010		mg/L	1		6020B	TCLP
Copper	0.013		0.0020		mg/L	1		6020B	TCLP
Lead	0.33	B	0.0010		mg/L	1		6020B	TCLP
Nickel	0.050	B	0.0020		mg/L	1		6020B	TCLP
Antimony	0.060		0.0020		mg/L	1		6020B	SPLP East
Iron	8.7		0.10		mg/L	1		6020B	SPLP East
Lead	0.48		0.0010		mg/L	1		6020B	SPLP East
Manganese	0.32		0.0050		mg/L	1		6020B	SPLP East

Client Sample ID: SB42 (7.5-10) — Lab Sample ID: 500-256166-24

No Detections.

Client Sample ID: SB43 (0-3) — Lab Sample ID: 500-256166-25

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB43 (10-12.5)
Lab Sample ID: 500-256166-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.41		0.20	0.20	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CLE
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
1312	Synthetic Precipitation Leaching Procedure -East (Metals)	SW846	EET CLE
1312	SPLP Extraction	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256166-1	SB31 (0-3)	Solid	09/04/24 08:37	09/05/24 11:17
500-256166-3	SB32 (0-3)	Solid	09/04/24 09:47	09/05/24 11:17
500-256166-4	SB32 (5-7.5)	Solid	09/04/24 10:00	09/05/24 11:17
500-256166-5	SB33 (0-3)	Solid	09/04/24 10:42	09/05/24 11:17
500-256166-6	SB33 (5-7.5)	Solid	09/04/24 10:57	09/05/24 11:17
500-256166-7	SB34 (0-3)	Solid	09/04/24 11:49	09/05/24 11:17
500-256166-9	SB35 (0-3)	Solid	09/04/24 13:39	09/05/24 11:17
500-256166-10	SB35 (7.5-10)	Solid	09/04/24 13:59	09/05/24 11:17
500-256166-11	SB36 (0-3)	Solid	09/04/24 14:41	09/05/24 11:17
500-256166-12	SB36 (5-7.5)	Solid	09/04/24 14:58	09/05/24 11:17
500-256166-13	SB37 (0-3)	Solid	09/04/24 09:42	09/05/24 11:17
500-256166-14	SB37 (12.5-15)	Solid	09/04/24 09:48	09/05/24 11:17
500-256166-15	SB38 (0-3)	Solid	09/04/24 10:11	09/05/24 11:17
500-256166-16	SB38 (12.5-15)	Solid	09/04/24 10:14	09/05/24 11:17
500-256166-17	SB39 (0-3)	Solid	09/04/24 10:30	09/05/24 11:17
500-256166-18	SB39 (7.5-10)	Solid	09/04/24 10:41	09/05/24 11:17
500-256166-19	SB40 (0-3)	Solid	09/04/24 10:52	09/05/24 11:17
500-256166-20	SB40 (5-7.5)	Solid	09/04/24 11:12	09/05/24 11:17
500-256166-21	SB41 (0-3)	Solid	09/04/24 11:36	09/05/24 11:17
500-256166-22	SB41 (5-7.5)	Solid	09/04/24 11:42	09/05/24 11:17
500-256166-23	SB42 (0-3)	Solid	09/04/24 12:43	09/05/24 11:17
500-256166-24	SB42 (7.5-10)	Solid	09/04/24 12:52	09/05/24 11:17
500-256166-25	SB43 (0-3)	Solid	09/04/24 13:42	09/05/24 11:17
500-256166-26	SB43 (10-12.5)	Solid	09/04/24 13:47	09/05/24 11:17

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB31 (0-3)
Lab Sample ID: 500-256166-1
Date Collected: 09/04/24 08:37
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.024		0.0040		mg/L		10/28/24 15:40	10/29/24 13:21	1
Chromium	0.042		0.025		mg/L		10/28/24 15:40	10/29/24 13:21	1
Nickel	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 13:21	1
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 13:21	1
Silver	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 13:21	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.024	J H	0.025	0.010	mg/L		01/16/25 14:21	01/17/25 13:58	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0031	J ^+	0.0060	0.0013	mg/L		01/12/25 16:23	01/13/25 14:24	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:23	01/13/25 14:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB32 (0-3)
Lab Sample ID: 500-256166-3
Date Collected: 09/04/24 09:47
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:24	01/13/25 21:07	1
Manganese	**0.045**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 21:07	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:24	01/13/25 21:07	1
Silver	<0.010		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 21:07	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:24	01/13/25 17:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB32 (5-7.5)
Lab Sample ID: 500-256166-4
Date Collected: 09/04/24 10:00
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/25 14:31	01/27/25 18:27	1
Iron	**1.5**		0.20	0.20	mg/L		01/24/25 14:31	01/27/25 18:27	1
Manganese	**13**		0.025	0.010	mg/L		01/24/25 14:31	01/27/25 18:27	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	**0.0043**		0.0040	0.0040	mg/L		01/12/25 16:24	01/13/25 21:25	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:24	01/13/25 21:25	1
Copper	**0.39**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 21:25	1
Iron	**70**		0.20	0.20	mg/L		01/12/25 16:24	01/13/25 21:25	1
Manganese	**6.4**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 21:25	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:24	01/13/25 21:25	1
Silver	**0.020**	**J**	0.025	0.010	mg/L		01/12/25 16:24	01/13/25 21:25	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**0.00082**	**J**	0.0020	0.00057	mg/L		01/12/25 16:24	01/13/25 17:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB33 (0-3)
Lab Sample ID: 500-256166-5

Date Collected: 09/04/24 10:42
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:23	01/13/25 13:48	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:48	1
Copper	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:48	1
Iron	<0.20		0.20	0.20	mg/L		01/12/25 16:23	01/13/25 13:48	1
Lead	<0.0075		0.050	0.0075	mg/L		01/12/25 16:23	01/13/25 13:48	1
Nickel	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:48	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:23	01/13/25 13:48	1
Silver	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:48	1
Vanadium	**0.094**		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:48	1
Zinc	<0.020	*+	0.10	0.020	mg/L		01/12/25 16:23	01/13/25 13:48	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.20**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 21:29	1
Vanadium	**0.062**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 21:29	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:23	01/13/25 14:40	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB33 (5-7.5)
Lab Sample ID: 500-256166-6
Date Collected: 09/04/24 10:57
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:23	01/13/25 13:53	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:23	01/13/25 13:53	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:53	1
Iron	<0.20		0.20	0.20	mg/L		01/12/25 16:23	01/13/25 13:53	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:23	01/13/25 13:53	1
Silver	**0.068**		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:53	1
Vanadium	**0.026**		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:53	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.36**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 21:34	1
Silver	<0.010		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 21:34	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:23	01/13/25 14:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB34 (0-3)
Lab Sample ID: 500-256166-7

Date Collected: 09/04/24 11:49
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/12/25 16:23	01/13/25 13:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:23	01/13/25 13:57	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:23	01/13/25 13:57	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:57	1
Copper	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:57	1
Iron	**0.22**		0.20	0.20	mg/L		01/12/25 16:23	01/13/25 13:57	1
Lead	<0.0075		0.050	0.0075	mg/L		01/12/25 16:23	01/13/25 13:57	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:23	01/13/25 13:57	1
Silver	**0.015**	**J**	0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:57	1
Vanadium	**0.013**	**J**	0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:57	1
Zinc	**0.032**	**J *+**	0.10	0.020	mg/L		01/12/25 16:23	01/13/25 13:57	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.53**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 21:38	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:23	01/13/25 14:59	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB35 (0-3)
Lab Sample ID: 500-256166-9

Date Collected: 09/04/24 13:39
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:23	01/13/25 14:02	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:23	01/13/25 14:02	1
Chromium	**0.012**	**J**	0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:02	1
Copper	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:02	1
Iron	**1.2**		0.20	0.20	mg/L		01/12/25 16:23	01/13/25 14:02	1
Lead	<0.0075		0.050	0.0075	mg/L		01/12/25 16:23	01/13/25 14:02	1
Nickel	**0.027**		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:02	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:23	01/13/25 14:02	1
Vanadium	**0.035**		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:02	1
Zinc	**0.044**	**J *+**	0.10	0.020	mg/L		01/12/25 16:23	01/13/25 14:02	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.43**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 21:51	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:23	01/13/25 15:03	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB35 (7.5-10)
Lab Sample ID: 500-256166-10
Date Collected: 09/04/24 13:59
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:23	01/13/25 14:06	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:23	01/13/25 14:06	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:06	1
Copper	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:06	1
Iron	<0.20		0.20	0.20	mg/L		01/12/25 16:23	01/13/25 14:06	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:23	01/13/25 14:06	1
Silver	**0.017**	**J**	0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:06	1
Vanadium	**0.021**	**J**	0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:06	1
Zinc	**0.030**	**J *+**	0.10	0.020	mg/L		01/12/25 16:23	01/13/25 14:06	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.42**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 21:55	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:23	01/13/25 15:07	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB36 (0-3)
Lab Sample ID: 500-256166-11
Date Collected: 09/04/24 14:41
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 12:53	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:53	1
Barium	**0.32**	**B**	0.0050		mg/L		10/14/24 14:00	10/15/24 12:53	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:53	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:53	1
Chromium	**0.019**		0.0050		mg/L		10/14/24 14:00	10/15/24 12:53	1
Cobalt	**0.0020**		0.0010		mg/L		10/14/24 14:00	10/15/24 12:53	1
Copper	**0.0031**		0.0020		mg/L		10/14/24 14:00	10/15/24 12:53	1
Iron	**0.26**	**B**	0.10		mg/L		10/14/24 14:00	10/15/24 12:53	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:53	1
Nickel	**0.051**	**B**	0.0020		mg/L		10/14/24 14:00	10/15/24 12:53	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:53	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:53	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 12:53	1
Zinc	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 12:53	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0035		0.0050	0.0035	mg/L		12/30/24 14:00	12/31/24 19:44	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	H	0.0020		mg/L		10/14/24 14:00	10/15/24 09:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB36 (5-7.5)
Lab Sample ID: 500-256166-12

Date Collected: 09/04/24 14:58
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/14/24 14:00	10/16/24 00:04	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		11/04/24 14:00	11/06/24 06:31	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 06:31	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0015**	**J**	0.0050	0.00075	mg/L		12/31/24 14:00	01/02/25 15:11	1
Antimony	**0.0025**		0.0020		mg/L		11/18/24 14:00	11/19/24 14:50	1
Cadmium	**0.00027**	**J B**	0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 15:11	1
Chromium	**0.0031**	**J**	0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 15:11	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 15:11	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 15:11	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 15:11	1
Nickel	**0.022**		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 15:11	1
Selenium	**0.0019**	**J**	0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 15:11	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 15:11	1
Thallium	**0.00071**	**J B**	0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 15:11	1
Zinc	<0.015		0.020	0.015	mg/L		12/31/24 14:00	01/02/25 15:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB37 (0-3)
Lab Sample ID: 500-256166-13

Date Collected: 09/04/24 09:42
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:23	01/13/25 14:11	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:23	01/13/25 14:11	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:11	1
Copper	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:11	1
Iron	<0.20		0.20	0.20	mg/L		01/12/25 16:23	01/13/25 14:11	1
Lead	<0.0075		0.050	0.0075	mg/L		01/12/25 16:23	01/13/25 14:11	1
Manganese	**2.3**		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:11	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:23	01/13/25 14:11	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.9**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 22:00	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:23	01/13/25 15:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB37 (12.5-15)
Lab Sample ID: 500-256166-14

Date Collected: 09/04/24 09:48
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/24/25 14:31	01/27/25 18:00	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**7.6**		0.20	0.20	mg/L		01/12/25 16:24	01/13/25 22:04	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:24	01/13/25 22:04	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/12/25 16:24	01/13/25 17:47	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:24	01/13/25 17:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB38 (0-3)
Lab Sample ID: 500-256166-15

Date Collected: 09/04/24 10:11
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:23	01/13/25 14:16	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:23	01/13/25 14:16	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:16	1
Copper	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:16	1
Iron	**0.28**		0.20	0.20	mg/L		01/12/25 16:23	01/13/25 14:16	1
Nickel	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:16	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:23	01/13/25 14:16	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.9**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 22:08	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB38 (12.5-15)
Lab Sample ID: 500-256166-16
Date Collected: 09/04/24 10:14
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:24	01/13/25 17:49	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB39 (0-3)
Lab Sample ID: 500-256166-17
Date Collected: 09/04/24 10:30
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:23	01/13/25 14:20	1
Chromium	**0.020**	**J**	0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:20	1
Copper	**0.041**		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:20	1
Iron	<0.20		0.20	0.20	mg/L		01/12/25 16:23	01/13/25 14:20	1
Lead	<0.0075		0.050	0.0075	mg/L		01/12/25 16:23	01/13/25 14:20	1
Nickel	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:20	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:23	01/13/25 14:20	1
Zinc	**0.045**	**J *+**	0.10	0.020	mg/L		01/12/25 16:23	01/13/25 14:20	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.046**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 22:13	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:23	01/13/25 15:14	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB39 (7.5-10)
Lab Sample ID: 500-256166-18
Date Collected: 09/04/24 10:41
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/25 12:46	03/07/25 13:53	1
Chromium	<0.010		0.025	0.010	mg/L		02/26/25 12:46	03/05/25 06:07	1
Copper	<0.010		0.025	0.010	mg/L		02/26/25 12:46	03/05/25 06:07	1
Nickel	<0.010		0.025	0.010	mg/L		02/26/25 12:46	03/07/25 05:14	1
Selenium	<0.020		0.050	0.020	mg/L		02/26/25 12:46	03/05/25 06:07	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0021**	**J**	0.0060	0.0013	mg/L		02/26/25 12:46	03/05/25 14:43	1
Thallium	**0.00086**	**J B**	0.0020	0.00057	mg/L		02/26/25 12:46	03/05/25 14:43	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB40 (0-3)
Lab Sample ID: 500-256166-19

Date Collected: 09/04/24 10:52
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:23	01/13/25 14:34	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:23	01/13/25 14:34	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:34	1
Copper	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:34	1
Iron	<0.20		0.20	0.20	mg/L		01/12/25 16:23	01/13/25 14:34	1
Lead	<0.0075		0.050	0.0075	mg/L		01/12/25 16:23	01/13/25 14:34	1
Manganese	**6.7**		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:34	1
Nickel	**0.14**		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:34	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:23	01/13/25 14:34	1
Silver	**0.020**	**J**	0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:34	1
Zinc	**0.032**	**J *+**	0.10	0.020	mg/L		01/12/25 16:23	01/13/25 14:34	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.28**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 22:17	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:23	01/13/25 15:18	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB40 (5-7.5)
Lab Sample ID: 500-256166-20

Date Collected: 09/04/24 11:12
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:23	01/13/25 14:38	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:38	1
Copper	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:38	1
Iron	**0.25**		0.20	0.20	mg/L		01/12/25 16:23	01/13/25 14:38	1
Nickel	**0.14**		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:38	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:23	01/13/25 14:38	1
Silver	**0.042**		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:38	1
Zinc	**0.029**	**J *+**	0.10	0.020	mg/L		01/12/25 16:23	01/13/25 14:38	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.011**	**J**	0.025	0.010	mg/L		01/12/25 16:24	01/13/25 22:21	1
Nickel	<0.010		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 22:21	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:23	01/13/25 15:22	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB41 (0-3)
Lab Sample ID: 500-256166-21
Date Collected: 09/04/24 11:36
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/25 12:46	03/07/25 13:57	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/26/25 12:46	03/05/25 06:12	1
Chromium	**0.022**	**J**	0.025	0.010	mg/L		02/26/25 12:46	03/05/25 06:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/25 12:46	03/05/25 06:12	1
Nickel	<0.010		0.025	0.010	mg/L		02/26/25 12:46	03/07/25 05:18	1
Selenium	<0.020		0.050	0.020	mg/L		02/26/25 12:46	03/05/25 06:12	1
Zinc	<0.020		0.10	0.020	mg/L		02/26/25 12:46	03/05/25 06:12	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB41 (5-7.5)
Lab Sample ID: 500-256166-22

Date Collected: 09/04/24 11:42
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:23	01/13/25 14:43	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:23	01/13/25 14:43	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:43	1
Copper	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:43	1
Iron	**0.32**		0.20	0.20	mg/L		01/12/25 16:23	01/13/25 14:43	1
Lead	<0.0075		0.050	0.0075	mg/L		01/12/25 16:23	01/13/25 14:43	1
Nickel	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:43	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:23	01/13/25 14:43	1
Silver	**0.011**	**J**	0.025	0.010	mg/L		01/12/25 16:23	01/13/25 14:43	1
Zinc	**0.032**	**J *+**	0.10	0.020	mg/L		01/12/25 16:23	01/13/25 14:43	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.12**		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 22:26	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:23	01/13/25 15:26	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB42 (0-3)
Lab Sample ID: 500-256166-23

Date Collected: 09/04/24 12:43
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.023**		0.0020		mg/L		10/14/24 14:00	10/15/24 12:55	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:55	1
Cadmium	**0.0049**		0.0010		mg/L		10/14/24 14:00	10/15/24 12:55	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:55	1
Copper	**0.013**		0.0020		mg/L		10/14/24 14:00	10/15/24 12:55	1
Iron	<0.10		0.10		mg/L		10/14/24 14:00	10/15/24 12:55	1
Lead	**0.33**	**B**	0.0010		mg/L		10/14/24 14:00	10/15/24 12:55	1
Nickel	**0.050**	**B**	0.0020		mg/L		10/14/24 14:00	10/15/24 12:55	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:55	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:55	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 12:55	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.060**		0.0020		mg/L		10/25/24 14:00	10/28/24 16:40	1
Iron	**8.7**		0.10		mg/L		10/25/24 14:00	10/28/24 16:40	1
Lead	**0.48**		0.0010		mg/L		10/25/24 14:00	10/28/24 16:40	1
Manganese	**0.32**		0.0050		mg/L		10/25/24 14:00	10/28/24 16:40	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB42 (7.5-10)
Lab Sample ID: 500-256166-24
Date Collected: 09/04/24 12:52
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:24	01/13/25 22:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB43 (0-3)
Lab Sample ID: 500-256166-25
Date Collected: 09/04/24 13:42
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:24	01/13/25 22:43	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:24	01/13/25 22:43	1
Silver	<0.010		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 22:43	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:24	01/13/25 17:52	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB43 (10-12.5)
Lab Sample ID: 500-256166-26
Date Collected: 09/04/24 13:47
Matrix: Solid
Date Received: 09/05/24 11:17

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 13:06	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.41**		0.20	0.20	mg/L		01/12/25 16:24	01/13/25 22:48	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:24	01/13/25 17:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 630579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-11	SB36 (0-3)	TCLP	Solid	1311	
500-256166-12	SB36 (5-7.5)	TCLP	Solid	1311	
500-256166-23	SB42 (0-3)	TCLP	Solid	1311	
LB 240-630579/1-B	Method Blank	TCLP	Solid	1311	
LB 240-630579/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 630669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-11	SB36 (0-3)	TCLP	Solid	3010A	630579
500-256166-12	SB36 (5-7.5)	TCLP	Solid	3010A	630579
500-256166-23	SB42 (0-3)	TCLP	Solid	3010A	630579
LB 240-630579/1-B	Method Blank	TCLP	Solid	3010A	630579
MB 240-630669/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630669/3-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 240-630669/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 630675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-11	SB36 (0-3)	TCLP	Solid	7470A	630579
LB 240-630579/1-C	Method Blank	TCLP	Solid	7470A	630579
MB 240-630675/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 240-630675/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 630895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-11	SB36 (0-3)	TCLP	Solid	7470A	630675
LB 240-630579/1-C	Method Blank	TCLP	Solid	7470A	630675
MB 240-630675/2-A	Method Blank	Total/NA	Solid	7470A	630675
LCS 240-630675/3-A	Lab Control Sample	Total/NA	Solid	7470A	630675

Analysis Batch: 630899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-11	SB36 (0-3)	TCLP	Solid	6020B	630669
500-256166-23	SB42 (0-3)	TCLP	Solid	6020B	630669
LB 240-630579/1-B	Method Blank	TCLP	Solid	6020B	630669
MB 240-630669/2-A	Method Blank	Total/NA	Solid	6020B	630669
LCS 240-630669/4-A	Lab Control Sample	Total/NA	Solid	6020B	630669

Analysis Batch: 630918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	TCLP	Solid	6010D	630669
LB 240-630579/1-B	Method Blank	TCLP	Solid	6010D	630669
MB 240-630669/2-A	Method Blank	Total/NA	Solid	6010D	630669
LCS 240-630669/3-A	Lab Control Sample	Total/NA	Solid	6010D	630669

Leach Batch: 632368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-23	SB42 (0-3)	SPLP East	Solid	1312	
LB 240-632368/1-B	Method Blank	SPLP East	Solid	1312	

Metals

Prep Batch: 632464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-23	SB42 (0-3)	SPLP East	Solid	3010A	632368
LB 240-632368/1-B	Method Blank	SPLP East	Solid	3010A	632368
MB 240-632464/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-632464/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 632808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-23	SB42 (0-3)	SPLP East	Solid	6020B	632464
LB 240-632368/1-B	Method Blank	SPLP East	Solid	6020B	632464
MB 240-632464/2-A	Method Blank	Total/NA	Solid	6020B	632464
LCS 240-632464/4-A	Lab Control Sample	Total/NA	Solid	6020B	632464

Leach Batch: 633697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	SPLP East	Solid	1312	
LB 240-633697/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 633805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	SPLP East	Solid	3010A	633697
LB 240-633697/1-B	Method Blank	SPLP East	Solid	3010A	633697
MB 240-633805/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-633805/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 634193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	SPLP East	Solid	6010D	633805
LB 240-633697/1-B	Method Blank	SPLP East	Solid	6010D	633805
MB 240-633805/2-A	Method Blank	Total/NA	Solid	6010D	633805
LCS 240-633805/3-A	Lab Control Sample	Total/NA	Solid	6010D	633805

Leach Batch: 635600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	TCLP	Solid	1311	
LB 240-635600/1-B	Method Blank	TCLP	Solid	1311	
500-256166-12 MS	SB36 (5-7.5)	TCLP	Solid	1311	
500-256166-12 MSD	SB36 (5-7.5)	TCLP	Solid	1311	

Prep Batch: 635683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	TCLP	Solid	3010A	635600
LB 240-635600/1-B	Method Blank	TCLP	Solid	3010A	635600
MB 240-635683/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-635683/4-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256166-12 MS	SB36 (5-7.5)	TCLP	Solid	3010A	635600
500-256166-12 MSD	SB36 (5-7.5)	TCLP	Solid	3010A	635600

Analysis Batch: 635973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	TCLP	Solid	6020B	635683
LB 240-635600/1-B	Method Blank	TCLP	Solid	6020B	635683

Metals (Continued)

Analysis Batch: 635973 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-635683/2-A	Method Blank	Total/NA	Solid	6020B	635683
LCS 240-635683/4-A	Lab Control Sample	Total/NA	Solid	6020B	635683
500-256166-12 MS	SB36 (5-7.5)	TCLP	Solid	6020B	635683
500-256166-12 MSD	SB36 (5-7.5)	TCLP	Solid	6020B	635683

Leach Batch: 640187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-11	SB36 (0-3)	SPLP East	Solid	1312	
LB 240-640187/1-B	Method Blank	SPLP East	Solid	1312	
500-256166-11 MS	SB36 (0-3)	SPLP East	Solid	1312	
500-256166-11 MSD	SB36 (0-3)	SPLP East	Solid	1312	

Prep Batch: 640243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-11	SB36 (0-3)	SPLP East	Solid	3010A	640187
LB 240-640187/1-B	Method Blank	SPLP East	Solid	3010A	640187
MB 240-640243/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640243/4-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256166-11 MS	SB36 (0-3)	SPLP East	Solid	3010A	640187
500-256166-11 MSD	SB36 (0-3)	SPLP East	Solid	3010A	640187

Leach Batch: 640346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	TCLP	Solid	1311	
LB 240-640346/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 640405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	TCLP	Solid	3010A	640346
LB 240-640346/1-B	Method Blank	TCLP	Solid	3010A	640346
MB 240-640405/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640405/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 640493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-11	SB36 (0-3)	SPLP East	Solid	6020B	640243
LB 240-640187/1-B	Method Blank	SPLP East	Solid	6020B	640243
MB 240-640243/2-A	Method Blank	Total/NA	Solid	6020B	640243
LCS 240-640243/4-A	Lab Control Sample	Total/NA	Solid	6020B	640243
500-256166-11 MS	SB36 (0-3)	SPLP East	Solid	6020B	640243
500-256166-11 MSD	SB36 (0-3)	SPLP East	Solid	6020B	640243

Analysis Batch: 640570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-12	SB36 (5-7.5)	TCLP	Solid	6020B	640405
LB 240-640346/1-B	Method Blank	TCLP	Solid	6020B	640405
MB 240-640405/2-A	Method Blank	Total/NA	Solid	6020B	640405
LCS 240-640405/4-A	Lab Control Sample	Total/NA	Solid	6020B	640405

Metals

Leach Batch: 792364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-26	SB43 (10-12.5)	TCLP	Solid	1311	
LB 500-792364/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 792414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	TCLP	Solid	1311	
LB2 500-792414/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 792710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-26	SB43 (10-12.5)	TCLP	Solid	3010A	792364
LB 500-792364/1-B	Method Blank	TCLP	Solid	3010A	792364
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 792712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	TCLP	Solid	3010A	792414
LB2 500-792414/1-B	Method Blank	TCLP	Solid	3010A	792414
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 792920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	TCLP	Solid	6010D	792712
LB2 500-792414/1-B	Method Blank	TCLP	Solid	6010D	792712
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	6010D	792712

Analysis Batch: 793149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-26	SB43 (10-12.5)	TCLP	Solid	6010D	792710
LB 500-792364/1-B	Method Blank	TCLP	Solid	6010D	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6010D	792710

Leach Batch: 802439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-3	SB32 (0-3)	SPLP East	Solid	1312	
500-256166-4	SB32 (5-7.5)	SPLP East	Solid	1312	
500-256166-5	SB33 (0-3)	SPLP East	Solid	1312	
500-256166-6	SB33 (5-7.5)	SPLP East	Solid	1312	
500-256166-7	SB34 (0-3)	SPLP East	Solid	1312	
500-256166-9	SB35 (0-3)	SPLP East	Solid	1312	
500-256166-10	SB35 (7.5-10)	SPLP East	Solid	1312	
500-256166-13	SB37 (0-3)	SPLP East	Solid	1312	
500-256166-14	SB37 (12.5-15)	SPLP East	Solid	1312	
500-256166-15	SB38 (0-3)	SPLP East	Solid	1312	
500-256166-16	SB38 (12.5-15)	SPLP East	Solid	1312	
500-256166-17	SB39 (0-3)	SPLP East	Solid	1312	
500-256166-19	SB40 (0-3)	SPLP East	Solid	1312	
500-256166-20	SB40 (5-7.5)	SPLP East	Solid	1312	
500-256166-22	SB41 (5-7.5)	SPLP East	Solid	1312	
500-256166-24	SB42 (7.5-10)	SPLP East	Solid	1312	
500-256166-25	SB43 (0-3)	SPLP East	Solid	1312	

Metals (Continued)

Leach Batch: 802439 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-26	SB43 (10-12.5)	SPLP East	Solid	1312	
LB 500-802439/1-B	Method Blank	SPLP East	Solid	1312	
500-256166-3 MS	SB32 (0-3)	SPLP East	Solid	1312	
500-256166-3 DU	SB32 (0-3)	SPLP East	Solid	1312	

Leach Batch: 802451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	TCLP	Solid	1311	
500-256166-5	SB33 (0-3)	TCLP	Solid	1311	
500-256166-6	SB33 (5-7.5)	TCLP	Solid	1311	
500-256166-7	SB34 (0-3)	TCLP	Solid	1311	
500-256166-9	SB35 (0-3)	TCLP	Solid	1311	
500-256166-10	SB35 (7.5-10)	TCLP	Solid	1311	
500-256166-13	SB37 (0-3)	TCLP	Solid	1311	
500-256166-15	SB38 (0-3)	TCLP	Solid	1311	
500-256166-17	SB39 (0-3)	TCLP	Solid	1311	
500-256166-19	SB40 (0-3)	TCLP	Solid	1311	
500-256166-20	SB40 (5-7.5)	TCLP	Solid	1311	
500-256166-22	SB41 (5-7.5)	TCLP	Solid	1311	
LB 500-802451/1-B	Method Blank	TCLP	Solid	1311	
500-256166-1 MS	SB31 (0-3)	TCLP	Solid	1311	
500-256166-1 DU	SB31 (0-3)	TCLP	Solid	1311	

Prep Batch: 802546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	TCLP	Solid	3010A	802451
500-256166-5	SB33 (0-3)	TCLP	Solid	3010A	802451
500-256166-6	SB33 (5-7.5)	TCLP	Solid	3010A	802451
500-256166-7	SB34 (0-3)	TCLP	Solid	3010A	802451
500-256166-9	SB35 (0-3)	TCLP	Solid	3010A	802451
500-256166-10	SB35 (7.5-10)	TCLP	Solid	3010A	802451
500-256166-13	SB37 (0-3)	TCLP	Solid	3010A	802451
500-256166-15	SB38 (0-3)	TCLP	Solid	3010A	802451
500-256166-17	SB39 (0-3)	TCLP	Solid	3010A	802451
500-256166-19	SB40 (0-3)	TCLP	Solid	3010A	802451
500-256166-20	SB40 (5-7.5)	TCLP	Solid	3010A	802451
500-256166-22	SB41 (5-7.5)	TCLP	Solid	3010A	802451
LB 500-802451/1-B	Method Blank	TCLP	Solid	3010A	802451
LCS 500-802546/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256166-1 MS	SB31 (0-3)	TCLP	Solid	3010A	802451
500-256166-1 DU	SB31 (0-3)	TCLP	Solid	3010A	802451

Prep Batch: 802547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-3	SB32 (0-3)	SPLP East	Solid	3010A	802439
500-256166-4	SB32 (5-7.5)	SPLP East	Solid	3010A	802439
500-256166-5	SB33 (0-3)	SPLP East	Solid	3010A	802439
500-256166-6	SB33 (5-7.5)	SPLP East	Solid	3010A	802439
500-256166-7	SB34 (0-3)	SPLP East	Solid	3010A	802439
500-256166-9	SB35 (0-3)	SPLP East	Solid	3010A	802439
500-256166-10	SB35 (7.5-10)	SPLP East	Solid	3010A	802439

Metals (Continued)

Prep Batch: 802547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-13	SB37 (0-3)	SPLP East	Solid	3010A	802439
500-256166-14	SB37 (12.5-15)	SPLP East	Solid	3010A	802439
500-256166-15	SB38 (0-3)	SPLP East	Solid	3010A	802439
500-256166-16	SB38 (12.5-15)	SPLP East	Solid	3010A	802439
500-256166-17	SB39 (0-3)	SPLP East	Solid	3010A	802439
500-256166-19	SB40 (0-3)	SPLP East	Solid	3010A	802439
500-256166-20	SB40 (5-7.5)	SPLP East	Solid	3010A	802439
500-256166-22	SB41 (5-7.5)	SPLP East	Solid	3010A	802439
500-256166-24	SB42 (7.5-10)	SPLP East	Solid	3010A	802439
500-256166-25	SB43 (0-3)	SPLP East	Solid	3010A	802439
500-256166-26	SB43 (10-12.5)	SPLP East	Solid	3010A	802439
LB 500-802439/1-B	Method Blank	SPLP East	Solid	3010A	802439
LCS 500-802547/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256166-3 MS	SB32 (0-3)	SPLP East	Solid	3010A	802439
500-256166-3 DU	SB32 (0-3)	SPLP East	Solid	3010A	802439

Analysis Batch: 802692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-5	SB33 (0-3)	TCLP	Solid	6010D	802546
500-256166-6	SB33 (5-7.5)	TCLP	Solid	6010D	802546
500-256166-7	SB34 (0-3)	TCLP	Solid	6010D	802546
500-256166-9	SB35 (0-3)	TCLP	Solid	6010D	802546
500-256166-10	SB35 (7.5-10)	TCLP	Solid	6010D	802546
500-256166-13	SB37 (0-3)	TCLP	Solid	6010D	802546
500-256166-15	SB38 (0-3)	TCLP	Solid	6010D	802546
500-256166-17	SB39 (0-3)	TCLP	Solid	6010D	802546
500-256166-19	SB40 (0-3)	TCLP	Solid	6010D	802546
500-256166-20	SB40 (5-7.5)	TCLP	Solid	6010D	802546
500-256166-22	SB41 (5-7.5)	TCLP	Solid	6010D	802546
LB 500-802451/1-B	Method Blank	TCLP	Solid	6010D	802546
LCS 500-802546/2-A	Lab Control Sample	Total/NA	Solid	6010D	802546

Analysis Batch: 802739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-3	SB32 (0-3)	SPLP East	Solid	6020B	802547
500-256166-4	SB32 (5-7.5)	SPLP East	Solid	6020B	802547
500-256166-14	SB37 (12.5-15)	SPLP East	Solid	6020B	802547
500-256166-16	SB38 (12.5-15)	SPLP East	Solid	6020B	802547
500-256166-25	SB43 (0-3)	SPLP East	Solid	6020B	802547
500-256166-26	SB43 (10-12.5)	SPLP East	Solid	6020B	802547
LB 500-802439/1-B	Method Blank	SPLP East	Solid	6020B	802547
LCS 500-802547/2-A	Lab Control Sample	Total/NA	Solid	6020B	802547
500-256166-3 MS	SB32 (0-3)	SPLP East	Solid	6020B	802547
500-256166-3 DU	SB32 (0-3)	SPLP East	Solid	6020B	802547

Analysis Batch: 802745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	TCLP	Solid	6020B	802546
500-256166-5	SB33 (0-3)	TCLP	Solid	6020B	802546
500-256166-6	SB33 (5-7.5)	TCLP	Solid	6020B	802546
500-256166-7	SB34 (0-3)	TCLP	Solid	6020B	802546

Metals (Continued)

Analysis Batch: 802745 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-9	SB35 (0-3)	TCLP	Solid	6020B	802546
500-256166-10	SB35 (7.5-10)	TCLP	Solid	6020B	802546
500-256166-13	SB37 (0-3)	TCLP	Solid	6020B	802546
500-256166-17	SB39 (0-3)	TCLP	Solid	6020B	802546
500-256166-19	SB40 (0-3)	TCLP	Solid	6020B	802546
500-256166-20	SB40 (5-7.5)	TCLP	Solid	6020B	802546
500-256166-22	SB41 (5-7.5)	TCLP	Solid	6020B	802546
LB 500-802451/1-B	Method Blank	TCLP	Solid	6020B	802546
LCS 500-802546/2-A	Lab Control Sample	Total/NA	Solid	6020B	802546
500-256166-1 MS	SB31 (0-3)	TCLP	Solid	6020B	802546
500-256166-1 DU	SB31 (0-3)	TCLP	Solid	6020B	802546

Analysis Batch: 802754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-3	SB32 (0-3)	SPLP East	Solid	6010D	802547
500-256166-4	SB32 (5-7.5)	SPLP East	Solid	6010D	802547
500-256166-5	SB33 (0-3)	SPLP East	Solid	6010D	802547
500-256166-6	SB33 (5-7.5)	SPLP East	Solid	6010D	802547
500-256166-7	SB34 (0-3)	SPLP East	Solid	6010D	802547
500-256166-9	SB35 (0-3)	SPLP East	Solid	6010D	802547
500-256166-10	SB35 (7.5-10)	SPLP East	Solid	6010D	802547
500-256166-13	SB37 (0-3)	SPLP East	Solid	6010D	802547
500-256166-14	SB37 (12.5-15)	SPLP East	Solid	6010D	802547
500-256166-15	SB38 (0-3)	SPLP East	Solid	6010D	802547
500-256166-17	SB39 (0-3)	SPLP East	Solid	6010D	802547
500-256166-19	SB40 (0-3)	SPLP East	Solid	6010D	802547
500-256166-20	SB40 (5-7.5)	SPLP East	Solid	6010D	802547
500-256166-22	SB41 (5-7.5)	SPLP East	Solid	6010D	802547
500-256166-24	SB42 (7.5-10)	SPLP East	Solid	6010D	802547
500-256166-25	SB43 (0-3)	SPLP East	Solid	6010D	802547
500-256166-26	SB43 (10-12.5)	SPLP East	Solid	6010D	802547
LB 500-802439/1-B	Method Blank	SPLP East	Solid	6010D	802547
LCS 500-802547/2-A	Lab Control Sample	Total/NA	Solid	6010D	802547
500-256166-3 MS	SB32 (0-3)	SPLP East	Solid	6010D	802547
500-256166-3 DU	SB32 (0-3)	SPLP East	Solid	6010D	802547

Leach Batch: 802980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	SPLP East	Solid	1312	
LB 500-802980/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 803176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	SPLP East	Solid	3010A	802980
LB 500-802980/1-B	Method Blank	SPLP East	Solid	3010A	802980
LCS 500-803176/5-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 803427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-1	SB31 (0-3)	SPLP East	Solid	6010D	803176
LB 500-802980/1-B	Method Blank	SPLP East	Solid	6010D	803176

Metals (Continued)

Analysis Batch: 803427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-803176/5-A	Lab Control Sample	Total/NA	Solid	6010D	803176

Leach Batch: 803946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-4	SB32 (5-7.5)	TCLP	Solid	1311	
500-256166-14	SB37 (12.5-15)	TCLP	Solid	1311	
LB 500-803946/1-B	Method Blank	TCLP	Solid	1311	
500-256166-14 MS	SB37 (12.5-15)	TCLP	Solid	1311	
500-256166-14 DU	SB37 (12.5-15)	TCLP	Solid	1311	

Prep Batch: 804147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-4	SB32 (5-7.5)	TCLP	Solid	3010A	803946
500-256166-14	SB37 (12.5-15)	TCLP	Solid	3010A	803946
LB 500-803946/1-B	Method Blank	TCLP	Solid	3010A	803946
LCS 500-804147/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256166-14 MS	SB37 (12.5-15)	TCLP	Solid	3010A	803946
500-256166-14 DU	SB37 (12.5-15)	TCLP	Solid	3010A	803946

Analysis Batch: 804398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-4	SB32 (5-7.5)	TCLP	Solid	6010D	804147
500-256166-14	SB37 (12.5-15)	TCLP	Solid	6010D	804147
LB 500-803946/1-B	Method Blank	TCLP	Solid	6010D	804147
LCS 500-804147/2-A	Lab Control Sample	Total/NA	Solid	6010D	804147
500-256166-14 MS	SB37 (12.5-15)	TCLP	Solid	6010D	804147
500-256166-14 DU	SB37 (12.5-15)	TCLP	Solid	6010D	804147

Leach Batch: 807590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-18	SB39 (7.5-10)	TCLP	Solid	1311	
500-256166-21	SB41 (0-3)	TCLP	Solid	1311	
LB 500-807590/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 807791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-18	SB39 (7.5-10)	TCLP	Solid	3010A	807590
500-256166-21	SB41 (0-3)	TCLP	Solid	3010A	807590
LB 500-807590/1-B	Method Blank	TCLP	Solid	3010A	807590
LCS 500-807791/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 808677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-18	SB39 (7.5-10)	TCLP	Solid	6010D	807791
500-256166-21	SB41 (0-3)	TCLP	Solid	6010D	807791
LB 500-807590/1-B	Method Blank	TCLP	Solid	6010D	807791
LCS 500-807791/2-A	Lab Control Sample	Total/NA	Solid	6010D	807791

Analysis Batch: 808757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-18	SB39 (7.5-10)	TCLP	Solid	6020B	807791

Metals (Continued)

Analysis Batch: 808757 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-807590/1-B	Method Blank	TCLP	Solid	6020B	807791
LCS 500-807791/2-A	Lab Control Sample	Total/NA	Solid	6020B	807791

Analysis Batch: 809032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-18	SB39 (7.5-10)	TCLP	Solid	6010D	807791
500-256166-21	SB41 (0-3)	TCLP	Solid	6010D	807791
LB 500-807590/1-B	Method Blank	TCLP	Solid	6010D	807791
LCS 500-807791/2-A	Lab Control Sample	Total/NA	Solid	6010D	807791

Analysis Batch: 809125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256166-18	SB39 (7.5-10)	TCLP	Solid	6010D	807791
500-256166-21	SB41 (0-3)	TCLP	Solid	6010D	807791
LB 500-807590/1-B	Method Blank	TCLP	Solid	6010D	807791
LCS 500-807791/2-A	Lab Control Sample	Total/NA	Solid	6010D	807791

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-630669/2-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/14/24 14:00	10/15/24 23:21	1

Lab Sample ID: LCS 240-630669/3-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	1.00	0.931		mg/L		93	50 - 150

Lab Sample ID: MB 240-633805/2-A
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		11/04/24 14:00	11/06/24 05:51	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 05:51	1

Lab Sample ID: LCS 240-633805/3-A
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	1.00	0.999		mg/L		100	50 - 150
Manganese	1.00	0.995		mg/L		99	50 - 150

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.250	0.251		mg/L		100	80 - 120

Lab Sample ID: LCS 500-792712/2-A
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0507		mg/L		101	80 - 120
Chromium	0.200	0.215		mg/L		107	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Silver	0.0500	0.0492		mg/L		98	80 - 120

Lab Sample ID: LCS 500-802546/2-A
Matrix: Solid
Analysis Batch: 802692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.109		mg/L		109	80 - 120
Beryllium	0.0500	0.0494		mg/L		99	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-802546/2-A
Matrix: Solid
Analysis Batch: 802692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120
Copper	0.250	0.245		mg/L		98	80 - 120
Iron	1.00	0.890		mg/L		89	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120
Nickel	0.500	0.546		mg/L		109	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0489		mg/L		98	80 - 120
Vanadium	0.500	0.523		mg/L		105	80 - 120
Zinc	0.500	0.608	*+	mg/L		122	80 - 120

Lab Sample ID: LCS 500-802547/2-A
Matrix: Solid
Analysis Batch: 802754

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0510		mg/L		102	80 - 120
Cadmium	0.0500	0.0475		mg/L		95	80 - 120
Copper	0.250	0.243		mg/L		97	80 - 120
Iron	1.00	1.01		mg/L		101	80 - 120
Manganese	0.500	0.496		mg/L		99	80 - 120
Nickel	0.500	0.498		mg/L		100	80 - 120
Selenium	0.100	0.0939		mg/L		94	80 - 120
Silver	0.0500	0.0476		mg/L		95	80 - 120
Vanadium	0.500	0.504		mg/L		101	80 - 120

Lab Sample ID: LCS 500-803176/5-A
Matrix: Solid
Analysis Batch: 803427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803176

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.482		mg/L		96	80 - 120

Lab Sample ID: LCS 500-804147/2-A
Matrix: Solid
Analysis Batch: 804398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 804147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0523		mg/L		105	80 - 120
Iron	1.00	1.13		mg/L		113	80 - 120
Manganese	0.500	0.513		mg/L		103	80 - 120

Lab Sample ID: LCS 500-807791/2-A
Matrix: Solid
Analysis Batch: 808677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 807791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0500	0.0545		mg/L		109	80 - 120
Chromium	0.200	0.226		mg/L		113	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-807791/2-A
Matrix: Solid
Analysis Batch: 808677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 807791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.250	0.277		mg/L		111	80 - 120
Lead	0.100	0.116		mg/L		116	80 - 120
Selenium	0.100	0.111		mg/L		111	80 - 120
Zinc	0.500	0.557		mg/L		111	80 - 120

Lab Sample ID: LCS 500-807791/2-A
Matrix: Solid
Analysis Batch: 809032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 807791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.500	0.544		mg/L		109	80 - 120

Lab Sample ID: LCS 500-807791/2-A
Matrix: Solid
Analysis Batch: 809125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 807791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0538		mg/L		108	80 - 120

Lab Sample ID: LB 240-630579/1-B
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630669

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/14/24 14:00	10/15/24 23:16	1

Lab Sample ID: LB 500-792364/1-B
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1

Lab Sample ID: LB2 500-792414/1-B
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792712

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/28/24 15:40	10/29/24 12:05	1
Chromium	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Nickel	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 12:05	1
Silver	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1

Lab Sample ID: LB 500-802451/1-B
Matrix: Solid
Analysis Batch: 802692

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802546

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/12/25 16:23	01/13/25 13:39	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802451/1-B
Matrix: Solid
Analysis Batch: 802692

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802546

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:23	01/13/25 13:39	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:23	01/13/25 13:39	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:39	1
Copper	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:39	1
Iron	<0.20		0.20	0.20	mg/L		01/12/25 16:23	01/13/25 13:39	1
Lead	<0.0075		0.050	0.0075	mg/L		01/12/25 16:23	01/13/25 13:39	1
Manganese	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:39	1
Nickel	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:39	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:23	01/13/25 13:39	1
Silver	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:39	1
Vanadium	<0.010		0.025	0.010	mg/L		01/12/25 16:23	01/13/25 13:39	1
Zinc	<0.020		0.10	0.020	mg/L		01/12/25 16:23	01/13/25 13:39	1

Lab Sample ID: LB 500-803946/1-B
Matrix: Solid
Analysis Batch: 804398

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 804147

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/25 14:31	01/27/25 17:51	1
Iron	<0.20		0.20	0.20	mg/L		01/24/25 14:31	01/27/25 17:51	1
Manganese	<0.010		0.025	0.010	mg/L		01/24/25 14:31	01/27/25 17:51	1

Lab Sample ID: 500-256166-14 MS
Matrix: Solid
Analysis Batch: 804398

Client Sample ID: SB37 (12.5-15)
Prep Type: TCLP
Prep Batch: 804147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Beryllium	<0.0040		0.0500	0.0531		mg/L		106	75 - 125		
Iron	<0.20		1.00	0.971		mg/L		97	75 - 125		
Manganese	2.6		0.500	3.17	4	mg/L		118	75 - 125		

Lab Sample ID: 500-256166-14 DU
Matrix: Solid
Analysis Batch: 804398

Client Sample ID: SB37 (12.5-15)
Prep Type: TCLP
Prep Batch: 804147

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Beryllium	<0.0040			<0.0040		mg/L				NC	20
Iron	<0.20			<0.20		mg/L				NC	20
Manganese	2.6			2.63		mg/L				2	20

Lab Sample ID: LB 500-807590/1-B
Matrix: Solid
Analysis Batch: 808677

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 807791

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/26/25 12:46	03/05/25 05:08	1
Chromium	<0.010		0.025	0.010	mg/L		02/26/25 12:46	03/05/25 05:08	1
Copper	<0.010		0.025	0.010	mg/L		02/26/25 12:46	03/05/25 05:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/25 12:46	03/05/25 05:08	1
Selenium	<0.020		0.050	0.020	mg/L		02/26/25 12:46	03/05/25 05:08	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-807590/1-B
Matrix: Solid
Analysis Batch: 808677

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 807791

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.020		0.10	0.020	mg/L		02/26/25 12:46	03/05/25 05:08	1

Lab Sample ID: LB 500-807590/1-B
Matrix: Solid
Analysis Batch: 809032

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 807791

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.010		0.025	0.010	mg/L		02/26/25 12:46	03/07/25 04:55	1

Lab Sample ID: LB 500-807590/1-B
Matrix: Solid
Analysis Batch: 809125

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 807791

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/25 12:46	03/07/25 13:39	1

Lab Sample ID: LB 240-633697/1-B
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 633805

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		11/04/24 14:00	11/06/24 05:46	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 05:46	1

Lab Sample ID: LB 500-802439/1-B
Matrix: Solid
Analysis Batch: 802754

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802547

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:24	01/13/25 20:59	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/12/25 16:24	01/13/25 20:59	1
Copper	<0.010		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 20:59	1
Iron	<0.20		0.20	0.20	mg/L		01/12/25 16:24	01/13/25 20:59	1
Manganese	<0.010		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 20:59	1
Nickel	<0.010		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 20:59	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:24	01/13/25 20:59	1
Silver	<0.010		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 20:59	1
Vanadium	<0.010		0.025	0.010	mg/L		01/12/25 16:24	01/13/25 20:59	1

Lab Sample ID: 500-256166-3 MS
Matrix: Solid
Analysis Batch: 802754

Client Sample ID: SB32 (0-3)
Prep Type: SPLP East
Prep Batch: 802547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0519		mg/L		104	75 - 125
Cadmium	<0.0020		0.0500	0.0482		mg/L		96	75 - 125
Copper	<0.010		0.250	0.246		mg/L		98	75 - 125
Iron	0.22		1.00	1.02		mg/L		79	75 - 125
Manganese	0.045		0.500	0.505		mg/L		92	75 - 125
Selenium	<0.020		0.100	0.0952		mg/L		95	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256166-3 MS
Matrix: Solid
Analysis Batch: 802754

Client Sample ID: SB32 (0-3)
Prep Type: SPLP East
Prep Batch: 802547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	<0.010		0.0500	0.0496		mg/L		99	75 - 125

Lab Sample ID: 500-256166-3 DU
Matrix: Solid
Analysis Batch: 802754

Client Sample ID: SB32 (0-3)
Prep Type: SPLP East
Prep Batch: 802547

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Copper	<0.010		<0.010		mg/L		NC	20
Iron	0.22		0.267		mg/L		18	20
Manganese	0.045		0.0440		mg/L		3	20
Selenium	<0.020		<0.020		mg/L		NC	20
Silver	<0.010		<0.010		mg/L		NC	20

Lab Sample ID: LB 500-802980/1-B
Matrix: Solid
Analysis Batch: 803427

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803176

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/16/25 14:21	01/17/25 13:18	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-630669/2-A
Matrix: Solid
Analysis Batch: 630899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 12:18	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:18	1
Barium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:18	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:18	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:18	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:18	1
Cobalt	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:18	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 12:18	1
Iron	<0.10		0.10		mg/L		10/14/24 14:00	10/15/24 12:18	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:18	1
Nickel	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 12:18	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:18	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:18	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 12:18	1
Zinc	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 12:18	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-630669/4-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 630899
Prep Batch: 630669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.102		mg/L		102	80 - 120
Arsenic	1.00	1.09		mg/L		109	80 - 120
Barium	1.00	0.990		mg/L		99	80 - 120
Beryllium	0.500	0.476		mg/L		95	80 - 120
Cadmium	0.500	0.475		mg/L		95	80 - 120
Chromium	0.500	0.484		mg/L		97	80 - 120
Cobalt	0.500	0.529		mg/L		106	80 - 120
Copper	0.500	0.517		mg/L		103	80 - 120
Iron	5.00	5.79		mg/L		116	80 - 120
Lead	0.500	0.462		mg/L		92	80 - 120
Nickel	0.500	0.523		mg/L		105	80 - 120
Selenium	1.00	0.954		mg/L		95	80 - 120
Silver	0.100	0.0989		mg/L		99	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120
Zinc	0.500	0.544		mg/L		109	80 - 120

Lab Sample ID: MB 240-632464/2-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 632808
Prep Batch: 632464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/25/24 14:00	10/28/24 16:19	1
Iron	<0.10		0.10		mg/L		10/25/24 14:00	10/28/24 16:19	1
Lead	<0.0010		0.0010		mg/L		10/25/24 14:00	10/28/24 16:19	1
Manganese	<0.0050		0.0050		mg/L		10/25/24 14:00	10/28/24 16:19	1

Lab Sample ID: LCS 240-632464/4-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 632808
Prep Batch: 632464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.0962		mg/L		96	80 - 120
Iron	5.00	4.75		mg/L		95	80 - 120
Lead	0.500	0.476		mg/L		95	80 - 120
Manganese	0.500	0.466		mg/L		93	80 - 120

Lab Sample ID: MB 240-635683/2-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 635973
Prep Batch: 635683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		11/18/24 14:00	11/19/24 14:45	1

Lab Sample ID: LCS 240-635683/4-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 635973
Prep Batch: 635683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.0951		mg/L		95	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-640243/2-A
Matrix: Solid
Analysis Batch: 640493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0035		0.0050	0.0035	mg/L		12/30/24 14:00	12/31/24 19:38	1

Lab Sample ID: LCS 240-640243/4-A
Matrix: Solid
Analysis Batch: 640493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.494		mg/L		99	80 - 120

Lab Sample ID: MB 240-640405/2-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00075		0.0050	0.00075	mg/L		12/31/24 14:00	01/02/25 14:51	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 14:51	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:51	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:51	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:51	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 14:51	1
Nickel	<0.0015		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 14:51	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:51	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:51	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:51	1
Zinc	<0.015		0.020	0.015	mg/L		12/31/24 14:00	01/02/25 14:51	1

Lab Sample ID: LCS 240-640405/4-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.04		mg/L		104	80 - 120
Cadmium	0.500	0.457		mg/L		91	80 - 120
Chromium	0.500	0.484		mg/L		97	80 - 120
Copper	0.500	0.522		mg/L		104	80 - 120
Iron	5.00	4.99		mg/L		100	80 - 120
Lead	0.500	0.536		mg/L		107	80 - 120
Nickel	0.500	0.495		mg/L		99	80 - 120
Selenium	1.00	0.956		mg/L		96	80 - 120
Silver	0.100	0.0984		mg/L		98	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120
Zinc	0.500	0.503		mg/L		101	80 - 120

Lab Sample ID: LCS 500-802546/2-A
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.519	^+	mg/L		104	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-802546/2-A
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: LCS 500-802547/2-A
Matrix: Solid
Analysis Batch: 802739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.462		mg/L		92	80 - 120
Thallium	0.100	0.0983		mg/L		98	80 - 120

Lab Sample ID: LCS 500-807791/2-A
Matrix: Solid
Analysis Batch: 808757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 807791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.527		mg/L		105	80 - 120
Thallium	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LB 240-630579/1-B
Matrix: Solid
Analysis Batch: 630899

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630669

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 12:15	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:15	1
Barium	0.00512		0.0050		mg/L		10/14/24 14:00	10/15/24 12:15	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:15	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:15	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:15	1
Cobalt	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:15	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 12:15	1
Iron	0.839		0.10		mg/L		10/14/24 14:00	10/15/24 12:15	1
Lead	0.00155		0.0010		mg/L		10/14/24 14:00	10/15/24 12:15	1
Nickel	0.00548		0.0020		mg/L		10/14/24 14:00	10/15/24 12:15	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 12:15	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 12:15	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 12:15	1
Zinc	0.0352		0.020		mg/L		10/14/24 14:00	10/15/24 12:15	1

Lab Sample ID: LB 240-635600/1-B
Matrix: Solid
Analysis Batch: 635973

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 635683

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		11/18/24 14:00	11/19/24 14:42	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-256166-12 MS
Matrix: Solid
Analysis Batch: 635973

Client Sample ID: SB36 (5-7.5)
Prep Type: TCLP
Prep Batch: 635683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0025		0.100	0.100		mg/L		98	50 - 150

Lab Sample ID: 500-256166-12 MSD
Matrix: Solid
Analysis Batch: 635973

Client Sample ID: SB36 (5-7.5)
Prep Type: TCLP
Prep Batch: 635683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0025		0.100	0.0985		mg/L		96	50 - 150	2	20

Lab Sample ID: LB 240-640346/1-B
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 640405

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00075		0.0050	0.00075	mg/L		12/31/24 14:00	01/02/25 14:43	1
Cadmium	0.000168	J	0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 14:43	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:43	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:43	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:43	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 14:43	1
Nickel	<0.0015		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 14:43	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:43	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:43	1
Thallium	0.000670	J	0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:43	1
Zinc	0.0169	J	0.020	0.015	mg/L		12/31/24 14:00	01/02/25 14:43	1

Lab Sample ID: LB 500-802451/1-B
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802546

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013	^+	0.0060	0.0013	mg/L		01/12/25 16:23	01/13/25 14:17	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:23	01/13/25 14:17	1

Lab Sample ID: 500-256166-1 MS
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: SB31 (0-3)
Prep Type: TCLP
Prep Batch: 802546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0031	J ^+	0.500	0.481	^+	mg/L		96	75 - 125
Thallium	<0.00057		0.100	0.108		mg/L		108	75 - 125

Lab Sample ID: 500-256166-1 DU
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: SB31 (0-3)
Prep Type: TCLP
Prep Batch: 802546

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.0031	J ^+	0.00150	J F5 ^+	mg/L		69	20
Thallium	<0.00057		<0.00057		mg/L		NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-807590/1-B
Matrix: Solid
Analysis Batch: 808757

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 807791

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		02/26/25 12:46	03/05/25 14:38	1
Thallium	0.00105	J	0.0020	0.00057	mg/L		02/26/25 12:46	03/05/25 14:38	1

Lab Sample ID: LB 240-632368/1-B
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 632464

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/25/24 14:00	10/28/24 16:16	1
Iron	<0.10		0.10		mg/L		10/25/24 14:00	10/28/24 16:16	1
Lead	<0.0010		0.0010		mg/L		10/25/24 14:00	10/28/24 16:16	1
Manganese	<0.0050		0.0050		mg/L		10/25/24 14:00	10/28/24 16:16	1

Lab Sample ID: LB 240-640187/1-B
Matrix: Solid
Analysis Batch: 640493

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 640243

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0035		0.0050	0.0035	mg/L		12/30/24 14:00	12/31/24 19:35	1

Lab Sample ID: 500-256166-11 MS
Matrix: Solid
Analysis Batch: 640493

Client Sample ID: SB36 (0-3)
Prep Type: SPLP East
Prep Batch: 640243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	<0.0035		0.500	0.490		mg/L		98	50 - 150

Lab Sample ID: 500-256166-11 MSD
Matrix: Solid
Analysis Batch: 640493

Client Sample ID: SB36 (0-3)
Prep Type: SPLP East
Prep Batch: 640243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	<0.0035		0.500	0.493		mg/L		99	50 - 150	1	20

Lab Sample ID: LB 500-802439/1-B
Matrix: Solid
Analysis Batch: 802739

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802547

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/12/25 16:24	01/13/25 17:24	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:24	01/13/25 17:24	1

Lab Sample ID: 500-256166-3 MS
Matrix: Solid
Analysis Batch: 802739

Client Sample ID: SB32 (0-3)
Prep Type: SPLP East
Prep Batch: 802547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0013	J	0.500	0.472		mg/L		94	75 - 125
Thallium	<0.00057		0.100	0.0992		mg/L		99	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-256166-3 DU
Matrix: Solid
Analysis Batch: 802739

Client Sample ID: SB32 (0-3)
Prep Type: SPLP East
Prep Batch: 802547

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	0.0013	J		<0.0013		mg/L				NC	20
Thallium	<0.00057			<0.00057		mg/L				NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-630675/2-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 09:26	1

Lab Sample ID: LCS 240-630675/3-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630675

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00500	0.00458		mg/L		92	80 - 120		

Lab Sample ID: LB 240-630579/1-C
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630675

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 09:25	1

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-7

Client Sample ID: SB31 (0-3)
Date Collected: 09/04/24 08:37
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802980	RJ	EET CHI	01/15/25 13:38 - 01/16/25 07:38 [1]
SPLP East	Prep	3010A			803176	S1Z	EET CHI	01/16/25 14:21 - 01/16/25 20:21 [1]
SPLP East	Analysis	6010D		1	803427	RB	EET CHI	01/17/25 13:58
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6010D		1	792920	SJ	EET CHI	10/29/24 13:21
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 14:24

Client Sample ID: SB32 (0-3)
Date Collected: 09/04/24 09:47
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 21:07
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6020B		1	802739	RN	EET CHI	01/13/25 17:29

Client Sample ID: SB32 (5-7.5)
Date Collected: 09/04/24 10:00
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 21:25
TCLP	Leach	1311			803946	JL	EET CHI	01/23/25 15:38 - 01/24/25 09:38 [1]
TCLP	Prep	3010A			804147	S1Z	EET CHI	01/24/25 14:31 - 01/24/25 20:31 [1]
TCLP	Analysis	6010D		1	804398	RB	EET CHI	01/27/25 18:27
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6020B		1	802739	RN	EET CHI	01/13/25 17:44

Client Sample ID: SB33 (0-3)
Date Collected: 09/04/24 10:42
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 21:29

Client Sample ID: SB33 (0-3)
Lab Sample ID: 500-256166-5
Date Collected: 09/04/24 10:42
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6010D		1	802692	SJ	EET CHI	01/13/25 13:48
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 14:40

Client Sample ID: SB33 (5-7.5)
Lab Sample ID: 500-256166-6
Date Collected: 09/04/24 10:57
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 21:34
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6010D		1	802692	SJ	EET CHI	01/13/25 13:53
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 14:44

Client Sample ID: SB34 (0-3)
Lab Sample ID: 500-256166-7
Date Collected: 09/04/24 11:49
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 21:38
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6010D		1	802692	SJ	EET CHI	01/13/25 13:57
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 14:59

Client Sample ID: SB35 (0-3)
Lab Sample ID: 500-256166-9
Date Collected: 09/04/24 13:39
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 21:51

Client Sample ID: SB35 (0-3)
Lab Sample ID: 500-256166-9
Date Collected: 09/04/24 13:39
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6010D		1	802692	SJ	EET CHI	01/13/25 14:02
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 15:03

Client Sample ID: SB35 (7.5-10)
Lab Sample ID: 500-256166-10
Date Collected: 09/04/24 13:59
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 21:55
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6010D		1	802692	SJ	EET CHI	01/13/25 14:06
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 15:07

Client Sample ID: SB36 (0-3)
Lab Sample ID: 500-256166-11
Date Collected: 09/04/24 14:41
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			640187	KLE	EET CLE	12/29/24 16:00 - 12/30/24 08:35 [1]
SPLP East	Prep	3010A			640243	S4FJ	EET CLE	12/30/24 14:00
SPLP East	Analysis	6020B		1	640493	AJC	EET CLE	12/31/24 19:44
TCLP	Leach	1311			630579	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630669	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6020B		1	630899	AJC	EET CLE	10/15/24 12:53
TCLP	Leach	1311			630579	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	7470A			630675	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	7470A		1	630895	TQ6W	EET CLE	10/15/24 09:47

Client Sample ID: SB36 (5-7.5)
Lab Sample ID: 500-256166-12
Date Collected: 09/04/24 14:58
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			633697	DRJ	EET CLE	11/03/24 15:50 - 11/04/24 08:20 [1]
SPLP East	Prep	3010A			633805	BN	EET CLE	11/04/24 14:00
SPLP East	Analysis	6010D		1	634193	KLC	EET CLE	11/06/24 06:31

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-7

Client Sample ID: SB36 (5-7.5)

Date Collected: 09/04/24 14:58
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			630579	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630669	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/16/24 00:04
TCLP	Leach	1311			635600	DRJ	EET CLE	11/17/24 15:05 - 11/18/24 09:00 [1]
TCLP	Prep	3010A			635683	S4FJ	EET CLE	11/18/24 14:00
TCLP	Analysis	6020B		1	635973	AJC	EET CLE	11/19/24 14:50
TCLP	Leach	1311			640346	KLE	EET CLE	12/30/24 15:30 - 12/31/24 09:05 [1]
TCLP	Prep	3010A			640405	MN7X	EET CLE	12/31/24 14:00
TCLP	Analysis	6020B		1	640570	AJC	EET CLE	01/02/25 15:11

Client Sample ID: SB37 (0-3)

Date Collected: 09/04/24 09:42
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 22:00
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6010D		1	802692	SJ	EET CHI	01/13/25 14:11
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 15:11

Client Sample ID: SB37 (12.5-15)

Date Collected: 09/04/24 09:48
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 22:04
TCLP	Leach	1311			803946	JL	EET CHI	01/23/25 15:38 - 01/24/25 09:38 [1]
TCLP	Prep	3010A			804147	S1Z	EET CHI	01/24/25 14:31 - 01/24/25 20:31 [1]
TCLP	Analysis	6010D		1	804398	RB	EET CHI	01/27/25 18:00
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6020B		1	802739	RN	EET CHI	01/13/25 17:47

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-7

Client Sample ID: SB38 (0-3)
Date Collected: 09/04/24 10:11
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 22:08
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6010D		1	802692	SJ	EET CHI	01/13/25 14:16

Client Sample ID: SB38 (12.5-15)
Date Collected: 09/04/24 10:14
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6020B		1	802739	RN	EET CHI	01/13/25 17:49

Client Sample ID: SB39 (0-3)
Date Collected: 09/04/24 10:30
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 22:13
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6010D		1	802692	SJ	EET CHI	01/13/25 14:20
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 15:14

Client Sample ID: SB39 (7.5-10)
Date Collected: 09/04/24 10:41
Date Received: 09/05/24 11:17

Lab Sample ID: 500-256166-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			807590	TJ	EET CHI	02/25/25 13:03 - 02/26/25 07:03 [1]
TCLP	Prep	3010A			807791	S1Z	EET CHI	02/26/25 12:46 - 02/26/25 16:46 [1]
TCLP	Analysis	6010D		1	808677	RB	EET CHI	03/05/25 06:07
TCLP	Leach	1311			807590	TJ	EET CHI	02/25/25 13:03 - 02/26/25 07:03 [1]
TCLP	Prep	3010A			807791	S1Z	EET CHI	02/26/25 12:46 - 02/26/25 16:46 [1]
TCLP	Analysis	6010D		1	809032	RB	EET CHI	03/07/25 05:14
TCLP	Leach	1311			807590	TJ	EET CHI	02/25/25 13:03 - 02/26/25 07:03 [1]
TCLP	Prep	3010A			807791	S1Z	EET CHI	02/26/25 12:46 - 02/26/25 16:46 [1]
TCLP	Analysis	6010D		1	809125	SJ	EET CHI	03/07/25 13:53

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-7

Client Sample ID: SB39 (7.5-10)

Lab Sample ID: 500-256166-18
Matrix: Solid
Date Collected: 09/04/24 10:41
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			807590	TJ	EET CHI	02/25/25 13:03 - 02/26/25 07:03 ¹
TCLP	Prep	3010A			807791	S1Z	EET CHI	02/26/25 12:46 - 02/26/25 16:46 ¹
TCLP	Analysis	6020B		1	808757	RN	EET CHI	03/05/25 14:43

Client Sample ID: SB40 (0-3)

Lab Sample ID: 500-256166-19
Matrix: Solid
Date Collected: 09/04/24 10:52
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 ¹
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 ¹
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 22:17
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 ¹
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 ¹
TCLP	Analysis	6010D		1	802692	SJ	EET CHI	01/13/25 14:34
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 ¹
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 ¹
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 15:18

Client Sample ID: SB40 (5-7.5)

Lab Sample ID: 500-256166-20
Matrix: Solid
Date Collected: 09/04/24 11:12
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 ¹
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 ¹
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 22:21
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 ¹
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 ¹
TCLP	Analysis	6010D		1	802692	SJ	EET CHI	01/13/25 14:38
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 ¹
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 ¹
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 15:22

Client Sample ID: SB41 (0-3)

Lab Sample ID: 500-256166-21
Matrix: Solid
Date Collected: 09/04/24 11:36
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			807590	TJ	EET CHI	02/25/25 13:03 - 02/26/25 07:03 ¹
TCLP	Prep	3010A			807791	S1Z	EET CHI	02/26/25 12:46 - 02/26/25 16:46 ¹
TCLP	Analysis	6010D		1	808677	RB	EET CHI	03/05/25 06:12
TCLP	Leach	1311			807590	TJ	EET CHI	02/25/25 13:03 - 02/26/25 07:03 ¹
TCLP	Prep	3010A			807791	S1Z	EET CHI	02/26/25 12:46 - 02/26/25 16:46 ¹
TCLP	Analysis	6010D		1	809032	RB	EET CHI	03/07/25 05:18

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256166-7

Client Sample ID: SB41 (0-3)

Lab Sample ID: 500-256166-21
Matrix: Solid
Date Collected: 09/04/24 11:36
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			807590	TJ	EET CHI	02/25/25 13:03 - 02/26/25 07:03 [1]
TCLP	Prep	3010A			807791	S1Z	EET CHI	02/26/25 12:46 - 02/26/25 16:46 [1]
TCLP	Analysis	6010D		1	809125	SJ	EET CHI	03/07/25 13:57

Client Sample ID: SB41 (5-7.5)

Lab Sample ID: 500-256166-22
Matrix: Solid
Date Collected: 09/04/24 11:42
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 22:26
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6010D		1	802692	SJ	EET CHI	01/13/25 14:43
TCLP	Leach	1311			802451	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
TCLP	Prep	3010A			802546	S1Z	EET CHI	01/12/25 16:23 - 01/12/25 22:23 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 15:26

Client Sample ID: SB42 (0-3)

Lab Sample ID: 500-256166-23
Matrix: Solid
Date Collected: 09/04/24 12:43
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			632368	DRJ	EET CLE	10/24/24 17:10 - 10/25/24 09:25 [1]
SPLP East	Prep	3010A			632464	BN	EET CLE	10/25/24 14:00
SPLP East	Analysis	6020B		1	632808	AJC	EET CLE	10/28/24 16:40
TCLP	Leach	1311			630579	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630669	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6020B		1	630899	AJC	EET CLE	10/15/24 12:55

Client Sample ID: SB42 (7.5-10)

Lab Sample ID: 500-256166-24
Matrix: Solid
Date Collected: 09/04/24 12:52
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 22:30

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB43 (0-3)
Lab Sample ID: 500-256166-25
Date Collected: 09/04/24 13:42
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 22:43
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6020B		1	802739	RN	EET CHI	01/13/25 17:52

Client Sample ID: SB43 (10-12.5)
Lab Sample ID: 500-256166-26
Date Collected: 09/04/24 13:47
Matrix: Solid
Date Received: 09/05/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6010D		1	802754	RB	EET CHI	01/13/25 22:48
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 13:06
SPLP East	Leach	1312			802439	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802547	S1Z	EET CHI	01/12/25 16:24 - 01/12/25 22:24 [1]
SPLP East	Analysis	6020B		1	802739	RN	EET CHI	01/13/25 17:54

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256166-7
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	02-13-25

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24
Wisconsin	State	399167560	08-31-25

Chain of Custody Record 720436

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jason Harrison	Site Contact	Date:
Company Name: PIONEER	Tel/Email: JHarrison@pioneertech.com	Lab Contact	Carrier:
Address	Analysis Turnaround Time		COC No: 1 of 5 COCs
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS		Sampler
Phone	TAT if different from Below		For Lab Use Only:
Fax	☒ 2 weeks		Walk-in Client
Project Name: 8080 S Lake Shore Dr	☐ 1 week		Lab Sampling
Site	☐ 2 days		Job / SDG No: 500-256166
P O #: 24-0124-103	☐ 1 day		

500-256166 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCH	Sample Specific Notes
1	SB31 (0-3)	9/4/24	837	G	SO	4			X	
2	SB31 (7.5-10)		859						X	
3	SB32 (0-3)		947							
4	SB32 (5-7.5)		1000							
5	SB33 (0-3)		1042							
6	SB33 (5-7.5)		1057							
7	SB34 (0-3)		1149							
8	SB34 (5-7.5)		1208							
9	SB35 (0-3)		139							
10	SB35 (7.5-10)		159							
11	SB36 (0-3)		241							
12	SB36 (5-7.5)		258							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

3.6+3.3, 0.9+0.6

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	9/5/24	Received by	EETA	9/5/24 0915
Relinquished by	EETA 9/5/24	1117	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by: Stephanie Hernandez	EETA	9/6/24 1117

4/14/2025

Chain of Custody Record 719718

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager:	Site Contact	Date:	COC No 2
Company Name Pioneer	Tel/Email:	Lab Contact:	Carrier	2 of 3 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip 2753 W 31st St.	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name 8080 S. Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO# 24-0124-103	☐ 1 day			500-256166

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL, pH	Sample Specific Notes
13	SB37(0-3)	9/4/24	9:42am	G	S	4			X	
14	SB37(12.5-15)		9:48am						X	
15	SB38(0-3)		10.11am						X	
16	SB38(12.5-15)		10.14am						X	
17	SB39(0-3)		10:30am						X	
18	SB39(7.5-10)		10:46am						X	
19	SB40(0-3)		10:52am						X	
20	SB40(5-7.5)		11.12am						X	
21	SB41(0-3)		11.36am						X	
22	SB41(5-7.5)		11.42am						X	
23	SB42(0-3)		12:43am						X	
24	SB42(7.5-10)		12:52am						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pioneer	9/5/24	[signature]	EETA	9/5/24 0915
[signature]	EETA 9/5/24	1117			
			Received in Laboratory by Stephanie Hemanay	EETA	9/5/24 1117

4/14/2025

Chain of Custody Record 719719

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jakob Hartsock	Site Contact	Date:	COC No 3
Company Name Pioneer	Tel/Email Hartsock@pioneerwoods	Lab Contact	Carrier.	3 of 3 COCs
Address 2753 W 31st St.	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name 8080 S Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO# 24-0124-103	☐ 1 day			500-256166

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TCL, pH	Sample Specific Notes
25	SB43 (0 3)	9/4/24	1:47 pm	G	S	4			X	
26	SB43 (10-12.5)	↓	1:47 pm	↓	↓	4			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pioneer	9/5/24	[signature]	EETA	9/5/24 0915
[signature]	EETA 9/5/24	1117			
			Received in Laboratory by Stephanie Hernandez	EETA	9/5/24 1117

4/14/2025

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256166-7

Login Number: 256166
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3,0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/14/2025 5:32:33 PM Revision 1

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256275-8

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/14/2025 5:32:33 PM
Revision 1

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256275-2 — Eurofins Chicago

Job Narrative
500-256275-2

Revision
The report being provided is a revision of the original report sent on 10/17/2024. The report (revision 1) is being revised due to: The report and EDD have been revised to include other TCLP and SPLP results per client request..

Receipt
The samples were received on 9/6/2024 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

Receipt Exceptions

The sample date on page 2 of the COC is incorrect. The correct sample date is 9/5/24.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256275-3 — Eurofins Chicago

Job Narrative
500-256275-3

REVISION

The report being provided is a revision of the original report sent on 10/31/2024. The report (revision 2) is being revised due to Add TCLP Be to SB46 (3-5) per client request.

Report revision history
Revision 1 - 1/17/2025 - Reason - Add addtional TCLP analytes per client request.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/6/2024 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C.

Receipt Exceptions
The sample date on page 2 of the COC is incorrect. The correct sample date is 9/5/24.

Metals
Method 6010D - TCLP: The result for Lead recovered more negative than the reporting limit. The result was less than two times the reporting limit. The sample has been qualified and reported.

SB46 (3-5) (500-256275-6)

Method 6020B - TCLP: The initial low level calibration verification (ICVL) result for batch 500-793227 was above the upper control limit. The affected analytes are: Silver. Sample results were non-detects, and have been reported as qualified data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 500-256275-4 — Eurofins Chicago

Job Narrative
500-256275-4

Revision
The report being provided is a revision of the original report sent on 11/8/2024. The report (revision 2) is being revised due to: Add SPLP Fe/Pb to samples per client request.

Report revision history
Revision 1 - 1/21/2025 - Reason - Add additional SPLP analytes per client request.

Receipt
The samples were received on 9/6/2024 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

Receipt Exceptions

The sample date on page 2 of the COC is incorrect. The correct sample date is 9/5/24.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256275-5 — Eurofins Chicago

Job Narrative
500-256275-5

Revision
The report being provided is a revision of the original report sent on 12/2/2024. The report (revision 1) is being revised due to: Add additional TCLP analytes per client request.

Receipt
The samples were received on 9/6/2024 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

Receipt Exceptions

The sample date on page 2 of the COC is incorrect. The correct sample date is 9/5/24.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256275-6 — Eurofins Chicago

Job Narrative
500-256275-6

Receipt
The samples were received on 9/6/2024 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

Receipt Exceptions
The sample date on page 2 of the COC is incorrect. The correct sample date is 9/5/24.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256275-7 — Eurofins Chicago

Job Narrative
500-256275-7

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 2) is being revised due to: Add additional TCLP/SPLP analytes to selected samples per client request.

Report revision history
Revision 1 - 1/29/2025 - Reason - Add SPLP Fe, Pb to SB46 (0-3) and TCLP Mn to SB53 (0-3) per client request.

Receipt
The samples were received on 9/6/2024 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1º C.

Receipt Exceptions

The sample date on page 2 of the COC is incorrect. The correct sample date is 9/5/24.

Metals
Method 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 500-802847, the temperature dropped below this range to 17.4 degrees Celsius. This was due to extreme cold outside and our heating system not maintaining temperature overnight. As a result, the test was not compliant with the requirements of 40 CFR Part 261.

Method 1312: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 500-802813, the temperature was outside of this range. As a result, the test was not compliant with the requirements of 40 CFR Part 261.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256275-8 — Eurofins Chicago

Job Narrative
500-256275-8

Revision
The report being provided is a revision of the original report sent on 1/29/2025. The report (revision 1) is being revised due to: Add TCLP Zinc per client request.

Receipt
The samples were received on 9/6/2024 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

Receipt Exceptions

The sample date on page 2 of the COC is incorrect. The correct sample date is 9/5/24.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB44 (0-3) — Lab Sample ID: 500-256275-1

No Detections.

Client Sample ID: SB44 (5-7.5) — Lab Sample ID: 500-256275-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.065	J	0.10	0.020	mg/L	1		6010D	TCLP
Iron	1.1		0.20	0.20	mg/L	1		6010D	SPLP East
Lead	0.0083		0.0075	0.0075	mg/L	1		6010D	SPLP East

Client Sample ID: SB45 (0-3) — Lab Sample ID: 500-256275-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.12		0.0060		mg/L	1		6020B	TCLP
Iron	0.49		0.10		mg/L	1		6020B	TCLP
Lead	0.059		0.00050		mg/L	1		6020B	TCLP
Antimony	0.0071		0.0060		mg/L	1		6020B	SPLP East

Client Sample ID: SB45 (5-7.5) — Lab Sample ID: 500-256275-4

No Detections.

Client Sample ID: SB46 (0-3) — Lab Sample ID: 500-256275-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.043		0.025		mg/L	1		6010D	TCLP
Iron	5.6		0.20		mg/L	1		6010D	TCLP
Lead	0.029		0.0075		mg/L	1		6010D	TCLP
Nickel	0.042		0.025		mg/L	1		6010D	TCLP

Client Sample ID: SB46 (3-5) — Lab Sample ID: 500-256275-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.038		0.025		mg/L	1		6010D	TCLP
Copper	0.038		0.025		mg/L	1		6010D	TCLP
Iron	9.3		0.20		mg/L	1		6010D	TCLP
Nickel	0.34		0.025		mg/L	1		6010D	TCLP
Iron	0.30		0.20		mg/L	1		6010D	SPLP East
Antimony	0.0058	J	0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB47 (0-3) — Lab Sample ID: 500-256275-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.036		0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.012	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.056	J F1	0.10	0.020	mg/L	1		6010D	TCLP
Antimony	0.0037	J	0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB47 (7.5-10) — Lab Sample ID: 500-256275-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.54		0.20	0.20	mg/L	1		6010D	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.19		0.10	0.020	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB48 (0-3) — Lab Sample ID: 500-256275-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.074	J	0.10	0.020	mg/L	1		6010D	TCLP

Client Sample ID: SB48 (5-7.5) — Lab Sample ID: 500-256275-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.00048	J B	0.0010	0.000077	mg/L	1		6020B	TCLP
Chromium	0.036		0.0050	0.0012	mg/L	1		6020B	TCLP
Copper	0.0080		0.0020	0.0017	mg/L	1		6020B	TCLP
Nickel	0.0074		0.0020	0.0015	mg/L	1		6020B	TCLP
Selenium	0.0018	J	0.0050	0.00089	mg/L	1		6020B	TCLP

Client Sample ID: SB49 (0-3) — Lab Sample ID: 500-256275-11

No Detections.

Client Sample ID: SB49 (10-12.5) — Lab Sample ID: 500-256275-12

No Detections.

Client Sample ID: SB50 (0-3) — Lab Sample ID: 500-256275-13

No Detections.

Client Sample ID: SB50 (7.5-10) — Lab Sample ID: 500-256275-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.031		0.0060		mg/L	1		6020B	TCLP
Chromium	0.0051		0.0050		mg/L	1		6020B	TCLP
Iron	20		0.10		mg/L	1		6020B	TCLP
Lead	0.083		0.00050		mg/L	1		6020B	TCLP
Antimony	0.016		0.0060		mg/L	1		6020B	SPLP East
Iron	0.20		0.10		mg/L	1		6020B	SPLP East
Lead	0.00076		0.00050		mg/L	1		6020B	SPLP East
Manganese	0.0046		0.0025		mg/L	1		6020B	SPLP East

Client Sample ID: SB51 (0-3) — Lab Sample ID: 500-256275-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.15		0.025		mg/L	1		6010D	TCLP
Iron	18		0.20		mg/L	1		6010D	TCLP
Lead	0.12		0.0075		mg/L	1		6010D	TCLP
Nickel	0.12		0.025		mg/L	1		6010D	TCLP
Iron	2.1		0.20		mg/L	1		6010D	SPLP East
Lead	0.015		0.0075		mg/L	1		6010D	SPLP East
Manganese	0.089		0.025		mg/L	1		6010D	SPLP East

Client Sample ID: SB51 (5-7.5) — Lab Sample ID: 500-256275-16

No Detections.

Client Sample ID: SB52 (0-3) — Lab Sample ID: 500-256275-17

No Detections.

Client Sample ID: SB52 (7.5-10) — Lab Sample ID: 500-256275-18

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB53 (0-3) — Lab Sample ID: 500-256275-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.8	B	0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.014	J	0.025	0.010	mg/L	1		6010D	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB53 (10-12.5) — Lab Sample ID: 500-256275-20

No Detections.

Client Sample ID: SB54 (0-3) — Lab Sample ID: 500-256275-21

No Detections.

Client Sample ID: SB54 (10-12.5) — Lab Sample ID: 500-256275-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.75		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.029	B	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB55 (0-3) — Lab Sample ID: 500-256275-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.020	J	0.049	0.0056	mg/L	1		6010D	SPLP East
Chromium	0.037		0.0050	0.0012	mg/L	1		6020B	TCLP
Copper	0.0060		0.0020	0.0017	mg/L	1		6020B	TCLP
Selenium	0.0014	J	0.0050	0.00089	mg/L	1		6020B	TCLP
Vanadium	0.16		0.020	0.00082	mg/L	1		6020B	TCLP

Client Sample ID: SB55 (5-7.5) — Lab Sample ID: 500-256275-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1.0		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.10	B	0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0013	J	0.0060	0.0013	mg/L	1		6020B	SPLP East

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CLE
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
1312	Synthetic Precipitation Leaching Procedure -East (Metals)	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256275-1	SB44 (0-3)	Solid	09/05/24 09:43	09/06/24 12:35
500-256275-2	SB44 (5-7.5)	Solid	09/05/24 09:52	09/06/24 12:35
500-256275-3	SB45 (0-3)	Solid	09/05/24 10:15	09/06/24 12:35
500-256275-4	SB45 (5-7.5)	Solid	09/05/24 10:36	09/06/24 12:35
500-256275-5	SB46 (0-3)	Solid	09/05/24 10:52	09/06/24 12:35
500-256275-6	SB46 (3-5)	Solid	09/05/24 11:07	09/06/24 12:35
500-256275-7	SB47 (0-3)	Solid	09/05/24 11:17	09/06/24 12:35
500-256275-8	SB47 (7.5-10)	Solid	09/05/24 11:26	09/06/24 12:35
500-256275-9	SB48 (0-3)	Solid	09/05/24 11:47	09/06/24 12:35
500-256275-10	SB48 (5-7.5)	Solid	09/05/24 11:52	09/06/24 12:35
500-256275-11	SB49 (0-3)	Solid	09/05/24 12:43	09/06/24 12:35
500-256275-12	SB49 (10-12.5)	Solid	09/05/24 13:07	09/06/24 12:35
500-256275-13	SB50 (0-3)	Solid	09/05/24 13:47	09/06/24 12:35
500-256275-14	SB50 (7.5-10)	Solid	09/05/24 13:58	09/06/24 12:35
500-256275-15	SB51 (0-3)	Solid	09/05/24 10:00	09/06/24 12:35
500-256275-16	SB51 (5-7.5)	Solid	09/05/24 10:30	09/06/24 12:35
500-256275-17	SB52 (0-3)	Solid	09/05/24 11:20	09/06/24 12:35
500-256275-18	SB52 (7.5-10)	Solid	09/05/24 11:30	09/06/24 12:35
500-256275-19	SB53 (0-3)	Solid	09/05/24 13:00	09/06/24 12:35
500-256275-20	SB53 (10-12.5)	Solid	09/05/24 13:30	09/06/24 12:35
500-256275-21	SB54 (0-3)	Solid	09/05/24 14:00	09/06/24 12:35
500-256275-22	SB54 (10-12.5)	Solid	09/05/24 14:30	09/06/24 12:35
500-256275-23	SB55 (0-3)	Solid	09/05/24 15:00	09/06/24 12:35
500-256275-24	SB55 (5-7.5)	Solid	09/05/24 15:30	09/06/24 12:35

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB44 (0-3)
Lab Sample ID: 500-256275-1
Date Collected: 09/05/24 09:43
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:07	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB44 (5-7.5)
Lab Sample ID: 500-256275-2

Date Collected: 09/05/24 09:52
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/25 14:31	01/27/25 18:32	1
Zinc	**0.065**	**J**	0.10	0.020	mg/L		01/24/25 14:31	01/27/25 18:32	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.1**		0.20	0.20	mg/L		01/13/25 14:20	01/14/25 13:11	1
Lead	**0.0083**		0.0075	0.0075	mg/L		01/13/25 14:20	01/14/25 13:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB45 (0-3)
Lab Sample ID: 500-256275-3

Date Collected: 09/05/24 10:15
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.12		0.0060		mg/L		11/26/24 09:26	11/27/24 14:36	1
Iron	0.49		0.10		mg/L		11/26/24 09:26	11/27/24 14:36	1
Lead	0.059		0.00050		mg/L		11/26/24 09:26	11/27/24 14:36	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0071		0.0060		mg/L		12/10/24 14:10	12/11/24 12:37	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB45 (5-7.5)
Lab Sample ID: 500-256275-4

Date Collected: 09/05/24 10:36
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:20	01/14/25 13:15	1
Manganese	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:15	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:20	01/14/25 17:45	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB46 (0-3)
Lab Sample ID: 500-256275-5
Date Collected: 09/05/24 10:52
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.043**		0.025		mg/L		10/29/24 14:15	10/30/24 13:11	1
Iron	**5.6**		0.20		mg/L		10/29/24 14:15	10/30/24 13:11	1
Lead	**0.029**		0.0075		mg/L		10/29/24 14:15	10/30/24 13:11	1
Nickel	**0.042**		0.025		mg/L		10/29/24 14:15	10/30/24 13:11	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 13:11	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:14	01/16/25 11:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/15/25 14:14	01/16/25 11:06	1
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 11:06	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:11	01/16/25 16:19	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB46 (3-5)
Lab Sample ID: 500-256275-6

Date Collected: 09/05/24 11:07
Matrix: Solid

Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 13:25	1
Beryllium	<0.0040		0.0040		mg/L		10/28/24 15:40	10/29/24 13:25	1
Cadmium	<0.0050		0.0050		mg/L		10/28/24 15:40	10/29/24 13:25	1
Chromium	**0.038**		0.025		mg/L		10/28/24 15:40	10/29/24 13:25	1
Cobalt	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 13:25	1
Copper	**0.038**		0.025		mg/L		10/28/24 15:40	10/29/24 13:25	1
Iron	**9.3**		0.20		mg/L		10/28/24 15:40	10/29/24 13:25	1
Lead	<0.0075		0.0075		mg/L		10/28/24 15:40	10/29/24 13:25	1
Nickel	**0.34**		0.025		mg/L		10/28/24 15:40	10/29/24 13:25	1
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 13:25	1
Silver	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 13:25	1
Vanadium	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 13:25	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.30**		0.20		mg/L		11/06/24 08:43	01/23/25 12:27	1
Manganese	<0.025		0.025		mg/L		11/06/24 08:43	11/07/24 00:07	1
Nickel	<0.025		0.025		mg/L		11/06/24 08:43	11/07/24 00:07	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0058**	**J**	0.0060	0.0013	mg/L		10/28/24 15:40	01/16/25 14:42	1
Thallium	<0.00057		0.0020	0.00057	mg/L		10/28/24 15:40	01/16/25 14:42	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB47 (0-3)
Lab Sample ID: 500-256275-7

Date Collected: 09/05/24 11:17
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:18	01/14/25 11:31	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/13/25 14:18	01/14/25 11:31	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:31	1
Copper	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:31	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 16:25	1
Lead	<0.038	F1	0.038	0.038	mg/L		01/13/25 14:18	01/15/25 11:47	5
Nickel	**0.036**		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:31	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 11:31	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:31	1
Vanadium	**0.012**	**J**	0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:31	1
Zinc	**0.056**	**J F1**	0.10	0.020	mg/L		01/13/25 14:18	01/14/25 16:25	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:20	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0037**	**J**	0.0060	0.0013	mg/L		01/13/25 14:18	01/15/25 19:01	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 19:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB47 (7.5-10)
Lab Sample ID: 500-256275-8
Date Collected: 09/05/24 11:26
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:18	01/14/25 11:49	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/13/25 14:18	01/14/25 11:49	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:49	1
Copper	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:49	1
Iron	**0.54**		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 16:43	1
Lead	<0.038		0.038	0.038	mg/L		01/13/25 14:18	01/15/25 12:04	5
Nickel	**0.017**	**J**	0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:49	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 11:49	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:49	1
Vanadium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:49	1
Zinc	**0.19**		0.10	0.020	mg/L		01/13/25 14:18	01/14/25 16:43	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:24	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 19:16	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB48 (0-3)
Lab Sample ID: 500-256275-9
Date Collected: 09/05/24 11:47
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:18	01/14/25 12:02	1
Nickel	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:02	1
Zinc	**0.074**	**J**	0.10	0.020	mg/L		01/13/25 14:18	01/14/25 16:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB48 (5-7.5)
Lab Sample ID: 500-256275-10

Date Collected: 09/05/24 11:52
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<1.0		1.0		mg/L		10/14/24 14:00	10/15/24 19:52	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0026		0.015	0.0026	mg/L		12/30/24 14:00	01/01/25 03:34	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 15:14	1
Cadmium	**0.00048**	**J B**	0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 15:14	1
Chromium	**0.036**		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 15:14	1
Copper	**0.0080**		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 15:14	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 15:14	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 15:14	1
Nickel	**0.0074**		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 15:14	1
Selenium	**0.0018**	**J**	0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 15:14	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 15:14	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 15:14	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB49 (0-3)
Lab Sample ID: 500-256275-11
Date Collected: 09/05/24 12:43
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:20	01/14/25 13:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/13/25 14:20	01/14/25 13:28	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:28	1
Copper	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:28	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:20	01/14/25 13:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:20	01/14/25 13:28	1
Manganese	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:28	1
Nickel	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:28	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:20	01/14/25 13:28	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:28	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:20	01/14/25 17:47	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB49 (10-12.5)
Lab Sample ID: 500-256275-12

Date Collected: 09/05/24 13:07
Matrix: Solid

Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:07	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 12:07	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 12:07	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:33	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 19:20	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB50 (0-3)
Lab Sample ID: 500-256275-13

Date Collected: 09/05/24 13:47
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:18	01/14/25 12:12	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/13/25 14:18	01/14/25 12:12	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:12	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 12:12	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 12:12	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:12	1
Zinc	<0.020		0.10	0.020	mg/L		01/13/25 14:18	01/14/25 16:52	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:37	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 19:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB50 (7.5-10)
Lab Sample ID: 500-256275-14

Date Collected: 09/05/24 13:58
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.031**		0.0060		mg/L		10/29/24 14:15	10/30/24 16:31	1
Cadmium	<0.00050		0.00050		mg/L		10/29/24 14:15	10/30/24 16:31	1
Chromium	**0.0051**		0.0050		mg/L		10/29/24 14:15	10/30/24 16:31	1
Iron	**20**		0.10		mg/L		10/29/24 14:15	10/30/24 16:31	1
Lead	**0.083**		0.00050		mg/L		10/29/24 14:15	10/30/24 16:31	1
Selenium	<0.0025		0.0025		mg/L		10/29/24 14:15	10/30/24 16:31	1
Silver	<0.00050	^1+	0.00050		mg/L		10/29/24 14:15	10/30/24 16:31	1
Thallium	<0.0020		0.0020		mg/L		10/29/24 14:15	10/30/24 16:31	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.016**		0.0060		mg/L		11/06/24 08:43	11/07/24 17:07	1
Iron	**0.20**		0.10		mg/L		11/06/24 08:43	11/07/24 17:07	1
Lead	**0.00076**		0.00050		mg/L		11/06/24 08:43	11/07/24 17:07	1
Manganese	**0.0046**		0.0025		mg/L		11/06/24 08:43	11/07/24 17:07	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB51 (0-3)
Lab Sample ID: 500-256275-15
Date Collected: 09/05/24 10:00
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 13:15	1
Chromium	**0.15**		0.025		mg/L		10/29/24 14:15	10/30/24 13:15	1
Cobalt	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 13:15	1
Iron	**18**		0.20		mg/L		10/29/24 14:15	10/30/24 13:15	1
Lead	**0.12**		0.0075		mg/L		10/29/24 14:15	10/30/24 13:15	1
Nickel	**0.12**		0.025		mg/L		10/29/24 14:15	10/30/24 13:15	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 13:15	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025		mg/L		11/06/24 08:43	11/07/24 00:11	1
Iron	**2.1**		0.20		mg/L		11/06/24 08:43	01/23/25 12:31	1
Lead	**0.015**		0.0075		mg/L		11/06/24 08:43	11/07/24 00:11	1
Manganese	**0.089**		0.025		mg/L		11/06/24 08:43	11/07/24 00:11	1
Nickel	<0.025		0.025		mg/L		11/06/24 08:43	11/07/24 00:11	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060		mg/L		10/29/24 14:15	10/30/24 16:34	1
Thallium	<0.0020		0.0020		mg/L		10/29/24 14:15	10/30/24 16:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB51 (5-7.5)
Lab Sample ID: 500-256275-16

Date Collected: 09/05/24 10:30
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:16	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 12:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:18	01/14/25 12:16	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 12:16	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:50	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 19:39	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB52 (0-3)
Lab Sample ID: 500-256275-17
Date Collected: 09/05/24 11:20
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:18	01/14/25 12:21	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:21	1
Copper	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:21	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 12:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:18	01/14/25 12:21	1
Nickel	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:21	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 12:21	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:21	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:55	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 19:43	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB52 (7.5-10)
Lab Sample ID: 500-256275-18

Date Collected: 09/05/24 11:30
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 13:20	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:59	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:20	01/14/25 13:59	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB53 (0-3)
Lab Sample ID: 500-256275-19

Date Collected: 09/05/24 13:00
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:18	01/14/25 12:25	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/13/25 14:18	01/14/25 12:25	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:25	1
Cobalt	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:25	1
Copper	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:25	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 12:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:18	01/14/25 12:25	1
Manganese	**2.8**	**B**	0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:25	1
Nickel	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:25	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 12:25	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:25	1
Vanadium	**0.014**	**J**	0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:25	1
Zinc	<0.020		0.10	0.020	mg/L		01/13/25 14:18	01/14/25 16:57	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.26**		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:14	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 19:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB53 (10-12.5)
Lab Sample ID: 500-256275-20
Date Collected: 09/05/24 13:30
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:20	01/14/25 12:32	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB54 (0-3)
Lab Sample ID: 500-256275-21
Date Collected: 09/05/24 14:00
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:30	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 12:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:18	01/14/25 12:30	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 12:30	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 13:29	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 19:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB54 (10-12.5)
Lab Sample ID: 500-256275-22
Date Collected: 09/05/24 14:30
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.75**		0.20	0.20	mg/L		01/14/25 14:21	01/15/25 13:33	1
Manganese	**0.029**	**B**	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 13:33	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 13:33	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 19:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB55 (0-3)
Lab Sample ID: 500-256275-23

Date Collected: 09/05/24 15:00
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.040		0.040		mg/L		10/14/24 14:00	10/15/24 19:57	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0026		0.015	0.0026	mg/L		12/30/24 14:00	01/01/25 03:56	1
Vanadium	**0.020**	**J**	0.049	0.0056	mg/L		12/30/24 14:00	01/01/25 03:56	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 15:17	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 15:17	1
Chromium	**0.037**		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 15:17	1
Copper	**0.0060**		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 15:17	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 15:17	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 15:17	1
Selenium	**0.0014**	**J**	0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 15:17	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 15:17	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 15:17	1
Vanadium	**0.16**		0.020	0.00082	mg/L		12/31/24 14:00	01/02/25 15:17	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB55 (5-7.5)
Lab Sample ID: 500-256275-24
Date Collected: 09/05/24 15:30
Matrix: Solid
Date Received: 09/06/24 12:35

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.0**		0.20	0.20	mg/L		01/14/25 14:21	01/15/25 13:38	1
Manganese	**0.10**	**B**	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 13:38	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 13:38	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0013**	**J**	0.0060	0.0013	mg/L		01/14/25 14:21	01/15/25 19:13	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 19:13	1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 630581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-10	SB48 (5-7.5)	TCLP	Solid	1311	
500-256275-23	SB55 (0-3)	TCLP	Solid	1311	
LB 240-630581/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 630682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-10	SB48 (5-7.5)	TCLP	Solid	3010A	630581
500-256275-23	SB55 (0-3)	TCLP	Solid	3010A	630581
LB 240-630581/1-B	Method Blank	TCLP	Solid	3010A	630581
MB 240-630682/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630682/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 630918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-10	SB48 (5-7.5)	TCLP	Solid	6010D	630682
500-256275-23	SB55 (0-3)	TCLP	Solid	6010D	630682
LB 240-630581/1-B	Method Blank	TCLP	Solid	6010D	630682
MB 240-630682/2-A	Method Blank	Total/NA	Solid	6010D	630682
LCS 240-630682/3-A	Lab Control Sample	Total/NA	Solid	6010D	630682

Leach Batch: 640187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-10	SB48 (5-7.5)	SPLP East	Solid	1312	
500-256275-23	SB55 (0-3)	SPLP East	Solid	1312	
LB 240-640187/1-B	Method Blank	SPLP East	Solid	1312	
500-256275-10 MS	SB48 (5-7.5)	SPLP East	Solid	1312	
500-256275-10 MSD	SB48 (5-7.5)	SPLP East	Solid	1312	

Prep Batch: 640243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-10	SB48 (5-7.5)	SPLP East	Solid	3010A	640187
500-256275-23	SB55 (0-3)	SPLP East	Solid	3010A	640187
LB 240-640187/1-B	Method Blank	SPLP East	Solid	3010A	640187
MB 240-640243/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640243/3-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256275-10 MS	SB48 (5-7.5)	SPLP East	Solid	3010A	640187
500-256275-10 MSD	SB48 (5-7.5)	SPLP East	Solid	3010A	640187

Leach Batch: 640346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-10	SB48 (5-7.5)	TCLP	Solid	1311	
500-256275-23	SB55 (0-3)	TCLP	Solid	1311	
LB 240-640346/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 640405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-10	SB48 (5-7.5)	TCLP	Solid	3010A	640346
500-256275-23	SB55 (0-3)	TCLP	Solid	3010A	640346
LB 240-640346/1-B	Method Blank	TCLP	Solid	3010A	640346
MB 240-640405/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640405/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals

Analysis Batch: 640423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-10	SB48 (5-7.5)	SPLP East	Solid	6010D	640243
500-256275-23	SB55 (0-3)	SPLP East	Solid	6010D	640243
LB 240-640187/1-B	Method Blank	SPLP East	Solid	6010D	640243
MB 240-640243/2-A	Method Blank	Total/NA	Solid	6010D	640243
LCS 240-640243/3-A	Lab Control Sample	Total/NA	Solid	6010D	640243
500-256275-10 MS	SB48 (5-7.5)	SPLP East	Solid	6010D	640243
500-256275-10 MSD	SB48 (5-7.5)	SPLP East	Solid	6010D	640243

Analysis Batch: 640570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-10	SB48 (5-7.5)	TCLP	Solid	6020B	640405
500-256275-23	SB55 (0-3)	TCLP	Solid	6020B	640405
LB 240-640346/1-B	Method Blank	TCLP	Solid	6020B	640405
MB 240-640405/2-A	Method Blank	Total/NA	Solid	6020B	640405
LCS 240-640405/4-A	Lab Control Sample	Total/NA	Solid	6020B	640405

Leach Batch: 792364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-5	SB46 (0-3)	TCLP	Solid	1311	
500-256275-14	SB50 (7.5-10)	TCLP	Solid	1311	
500-256275-15	SB51 (0-3)	TCLP	Solid	1311	
500-256275-18	SB52 (7.5-10)	TCLP	Solid	1311	
LB 500-792364/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 792414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-6	SB46 (3-5)	TCLP	Solid	1311	
LB2 500-792414/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 792710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-5	SB46 (0-3)	TCLP	Solid	3010A	792364
500-256275-14	SB50 (7.5-10)	TCLP	Solid	3010A	792364
500-256275-15	SB51 (0-3)	TCLP	Solid	3010A	792364
500-256275-18	SB52 (7.5-10)	TCLP	Solid	3010A	792364
LB 500-792364/1-B	Method Blank	TCLP	Solid	3010A	792364
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 792712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-6	SB46 (3-5)	TCLP	Solid	3010A	792414
LB2 500-792414/1-B	Method Blank	TCLP	Solid	3010A	792414
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 792920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-6	SB46 (3-5)	TCLP	Solid	6010D	792712
LB2 500-792414/1-B	Method Blank	TCLP	Solid	6010D	792712
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	6010D	792712

Metals

Analysis Batch: 793149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-5	SB46 (0-3)	TCLP	Solid	6010D	792710
500-256275-15	SB51 (0-3)	TCLP	Solid	6010D	792710
500-256275-18	SB52 (7.5-10)	TCLP	Solid	6010D	792710
LB 500-792364/1-B	Method Blank	TCLP	Solid	6010D	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6010D	792710

Analysis Batch: 793227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-14	SB50 (7.5-10)	TCLP	Solid	6020B	792710
500-256275-15	SB51 (0-3)	TCLP	Solid	6020B	792710
LB 500-792364/1-B	Method Blank	TCLP	Solid	6020B	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6020B	792710

Leach Batch: 793820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-6	SB46 (3-5)	SPLP East	Solid	1312	
500-256275-14	SB50 (7.5-10)	SPLP East	Solid	1312	
500-256275-15	SB51 (0-3)	SPLP East	Solid	1312	
LB 500-793820/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 794087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-6	SB46 (3-5)	SPLP East	Solid	3010A	793820
500-256275-14	SB50 (7.5-10)	SPLP East	Solid	3010A	793820
500-256275-15	SB51 (0-3)	SPLP East	Solid	3010A	793820
LB 500-793820/1-B	Method Blank	SPLP East	Solid	3010A	793820
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 794312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-6	SB46 (3-5)	SPLP East	Solid	6010D	794087
500-256275-15	SB51 (0-3)	SPLP East	Solid	6010D	794087
LB 500-793820/1-B	Method Blank	SPLP East	Solid	6010D	794087
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	6010D	794087

Analysis Batch: 794479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-14	SB50 (7.5-10)	SPLP East	Solid	6020B	794087
LB 500-793820/1-B	Method Blank	SPLP East	Solid	6020B	794087
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	6020B	794087

Leach Batch: 796654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-3	SB45 (0-3)	TCLP	Solid	1311	
LB 500-796654/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 797105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-3	SB45 (0-3)	TCLP	Solid	3010A	796654
LB 500-796654/1-B	Method Blank	TCLP	Solid	3010A	796654
LCS 500-797105/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals

Analysis Batch: 797568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-3	SB45 (0-3)	TCLP	Solid	6020B	797105
LB 500-796654/1-B	Method Blank	TCLP	Solid	6020B	797105
LCS 500-797105/2-A	Lab Control Sample	Total/NA	Solid	6020B	797105

Leach Batch: 798557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-3	SB45 (0-3)	SPLP East	Solid	1312	
LB 500-798557/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 798805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-3	SB45 (0-3)	SPLP East	Solid	3010A	798557
LB 500-798557/1-B	Method Blank	SPLP East	Solid	3010A	798557
LCS 500-798805/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 799002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-3	SB45 (0-3)	SPLP East	Solid	6020B	798805
LB 500-798557/1-B	Method Blank	SPLP East	Solid	6020B	798805
LCS 500-798805/2-A	Lab Control Sample	Total/NA	Solid	6020B	798805

Leach Batch: 802539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-7	SB47 (0-3)	TCLP	Solid	1311	
500-256275-8	SB47 (7.5-10)	TCLP	Solid	1311	
500-256275-9	SB48 (0-3)	TCLP	Solid	1311	
500-256275-12	SB49 (10-12.5)	TCLP	Solid	1311	
500-256275-13	SB50 (0-3)	TCLP	Solid	1311	
500-256275-16	SB51 (5-7.5)	TCLP	Solid	1311	
500-256275-17	SB52 (0-3)	TCLP	Solid	1311	
500-256275-19	SB53 (0-3)	TCLP	Solid	1311	
500-256275-21	SB54 (0-3)	TCLP	Solid	1311	
LB 500-802539/1-B	Method Blank	TCLP	Solid	1311	
500-256275-7 MS	SB47 (0-3)	TCLP	Solid	1311	
500-256275-7 DU	SB47 (0-3)	TCLP	Solid	1311	

Leach Batch: 802544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	SPLP East	Solid	1312	
500-256275-2	SB44 (5-7.5)	SPLP East	Solid	1312	
500-256275-4	SB45 (5-7.5)	SPLP East	Solid	1312	
500-256275-7	SB47 (0-3)	SPLP East	Solid	1312	
500-256275-8	SB47 (7.5-10)	SPLP East	Solid	1312	
500-256275-11	SB49 (0-3)	SPLP East	Solid	1312	
500-256275-12	SB49 (10-12.5)	SPLP East	Solid	1312	
500-256275-13	SB50 (0-3)	SPLP East	Solid	1312	
500-256275-16	SB51 (5-7.5)	SPLP East	Solid	1312	
500-256275-17	SB52 (0-3)	SPLP East	Solid	1312	
500-256275-18	SB52 (7.5-10)	SPLP East	Solid	1312	
500-256275-19	SB53 (0-3)	SPLP East	Solid	1312	
500-256275-20	SB53 (10-12.5)	SPLP East	Solid	1312	

Metals (Continued)

Leach Batch: 802544 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-802544/1-B	Method Blank	SPLP East	Solid	1312	
500-256275-19 MS	SB53 (0-3)	SPLP East	Solid	1312	
500-256275-19 DU	SB53 (0-3)	SPLP East	Solid	1312	

Leach Batch: 802634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-21	SB54 (0-3)	SPLP East	Solid	1312	
500-256275-22	SB54 (10-12.5)	SPLP East	Solid	1312	
500-256275-24	SB55 (5-7.5)	SPLP East	Solid	1312	
LB 500-802634/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 802680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-7	SB47 (0-3)	TCLP	Solid	3010A	802539
500-256275-8	SB47 (7.5-10)	TCLP	Solid	3010A	802539
500-256275-9	SB48 (0-3)	TCLP	Solid	3010A	802539
500-256275-12	SB49 (10-12.5)	TCLP	Solid	3010A	802539
500-256275-13	SB50 (0-3)	TCLP	Solid	3010A	802539
500-256275-16	SB51 (5-7.5)	TCLP	Solid	3010A	802539
500-256275-17	SB52 (0-3)	TCLP	Solid	3010A	802539
500-256275-19	SB53 (0-3)	TCLP	Solid	3010A	802539
500-256275-21	SB54 (0-3)	TCLP	Solid	3010A	802539
LB 500-802539/1-B	Method Blank	TCLP	Solid	3010A	802539
LCS 500-802680/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256275-7 MS	SB47 (0-3)	TCLP	Solid	3010A	802539
500-256275-7 DU	SB47 (0-3)	TCLP	Solid	3010A	802539

Prep Batch: 802681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	SPLP East	Solid	3010A	802544
500-256275-2	SB44 (5-7.5)	SPLP East	Solid	3010A	802544
500-256275-4	SB45 (5-7.5)	SPLP East	Solid	3010A	802544
500-256275-7	SB47 (0-3)	SPLP East	Solid	3010A	802544
500-256275-8	SB47 (7.5-10)	SPLP East	Solid	3010A	802544
500-256275-11	SB49 (0-3)	SPLP East	Solid	3010A	802544
500-256275-12	SB49 (10-12.5)	SPLP East	Solid	3010A	802544
500-256275-13	SB50 (0-3)	SPLP East	Solid	3010A	802544
500-256275-16	SB51 (5-7.5)	SPLP East	Solid	3010A	802544
500-256275-17	SB52 (0-3)	SPLP East	Solid	3010A	802544
500-256275-18	SB52 (7.5-10)	SPLP East	Solid	3010A	802544
500-256275-19	SB53 (0-3)	SPLP East	Solid	3010A	802544
500-256275-20	SB53 (10-12.5)	SPLP East	Solid	3010A	802544
LB 500-802544/1-B	Method Blank	SPLP East	Solid	3010A	802544
LCS 500-802681/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256275-19 MS	SB53 (0-3)	SPLP East	Solid	3010A	802544
500-256275-19 DU	SB53 (0-3)	SPLP East	Solid	3010A	802544

Leach Batch: 802813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-5	SB46 (0-3)	SPLP East	Solid	1312	
LB 500-802813/1-B	Method Blank	SPLP East	Solid	1312	

Metals (Continued)

Leach Batch: 802813 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-5 MS	SB46 (0-3)	SPLP East	Solid	1312	
500-256275-5 DU	SB46 (0-3)	SPLP East	Solid	1312	

Leach Batch: 802847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-5	SB46 (0-3)	TCLP	Solid	1311	
LB 500-802847/1-B	Method Blank	TCLP	Solid	1311	
500-256275-5 MS	SB46 (0-3)	TCLP	Solid	1311	
500-256275-5 DU	SB46 (0-3)	TCLP	Solid	1311	

Prep Batch: 802849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-21	SB54 (0-3)	SPLP East	Solid	3010A	802634
500-256275-22	SB54 (10-12.5)	SPLP East	Solid	3010A	802634
500-256275-24	SB55 (5-7.5)	SPLP East	Solid	3010A	802634
LB 500-802634/1-B	Method Blank	SPLP East	Solid	3010A	802634
LCS 500-802849/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 802866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-1	SB44 (0-3)	SPLP East	Solid	6010D	802681
500-256275-2	SB44 (5-7.5)	SPLP East	Solid	6010D	802681
500-256275-4	SB45 (5-7.5)	SPLP East	Solid	6010D	802681
500-256275-7	SB47 (0-3)	SPLP East	Solid	6010D	802681
500-256275-8	SB47 (7.5-10)	SPLP East	Solid	6010D	802681
500-256275-11	SB49 (0-3)	SPLP East	Solid	6010D	802681
500-256275-12	SB49 (10-12.5)	SPLP East	Solid	6010D	802681
500-256275-13	SB50 (0-3)	SPLP East	Solid	6010D	802681
500-256275-16	SB51 (5-7.5)	SPLP East	Solid	6010D	802681
500-256275-17	SB52 (0-3)	SPLP East	Solid	6010D	802681
500-256275-18	SB52 (7.5-10)	SPLP East	Solid	6010D	802681
500-256275-19	SB53 (0-3)	SPLP East	Solid	6010D	802681
500-256275-20	SB53 (10-12.5)	SPLP East	Solid	6010D	802681
LB 500-802544/1-B	Method Blank	SPLP East	Solid	6010D	802681
LCS 500-802681/2-A	Lab Control Sample	Total/NA	Solid	6010D	802681
500-256275-19 MS	SB53 (0-3)	SPLP East	Solid	6010D	802681
500-256275-19 DU	SB53 (0-3)	SPLP East	Solid	6010D	802681

Analysis Batch: 802867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-7	SB47 (0-3)	TCLP	Solid	6010D	802680
500-256275-8	SB47 (7.5-10)	TCLP	Solid	6010D	802680
500-256275-9	SB48 (0-3)	TCLP	Solid	6010D	802680
500-256275-12	SB49 (10-12.5)	TCLP	Solid	6010D	802680
500-256275-13	SB50 (0-3)	TCLP	Solid	6010D	802680
500-256275-16	SB51 (5-7.5)	TCLP	Solid	6010D	802680
500-256275-17	SB52 (0-3)	TCLP	Solid	6010D	802680
500-256275-19	SB53 (0-3)	TCLP	Solid	6010D	802680
500-256275-21	SB54 (0-3)	TCLP	Solid	6010D	802680
LB 500-802539/1-B	Method Blank	TCLP	Solid	6010D	802680
LCS 500-802680/2-A	Lab Control Sample	Total/NA	Solid	6010D	802680

Metals (Continued)

Analysis Batch: 802867 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-7 MS	SB47 (0-3)	TCLP	Solid	6010D	802680
500-256275-7 DU	SB47 (0-3)	TCLP	Solid	6010D	802680

Analysis Batch: 802918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-7	SB47 (0-3)	TCLP	Solid	6010D	802680
500-256275-8	SB47 (7.5-10)	TCLP	Solid	6010D	802680
500-256275-9	SB48 (0-3)	TCLP	Solid	6010D	802680
500-256275-13	SB50 (0-3)	TCLP	Solid	6010D	802680
500-256275-19	SB53 (0-3)	TCLP	Solid	6010D	802680
LB 500-802539/1-B	Method Blank	TCLP	Solid	6010D	802680
LCS 500-802680/2-A	Lab Control Sample	Total/NA	Solid	6010D	802680
500-256275-7 MS	SB47 (0-3)	TCLP	Solid	6010D	802680
500-256275-7 DU	SB47 (0-3)	TCLP	Solid	6010D	802680

Analysis Batch: 802934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-4	SB45 (5-7.5)	SPLP East	Solid	6020B	802681
500-256275-11	SB49 (0-3)	SPLP East	Solid	6020B	802681
LB 500-802544/1-B	Method Blank	SPLP East	Solid	6020B	802681
LCS 500-802681/2-A	Lab Control Sample	Total/NA	Solid	6020B	802681

Prep Batch: 803011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-5	SB46 (0-3)	TCLP	Solid	3010A	802847
LB 500-802847/1-B	Method Blank	TCLP	Solid	3010A	802847
LCS 500-803011/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256275-5 MS	SB46 (0-3)	TCLP	Solid	3010A	802847
500-256275-5 DU	SB46 (0-3)	TCLP	Solid	3010A	802847

Prep Batch: 803012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-5	SB46 (0-3)	SPLP East	Solid	3010A	802813
LB 500-802813/1-B	Method Blank	SPLP East	Solid	3010A	802813
LCS 500-803012/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256275-5 MS	SB46 (0-3)	SPLP East	Solid	3010A	802813
500-256275-5 DU	SB46 (0-3)	SPLP East	Solid	3010A	802813

Analysis Batch: 803026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-21	SB54 (0-3)	SPLP East	Solid	6010D	802849
500-256275-22	SB54 (10-12.5)	SPLP East	Solid	6010D	802849
500-256275-24	SB55 (5-7.5)	SPLP East	Solid	6010D	802849
LB 500-802634/1-B	Method Blank	SPLP East	Solid	6010D	802849
LCS 500-802849/2-A	Lab Control Sample	Total/NA	Solid	6010D	802849

Analysis Batch: 803029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-7	SB47 (0-3)	TCLP	Solid	6010D	802680
500-256275-8	SB47 (7.5-10)	TCLP	Solid	6010D	802680
500-256275-7 MS	SB47 (0-3)	TCLP	Solid	6010D	802680

Metals (Continued)

Analysis Batch: 803029 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-7 DU	SB47 (0-3)	TCLP	Solid	6010D	802680

Analysis Batch: 803093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-7	SB47 (0-3)	TCLP	Solid	6020B	802680
500-256275-8	SB47 (7.5-10)	TCLP	Solid	6020B	802680
500-256275-12	SB49 (10-12.5)	TCLP	Solid	6020B	802680
500-256275-13	SB50 (0-3)	TCLP	Solid	6020B	802680
500-256275-16	SB51 (5-7.5)	TCLP	Solid	6020B	802680
500-256275-17	SB52 (0-3)	TCLP	Solid	6020B	802680
500-256275-19	SB53 (0-3)	TCLP	Solid	6020B	802680
500-256275-21	SB54 (0-3)	TCLP	Solid	6020B	802680
LB 500-802539/1-B	Method Blank	TCLP	Solid	6020B	802680
LCS 500-802680/2-A	Lab Control Sample	Total/NA	Solid	6020B	802680
500-256275-7 MS	SB47 (0-3)	TCLP	Solid	6020B	802680
500-256275-7 DU	SB47 (0-3)	TCLP	Solid	6020B	802680

Analysis Batch: 803094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-22	SB54 (10-12.5)	SPLP East	Solid	6020B	802849
500-256275-24	SB55 (5-7.5)	SPLP East	Solid	6020B	802849
LB 500-802634/1-B	Method Blank	SPLP East	Solid	6020B	802849
LCS 500-802849/2-A	Lab Control Sample	Total/NA	Solid	6020B	802849

Analysis Batch: 803182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-5	SB46 (0-3)	SPLP East	Solid	6010D	803012
LB 500-802813/1-B	Method Blank	SPLP East	Solid	6010D	803012
LCS 500-803012/2-A	Lab Control Sample	Total/NA	Solid	6010D	803012
500-256275-5 MS	SB46 (0-3)	SPLP East	Solid	6010D	803012
500-256275-5 DU	SB46 (0-3)	SPLP East	Solid	6010D	803012

Analysis Batch: 803207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-5	SB46 (0-3)	TCLP	Solid	6020B	803011
500-256275-6	SB46 (3-5)	TCLP	Solid	6020B	792712
LB 500-802847/1-B	Method Blank	TCLP	Solid	6020B	803011
LB2 500-792414/1-B	Method Blank	TCLP	Solid	6020B	792712
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	6020B	792712
LCS 500-803011/2-A	Lab Control Sample	Total/NA	Solid	6020B	803011
500-256275-5 MS	SB46 (0-3)	TCLP	Solid	6020B	803011
500-256275-5 DU	SB46 (0-3)	TCLP	Solid	6020B	803011

Leach Batch: 803946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-2	SB44 (5-7.5)	TCLP	Solid	1311	
LB 500-803946/1-B	Method Blank	TCLP	Solid	1311	

Analysis Batch: 803990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-6	SB46 (3-5)	SPLP East	Solid	6010D	794087

Metals (Continued)

Analysis Batch: 803990 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-15	SB51 (0-3)	SPLP East	Solid	6010D	794087
LB 500-793820/1-B	Method Blank	SPLP East	Solid	6010D	794087
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	6010D	794087

Prep Batch: 804147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-2	SB44 (5-7.5)	TCLP	Solid	3010A	803946
LB 500-803946/1-B	Method Blank	TCLP	Solid	3010A	803946
LCS 500-804147/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 804398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256275-2	SB44 (5-7.5)	TCLP	Solid	6010D	804147
LB 500-803946/1-B	Method Blank	TCLP	Solid	6010D	804147
LCS 500-804147/2-A	Lab Control Sample	Total/NA	Solid	6010D	804147

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.040		0.040		mg/L		10/14/24 14:00	10/15/24 19:04	1
Zinc	<1.0		1.0		mg/L		10/14/24 14:00	10/15/24 19:04	1

Lab Sample ID: LCS 240-630682/3-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	1.00	1.09		mg/L		109	50 - 150
Zinc	1.00	1.13		mg/L		113	50 - 150

Lab Sample ID: MB 240-640243/2-A
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0026		0.015	0.0026	mg/L		12/30/24 14:00	01/01/25 03:26	1
Vanadium	<0.0056		0.049	0.0056	mg/L		12/30/24 14:00	01/01/25 03:26	1

Lab Sample ID: LCS 240-640243/3-A
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1.00	1.00		mg/L		100	50 - 150
Vanadium	1.00	0.990		mg/L		99	50 - 150

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.203		mg/L		101	80 - 120
Cobalt	0.500	0.512		mg/L		102	80 - 120
Iron	1.00	0.873		mg/L		87	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Nickel	0.500	0.496		mg/L		99	80 - 120
Selenium	0.100	0.0906		mg/L		91	80 - 120
Arsenic	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LCS 500-792712/2-A
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0507		mg/L		101	80 - 120
Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Chromium	0.200	0.215		mg/L		107	80 - 120
Cobalt	0.500	0.537		mg/L		107	80 - 120
Copper	0.250	0.258		mg/L		103	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-792712/2-A
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.08		mg/L		108	80 - 120
Lead	0.100	0.111		mg/L		111	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Silver	0.0500	0.0492		mg/L		98	80 - 120
Vanadium	0.500	0.544		mg/L		109	80 - 120
Arsenic	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LCS 500-794087/2-A
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 794087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.208		mg/L		104	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Manganese	0.500	0.512		mg/L		102	80 - 120
Nickel	0.500	0.513		mg/L		103	80 - 120

Lab Sample ID: LCS 500-794087/2-A
Matrix: Solid
Analysis Batch: 803990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 794087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.00		mg/L		100	80 - 120

Lab Sample ID: LCS 500-802680/2-A
Matrix: Solid
Analysis Batch: 802867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0482		mg/L		96	80 - 120
Cadmium	0.0500	0.0519		mg/L		104	80 - 120
Chromium	0.200	0.209		mg/L		105	80 - 120
Cobalt	0.500	0.526		mg/L		105	80 - 120
Copper	0.250	0.272		mg/L		109	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Manganese	0.500	0.495		mg/L		99	80 - 120
Nickel	0.500	0.522		mg/L		104	80 - 120
Selenium	0.100	0.118		mg/L		118	80 - 120
Silver	0.0500	0.0542		mg/L		108	80 - 120
Vanadium	0.500	0.538		mg/L		108	80 - 120

Lab Sample ID: LCS 500-802680/2-A
Matrix: Solid
Analysis Batch: 802918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.953		mg/L		95	80 - 120
Zinc	0.500	0.553		mg/L		111	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-802681/2-A
Matrix: Solid
Analysis Batch: 802866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0492		mg/L		98	80 - 120
Cadmium	0.0500	0.0480		mg/L		96	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.484		mg/L		97	80 - 120
Copper	0.250	0.240		mg/L		96	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0995		mg/L		99	80 - 120
Manganese	0.500	0.518		mg/L		104	80 - 120
Nickel	0.500	0.472		mg/L		94	80 - 120
Selenium	0.100	0.0931		mg/L		93	80 - 120
Silver	0.0500	0.0575		mg/L		115	80 - 120

Lab Sample ID: LCS 500-802849/2-A
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0497		mg/L		99	80 - 120
Cadmium	0.0500	0.0474		mg/L		95	80 - 120
Chromium	0.200	0.227		mg/L		113	80 - 120
Cobalt	0.500	0.479		mg/L		96	80 - 120
Copper	0.250	0.239		mg/L		95	80 - 120
Iron	1.00	0.953		mg/L		95	80 - 120
Lead	0.100	0.0990		mg/L		99	80 - 120
Manganese	0.500	0.478		mg/L		96	80 - 120
Nickel	0.500	0.482		mg/L		96	80 - 120
Selenium	0.100	0.0911		mg/L		91	80 - 120
Silver	0.0500	0.0463		mg/L		93	80 - 120

Lab Sample ID: LCS 500-803012/2-A
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.11		mg/L		111	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Manganese	0.500	0.501		mg/L		100	80 - 120

Lab Sample ID: LCS 500-804147/2-A
Matrix: Solid
Analysis Batch: 804398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 804147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.112		mg/L		112	80 - 120
Zinc	0.500	0.558		mg/L		112	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.040		0.040		mg/L		10/14/24 14:00	10/15/24 19:00	1
Zinc	<1.0		1.0		mg/L		10/14/24 14:00	10/15/24 19:00	1

Lab Sample ID: LB 500-792364/1-B
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Cobalt	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Iron	<0.20		0.20		mg/L		10/29/24 14:15	10/30/24 12:53	1
Lead	<0.0075		0.0075		mg/L		10/29/24 14:15	10/30/24 12:53	1
Nickel	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 12:53	1
Arsenic	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 12:53	1

Lab Sample ID: LB2 500-792414/1-B
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792712

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/28/24 15:40	10/29/24 12:05	1
Cadmium	<0.0050		0.0050		mg/L		10/28/24 15:40	10/29/24 12:05	1
Chromium	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Cobalt	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Copper	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Iron	<0.20		0.20		mg/L		10/28/24 15:40	10/29/24 12:05	1
Lead	<0.0075		0.0075		mg/L		10/28/24 15:40	10/29/24 12:05	1
Nickel	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 12:05	1
Silver	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Vanadium	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Arsenic	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 12:05	1

Lab Sample ID: LB 500-802539/1-B
Matrix: Solid
Analysis Batch: 802867

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802680

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:18	01/14/25 11:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/13/25 14:18	01/14/25 11:22	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:22	1
Cobalt	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:22	1
Copper	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:18	01/14/25 11:22	1
Manganese	0.0200	J	0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:22	1
Nickel	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:22	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 11:22	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:22	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802539/1-B
Matrix: Solid
Analysis Batch: 802867

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802680

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:22	1

Lab Sample ID: LB 500-802539/1-B
Matrix: Solid
Analysis Batch: 802918

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802680

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 16:16	1
Zinc	<0.020		0.10	0.020	mg/L		01/13/25 14:18	01/14/25 16:16	1

Lab Sample ID: 500-256275-7 MS
Matrix: Solid
Analysis Batch: 802867

Client Sample ID: SB47 (0-3)
Prep Type: TCLP
Prep Batch: 802680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0481		mg/L		96	75 - 125
Cadmium	<0.0020		0.0500	0.0537		mg/L		107	75 - 125
Chromium	<0.010		0.200	0.192		mg/L		96	75 - 125
Cobalt	<0.010		0.500	0.515		mg/L		103	75 - 125
Copper	<0.010		0.250	0.274		mg/L		110	75 - 125
Manganese	7.7	B	0.500	8.14	4	mg/L		96	75 - 125
Nickel	0.036		0.500	0.532		mg/L		99	75 - 125
Selenium	<0.020		0.100	0.117		mg/L		117	75 - 125
Silver	<0.010		0.0500	0.0543		mg/L		109	75 - 125
Vanadium	0.012	J	0.500	0.534		mg/L		104	75 - 125

Lab Sample ID: 500-256275-7 MS
Matrix: Solid
Analysis Batch: 802918

Client Sample ID: SB47 (0-3)
Prep Type: TCLP
Prep Batch: 802680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	<0.20		1.00	0.839		mg/L		84	75 - 125
Zinc	0.056	J F1	0.500	0.748	F1	mg/L		138	75 - 125

Lab Sample ID: 500-256275-7 MS
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: SB47 (0-3)
Prep Type: TCLP
Prep Batch: 802680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	<0.038	F1	0.100	0.0680	F1	mg/L		68	75 - 125

Lab Sample ID: 500-256275-7 DU
Matrix: Solid
Analysis Batch: 802867

Client Sample ID: SB47 (0-3)
Prep Type: TCLP
Prep Batch: 802680

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Chromium	<0.010		<0.010		mg/L		NC	20
Cobalt	<0.010		<0.010		mg/L		NC	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256275-7 DU
Matrix: Solid
Analysis Batch: 802867

Client Sample ID: SB47 (0-3)
Prep Type: TCLP
Prep Batch: 802680

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Copper	<0.010		<0.010		mg/L		NC	20
Manganese	7.7	B	7.72		mg/L		0.8	20
Nickel	0.036		0.0371		mg/L		4	20
Selenium	<0.020		<0.020		mg/L		NC	20
Silver	<0.010		<0.010		mg/L		NC	20
Vanadium	0.012	J	0.0126	J	mg/L		3	20

Lab Sample ID: 500-256275-7 DU
Matrix: Solid
Analysis Batch: 802918

Client Sample ID: SB47 (0-3)
Prep Type: TCLP
Prep Batch: 802680

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	<0.20		<0.20		mg/L		NC	20
Zinc	0.056	J F1	0.0656	J	mg/L		15	20

Lab Sample ID: 500-256275-7 DU
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: SB47 (0-3)
Prep Type: TCLP
Prep Batch: 802680

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	<0.038	F1	<0.038		mg/L		NC	20

Lab Sample ID: LB 500-803946/1-B
Matrix: Solid
Analysis Batch: 804398

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 804147

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/24/25 14:31	01/27/25 17:51	1
Zinc	<0.020		0.10	0.020	mg/L		01/24/25 14:31	01/27/25 17:51	1

Lab Sample ID: LB 240-640187/1-B
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 640243

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0026		0.015	0.0026	mg/L		12/30/24 14:00	01/01/25 03:21	1
Vanadium	<0.0056		0.049	0.0056	mg/L		12/30/24 14:00	01/01/25 03:21	1

Lab Sample ID: 500-256275-10 MS
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: SB48 (5-7.5)
Prep Type: SPLP East
Prep Batch: 640243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	<0.0026		1.00	0.947		mg/L		95	75 - 125
Vanadium	0.0072	J	1.00	0.932		mg/L		92	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256275-10 MSD
Client Sample ID: SB48 (5-7.5)
Matrix: Solid
Prep Type: SPLP East
Analysis Batch: 640423
Prep Batch: 640243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	<0.0026		1.00	0.993		mg/L		99	75 - 125	5	20
Vanadium	0.0072	J	1.00	0.946		mg/L		94	75 - 125	2	20

Lab Sample ID: LB 500-793820/1-B
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: SPLP East
Analysis Batch: 794312
Prep Batch: 794087

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025		mg/L		11/06/24 08:43	11/06/24 23:27	1
Lead	<0.0075		0.0075		mg/L		11/06/24 08:43	11/06/24 23:27	1
Manganese	<0.025		0.025		mg/L		11/06/24 08:43	11/06/24 23:27	1
Nickel	<0.025		0.025		mg/L		11/06/24 08:43	11/06/24 23:27	1

Lab Sample ID: LB 500-793820/1-B
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: SPLP East
Analysis Batch: 803990
Prep Batch: 794087

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20		mg/L		11/06/24 08:43	01/23/25 12:18	1

Lab Sample ID: LB 500-802544/1-B
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: SPLP East
Analysis Batch: 802866
Prep Batch: 802681

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:20	01/14/25 12:06	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/13/25 14:20	01/14/25 12:06	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:06	1
Cobalt	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:06	1
Copper	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:06	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:20	01/14/25 12:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:20	01/14/25 12:06	1
Manganese	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:06	1
Nickel	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:06	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:20	01/14/25 12:06	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:06	1

Lab Sample ID: 500-256275-19 MS
Client Sample ID: SB53 (0-3)
Matrix: Solid
Prep Type: SPLP East
Analysis Batch: 802866
Prep Batch: 802681

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0502		mg/L		100	75 - 125
Cadmium	<0.0020		0.0500	0.0482		mg/L		96	75 - 125
Chromium	0.011	J	0.200	0.213		mg/L		101	75 - 125
Cobalt	<0.010		0.500	0.492		mg/L		98	75 - 125
Copper	0.029		0.250	0.267		mg/L		95	75 - 125
Iron	3.1		1.00	4.32		mg/L		118	75 - 125
Lead	0.024		0.100	0.125		mg/L		102	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256275-19 MS
Matrix: Solid
Analysis Batch: 802866

Client Sample ID: SB53 (0-3)
Prep Type: SPLP East
Prep Batch: 802681

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.26		0.500	0.790		mg/L		106	75 - 125
Nickel	<0.010		0.500	0.483		mg/L		97	75 - 125
Selenium	<0.020		0.100	0.0957		mg/L		96	75 - 125
Silver	<0.010		0.0500	0.0453		mg/L		91	75 - 125

Lab Sample ID: 500-256275-19 DU
Matrix: Solid
Analysis Batch: 802866

Client Sample ID: SB53 (0-3)
Prep Type: SPLP East
Prep Batch: 802681

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Chromium	0.011	J	0.0109	J	mg/L		4	20
Cobalt	<0.010		<0.010		mg/L		NC	20
Copper	0.029		0.0286		mg/L		1	20
Iron	3.1		3.39		mg/L		8	20
Lead	0.024		0.0235		mg/L		2	20
Manganese	0.26		0.278		mg/L		6	20
Nickel	<0.010		<0.010		mg/L		NC	20
Selenium	<0.020		<0.020		mg/L		NC	20
Silver	<0.010		<0.010		mg/L		NC	20

Lab Sample ID: LB 500-802634/1-B
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802849

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:21	01/15/25 12:45	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:21	01/15/25 12:45	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Cobalt	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Copper	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:21	01/15/25 12:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:21	01/15/25 12:45	1
Manganese	0.0215	J	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 12:45	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1

Lab Sample ID: LB 500-802813/1-B
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803012

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:14	01/16/25 10:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/15/25 14:14	01/16/25 10:57	1
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256275-5 MS
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: SB46 (0-3)
Prep Type: SPLP East
Prep Batch: 803012

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	<0.20		1.00	0.989		mg/L		99	75 - 125
Lead	<0.0075		0.100	0.0884		mg/L		88	75 - 125
Manganese	<0.010		0.500	0.497		mg/L		99	75 - 125

Lab Sample ID: 500-256275-5 DU
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: SB46 (0-3)
Prep Type: SPLP East
Prep Batch: 803012

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	<0.20		<0.20		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	<0.010		<0.010		mg/L		NC	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-640405/2-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 14:51	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 14:51	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:51	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:51	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:51	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 14:51	1
Nickel	<0.0015		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 14:51	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:51	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:51	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:51	1
Vanadium	<0.00082		0.020	0.00082	mg/L		12/31/24 14:00	01/02/25 14:51	1

Lab Sample ID: LCS 240-640405/4-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.500	0.490		mg/L		98	80 - 120
Cadmium	0.500	0.457		mg/L		91	80 - 120
Chromium	0.500	0.484		mg/L		97	80 - 120
Copper	0.500	0.522		mg/L		104	80 - 120
Iron	5.00	4.99		mg/L		100	80 - 120
Lead	0.500	0.536		mg/L		107	80 - 120
Nickel	0.500	0.495		mg/L		99	80 - 120
Selenium	1.00	0.956		mg/L		96	80 - 120
Silver	0.100	0.0984		mg/L		98	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120
Vanadium	0.500	0.492		mg/L		98	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.529		mg/L		106	80 - 120
Cadmium	0.0500	0.0500		mg/L		100	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Selenium	0.100	0.0947		mg/L		95	80 - 120
Silver	0.0500	0.0508	^1+	mg/L		102	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LCS 500-792712/2-A
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.524		mg/L		105	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: LCS 500-794087/2-A
Matrix: Solid
Analysis Batch: 794479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 794087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.564		mg/L		113	80 - 120
Iron	1.00	1.16		mg/L		116	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Manganese	0.500	0.550		mg/L		110	80 - 120

Lab Sample ID: LCS 500-797105/2-A
Matrix: Solid
Analysis Batch: 797568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 797105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.537		mg/L		107	80 - 120
Iron	1.00	1.12		mg/L		112	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-798805/2-A
Matrix: Solid
Analysis Batch: 799002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.504		mg/L		101	80 - 120

Lab Sample ID: LCS 500-802680/2-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.510		mg/L		102	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCS 500-802681/2-A
Matrix: Solid
Analysis Batch: 802934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.483		mg/L		97	80 - 120
Thallium	0.100	0.0985		mg/L		99	80 - 120

Lab Sample ID: LCS 500-802849/2-A
Matrix: Solid
Analysis Batch: 803094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.458		mg/L		92	80 - 120
Thallium	0.100	0.0989		mg/L		99	80 - 120

Lab Sample ID: LCS 500-803011/2-A
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.570		mg/L		114	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LB 240-640346/1-B
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 640405

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 14:43	1
Cadmium	0.000168	J	0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 14:43	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:43	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:43	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:43	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 14:43	1
Nickel	<0.0015		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 14:43	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:43	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:43	1
Thallium	0.000670	J	0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:43	1
Vanadium	<0.00082		0.020	0.00082	mg/L		12/31/24 14:00	01/02/25 14:43	1

Lab Sample ID: LB 500-792364/1-B
Matrix: Solid
Analysis Batch: 793227

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060		mg/L		10/29/24 14:15	10/30/24 16:19	1
Cadmium	<0.00050		0.00050		mg/L		10/29/24 14:15	10/30/24 16:19	1
Chromium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 16:19	1
Iron	<0.10		0.10		mg/L		10/29/24 14:15	10/30/24 16:19	1
Lead	<0.00050		0.00050		mg/L		10/29/24 14:15	10/30/24 16:19	1
Selenium	<0.0025		0.0025		mg/L		10/29/24 14:15	10/30/24 16:19	1
Silver	<0.00050	^1+	0.00050		mg/L		10/29/24 14:15	10/30/24 16:19	1
Thallium	<0.0020		0.0020		mg/L		10/29/24 14:15	10/30/24 16:19	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB2 500-792414/1-B
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792712

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		10/28/24 15:40	01/16/25 14:35	1
Thallium	<0.00057		0.0020	0.00057	mg/L		10/28/24 15:40	01/16/25 14:35	1

Lab Sample ID: LB 500-796654/1-B
Matrix: Solid
Analysis Batch: 797568

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 797105

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060		mg/L		11/26/24 09:26	11/27/24 14:31	1
Iron	<0.10		0.10		mg/L		11/26/24 09:26	11/27/24 14:31	1
Lead	<0.00050		0.00050		mg/L		11/26/24 09:26	11/27/24 14:31	1

Lab Sample ID: LB 500-802539/1-B
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802680

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/13/25 14:18	01/15/25 18:53	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 18:53	1

Lab Sample ID: 500-256275-7 MS
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: SB47 (0-3)
Prep Type: TCLP
Prep Batch: 802680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	0.0037	J	0.500	0.518		mg/L		103	75 - 125		
Thallium	<0.00057		0.100	0.101		mg/L		101	75 - 125		

Lab Sample ID: 500-256275-7 DU
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: SB47 (0-3)
Prep Type: TCLP
Prep Batch: 802680

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	0.0037	J		0.00260	J F5	mg/L				34	20
Thallium	<0.00057			<0.00057		mg/L				NC	20

Lab Sample ID: LB 500-802847/1-B
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 803011

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/15/25 14:11	01/16/25 16:11	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:11	01/16/25 16:11	1

Lab Sample ID: 500-256275-5 MS
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: SB46 (0-3)
Prep Type: TCLP
Prep Batch: 803011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	0.0098		0.500	0.604		mg/L		119	75 - 125		

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-256275-5 MS
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: SB46 (0-3)
Prep Type: TCLP
Prep Batch: 803011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	<0.00057		0.100	0.112		mg/L		112	75 - 125

Lab Sample ID: 500-256275-5 DU
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: SB46 (0-3)
Prep Type: TCLP
Prep Batch: 803011

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.0098		0.00815		mg/L		19	20
Thallium	<0.00057		<0.00057		mg/L		NC	20

Lab Sample ID: LB 500-793820/1-B
Matrix: Solid
Analysis Batch: 794479

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 794087

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060		mg/L		11/06/24 08:43	11/07/24 16:59	1
Iron	<0.10		0.10		mg/L		11/06/24 08:43	11/07/24 16:59	1
Lead	<0.00050		0.00050		mg/L		11/06/24 08:43	11/07/24 16:59	1
Manganese	<0.0025		0.0025		mg/L		11/06/24 08:43	11/07/24 16:59	1

Lab Sample ID: LB 500-798557/1-B
Matrix: Solid
Analysis Batch: 799002

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 798805

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060		mg/L		12/10/24 14:10	12/11/24 12:29	1

Lab Sample ID: LB 500-802544/1-B
Matrix: Solid
Analysis Batch: 802934

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802681

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/13/25 14:20	01/14/25 17:25	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:20	01/14/25 17:25	1

Lab Sample ID: LB 500-802634/1-B
Matrix: Solid
Analysis Batch: 803094

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802849

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/14/25 14:21	01/15/25 18:48	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 18:48	1

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256275-8

Client Sample ID: SB44 (0-3)
Date Collected: 09/05/24 09:43
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 13:07

Client Sample ID: SB44 (5-7.5)
Date Collected: 09/05/24 09:52
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 13:11
TCLP	Leach	1311			803946	JL	EET CHI	01/23/25 15:38 - 01/24/25 09:38 [1]
TCLP	Prep	3010A			804147	S1Z	EET CHI	01/24/25 14:31 - 01/24/25 20:31 [1]
TCLP	Analysis	6010D		1	804398	RB	EET CHI	01/27/25 18:32

Client Sample ID: SB45 (0-3)
Date Collected: 09/05/24 10:15
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			798557	PA	EET CHI	12/09/24 14:35 - 12/10/24 08:35 [1]
SPLP East	Prep	3010A			798805	S1Z	EET CHI	12/10/24 14:10 - 12/10/24 20:10 [1]
SPLP East	Analysis	6020B		1	799002	RN	EET CHI	12/11/24 12:37
TCLP	Leach	1311			796654	PA	EET CHI	11/22/24 16:45 - 11/23/24 10:45 [1]
TCLP	Prep	3010A			797105	BDE	EET CHI	11/26/24 09:26 - 11/26/24 15:26 [1]
TCLP	Analysis	6020B		1	797568	RN	EET CHI	11/27/24 14:36

Client Sample ID: SB45 (5-7.5)
Date Collected: 09/05/24 10:36
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 13:15
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6020B		1	802934	RN	EET CHI	01/14/25 17:45

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB46 (0-3)
Lab Sample ID: 500-256275-5
Date Collected: 09/05/24 10:52
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 11:06
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 13:11
TCLP	Leach	1311			802847	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
TCLP	Prep	3010A			803011	S1Z	EET CHI	01/15/25 14:11 - 01/15/25 20:11 [1]
TCLP	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 16:19

Client Sample ID: SB46 (3-5)
Lab Sample ID: 500-256275-6
Date Collected: 09/05/24 11:07
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6010D		1	794312	SJ	EET CHI	11/07/24 00:07
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6010D		1	803990	SJ	EET CHI	01/23/25 12:27
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6010D		1	792920	SJ	EET CHI	10/29/24 13:25
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 14:42

Client Sample ID: SB47 (0-3)
Lab Sample ID: 500-256275-7
Date Collected: 09/05/24 11:17
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 13:20
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 11:31
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802918	RB	EET CHI	01/14/25 16:25
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		5	803029	SJ	EET CHI	01/15/25 11:47

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256275-8

Client Sample ID: SB47 (0-3)
Date Collected: 09/05/24 11:17
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 19:01

Client Sample ID: SB47 (7.5-10)
Date Collected: 09/05/24 11:26
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 13:24
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 11:49
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802918	RB	EET CHI	01/14/25 16:43
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		5	803029	SJ	EET CHI	01/15/25 12:04
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 19:16

Client Sample ID: SB48 (0-3)
Date Collected: 09/05/24 11:47
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 12:02
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802918	RB	EET CHI	01/14/25 16:48

Client Sample ID: SB48 (5-7.5)
Date Collected: 09/05/24 11:52
Date Received: 09/06/24 12:35

Lab Sample ID: 500-256275-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			640187	KLE	EET CLE	12/29/24 16:00 - 12/30/24 08:35 [1]
SPLP East	Prep	3010A			640243	S4FJ	EET CLE	12/30/24 14:00
SPLP East	Analysis	6010D		1	640423	RKT	EET CLE	01/01/25 03:34

Client Sample ID: SB48 (5-7.5)
Lab Sample ID: 500-256275-10
Date Collected: 09/05/24 11:52
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/15/24 19:52
TCLP	Leach	1311			640346	KLE	EET CLE	12/30/24 15:30 - 12/31/24 09:05 [1]
TCLP	Prep	3010A			640405	MN7X	EET CLE	12/31/24 14:00
TCLP	Analysis	6020B		1	640570	AJC	EET CLE	01/02/25 15:14

Client Sample ID: SB49 (0-3)
Lab Sample ID: 500-256275-11
Date Collected: 09/05/24 12:43
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 13:28
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6020B		1	802934	RN	EET CHI	01/14/25 17:47

Client Sample ID: SB49 (10-12.5)
Lab Sample ID: 500-256275-12
Date Collected: 09/05/24 13:07
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 13:33
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 12:07
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 19:20

Client Sample ID: SB50 (0-3)
Lab Sample ID: 500-256275-13
Date Collected: 09/05/24 13:47
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 13:37
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 12:12

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB50 (0-3)
Lab Sample ID: 500-256275-13
Date Collected: 09/05/24 13:47
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802918	RB	EET CHI	01/14/25 16:52
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 19:24

Client Sample ID: SB50 (7.5-10)
Lab Sample ID: 500-256275-14
Date Collected: 09/05/24 13:58
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6020B		1	794479	RN	EET CHI	11/07/24 17:07
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6020B		1	793227	RN	EET CHI	10/30/24 16:31

Client Sample ID: SB51 (0-3)
Lab Sample ID: 500-256275-15
Date Collected: 09/05/24 10:00
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6010D		1	794312	SJ	EET CHI	11/07/24 00:11
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6010D		1	803990	SJ	EET CHI	01/23/25 12:31
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 13:15
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6020B		1	793227	RN	EET CHI	10/30/24 16:34

Client Sample ID: SB51 (5-7.5)
Lab Sample ID: 500-256275-16
Date Collected: 09/05/24 10:30
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 13:50

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB51 (5-7.5)
Lab Sample ID: 500-256275-16
Date Collected: 09/05/24 10:30
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 12:16
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 19:39

Client Sample ID: SB52 (0-3)
Lab Sample ID: 500-256275-17
Date Collected: 09/05/24 11:20
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 13:55
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 12:21
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 19:43

Client Sample ID: SB52 (7.5-10)
Lab Sample ID: 500-256275-18
Date Collected: 09/05/24 11:30
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 13:59
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 13:20

Client Sample ID: SB53 (0-3)
Lab Sample ID: 500-256275-19
Date Collected: 09/05/24 13:00
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 12:14
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 12:25

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256275-8

Client Sample ID: SB53 (0-3)

Lab Sample ID: 500-256275-19
Date Collected: 09/05/24 13:00
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802918	RB	EET CHI	01/14/25 16:57
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 19:47

Client Sample ID: SB53 (10-12.5)

Lab Sample ID: 500-256275-20
Date Collected: 09/05/24 13:30
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 12:32

Client Sample ID: SB54 (0-3)

Lab Sample ID: 500-256275-21
Date Collected: 09/05/24 14:00
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 13:29
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 12:30
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 19:51

Client Sample ID: SB54 (10-12.5)

Lab Sample ID: 500-256275-22
Date Collected: 09/05/24 14:30
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 13:33
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6020B		1	803094	RN	EET CHI	01/15/25 19:11

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB55 (0-3)
Lab Sample ID: 500-256275-23
Date Collected: 09/05/24 15:00
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			640187	KLE	EET CLE	12/29/24 16:00 - 12/30/24 08:35 [1]
SPLP East	Prep	3010A			640243	S4FJ	EET CLE	12/30/24 14:00
SPLP East	Analysis	6010D		1	640423	RKT	EET CLE	01/01/25 03:56
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/15/24 19:57
TCLP	Leach	1311			640346	KLE	EET CLE	12/30/24 15:30 - 12/31/24 09:05 [1]
TCLP	Prep	3010A			640405	MN7X	EET CLE	12/31/24 14:00
TCLP	Analysis	6020B		1	640570	AJC	EET CLE	01/02/25 15:17

Client Sample ID: SB55 (5-7.5)
Lab Sample ID: 500-256275-24
Date Collected: 09/05/24 15:30
Matrix: Solid
Date Received: 09/06/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 13:38
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6020B		1	803094	RN	EET CHI	01/15/25 19:13

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256275-8
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	02-13-25

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24
Wisconsin	State	399167560	08-31-25

Chain of Custody Record 719735

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact	Date:	COC No 1
Company Name: Pioneer	Tel/Email: jhartsock@pioneerresea	Lab Contact:	Carrier:	1 of 2 COCs
Address: 2753 W 31st St	Analysis Turnaround Time			Sampler
City/State/Zip: Chicago, IL, 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name: 3080 S. Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO# 24-0124-103	☐ 1 day			500-256275

500-256275 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL+PH	Sample Specific Notes
1	SB44 (0-3)	9/5/24	9:43am	G	S	4			X	
2	SB44 (5-7.5)		9:52am						X	
3	SB45 (0-3)		10:15am						X	
4	SB45 (5-7.5)		10:36am						X	
5	SB46 (0-3)		10:52am						X	
6	SB46 (3-5)		11:07am						X	
7	SB47 (0-3)		11:17am						X	
8	SB47 (7.5-10)		11:26am						X	
9	SB48 (0-3)		11:47am						X	
10	SB48 (5-7.5)		11:52am						X	
11	SB49 (0-3)		12:43pm						X	
12	SB49 (10-12.5)		1:07pm						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 2.4 Corr'd 2.1 | Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	Pioneer	9/6/24	Received by	EEA	9/6/24 1045
Relinquished by	EEA 9/6/24	1235	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	EEA	9/6/24 1235

Address _____

Chain of Custody Record 719736

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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact	Date	COC No 2
Company Name: Pioneer	Tel/Email: jhartsock@pioneereesi.com	Lab Contact	Carrier	2 of 2 COCs
Address: 2753 N 31st St	Analysis Turnaround Time			Sampler
City/State/Zip: Chicago, IL, 60645	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name: 8060 S. Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No: 500-256225
PO# 24-0124-103	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCLP all	Sample Specific Notes
13	SB50 (0-3)	9/6/24	1.47pm	G	S	4			X	
14	SB50 (7.5-10)		1.58pm						X	
15	SB51 (0-3)		10.00am						X	
16	SB51 (5-7.5)		10.30am						X	
17	SB52 (0-3)		11.00am						X	
18	SB52 (7.5-10)		11.30am						X	
19	SB53 (0-3)		1.00pm						X	
20	SB53 (10-12.5)		1.30pm						X	
21	SB54 (0-3)		2.00pm						X	
22	SB54 (10-12.5)		2.30pm						X	
23	SB55 (0-3)		3.00pm						X	
24	SB55 (5-7.5)		3.30pm						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____			
Relinquished by	Company: Pioneer	Date/Time: 9/6/24	Received by	Company: BETA	Date/Time: 9/6/24 1045
Relinquished by	Company: BETA 9/6/24	Date/Time: 1235	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: BETA	Date/Time: 9/6/24 1235

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256275-8

Login Number: 256275
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/14/2025 5:41:39 PM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256339-6

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/14/2025 5:41:39 PM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256339-2 — Eurofins Chicago

Job Narrative
500-256339-2

Revision
The report being provided is a revision of the original report sent on 10/17/2024. The report (revision 3) is being revised due to: Add TCLP Sb to SB57 (0-3) per client request.

Report revision history
Revision 1 - 11/18/2024 - Reason - The report and EDD have been revised to include TCLP V for sample SB57(0-3)..

Revision 2 - 1/17/2025 - Reason - Add TCLP Be, Cu, Ni, Tl to SB57 (0-3).

Receipt
The samples were received on 9/9/2024 10:16 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

Metals
Method 7470A: The following sample(s) was prepared outside of preparation holding time due to mercury being requested after hold time had expired. SB57 (0-3) (500-256339-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 1311: The following sample was prepared outside of preparation holding time due to the analysis being requested after the holding time had elapsed: SB57 (0-3) (500-256339-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-256339-3 — Eurofins Chicago

Job Narrative
500-256339-3

Revision
The report being provided is a revision of the original report sent on 10/30/2024. The report (revision 1) is being revised due to: Add additional TCLP analytes per client request.

Receipt
The samples were received on 9/9/2024 10:16 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256339-4 — Eurofins Chicago

Job Narrative
500-256339-4

Revision
The report being provided is a revision of the original report sent on 11/13/2024. The report (revision 2) is being revised due to: Add SPLP Fe per client request.

Report revision history
Revision 1 - 1/21/2025 - Reason - Add SPLP Se to SB57 (7.5-10) per client request.

Receipt
The samples were received on 9/9/2024 10:16 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256339-5 — Eurofins Chicago

Job Narrative
500-256339-5

Revision
The report being provided is a revision of the original report sent on 11/29/2024. The report (revision 2) is being revised due to: Add SPLP Sb to SB57 (0-3) per client request.

Report revision history
Revision 1 - 1/21/2025 - Reason - Add SPLP Mn to SB57 (0-3) per client request.

Receipt
The samples were received on 9/9/2024 10:16 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256339-6 — Eurofins Chicago

Job Narrative
500-256339-6

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 1) is being revised due to: Add additional SPLP analytes to selected samples per client request.

Receipt
The samples were received on 9/9/2024 10:16 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

Metals
Method 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 500-802847, the temperature dropped below this range to 17.4 degrees Celsius. This was due to extreme cold outside and our heating system not maintaining temperature overnight. As a result, the test was not compliant with the requirements of 40 CFR Part 261.

Method 1312: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 500-802813, the temperature was outside of this range. As a result, the test was not compliant with the requirements of 40 CFR Part 261.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256339-8 — Eurofins Chicago

Job Narrative
500-256339-8

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/9/2024 10:16 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-6

Client Sample ID: SB56 (0-3) — Lab Sample ID: 500-256339-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.56		0.20		mg/L	1		6010D	TCLP
Manganese	0.010	J	0.015	0.0026	mg/L	1		6010D	SPLP East
Arsenic	0.0024	J	0.0050	0.00075	mg/L	1		6020B	TCLP
Cadmium	0.00078	J B	0.0010	0.000077	mg/L	1		6020B	TCLP
Chromium	0.0014	J	0.0050	0.0012	mg/L	1		6020B	TCLP
Copper	0.016		0.0020	0.0017	mg/L	1		6020B	TCLP
Nickel	0.0096		0.0020	0.0015	mg/L	1		6020B	TCLP

Client Sample ID: SB56 (5-7.5) — Lab Sample ID: 500-256339-2

No Detections.

Client Sample ID: SB57 (0-3) — Lab Sample ID: 500-256339-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.33		0.0050		mg/L	1		6020B	TCLP
Chromium	0.021		0.0050		mg/L	1		6020B	TCLP
Nickel	0.016		0.0020		mg/L	1		6020B	TCLP
Vanadium	0.099		0.020		mg/L	1		6020B	TCLP
Vanadium	0.17		0.020		mg/L	1		6020B	SPLP East

Client Sample ID: SB57 (7.5-10) — Lab Sample ID: 500-256339-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	8.9		0.20		mg/L	1		6010D	TCLP
Iron	0.61		0.20		mg/L	1		6010D	SPLP East

Client Sample ID: SB58 (0-3) — Lab Sample ID: 500-256339-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.017	J B	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB59 (0-3) — Lab Sample ID: 500-256339-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.010	J	0.025	0.010	mg/L	1		6010D	SPLP East
Iron	0.91		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.072	B	0.025	0.010	mg/L	1		6010D	SPLP East
Zinc	0.022	J	0.10	0.020	mg/L	1		6010D	SPLP East

Client Sample ID: SB59 (5-7.5) — Lab Sample ID: 500-256339-8

No Detections.

Client Sample ID: SB60 (0-3) — Lab Sample ID: 500-256339-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.010	J	0.025	0.010	mg/L	1		6010D	TCLP
Nickel	0.028		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.038	J	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.041	B	0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB60 (7.5-10) — Lab Sample ID: 500-256339-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.012	J	0.025	0.010	mg/L	1		6010D	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.028	J	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.067	B	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB61 (0-3) — Lab Sample ID: 500-256339-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.039		0.025		mg/L	1		6010D	TCLP
Iron	18		0.20		mg/L	1		6010D	TCLP
Lead	0.11		0.0075		mg/L	1		6010D	TCLP
Nickel	0.11		0.025		mg/L	1		6010D	TCLP
Zinc	0.24		0.10		mg/L	1		6010D	TCLP
Iron	3.9		0.20	0.20	mg/L	1		6010D	SPLP East
Lead	0.083		0.0075	0.0075	mg/L	1		6010D	SPLP East
Manganese	0.45		0.025	0.010	mg/L	1		6010D	SPLP East
Nickel	0.21		0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0036	J	0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB61 (17.5-19) — Lab Sample ID: 500-256339-13

No Detections.

Client Sample ID: SB62 (0-3) — Lab Sample ID: 500-256339-14

No Detections.

Client Sample ID: SB62 (7.5-10) — Lab Sample ID: 500-256339-15

No Detections.

Client Sample ID: SB63 (0-3) — Lab Sample ID: 500-256339-16

No Detections.

Client Sample ID: SB63 (5-7.5) — Lab Sample ID: 500-256339-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.015	J B	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB64 (0-3) — Lab Sample ID: 500-256339-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.21		0.20	0.20	mg/L	1		6010D	TCLP
Manganese	0.021	J B	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB64 (7.5-10) — Lab Sample ID: 500-256339-19

No Detections.

Client Sample ID: SB65 (0-3) — Lab Sample ID: 500-256339-20

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB65 (7.5-10) — Lab Sample ID: 500-256339-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.36		0.040		mg/L	1		6010D	TCLP
Iron	0.15		0.10	0.047	mg/L	1		6020B	TCLP
Antimony	0.0013	J	0.0020	0.00057	mg/L	1		6020B	SPLP East
Chromium	0.0030	J	0.0050	0.0012	mg/L	1		6020B	SPLP East
Iron	0.85		0.10	0.047	mg/L	1		6020B	SPLP East
Lead	0.0030		0.0010	0.00045	mg/L	1		6020B	SPLP East
Vanadium	0.018	J	0.020	0.00082	mg/L	1		6020B	SPLP East

Client Sample ID: SB66 (0-3) — Lab Sample ID: 500-256339-22

No Detections.

Client Sample ID: SB66 (5-7.5) — Lab Sample ID: 500-256339-23

No Detections.

Client Sample ID: SB67 (0-3) — Lab Sample ID: 500-256339-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.48		0.20	0.20	mg/L	1		6010D	TCLP
Zinc	0.049	J	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.014	J	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB67 (3-5) — Lab Sample ID: 500-256339-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.026		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.079	J	0.10	0.020	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CLE
1311	Toxicity Characteristic Leachate Procedure	SW846	EET CLE
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
1312	Synthetic Precipitation Leaching Procedure -East (Metals)	SW846	EET CLE
1312	SPLP Extraction	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256339-1	SB56 (0-3)	Solid	09/06/24 09:42	09/09/24 10:16
500-256339-2	SB56 (5-7.5)	Solid	09/06/24 09:50	09/09/24 10:16
500-256339-3	SB57 (0-3)	Solid	09/06/24 10:17	09/09/24 10:16
500-256339-4	SB57 (7.5-10)	Solid	09/06/24 10:20	09/09/24 10:16
500-256339-5	SB58 (0-3)	Solid	09/06/24 11:22	09/09/24 10:16
500-256339-7	SB59 (0-3)	Solid	09/06/24 12:07	09/09/24 10:16
500-256339-8	SB59 (5-7.5)	Solid	09/06/24 12:17	09/09/24 10:16
500-256339-9	SB60 (0-3)	Solid	09/06/24 13:36	09/09/24 10:16
500-256339-10	SB60 (7.5-10)	Solid	09/06/24 13:42	09/09/24 10:16
500-256339-11	SB61 (0-3)	Solid	09/06/24 08:37	09/09/24 10:16
500-256339-13	SB61 (17.5-19)	Solid	09/06/24 09:15	09/09/24 10:16
500-256339-14	SB62 (0-3)	Solid	09/06/24 09:41	09/09/24 10:16
500-256339-15	SB62 (7.5-10)	Solid	09/06/24 09:52	09/09/24 10:16
500-256339-16	SB63 (0-3)	Solid	09/06/24 10:32	09/09/24 10:16
500-256339-17	SB63 (5-7.5)	Solid	09/06/24 10:45	09/09/24 10:16
500-256339-18	SB64 (0-3)	Solid	09/06/24 11:57	09/09/24 10:16
500-256339-19	SB64 (7.5-10)	Solid	09/06/24 12:18	09/09/24 10:16
500-256339-20	SB65 (0-3)	Solid	09/06/24 13:14	09/09/24 10:16
500-256339-21	SB65 (7.5-10)	Solid	09/06/24 13:25	09/09/24 10:16
500-256339-22	SB66 (0-3)	Solid	09/06/24 14:08	09/09/24 10:16
500-256339-23	SB66 (5-7.5)	Solid	09/06/24 14:18	09/09/24 10:16
500-256339-24	SB67 (0-3)	Solid	09/06/24 14:55	09/09/24 10:16
500-256339-25	SB67 (3-5)	Solid	09/06/24 15:00	09/09/24 10:16

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB56 (0-3)
Lab Sample ID: 500-256339-1

Date Collected: 09/06/24 09:42
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.56**		0.20		mg/L		10/14/24 14:00	10/15/24 20:01	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.010**	**J**	0.015	0.0026	mg/L		12/30/24 14:00	01/01/25 04:09	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0024**	**J**	0.0050	0.00075	mg/L		12/31/24 14:00	01/02/25 15:25	1
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 15:25	1
Cadmium	**0.00078**	**J B**	0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 15:25	1
Chromium	**0.0014**	**J**	0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 15:25	1
Copper	**0.016**		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 15:25	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 15:25	1
Nickel	**0.0096**		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 15:25	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 15:25	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 15:25	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 15:25	1
Zinc	<0.015		0.020	0.015	mg/L		12/31/24 14:00	01/02/25 15:25	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB56 (5-7.5)
Lab Sample ID: 500-256339-2
Date Collected: 09/06/24 09:50
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:21	01/15/25 13:51	1
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 13:51	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 13:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB57 (0-3)
Lab Sample ID: 500-256339-3

Date Collected: 09/06/24 10:17
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:39	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:39	1
Barium	**0.33**		0.0050		mg/L		10/14/24 14:00	10/15/24 19:39	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:39	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:39	1
Chromium	**0.021**		0.0050		mg/L		10/14/24 14:00	10/15/24 19:39	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:39	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:39	1
Nickel	**0.016**		0.0020		mg/L		10/14/24 14:00	10/15/24 19:39	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:39	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:39	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:39	1
Vanadium	**0.099**		0.020		mg/L		10/14/24 14:00	10/15/24 19:39	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		11/25/24 14:00	11/26/24 18:54	1
Manganese	<0.0050		0.0050		mg/L		11/25/24 14:00	11/26/24 18:54	1
Vanadium	**0.17**		0.020		mg/L		11/25/24 14:00	11/26/24 18:54	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	H	0.0020		mg/L		10/14/24 14:00	10/15/24 11:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB57 (7.5-10)
Lab Sample ID: 500-256339-4
Date Collected: 09/06/24 10:20
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**8.9**		0.20		mg/L		10/29/24 14:15	10/30/24 13:24	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.61**		0.20		mg/L		11/06/24 08:43	01/23/25 12:36	1
Manganese	<0.025		0.025		mg/L		11/06/24 08:43	11/07/24 00:16	1
Selenium	<0.050		0.050		mg/L		11/06/24 08:43	11/07/24 00:16	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/14/25 14:21	01/15/25 19:16	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 19:16	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB58 (0-3)
Lab Sample ID: 500-256339-5

Date Collected: 09/06/24 11:22
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:18	01/14/25 12:35	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/13/25 14:18	01/14/25 12:35	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:35	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 12:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:18	01/14/25 12:35	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 12:35	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:35	1
Zinc	<0.020		0.10	0.020	mg/L		01/13/25 14:18	01/14/25 12:35	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.017**	**J B**	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 13:55	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 19:55	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB59 (0-3)
Lab Sample ID: 500-256339-7

Date Collected: 09/06/24 12:07
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:21	01/15/25 14:30	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:21	01/15/25 14:30	1
Copper	**0.010**	**J**	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 14:30	1
Iron	**0.91**		0.20	0.20	mg/L		01/14/25 14:21	01/15/25 14:30	1
Manganese	**0.072**	**B**	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 14:30	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 14:30	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 14:30	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 14:30	1
Zinc	**0.022**	**J**	0.10	0.020	mg/L		01/14/25 14:21	01/15/25 14:30	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 19:18	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB59 (5-7.5)
Lab Sample ID: 500-256339-8
Date Collected: 09/06/24 12:17
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 14:35	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 19:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB60 (0-3)
Lab Sample ID: 500-256339-9

Date Collected: 09/06/24 13:36
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:18	01/14/25 12:39	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/13/25 14:18	01/14/25 12:39	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:39	1
Copper	**0.010**	**J**	0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:39	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 12:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:18	01/14/25 12:39	1
Nickel	**0.028**		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:39	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 12:39	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:39	1
Zinc	**0.038**	**J**	0.10	0.020	mg/L		01/13/25 14:18	01/14/25 17:34	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.041**	**B**	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 14:39	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 19:58	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB60 (7.5-10)
Lab Sample ID: 500-256339-10

Date Collected: 09/06/24 13:42
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:18	01/14/25 12:44	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/13/25 14:18	01/14/25 12:44	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:44	1
Copper	**0.012**	**J**	0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:44	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 12:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:18	01/14/25 12:44	1
Nickel	**0.019**	**J**	0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:44	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 12:44	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:44	1
Zinc	**0.028**	**J**	0.10	0.020	mg/L		01/13/25 14:18	01/14/25 17:39	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.067**	**B**	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 14:46	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 20:02	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61 (0-3)
Lab Sample ID: 500-256339-11

Date Collected: 09/06/24 08:37
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 13:29	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 13:29	1
Chromium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 13:29	1
Copper	**0.039**		0.025		mg/L		10/29/24 14:15	10/30/24 13:29	1
Iron	**18**		0.20		mg/L		10/29/24 14:15	10/30/24 13:29	1
Lead	**0.11**		0.0075		mg/L		10/29/24 14:15	10/30/24 13:29	1
Nickel	**0.11**		0.025		mg/L		10/29/24 14:15	10/30/24 13:29	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 13:29	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 13:29	1
Zinc	**0.24**		0.10		mg/L		10/29/24 14:15	10/30/24 13:29	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.9**		0.20	0.20	mg/L		01/15/25 14:14	01/16/25 11:24	1
Lead	**0.083**		0.0075	0.0075	mg/L		01/15/25 14:14	01/16/25 11:24	1
Manganese	**0.45**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 11:24	1
Nickel	**0.21**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 11:24	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0036**	**J**	0.0060	0.0013	mg/L		01/15/25 14:11	01/16/25 16:46	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:11	01/16/25 16:46	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61 (17.5-19)
Lab Sample ID: 500-256339-13
Date Collected: 09/06/24 09:15
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:21	01/15/25 14:50	1
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 14:50	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 14:50	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 14:50	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 19:23	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB62 (0-3)
Lab Sample ID: 500-256339-14
Date Collected: 09/06/24 09:41
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 14:55	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 19:26	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB62 (7.5-10)
Lab Sample ID: 500-256339-15

Date Collected: 09/06/24 09:52
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50		mg/L		10/29/24 14:15	10/30/24 13:42	1
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 13:42	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 13:42	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 13:42	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 13:42	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 11:28	1
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:14	01/16/25 11:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/15/25 14:14	01/16/25 11:28	1
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 11:28	1
Vanadium	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 11:28	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/15/25 14:11	01/16/25 16:50	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:11	01/16/25 16:50	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB63 (0-3)
Lab Sample ID: 500-256339-16
Date Collected: 09/06/24 10:32
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:21	01/15/25 14:59	1
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 14:59	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 14:59	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 14:59	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 19:28	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB63 (5-7.5)
Lab Sample ID: 500-256339-17
Date Collected: 09/06/24 10:45
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:21	01/15/25 15:03	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/23/25 13:13	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:21	01/15/25 15:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:21	01/15/25 15:03	1
Manganese	**0.015**	**J B**	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 15:03	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 15:03	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 15:03	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 15:03	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/14/25 14:21	01/15/25 19:31	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 19:31	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB64 (0-3)
Lab Sample ID: 500-256339-18
Date Collected: 09/06/24 11:57
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:18	01/14/25 13:04	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/13/25 14:18	01/14/25 13:04	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 13:04	1
Iron	**0.21**		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 17:48	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 13:04	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 13:04	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.021**	**J B**	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 15:08	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/13/25 14:18	01/15/25 20:14	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 20:14	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB64 (7.5-10)
Lab Sample ID: 500-256339-19

Date Collected: 09/06/24 12:18
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:23	01/15/25 12:19	1
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:19	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:19	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:23	01/15/25 17:59	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB65 (0-3)
Lab Sample ID: 500-256339-20
Date Collected: 09/06/24 13:14
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:23	01/15/25 12:45	1
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:45	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:45	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:23	01/15/25 12:45	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:45	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:23	01/15/25 18:15	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB65 (7.5-10)
Lab Sample ID: 500-256339-21
Date Collected: 09/06/24 13:25
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**0.36**		0.040		mg/L		10/14/24 14:00	10/15/24 20:14	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.040		0.040		mg/L		10/25/24 14:00	10/29/24 07:00	1
Manganese	<0.015		0.015		mg/L		10/25/24 14:00	10/29/24 07:00	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 15:28	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 15:28	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 15:28	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 15:28	1
Iron	**0.15**		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 15:28	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 15:28	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 15:28	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 15:28	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0013**	**J**	0.0020	0.00057	mg/L		01/24/25 14:00	01/27/25 14:59	1
Chromium	**0.0030**	**J**	0.0050	0.0012	mg/L		01/24/25 14:00	01/27/25 14:59	1
Iron	**0.85**		0.10	0.047	mg/L		01/24/25 14:00	01/27/25 14:59	1
Lead	**0.0030**		0.0010	0.00045	mg/L		01/24/25 14:00	01/27/25 14:59	1
Vanadium	**0.018**	**J**	0.020	0.00082	mg/L		01/24/25 14:00	01/27/25 14:59	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB66 (0-3)
Lab Sample ID: 500-256339-22

Date Collected: 09/06/24 14:08
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:23	01/15/25 12:49	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:23	01/15/25 12:49	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:49	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:23	01/15/25 18:18	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB66 (5-7.5)
Lab Sample ID: 500-256339-23
Date Collected: 09/06/24 14:18
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:23	01/15/25 12:54	1
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:54	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:23	01/15/25 12:54	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB67 (0-3)
Lab Sample ID: 500-256339-24
Date Collected: 09/06/24 14:55
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 13:09	1
Copper	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 13:09	1
Iron	**0.48**		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 17:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:18	01/14/25 13:09	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 13:09	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 13:09	1
Zinc	**0.049**	**J**	0.10	0.020	mg/L		01/13/25 14:18	01/14/25 17:53	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.014**	**J**	0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:58	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 20:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB67 (3-5)
Lab Sample ID: 500-256339-25

Date Collected: 09/06/24 15:00
Matrix: Solid
Date Received: 09/09/24 10:16

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:18	01/14/25 12:59	1
Copper	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:59	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 12:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:18	01/14/25 12:59	1
Nickel	**0.026**		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:59	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 12:59	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 12:59	1
Zinc	**0.079**	**J**	0.10	0.020	mg/L		01/13/25 14:18	01/14/25 17:44	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 20:06	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 630581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	TCLP	Solid	1311	
500-256339-3	SB57 (0-3)	TCLP	Solid	1311	
500-256339-21	SB65 (7.5-10)	TCLP	Solid	1311	
LB 240-630581/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 630682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	TCLP	Solid	3010A	630581
500-256339-3	SB57 (0-3)	TCLP	Solid	3010A	630581
500-256339-21	SB65 (7.5-10)	TCLP	Solid	3010A	630581
LB 240-630581/1-B	Method Blank	TCLP	Solid	3010A	630581
MB 240-630682/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630682/3-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 240-630682/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 630688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-3	SB57 (0-3)	TCLP	Solid	7470A	630581
LB 240-630688/1-A	Method Blank	Total/NA	Solid	7470A	
MB 240-630688/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 240-630688/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 630895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-3	SB57 (0-3)	TCLP	Solid	7470A	630688
LB 240-630688/1-A	Method Blank	Total/NA	Solid	7470A	630688
MB 240-630688/2-A	Method Blank	Total/NA	Solid	7470A	630688
LCS 240-630688/3-A	Lab Control Sample	Total/NA	Solid	7470A	630688

Analysis Batch: 630918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	TCLP	Solid	6010D	630682
500-256339-21	SB65 (7.5-10)	TCLP	Solid	6010D	630682
LB 240-630581/1-B	Method Blank	TCLP	Solid	6010D	630682
MB 240-630682/2-A	Method Blank	Total/NA	Solid	6010D	630682
LCS 240-630682/3-A	Lab Control Sample	Total/NA	Solid	6010D	630682

Analysis Batch: 630986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-3	SB57 (0-3)	TCLP	Solid	6020B	630682
LB 240-630581/1-B	Method Blank	TCLP	Solid	6020B	630682
MB 240-630682/2-A	Method Blank	Total/NA	Solid	6020B	630682
LCS 240-630682/4-A	Lab Control Sample	Total/NA	Solid	6020B	630682

Leach Batch: 632368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-21	SB65 (7.5-10)	SPLP East	Solid	1312	
LB 240-632368/1-B	Method Blank	SPLP East	Solid	1312	

Metals

Prep Batch: 632464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-21	SB65 (7.5-10)	SPLP East	Solid	3010A	632368
LB 240-632368/1-B	Method Blank	SPLP East	Solid	3010A	632368
MB 240-632464/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-632464/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 632866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-21	SB65 (7.5-10)	SPLP East	Solid	6010D	632464
LB 240-632368/1-B	Method Blank	SPLP East	Solid	6010D	632464
MB 240-632464/2-A	Method Blank	Total/NA	Solid	6010D	632464
LCS 240-632464/3-A	Lab Control Sample	Total/NA	Solid	6010D	632464

Leach Batch: 636521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-3	SB57 (0-3)	SPLP East	Solid	1312	
LB 240-636521/1-B	Method Blank	SPLP East	Solid	1312	
500-256339-3 MS	SB57 (0-3)	SPLP East	Solid	1312	
500-256339-3 MSD	SB57 (0-3)	SPLP East	Solid	1312	

Prep Batch: 636636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-3	SB57 (0-3)	SPLP East	Solid	3010A	636521
LB 240-636521/1-B	Method Blank	SPLP East	Solid	3010A	636521
MB 240-636636/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-636636/3-A ^2	Lab Control Sample	Total/NA	Solid	3010A	
500-256339-3 MS	SB57 (0-3)	SPLP East	Solid	3010A	636521
500-256339-3 MSD	SB57 (0-3)	SPLP East	Solid	3010A	636521

Analysis Batch: 636887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-3	SB57 (0-3)	SPLP East	Solid	6020B	636636
LB 240-636521/1-B	Method Blank	SPLP East	Solid	6020B	636636
MB 240-636636/2-A	Method Blank	Total/NA	Solid	6020B	636636
LCS 240-636636/3-A ^2	Lab Control Sample	Total/NA	Solid	6020B	636636
500-256339-3 MS	SB57 (0-3)	SPLP East	Solid	6020B	636636
500-256339-3 MSD	SB57 (0-3)	SPLP East	Solid	6020B	636636

Leach Batch: 640187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	SPLP East	Solid	1312	
LB 240-640187/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 640243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	SPLP East	Solid	3010A	640187
LB 240-640187/1-B	Method Blank	SPLP East	Solid	3010A	640187
MB 240-640243/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640243/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals

Leach Batch: 640346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	TCLP	Solid	1311	
500-256339-21	SB65 (7.5-10)	TCLP	Solid	1311	
LB 240-640346/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 640405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	TCLP	Solid	3010A	640346
500-256339-21	SB65 (7.5-10)	TCLP	Solid	3010A	640346
LB 240-640346/1-B	Method Blank	TCLP	Solid	3010A	640346
MB 240-640405/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640405/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 640423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	SPLP East	Solid	6010D	640243
LB 240-640187/1-B	Method Blank	SPLP East	Solid	6010D	640243
MB 240-640243/2-A	Method Blank	Total/NA	Solid	6010D	640243
LCS 240-640243/3-A	Lab Control Sample	Total/NA	Solid	6010D	640243

Analysis Batch: 640570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-1	SB56 (0-3)	TCLP	Solid	6020B	640405
500-256339-21	SB65 (7.5-10)	TCLP	Solid	6020B	640405
LB 240-640346/1-B	Method Blank	TCLP	Solid	6020B	640405
MB 240-640405/2-A	Method Blank	Total/NA	Solid	6020B	640405
LCS 240-640405/4-A	Lab Control Sample	Total/NA	Solid	6020B	640405

Leach Batch: 642422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-21	SB65 (7.5-10)	SPLP East	Solid	1312	
LB 240-642422/1-B	Method Blank	SPLP East	Solid	1312	
500-256339-21 MS	SB65 (7.5-10)	SPLP East	Solid	1312	
500-256339-21 MSD	SB65 (7.5-10)	SPLP East	Solid	1312	

Prep Batch: 642457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-21	SB65 (7.5-10)	SPLP East	Solid	3010A	642422
LB 240-642422/1-B	Method Blank	SPLP East	Solid	3010A	642422
MB 240-642457/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-642457/3-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256339-21 MS	SB65 (7.5-10)	SPLP East	Solid	3010A	642422
500-256339-21 MSD	SB65 (7.5-10)	SPLP East	Solid	3010A	642422

Analysis Batch: 642678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-21	SB65 (7.5-10)	SPLP East	Solid	6020B	642457
LB 240-642422/1-B	Method Blank	SPLP East	Solid	6020B	642457
MB 240-642457/2-A	Method Blank	Total/NA	Solid	6020B	642457
LCS 240-642457/3-A	Lab Control Sample	Total/NA	Solid	6020B	642457
500-256339-21 MS	SB65 (7.5-10)	SPLP East	Solid	6020B	642457
500-256339-21 MSD	SB65 (7.5-10)	SPLP East	Solid	6020B	642457

Metals

Leach Batch: 792364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-4	SB57 (7.5-10)	TCLP	Solid	1311	
500-256339-11	SB61 (0-3)	TCLP	Solid	1311	
500-256339-15	SB62 (7.5-10)	TCLP	Solid	1311	
LB 500-792364/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 792710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-4	SB57 (7.5-10)	TCLP	Solid	3010A	792364
500-256339-11	SB61 (0-3)	TCLP	Solid	3010A	792364
500-256339-15	SB62 (7.5-10)	TCLP	Solid	3010A	792364
LB 500-792364/1-B	Method Blank	TCLP	Solid	3010A	792364
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 793149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-4	SB57 (7.5-10)	TCLP	Solid	6010D	792710
500-256339-11	SB61 (0-3)	TCLP	Solid	6010D	792710
500-256339-15	SB62 (7.5-10)	TCLP	Solid	6010D	792710
LB 500-792364/1-B	Method Blank	TCLP	Solid	6010D	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6010D	792710

Leach Batch: 793820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-4	SB57 (7.5-10)	SPLP East	Solid	1312	
LB 500-793820/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 794087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-4	SB57 (7.5-10)	SPLP East	Solid	3010A	793820
LB 500-793820/1-B	Method Blank	SPLP East	Solid	3010A	793820
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 794312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-4	SB57 (7.5-10)	SPLP East	Solid	6010D	794087
LB 500-793820/1-B	Method Blank	SPLP East	Solid	6010D	794087
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	6010D	794087

Leach Batch: 802539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-5	SB58 (0-3)	TCLP	Solid	1311	
500-256339-9	SB60 (0-3)	TCLP	Solid	1311	
500-256339-10	SB60 (7.5-10)	TCLP	Solid	1311	
500-256339-18	SB64 (0-3)	TCLP	Solid	1311	
500-256339-24	SB67 (0-3)	TCLP	Solid	1311	
500-256339-25	SB67 (3-5)	TCLP	Solid	1311	
LB 500-802539/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 802634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-2	SB56 (5-7.5)	SPLP East	Solid	1312	

Metals (Continued)

Leach Batch: 802634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-4	SB57 (7.5-10)	SPLP East	Solid	1312	
500-256339-5	SB58 (0-3)	SPLP East	Solid	1312	
500-256339-7	SB59 (0-3)	SPLP East	Solid	1312	
500-256339-8	SB59 (5-7.5)	SPLP East	Solid	1312	
500-256339-9	SB60 (0-3)	SPLP East	Solid	1312	
500-256339-10	SB60 (7.5-10)	SPLP East	Solid	1312	
500-256339-13	SB61 (17.5-19)	SPLP East	Solid	1312	
500-256339-14	SB62 (0-3)	SPLP East	Solid	1312	
500-256339-16	SB63 (0-3)	SPLP East	Solid	1312	
500-256339-17	SB63 (5-7.5)	SPLP East	Solid	1312	
500-256339-18	SB64 (0-3)	SPLP East	Solid	1312	
LB 500-802634/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 802650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-19	SB64 (7.5-10)	SPLP East	Solid	1312	
500-256339-20	SB65 (0-3)	SPLP East	Solid	1312	
500-256339-22	SB66 (0-3)	SPLP East	Solid	1312	
500-256339-23	SB66 (5-7.5)	SPLP East	Solid	1312	
500-256339-24	SB67 (0-3)	SPLP East	Solid	1312	
LB 500-802650/1-B	Method Blank	SPLP East	Solid	1312	
500-256339-19 MS	SB64 (7.5-10)	SPLP East	Solid	1312	
500-256339-19 DU	SB64 (7.5-10)	SPLP East	Solid	1312	

Prep Batch: 802680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-5	SB58 (0-3)	TCLP	Solid	3010A	802539
500-256339-9	SB60 (0-3)	TCLP	Solid	3010A	802539
500-256339-10	SB60 (7.5-10)	TCLP	Solid	3010A	802539
500-256339-18	SB64 (0-3)	TCLP	Solid	3010A	802539
500-256339-24	SB67 (0-3)	TCLP	Solid	3010A	802539
500-256339-25	SB67 (3-5)	TCLP	Solid	3010A	802539
LB 500-802539/1-B	Method Blank	TCLP	Solid	3010A	802539
LCS 500-802680/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Leach Batch: 802813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-11	SB61 (0-3)	SPLP East	Solid	1312	
500-256339-15	SB62 (7.5-10)	SPLP East	Solid	1312	
LB 500-802813/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 802847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-11	SB61 (0-3)	TCLP	Solid	1311	
500-256339-15	SB62 (7.5-10)	TCLP	Solid	1311	
LB 500-802847/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 802849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-2	SB56 (5-7.5)	SPLP East	Solid	3010A	802634
500-256339-4	SB57 (7.5-10)	SPLP East	Solid	3010A	802634

Metals (Continued)

Prep Batch: 802849 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-5	SB58 (0-3)	SPLP East	Solid	3010A	802634
500-256339-7	SB59 (0-3)	SPLP East	Solid	3010A	802634
500-256339-8	SB59 (5-7.5)	SPLP East	Solid	3010A	802634
500-256339-9	SB60 (0-3)	SPLP East	Solid	3010A	802634
500-256339-10	SB60 (7.5-10)	SPLP East	Solid	3010A	802634
500-256339-13	SB61 (17.5-19)	SPLP East	Solid	3010A	802634
500-256339-14	SB62 (0-3)	SPLP East	Solid	3010A	802634
500-256339-16	SB63 (0-3)	SPLP East	Solid	3010A	802634
500-256339-17	SB63 (5-7.5)	SPLP East	Solid	3010A	802634
500-256339-18	SB64 (0-3)	SPLP East	Solid	3010A	802634
LB 500-802634/1-B	Method Blank	SPLP East	Solid	3010A	802634
LCS 500-802849/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 802852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-19	SB64 (7.5-10)	SPLP East	Solid	3010A	802650
500-256339-20	SB65 (0-3)	SPLP East	Solid	3010A	802650
500-256339-22	SB66 (0-3)	SPLP East	Solid	3010A	802650
500-256339-23	SB66 (5-7.5)	SPLP East	Solid	3010A	802650
500-256339-24	SB67 (0-3)	SPLP East	Solid	3010A	802650
LB 500-802650/1-B	Method Blank	SPLP East	Solid	3010A	802650
LCS 500-802852/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256339-19 MS	SB64 (7.5-10)	SPLP East	Solid	3010A	802650
500-256339-19 DU	SB64 (7.5-10)	SPLP East	Solid	3010A	802650

Analysis Batch: 802867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-5	SB58 (0-3)	TCLP	Solid	6010D	802680
500-256339-9	SB60 (0-3)	TCLP	Solid	6010D	802680
500-256339-10	SB60 (7.5-10)	TCLP	Solid	6010D	802680
500-256339-18	SB64 (0-3)	TCLP	Solid	6010D	802680
500-256339-24	SB67 (0-3)	TCLP	Solid	6010D	802680
500-256339-25	SB67 (3-5)	TCLP	Solid	6010D	802680
LB 500-802539/1-B	Method Blank	TCLP	Solid	6010D	802680
LCS 500-802680/2-A	Lab Control Sample	Total/NA	Solid	6010D	802680

Analysis Batch: 802918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-9	SB60 (0-3)	TCLP	Solid	6010D	802680
500-256339-10	SB60 (7.5-10)	TCLP	Solid	6010D	802680
500-256339-18	SB64 (0-3)	TCLP	Solid	6010D	802680
500-256339-24	SB67 (0-3)	TCLP	Solid	6010D	802680
500-256339-25	SB67 (3-5)	TCLP	Solid	6010D	802680
LB 500-802539/1-B	Method Blank	TCLP	Solid	6010D	802680
LCS 500-802680/2-A	Lab Control Sample	Total/NA	Solid	6010D	802680

Prep Batch: 803011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-11	SB61 (0-3)	TCLP	Solid	3010A	802847
500-256339-15	SB62 (7.5-10)	TCLP	Solid	3010A	802847
LB 500-802847/1-B	Method Blank	TCLP	Solid	3010A	802847

Metals (Continued)

Prep Batch: 803011 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-803011/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 803012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-11	SB61 (0-3)	SPLP East	Solid	3010A	802813
500-256339-15	SB62 (7.5-10)	SPLP East	Solid	3010A	802813
LB 500-802813/1-B	Method Blank	SPLP East	Solid	3010A	802813
LCS 500-803012/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 803029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-19	SB64 (7.5-10)	SPLP East	Solid	6010D	802852
500-256339-20	SB65 (0-3)	SPLP East	Solid	6010D	802852
500-256339-22	SB66 (0-3)	SPLP East	Solid	6010D	802852
500-256339-23	SB66 (5-7.5)	SPLP East	Solid	6010D	802852
500-256339-24	SB67 (0-3)	SPLP East	Solid	6010D	802852
LB 500-802650/1-B	Method Blank	SPLP East	Solid	6010D	802852
LCS 500-802852/2-A	Lab Control Sample	Total/NA	Solid	6010D	802852
500-256339-19 MS	SB64 (7.5-10)	SPLP East	Solid	6010D	802852
500-256339-19 DU	SB64 (7.5-10)	SPLP East	Solid	6010D	802852

Analysis Batch: 803089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-2	SB56 (5-7.5)	SPLP East	Solid	6010D	802849
500-256339-5	SB58 (0-3)	SPLP East	Solid	6010D	802849
500-256339-7	SB59 (0-3)	SPLP East	Solid	6010D	802849
500-256339-8	SB59 (5-7.5)	SPLP East	Solid	6010D	802849
500-256339-9	SB60 (0-3)	SPLP East	Solid	6010D	802849
500-256339-10	SB60 (7.5-10)	SPLP East	Solid	6010D	802849
500-256339-13	SB61 (17.5-19)	SPLP East	Solid	6010D	802849
500-256339-14	SB62 (0-3)	SPLP East	Solid	6010D	802849
500-256339-16	SB63 (0-3)	SPLP East	Solid	6010D	802849
500-256339-17	SB63 (5-7.5)	SPLP East	Solid	6010D	802849
500-256339-18	SB64 (0-3)	SPLP East	Solid	6010D	802849
LB 500-802634/1-B	Method Blank	SPLP East	Solid	6010D	802849
LCS 500-802849/2-A	Lab Control Sample	Total/NA	Solid	6010D	802849

Analysis Batch: 803093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-5	SB58 (0-3)	TCLP	Solid	6020B	802680
500-256339-9	SB60 (0-3)	TCLP	Solid	6020B	802680
500-256339-10	SB60 (7.5-10)	TCLP	Solid	6020B	802680
500-256339-18	SB64 (0-3)	TCLP	Solid	6020B	802680
500-256339-19	SB64 (7.5-10)	SPLP East	Solid	6020B	802852
500-256339-20	SB65 (0-3)	SPLP East	Solid	6020B	802852
500-256339-22	SB66 (0-3)	SPLP East	Solid	6020B	802852
500-256339-24	SB67 (0-3)	TCLP	Solid	6020B	802680
500-256339-25	SB67 (3-5)	TCLP	Solid	6020B	802680
LB 500-802539/1-B	Method Blank	TCLP	Solid	6020B	802680
LB 500-802650/1-B	Method Blank	SPLP East	Solid	6020B	802852
LCS 500-802680/2-A	Lab Control Sample	Total/NA	Solid	6020B	802680

Metals (Continued)

Analysis Batch: 803093 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-802852/2-A	Lab Control Sample	Total/NA	Solid	6020B	802852
500-256339-19 MS	SB64 (7.5-10)	SPLP East	Solid	6020B	802852
500-256339-19 DU	SB64 (7.5-10)	SPLP East	Solid	6020B	802852

Analysis Batch: 803094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-4	SB57 (7.5-10)	SPLP East	Solid	6020B	802849
500-256339-7	SB59 (0-3)	SPLP East	Solid	6020B	802849
500-256339-8	SB59 (5-7.5)	SPLP East	Solid	6020B	802849
500-256339-13	SB61 (17.5-19)	SPLP East	Solid	6020B	802849
500-256339-14	SB62 (0-3)	SPLP East	Solid	6020B	802849
500-256339-16	SB63 (0-3)	SPLP East	Solid	6020B	802849
500-256339-17	SB63 (5-7.5)	SPLP East	Solid	6020B	802849
LB 500-802634/1-B	Method Blank	SPLP East	Solid	6020B	802849
LCS 500-802849/2-A	Lab Control Sample	Total/NA	Solid	6020B	802849

Analysis Batch: 803182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-11	SB61 (0-3)	SPLP East	Solid	6010D	803012
500-256339-15	SB62 (7.5-10)	SPLP East	Solid	6010D	803012
LB 500-802813/1-B	Method Blank	SPLP East	Solid	6010D	803012
LCS 500-803012/2-A	Lab Control Sample	Total/NA	Solid	6010D	803012

Analysis Batch: 803207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-11	SB61 (0-3)	TCLP	Solid	6020B	803011
500-256339-15	SB62 (7.5-10)	TCLP	Solid	6020B	803011
LB 500-802847/1-B	Method Blank	TCLP	Solid	6020B	803011
LCS 500-803011/2-A	Lab Control Sample	Total/NA	Solid	6020B	803011

Analysis Batch: 803990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256339-4	SB57 (7.5-10)	SPLP East	Solid	6010D	794087
500-256339-17	SB63 (5-7.5)	SPLP East	Solid	6010D	802849
LB 500-793820/1-B	Method Blank	SPLP East	Solid	6010D	794087
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	6010D	794087

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20		mg/L		10/14/24 14:00	10/15/24 19:04	1
Nickel	<0.040		0.040		mg/L		10/14/24 14:00	10/15/24 19:04	1

Lab Sample ID: LCS 240-630682/3-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	9.11		mg/L		91	50 - 150
Nickel	1.00	1.09		mg/L		109	50 - 150

Lab Sample ID: MB 240-632464/2-A
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.040		0.040		mg/L		10/25/24 14:00	10/29/24 06:18	1
Manganese	<0.015		0.015		mg/L		10/25/24 14:00	10/29/24 06:18	1

Lab Sample ID: LCS 240-632464/3-A
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	1.00	0.982		mg/L		98	50 - 150
Manganese	1.00	0.923		mg/L		92	50 - 150

Lab Sample ID: MB 240-640243/2-A
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0026		0.015	0.0026	mg/L		12/30/24 14:00	01/01/25 03:26	1

Lab Sample ID: LCS 240-640243/3-A
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1.00	1.00		mg/L		100	50 - 150

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.513		mg/L		103	80 - 120
Beryllium	0.0500	0.0509		mg/L		102	80 - 120
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Chromium	0.200	0.203		mg/L		101	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.250	0.251		mg/L		100	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Nickel	0.500	0.496		mg/L		99	80 - 120
Selenium	0.100	0.0906		mg/L		91	80 - 120
Silver	0.0500	0.0499		mg/L		100	80 - 120
Zinc	0.500	0.512		mg/L		102	80 - 120
Iron	1.00	0.873		mg/L		87	80 - 120

Lab Sample ID: LCS 500-794087/2-A
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 794087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.512		mg/L		102	80 - 120
Selenium	0.100	0.0969		mg/L		97	80 - 120

Lab Sample ID: LCS 500-794087/2-A
Matrix: Solid
Analysis Batch: 803990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 794087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.00		mg/L		100	80 - 120

Lab Sample ID: LCS 500-802680/2-A
Matrix: Solid
Analysis Batch: 802867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0482		mg/L		96	80 - 120
Cadmium	0.0500	0.0519		mg/L		104	80 - 120
Chromium	0.200	0.209		mg/L		105	80 - 120
Copper	0.250	0.272		mg/L		109	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Nickel	0.500	0.522		mg/L		104	80 - 120
Selenium	0.100	0.118		mg/L		118	80 - 120
Silver	0.0500	0.0542		mg/L		108	80 - 120

Lab Sample ID: LCS 500-802680/2-A
Matrix: Solid
Analysis Batch: 802918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.953		mg/L		95	80 - 120
Zinc	0.500	0.553		mg/L		111	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-802849/2-A
Matrix: Solid
Analysis Batch: 803089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0497		mg/L		99	80 - 120
Cadmium	0.0500	0.0474		mg/L		95	80 - 120
Chromium	0.200	0.227		mg/L		113	80 - 120
Copper	0.250	0.239		mg/L		95	80 - 120
Iron	1.00	0.953		mg/L		95	80 - 120
Lead	0.100	0.0990		mg/L		99	80 - 120
Manganese	0.500	0.478		mg/L		96	80 - 120
Nickel	0.500	0.482		mg/L		96	80 - 120
Selenium	0.100	0.0911		mg/L		91	80 - 120
Silver	0.0500	0.0463		mg/L		93	80 - 120
Vanadium	0.500	0.471		mg/L		94	80 - 120
Zinc	0.500	0.489		mg/L		98	80 - 120

Lab Sample ID: LCS 500-802852/2-A
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Cadmium	0.0500	0.0512		mg/L		102	80 - 120
Copper	0.250	0.265		mg/L		106	80 - 120
Iron	1.00	0.932		mg/L		93	80 - 120
Manganese	0.500	0.519		mg/L		104	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Silver	0.0500	0.0498		mg/L		100	80 - 120
Zinc	0.500	0.533		mg/L		107	80 - 120

Lab Sample ID: LCS 500-803012/2-A
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.191		mg/L		96	80 - 120
Iron	1.00	1.11		mg/L		111	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Manganese	0.500	0.501		mg/L		100	80 - 120
Nickel	0.500	0.495		mg/L		99	80 - 120
Vanadium	0.500	0.490		mg/L		98	80 - 120

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20		mg/L		10/14/24 14:00	10/15/24 19:00	1
Nickel	<0.040		0.040		mg/L		10/14/24 14:00	10/15/24 19:00	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-792364/1-B
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50		mg/L		10/29/24 14:15	10/30/24 12:53	1
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 12:53	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 12:53	1
Chromium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Copper	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Lead	<0.0075		0.0075		mg/L		10/29/24 14:15	10/30/24 12:53	1
Nickel	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 12:53	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Zinc	<0.10		0.10		mg/L		10/29/24 14:15	10/30/24 12:53	1
Iron	<0.20		0.20		mg/L		10/29/24 14:15	10/30/24 12:53	1

Lab Sample ID: LB 500-802539/1-B
Matrix: Solid
Analysis Batch: 802867

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802680

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:18	01/14/25 11:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/13/25 14:18	01/14/25 11:22	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:22	1
Copper	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:18	01/14/25 11:22	1
Nickel	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:22	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:18	01/14/25 11:22	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:18	01/14/25 11:22	1

Lab Sample ID: LB 500-802539/1-B
Matrix: Solid
Analysis Batch: 802918

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802680

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:18	01/14/25 16:16	1
Zinc	<0.020		0.10	0.020	mg/L		01/13/25 14:18	01/14/25 16:16	1

Lab Sample ID: LB 240-632368/1-B
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 632464

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.040		0.040		mg/L		10/25/24 14:00	10/29/24 06:13	1
Manganese	<0.015		0.015		mg/L		10/25/24 14:00	10/29/24 06:13	1

Lab Sample ID: LB 240-640187/1-B
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 640243

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0026		0.015	0.0026	mg/L		12/30/24 14:00	01/01/25 03:21	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-793820/1-B
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 794087

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025		mg/L		11/06/24 08:43	11/06/24 23:27	1
Selenium	<0.050		0.050		mg/L		11/06/24 08:43	11/06/24 23:27	1

Lab Sample ID: LB 500-793820/1-B
Matrix: Solid
Analysis Batch: 803990

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 794087

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20		mg/L		11/06/24 08:43	01/23/25 12:18	1

Lab Sample ID: LB 500-802634/1-B
Matrix: Solid
Analysis Batch: 803089

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802849

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:21	01/15/25 12:45	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:21	01/15/25 12:45	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Copper	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:21	01/15/25 12:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:21	01/15/25 12:45	1
Manganese	0.0215	J	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 12:45	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:21	01/15/25 12:45	1

Lab Sample ID: LB 500-802650/1-B
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802852

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:23	01/15/25 12:10	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:23	01/15/25 12:10	1
Copper	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:10	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:23	01/15/25 12:10	1
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:10	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:10	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:23	01/15/25 12:10	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:10	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:23	01/15/25 12:10	1

Lab Sample ID: 500-256339-19 MS
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: SB64 (7.5-10)
Prep Type: SPLP East
Prep Batch: 802852

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0460		mg/L		92	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256339-19 MS
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: SB64 (7.5-10)
Prep Type: SPLP East
Prep Batch: 802852

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	<0.0020		0.0500	0.0500		mg/L		100	75 - 125
Copper	<0.010		0.250	0.264		mg/L		105	75 - 125
Iron	<0.20		1.00	0.830		mg/L		83	75 - 125
Manganese	<0.010		0.500	0.509		mg/L		102	75 - 125
Nickel	<0.010		0.500	0.531		mg/L		106	75 - 125
Selenium	<0.020		0.100	0.107		mg/L		107	75 - 125
Silver	<0.010		0.0500	0.0496		mg/L		99	75 - 125
Zinc	<0.020		0.500	0.509		mg/L		102	75 - 125

Lab Sample ID: 500-256339-19 DU
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: SB64 (7.5-10)
Prep Type: SPLP East
Prep Batch: 802852

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Copper	<0.010		<0.010		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Manganese	<0.010		<0.010		mg/L		NC	20
Nickel	<0.010		<0.010		mg/L		NC	20
Selenium	<0.020		<0.020		mg/L		NC	20
Silver	<0.010		<0.010		mg/L		NC	20
Zinc	<0.020		<0.020		mg/L		NC	20

Lab Sample ID: LB 500-802813/1-B
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803012

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:14	01/16/25 10:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/15/25 14:14	01/16/25 10:57	1
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1
Nickel	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1
Vanadium	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Barium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Nickel	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Vanadium	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 19:04	1

Lab Sample ID: LCS 240-630682/4-A
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.101		mg/L		101	80 - 120
Arsenic	1.00	0.944		mg/L		94	80 - 120
Barium	1.00	0.955		mg/L		96	80 - 120
Beryllium	0.500	0.508		mg/L		102	80 - 120
Cadmium	0.500	0.470		mg/L		94	80 - 120
Chromium	0.500	0.478		mg/L		96	80 - 120
Copper	0.500	0.502		mg/L		100	80 - 120
Lead	0.500	0.450		mg/L		90	80 - 120
Nickel	0.500	0.509		mg/L		102	80 - 120
Selenium	1.00	0.913		mg/L		91	80 - 120
Silver	0.100	0.0973		mg/L		97	80 - 120
Thallium	1.00	1.03		mg/L		103	80 - 120
Vanadium	0.500	0.488		mg/L		98	80 - 120

Lab Sample ID: MB 240-636636/2-A
Matrix: Solid
Analysis Batch: 636887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		11/25/24 14:00	11/26/24 18:49	1
Manganese	<0.0050		0.0050		mg/L		11/25/24 14:00	11/26/24 18:49	1
Vanadium	<0.020		0.020		mg/L		11/25/24 14:00	11/26/24 18:49	1

Lab Sample ID: LCS 240-636636/3-A ^2
Matrix: Solid
Analysis Batch: 636887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.105		mg/L		105	80 - 120
Manganese	0.500	0.498		mg/L		100	80 - 120
Vanadium	0.500	0.513		mg/L		103	80 - 120

Lab Sample ID: MB 240-640405/2-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00075		0.0050	0.00075	mg/L		12/31/24 14:00	01/02/25 14:51	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-640405/2-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 14:51	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 14:51	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:51	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:51	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:51	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 14:51	1
Nickel	<0.0015		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 14:51	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:51	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:51	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:51	1
Zinc	<0.015		0.020	0.015	mg/L		12/31/24 14:00	01/02/25 14:51	1

Lab Sample ID: LCS 240-640405/4-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.04		mg/L		104	80 - 120
Beryllium	0.500	0.490		mg/L		98	80 - 120
Cadmium	0.500	0.457		mg/L		91	80 - 120
Chromium	0.500	0.484		mg/L		97	80 - 120
Copper	0.500	0.522		mg/L		104	80 - 120
Iron	5.00	4.99		mg/L		100	80 - 120
Lead	0.500	0.536		mg/L		107	80 - 120
Nickel	0.500	0.495		mg/L		99	80 - 120
Selenium	1.00	0.956		mg/L		96	80 - 120
Silver	0.100	0.0984		mg/L		98	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120
Zinc	0.500	0.503		mg/L		101	80 - 120

Lab Sample ID: MB 240-642457/2-A
Matrix: Solid
Analysis Batch: 642678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00057		0.0020	0.00057	mg/L		01/24/25 14:00	01/27/25 14:54	1
Chromium	<0.0012		0.0050	0.0012	mg/L		01/24/25 14:00	01/27/25 14:54	1
Iron	<0.047		0.10	0.047	mg/L		01/24/25 14:00	01/27/25 14:54	1
Lead	<0.00045		0.0010	0.00045	mg/L		01/24/25 14:00	01/27/25 14:54	1
Vanadium	<0.00082		0.020	0.00082	mg/L		01/24/25 14:00	01/27/25 14:54	1

Lab Sample ID: LCS 240-642457/3-A
Matrix: Solid
Analysis Batch: 642678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642457

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.100		mg/L		100	80 - 120
Chromium	0.500	0.514		mg/L		103	80 - 120
Iron	5.00	5.35		mg/L		107	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-642457/3-A
Matrix: Solid
Analysis Batch: 642678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642457

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.500	0.546		mg/L		109	80 - 120
Vanadium	0.500	0.510		mg/L		102	80 - 120

Lab Sample ID: LCS 500-802680/2-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.510		mg/L		102	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LCS 500-802849/2-A
Matrix: Solid
Analysis Batch: 803094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.458		mg/L		92	80 - 120
Thallium	0.100	0.0989		mg/L		99	80 - 120

Lab Sample ID: LCS 500-802852/2-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.518		mg/L		104	80 - 120
Thallium	0.100	0.109		mg/L		109	80 - 120

Lab Sample ID: LCS 500-803011/2-A
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.570		mg/L		114	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Barium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Nickel	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Vanadium	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 19:01	1

Lab Sample ID: LB 240-640346/1-B
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 640405

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00075		0.0050	0.00075	mg/L		12/31/24 14:00	01/02/25 14:43	1
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 14:43	1
Cadmium	0.000168	J	0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 14:43	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:43	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:43	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:43	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/31/24 14:00	01/02/25 14:43	1
Nickel	<0.0015		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 14:43	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:43	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:43	1
Thallium	0.000670	J	0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:43	1
Zinc	0.0169	J	0.020	0.015	mg/L		12/31/24 14:00	01/02/25 14:43	1

Lab Sample ID: LB 500-802539/1-B
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802680

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/13/25 14:18	01/15/25 18:53	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 18:53	1

Lab Sample ID: LB 500-802847/1-B
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 803011

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/15/25 14:11	01/16/25 16:11	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:11	01/16/25 16:11	1

Lab Sample ID: LB 240-636521/1-B
Matrix: Solid
Analysis Batch: 636887

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 636636

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		11/25/24 14:00	11/26/24 18:46	1
Manganese	<0.0050		0.0050		mg/L		11/25/24 14:00	11/26/24 18:46	1
Vanadium	<0.020		0.020		mg/L		11/25/24 14:00	11/26/24 18:46	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-256339-3 MS
Matrix: Solid
Analysis Batch: 636887

Client Sample ID: SB57 (0-3)
Prep Type: SPLP East
Prep Batch: 636636

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0020		0.100	0.103		mg/L		102	50 - 150
Manganese	<0.0050		0.500	0.481		mg/L		96	50 - 150
Vanadium	0.17		0.500	0.663		mg/L		99	50 - 150

Lab Sample ID: 500-256339-3 MSD
Matrix: Solid
Analysis Batch: 636887

Client Sample ID: SB57 (0-3)
Prep Type: SPLP East
Prep Batch: 636636

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0020		0.100	0.105		mg/L		104	50 - 150	2	20
Manganese	<0.0050		0.500	0.488		mg/L		98	50 - 150	1	20
Vanadium	0.17		0.500	0.670		mg/L		101	50 - 150	1	20

Lab Sample ID: LB 240-642422/1-B
Matrix: Solid
Analysis Batch: 642678

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 642457

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00057		0.0020	0.00057	mg/L		01/24/25 14:00	01/27/25 14:51	1
Chromium	<0.0012		0.0050	0.0012	mg/L		01/24/25 14:00	01/27/25 14:51	1
Iron	<0.047		0.10	0.047	mg/L		01/24/25 14:00	01/27/25 14:51	1
Lead	<0.00045		0.0010	0.00045	mg/L		01/24/25 14:00	01/27/25 14:51	1
Vanadium	<0.00082		0.020	0.00082	mg/L		01/24/25 14:00	01/27/25 14:51	1

Lab Sample ID: 500-256339-21 MS
Matrix: Solid
Analysis Batch: 642678

Client Sample ID: SB65 (7.5-10)
Prep Type: SPLP East
Prep Batch: 642457

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0013	J	0.100	0.104		mg/L		103	50 - 150
Chromium	0.0030	J	0.500	0.528		mg/L		105	50 - 150
Iron	0.85		5.00	6.10		mg/L		105	50 - 150
Lead	0.0030		0.500	0.560		mg/L		111	50 - 150
Vanadium	0.018	J	0.500	0.539		mg/L		104	50 - 150

Lab Sample ID: 500-256339-21 MSD
Matrix: Solid
Analysis Batch: 642678

Client Sample ID: SB65 (7.5-10)
Prep Type: SPLP East
Prep Batch: 642457

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0013	J	0.100	0.102		mg/L		101	50 - 150	1	20
Chromium	0.0030	J	0.500	0.525		mg/L		104	50 - 150	1	20
Iron	0.85		5.00	6.09		mg/L		105	50 - 150	0	20
Lead	0.0030		0.500	0.561		mg/L		112	50 - 150	0	20
Vanadium	0.018	J	0.500	0.538		mg/L		104	50 - 150	0	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-802634/1-B
Matrix: Solid
Analysis Batch: 803094

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802849

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/14/25 14:21	01/15/25 18:48	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 18:48	1

Lab Sample ID: LB 500-802650/1-B
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802852

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/14/25 14:23	01/15/25 17:40	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:23	01/15/25 17:40	1

Lab Sample ID: 500-256339-19 MS
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: SB64 (7.5-10)
Prep Type: SPLP East
Prep Batch: 802852

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0013		0.500	0.492		mg/L		98	75 - 125
Thallium	<0.00057		0.100	0.112		mg/L		112	75 - 125

Lab Sample ID: 500-256339-19 DU
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: SB64 (7.5-10)
Prep Type: SPLP East
Prep Batch: 802852

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0013		<0.0013		mg/L		NC	20
Thallium	<0.00057		<0.00057		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 240-630688/1-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630688

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 11:15	1

Lab Sample ID: MB 240-630688/2-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 11:17	1

Lab Sample ID: LCS 240-630688/3-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00482		mg/L		96	80 - 120

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-6

Client Sample ID: SB56 (0-3)

Lab Sample ID: 500-256339-1
Matrix: Solid
Date Collected: 09/06/24 09:42
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			640187	KLE	EET CLE	12/29/24 16:00 - 12/30/24 08:35 [1]
SPLP East	Prep	3010A			640243	S4FJ	EET CLE	12/30/24 14:00
SPLP East	Analysis	6010D		1	640423	RKT	EET CLE	01/01/25 04:09
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/15/24 20:01
TCLP	Leach	1311			640346	KLE	EET CLE	12/30/24 15:30 - 12/31/24 09:05 [1]
TCLP	Prep	3010A			640405	MN7X	EET CLE	12/31/24 14:00
TCLP	Analysis	6020B		1	640570	AJC	EET CLE	01/02/25 15:25

Client Sample ID: SB56 (5-7.5)

Lab Sample ID: 500-256339-2
Matrix: Solid
Date Collected: 09/06/24 09:50
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803089	RB	EET CHI	01/15/25 13:51

Client Sample ID: SB57 (0-3)

Lab Sample ID: 500-256339-3
Matrix: Solid
Date Collected: 09/06/24 10:17
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			636521	DRJ	EET CLE	11/24/24 16:45 - 11/25/24 08:50 [1]
SPLP East	Prep	3010A			636636	XWS6	EET CLE	11/25/24 14:00
SPLP East	Analysis	6020B		1	636887	AJC	EET CLE	11/26/24 18:54
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6020B		1	630986	AJC	EET CLE	10/15/24 19:39
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	7470A			630688	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	7470A		1	630895	TQ6W	EET CLE	10/15/24 11:34

Client Sample ID: SB57 (7.5-10)

Lab Sample ID: 500-256339-4
Matrix: Solid
Date Collected: 09/06/24 10:20
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6010D		1	794312	SJ	EET CHI	11/07/24 00:16
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6010D		1	803990	SJ	EET CHI	01/23/25 12:36

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-6

Client Sample ID: SB57 (7.5-10)
Date Collected: 09/06/24 10:20
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 13:24
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6020B		1	803094	RN	EET CHI	01/15/25 19:16

Client Sample ID: SB58 (0-3)
Date Collected: 09/06/24 11:22
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803089	RB	EET CHI	01/15/25 13:55
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 12:35
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 19:55

Client Sample ID: SB59 (0-3)
Date Collected: 09/06/24 12:07
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803089	RB	EET CHI	01/15/25 14:30
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6020B		1	803094	RN	EET CHI	01/15/25 19:18

Client Sample ID: SB59 (5-7.5)
Date Collected: 09/06/24 12:17
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803089	RB	EET CHI	01/15/25 14:35
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6020B		1	803094	RN	EET CHI	01/15/25 19:21

Client Sample ID: SB60 (0-3)

Lab Sample ID: 500-256339-9

Date Collected: 09/06/24 13:36

Matrix: Solid

Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803089	RB	EET CHI	01/15/25 14:39
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 12:39
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802918	RB	EET CHI	01/14/25 17:34
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 19:58

Client Sample ID: SB60 (7.5-10)

Lab Sample ID: 500-256339-10

Date Collected: 09/06/24 13:42

Matrix: Solid

Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803089	RB	EET CHI	01/15/25 14:46
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 12:44
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802918	RB	EET CHI	01/14/25 17:39
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 20:02

Client Sample ID: SB61 (0-3)

Lab Sample ID: 500-256339-11

Date Collected: 09/06/24 08:37

Matrix: Solid

Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 11:24
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 13:29
TCLP	Leach	1311			802847	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
TCLP	Prep	3010A			803011	S1Z	EET CHI	01/15/25 14:11 - 01/15/25 20:11 [1]
TCLP	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 16:46

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB61 (17.5-19)
Lab Sample ID: 500-256339-13
Date Collected: 09/06/24 09:15
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803089	RB	EET CHI	01/15/25 14:50
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6020B		1	803094	RN	EET CHI	01/15/25 19:23

Client Sample ID: SB62 (0-3)
Lab Sample ID: 500-256339-14
Date Collected: 09/06/24 09:41
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803089	RB	EET CHI	01/15/25 14:55
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6020B		1	803094	RN	EET CHI	01/15/25 19:26

Client Sample ID: SB62 (7.5-10)
Lab Sample ID: 500-256339-15
Date Collected: 09/06/24 09:52
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 11:28
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 13:42
TCLP	Leach	1311			802847	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
TCLP	Prep	3010A			803011	S1Z	EET CHI	01/15/25 14:11 - 01/15/25 20:11 [1]
TCLP	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 16:50

Client Sample ID: SB63 (0-3)
Lab Sample ID: 500-256339-16
Date Collected: 09/06/24 10:32
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803089	RB	EET CHI	01/15/25 14:59
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6020B		1	803094	RN	EET CHI	01/15/25 19:28

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB63 (5-7.5)
Lab Sample ID: 500-256339-17
Date Collected: 09/06/24 10:45
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803089	RB	EET CHI	01/15/25 15:03
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803990	SJ	EET CHI	01/23/25 13:13
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6020B		1	803094	RN	EET CHI	01/15/25 19:31

Client Sample ID: SB64 (0-3)
Lab Sample ID: 500-256339-18
Date Collected: 09/06/24 11:57
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803089	RB	EET CHI	01/15/25 15:08
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 13:04
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802918	RB	EET CHI	01/14/25 17:48
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 20:14

Client Sample ID: SB64 (7.5-10)
Lab Sample ID: 500-256339-19
Date Collected: 09/06/24 12:18
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 12:19
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 17:59

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256339-6

Client Sample ID: SB65 (0-3)
Date Collected: 09/06/24 13:14
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 12:45
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 18:15

Client Sample ID: SB65 (7.5-10)
Date Collected: 09/06/24 13:25
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			632368	DRJ	EET CLE	10/24/24 17:15 - 10/25/24 09:25 [1]
SPLP East	Prep	3010A			632464	BN	EET CLE	10/25/24 14:00
SPLP East	Analysis	6010D		1	632866	RKT	EET CLE	10/29/24 07:00
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/15/24 20:14
SPLP East	Leach	1312			642422	VFF2	EET CLE	01/23/25 16:00 - 01/24/25 08:05 [1]
SPLP East	Prep	3010A			642457	XWS6	EET CLE	01/24/25 14:00
SPLP East	Analysis	6020B		1	642678	S4FJ	EET CLE	01/27/25 14:59
TCLP	Leach	1311			640346	KLE	EET CLE	12/30/24 15:30 - 12/31/24 09:05 [1]
TCLP	Prep	3010A			640405	MN7X	EET CLE	12/31/24 14:00
TCLP	Analysis	6020B		1	640570	AJC	EET CLE	01/02/25 15:28

Client Sample ID: SB66 (0-3)
Date Collected: 09/06/24 14:08
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 12:49
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 18:18

Client Sample ID: SB66 (5-7.5)
Date Collected: 09/06/24 14:18
Date Received: 09/09/24 10:16

Lab Sample ID: 500-256339-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 12:54

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB67 (0-3)
Lab Sample ID: 500-256339-24
Date Collected: 09/06/24 14:55
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 12:58
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 13:09
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802918	RB	EET CHI	01/14/25 17:53
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 20:29

Client Sample ID: SB67 (3-5)
Lab Sample ID: 500-256339-25
Date Collected: 09/06/24 15:00
Matrix: Solid
Date Received: 09/09/24 10:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802867	SJ	EET CHI	01/14/25 12:59
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6010D		1	802918	RB	EET CHI	01/14/25 17:44
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 20:06

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256339-6
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Chain of Custody Record 719737

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact	Date:	COC No 1 of 3 COCs
Company Name Pioneer	Tel/Email: JHartsock@pioneereec.com	Lab Contact:	Carrier:	Sampler
Address 2753 W 31st St	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Chicago, IL, 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below _____			Lab Sampling
Fax	☒ 2 weeks			
Project Name 8080 S Lake Shore Drive	☐ 1 week			Job / SDG No 500-256339
Site	☐ 2 days			
PO# 24-0124-103	☐ 1 day			

500-256339 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCLP Pb	TPH	Sample Specific Notes
1 SB56 (0-3)	9/6/24	9:42am	G	S	4			X		
2 SB56 (5-7.5)		9:50m						X		
3 SB57 (0-3)		10:17m						X		
4 SB57 (7.5-10)		10:20m						X		
5 SB58 (0-3)		11:22am						X		
6 SB58 (10-12.5)		11:30am						X		
7 SB59 (0-3)		12:07pm						X		
8 SB59 (5-7.5)		12:17pm						X		
9 SB60 (0-3)		1:30pm						X		
10 SB60 (7.5-10)		1:42pm						X		
11 SB61 (0-3)		8:37						X		
12 SB61 (12.5-15)		8:55						MM X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: STIRS in Freezer 9/6@ 449

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd 3.8 Corr'd 3.5		Therm ID No _____
Relinquished by:	Company: Pioneer	Date/Time: 9/9/24	Received by:	Company: EETA	Date/Time: 9/9/24 0925
Relinquished by:	Company: EETA 9/9/24	Date/Time: 1016	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: EETA	Date/Time: 9/9/24 1016

Chain of Custody Record

670134

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier:	2 of 3 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	☒ TAT if different from Below _____			Walk-in Client
Fax: SA Rg 1	☐ 2 weeks			Lab Sampling
Project Name	☐ 1 week			
Site: 8080 S LAKE SHORE Dr	☐ 2 days			Job / SDG No
P O #	☐ 1 day			500-256339

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL	pH	TPH	SULFIDE	Sample Specific Notes
13	SB61 (17.5-19)	9/6/24	915	G	SO	4			X	X	X	X	
14	SB62 (0-3)		941										
15	SB62 (7.5-10)		952										
16	SB63 (0-3)		1032										
17	SB63 (5-7.5)		1045										
18	SB64 (0-3)		1157										
19	SB64 (7.5-10)		1218										
20	SB65 (0-3)		114										
21	SB65 (7.5-10)		125										
22	SB66 (0-3)		208										
23	SB66 (5-7.5)		218										
24	SB67 (0-3)		255										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: STIRS IF FREEZER 9/6 @ 449

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	9/9/24	[signature]	EETA	9/9/24 0925
[signature]	EETA 9/9/24	1016			
			Received in Laboratory by [signature]	EETA	9/9/24 1016

3/14/2025 (Rev. 2)

Address _____

Chain of Custody Record 720432

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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager:	Site Contact	Date:	COC No
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier	3 of 3 COCs
Address: 5051	Analysis Turnaround Time			Sampler
City/State/Zip:	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
Phone:	TAT if different from Below _____			Walk-in Client
Fax:	☐ 2 weeks			Lab Sampling
Project Name:	☐ 1 week			
Site: 8080 S Lake Stockton Dr	☐ 2 days			Job / SDG No
P O #:	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)																		Sample Specific Notes
25 SB67 (3 -5)	9/6/24	300	G	SO	4		X																		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	9/9/24	Received by	EETA	9/9/24 0925
Relinquished by	EETA 9/9/24	1016	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	EETA	9/9/24 1016

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256339-6

Login Number: 256339
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/17/2025 4:49:31 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256423-7

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/17/2025 4:49:31 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256423-2 — Eurofins Chicago

Job Narrative
500-256423-2

Receipt
The samples were received on 9/10/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256423-3 — Eurofins Chicago

Job Narrative
500-256423-3

Revision
The report being provided is a revision of the original report sent on 10/30/2024. The report (revision 1) is being revised due to: Add TCLP Be, Cd, Cr, Cu, Fe, Pb, Ni, Se, Ag, Zn to SB68 (7.5-10) per client request.

Receipt
The samples were received on 9/10/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256423-4 — Eurofins Chicago

Job Narrative
500-256423-4

Revision
The report being provided is a revision of the original report sent on 12/4/2024. The report (revision 1) is being revised due to: Add TCLP Be, Cd, Cr, Cu, Fe, Pb, Ni, Se, Ag, Zn to SB68 (0-3) per client request.

Receipt
The samples were received on 9/10/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0º C.

Metals
Method 6010D: The sample result recovered slightly more negative the the reporting limit for Lead. The result was less than two times the reporting limit. The samples has been qualified and reported.

SB68 (0-3) (500-256423-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-256423-5 — Eurofins Chicago

Job Narrative
500-256423-5

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 1) is being revised due to: Add additional TCLP analytes to selected samples per client request.

Receipt
The samples were received on 9/10/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256423-7 — Eurofins Chicago

Job Narrative
500-256423-7

Receipt
The samples were received on 9/10/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB68 (0-3) — Lab Sample ID: 500-256423-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.16		0.025		mg/L	1		6010D	TCLP
Manganese	0.017	J	0.025	0.010	mg/L	1		6010D	SPLP East
Vanadium	0.028		0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0040	J	0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB68 (7.5-10) — Lab Sample ID: 500-256423-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.031		0.025		mg/L	1		6010D	TCLP
Iron	2.0		0.20		mg/L	1		6010D	TCLP
Lead	0.017		0.0075		mg/L	1		6010D	TCLP
Vanadium	0.027		0.025		mg/L	1		6010D	TCLP
Manganese	0.040		0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0044	J B	0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB69 (0-3) — Lab Sample ID: 500-256423-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0061	B	0.0060	0.0013	mg/L	1		6020B	TCLP
Antimony	0.0025	J	0.0060	0.0013	mg/L	1		6020B	SPLP East

Client Sample ID: SB69 (3-5) — Lab Sample ID: 500-256423-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.0020	J	0.0050	0.00089	mg/L	1		6020B	SPLP East
Thallium	0.00060	J	0.0020	0.00051	mg/L	1		6020B	SPLP East

Client Sample ID: SB70 (0-3) — Lab Sample ID: 500-256423-5

No Detections.

Client Sample ID: SB71 (0-3) — Lab Sample ID: 500-256423-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.020	J	0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-7
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CLE
1312	SPLP Extraction	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE
EPA 1311	TCLP Extraction	SW846	EET CHI
EPA 1312	SPLP Extraction	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-7
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256423-1	SB68 (0-3)	Solid	09/09/24 08:42	09/10/24 11:05
500-256423-2	SB68 (7.5-10)	Solid	09/09/24 08:57	09/10/24 11:05
500-256423-3	SB69 (0-3)	Solid	09/09/24 10:04	09/10/24 11:05
500-256423-4	SB69 (3-5)	Solid	09/09/24 10:10	09/10/24 11:05
500-256423-5	SB70 (0-3)	Solid	09/09/24 11:58	09/10/24 11:05
500-256423-8	SB71 (0-3)	Solid	09/09/24 14:30	09/10/24 11:05

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB68 (0-3)
Lab Sample ID: 500-256423-1

Date Collected: 09/09/24 08:42
Matrix: Solid
Date Received: 09/10/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		12/03/24 14:57	12/04/24 13:45	1
Cadmium	<0.0050		0.0050		mg/L		12/03/24 14:57	12/04/24 13:45	1
Chromium	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:45	1
Copper	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:45	1
Iron	<0.20		0.20		mg/L		12/03/24 14:57	12/04/24 13:45	1
Lead	<0.0075	L	0.0075		mg/L		12/03/24 14:57	12/04/24 13:45	1
Nickel	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:45	1
Selenium	<0.050		0.050		mg/L		12/03/24 14:57	12/04/24 13:45	1
Silver	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:45	1
Vanadium	**0.16**		0.025		mg/L		12/03/24 14:57	12/04/24 13:45	1
Zinc	<0.10		0.10		mg/L		12/03/24 14:57	12/04/24 13:45	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.017**	**J**	0.025	0.010	mg/L		01/14/25 14:23	01/15/25 13:03	1
Vanadium	**0.028**		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 13:03	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0040**	**J**	0.0060	0.0013	mg/L		01/13/25 14:18	01/15/25 20:10	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 20:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB68 (7.5-10)
Lab Sample ID: 500-256423-2

Date Collected: 09/09/24 08:57
Matrix: Solid
Date Received: 09/10/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 13:46	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 13:46	1
Chromium	**0.031**		0.025		mg/L		10/29/24 14:15	10/30/24 13:46	1
Copper	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 13:46	1
Iron	**2.0**		0.20		mg/L		10/29/24 14:15	10/30/24 13:46	1
Lead	**0.017**		0.0075		mg/L		10/29/24 14:15	10/30/24 13:46	1
Nickel	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 13:46	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 13:46	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 13:46	1
Vanadium	**0.027**		0.025		mg/L		10/29/24 14:15	10/30/24 13:46	1
Zinc	<0.10		0.10		mg/L		10/29/24 14:15	10/30/24 13:46	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.040**		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 13:07	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0044**	**J B**	0.0060	0.0013	mg/L		01/17/25 14:22	01/20/25 21:22	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/17/25 14:22	01/20/25 21:22	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB69 (0-3)
Lab Sample ID: 500-256423-3

Date Collected: 09/09/24 10:04
Matrix: Solid
Date Received: 09/10/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:22	01/20/25 11:36	1
Chromium	<0.010		0.025	0.010	mg/L		01/17/25 14:22	01/20/25 11:36	1
Iron	<0.20		0.20	0.20	mg/L		01/17/25 14:22	01/20/25 11:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:22	01/20/25 11:36	1
Selenium	<0.020		0.050	0.020	mg/L		01/17/25 14:22	01/20/25 11:36	1
Silver	<0.010		0.025	0.010	mg/L		01/17/25 14:22	01/20/25 11:36	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/17/25 14:25	01/20/25 15:22	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0061**	**B**	0.0060	0.0013	mg/L		01/17/25 14:22	01/20/25 21:37	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/17/25 14:22	01/20/25 21:37	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0025**	**J**	0.0060	0.0013	mg/L		01/17/25 14:25	03/07/25 16:04	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB69 (3-5)
Lab Sample ID: 500-256423-4
Date Collected: 09/09/24 10:10
Matrix: Solid
Date Received: 09/10/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 20:19	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/30/24 14:00	12/31/24 19:57	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/30/24 14:00	12/31/24 19:57	1
Selenium	**0.0020**	**J**	0.0050	0.00089	mg/L		12/30/24 14:00	12/31/24 19:57	1
Thallium	**0.00060**	**J**	0.0020	0.00051	mg/L		12/30/24 14:00	12/31/24 19:57	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB70 (0-3)
Lab Sample ID: 500-256423-5
Date Collected: 09/09/24 11:58
Matrix: Solid
Date Received: 09/10/24 11:05

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.020		0.050	0.020	mg/L		01/17/25 14:25	01/20/25 15:39	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB71 (0-3)
Lab Sample ID: 500-256423-8

Date Collected: 09/09/24 14:30
Matrix: Solid
Date Received: 09/10/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:22	01/20/25 11:41	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/17/25 14:22	01/20/25 11:41	1
Chromium	<0.010		0.025	0.010	mg/L		01/17/25 14:22	01/20/25 11:41	1
Copper	<0.010		0.025	0.010	mg/L		01/17/25 14:22	01/20/25 11:41	1
Iron	<0.20		0.20	0.20	mg/L		01/17/25 14:22	01/20/25 11:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:22	01/20/25 11:41	1
Nickel	<0.010		0.025	0.010	mg/L		01/17/25 14:22	01/20/25 11:41	1
Selenium	<0.020		0.050	0.020	mg/L		01/17/25 14:22	01/20/25 11:41	1
Silver	<0.010		0.025	0.010	mg/L		01/17/25 14:22	01/20/25 11:41	1
Zinc	<0.020		0.10	0.020	mg/L		01/17/25 14:22	01/20/25 11:41	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.020**	**J**	0.025	0.010	mg/L		01/17/25 14:25	01/20/25 15:43	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/17/25 14:22	01/20/25 21:40	1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 630581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-4	SB69 (3-5)	TCLP	Solid	1311	
LB 240-630581/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 630682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-4	SB69 (3-5)	TCLP	Solid	3010A	630581
LB 240-630581/1-B	Method Blank	TCLP	Solid	3010A	630581
MB 240-630682/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630682/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 630918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-4	SB69 (3-5)	TCLP	Solid	6010D	630682
LB 240-630581/1-B	Method Blank	TCLP	Solid	6010D	630682
MB 240-630682/2-A	Method Blank	Total/NA	Solid	6010D	630682
LCS 240-630682/3-A	Lab Control Sample	Total/NA	Solid	6010D	630682

Leach Batch: 640187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-4	SB69 (3-5)	SPLP East	Solid	1312	
LB 240-640187/1-B	Method Blank	SPLP East	Solid	EPA 1312	

Prep Batch: 640243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-4	SB69 (3-5)	SPLP East	Solid	3010A	640187
LB 240-640187/1-B	Method Blank	SPLP East	Solid	3010A	640187
MB 240-640243/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640243/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 640493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-4	SB69 (3-5)	SPLP East	Solid	6020B	640243
LB 240-640187/1-B	Method Blank	SPLP East	Solid	6020B	640243
MB 240-640243/2-A	Method Blank	Total/NA	Solid	6020B	640243
LCS 240-640243/4-A	Lab Control Sample	Total/NA	Solid	6020B	640243

Leach Batch: 792364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-2	SB68 (7.5-10)	TCLP	Solid	1311	
LB 500-792364/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 792710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-2	SB68 (7.5-10)	TCLP	Solid	3010A	792364
LB 500-792364/1-B	Method Blank	TCLP	Solid	3010A	792364
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 793149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-2	SB68 (7.5-10)	TCLP	Solid	6010D	792710
LB 500-792364/1-B	Method Blank	TCLP	Solid	6010D	792710

Metals (Continued)

Analysis Batch: 793149 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6010D	792710

Leach Batch: 797618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	TCLP	Solid	1311	
LB 500-797618/1-B	Method Blank	TCLP	Solid	1311	
500-256423-1 MS	SB68 (0-3)	TCLP	Solid	1311	
500-256423-1 DU	SB68 (0-3)	TCLP	Solid	1311	

Prep Batch: 797836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	TCLP	Solid	3010A	797618
LB 500-797618/1-B	Method Blank	TCLP	Solid	3010A	797618
LCS 500-797836/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256423-1 MS	SB68 (0-3)	TCLP	Solid	3010A	797618
500-256423-1 DU	SB68 (0-3)	TCLP	Solid	3010A	797618

Analysis Batch: 798077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	TCLP	Solid	6010D	797836
LB 500-797618/1-B	Method Blank	TCLP	Solid	6010D	797836
LCS 500-797836/2-A	Lab Control Sample	Total/NA	Solid	6010D	797836
500-256423-1 MS	SB68 (0-3)	TCLP	Solid	6010D	797836
500-256423-1 DU	SB68 (0-3)	TCLP	Solid	6010D	797836

Leach Batch: 802539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	TCLP	Solid	1311	
LB 500-802539/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 802650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	SPLP East	Solid	EPA 1312	
500-256423-2	SB68 (7.5-10)	SPLP East	Solid	EPA 1312	
LB 500-802650/1-B	Method Blank	SPLP East	Solid	EPA 1312	

Prep Batch: 802680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	TCLP	Solid	3010A	802539
LB 500-802539/1-B	Method Blank	TCLP	Solid	3010A	802539
LCS 500-802680/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 802852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	SPLP East	Solid	3010A	802650
500-256423-2	SB68 (7.5-10)	SPLP East	Solid	3010A	802650
LB 500-802650/1-B	Method Blank	SPLP East	Solid	3010A	802650
LCS 500-802852/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals

Analysis Batch: 803029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	SPLP East	Solid	6010D	802852
500-256423-2	SB68 (7.5-10)	SPLP East	Solid	6010D	802852
LB 500-802650/1-B	Method Blank	SPLP East	Solid	6010D	802852
LCS 500-802852/2-A	Lab Control Sample	Total/NA	Solid	6010D	802852

Analysis Batch: 803093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-1	SB68 (0-3)	TCLP	Solid	6020B	802680
LB 500-802539/1-B	Method Blank	TCLP	Solid	6020B	802680
LCS 500-802680/2-A	Lab Control Sample	Total/NA	Solid	6020B	802680

Leach Batch: 803139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-3	SB69 (0-3)	SPLP East	Solid	EPA 1312	
500-256423-3	SB69 (0-3)	SPLP East	Solid	EPA 1312	
500-256423-5	SB70 (0-3)	SPLP East	Solid	EPA 1312	
500-256423-8	SB71 (0-3)	SPLP East	Solid	EPA 1312	
LB 500-803139/1-B	Method Blank	SPLP East	Solid	EPA 1312	
500-256423-3 MS	SB69 (0-3)	SPLP East	Solid	EPA 1312	
500-256423-3 DU	SB69 (0-3)	SPLP East	Solid	EPA 1312	

Leach Batch: 803160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-2	SB68 (7.5-10)	TCLP	Solid	1311	
500-256423-3	SB69 (0-3)	TCLP	Solid	EPA 1311	
500-256423-8	SB71 (0-3)	TCLP	Solid	EPA 1311	
LB 500-803160/1-B	Method Blank	TCLP	Solid	1311	
500-256423-2 MS	SB68 (7.5-10)	TCLP	Solid	1311	
500-256423-2 DU	SB68 (7.5-10)	TCLP	Solid	1311	

Prep Batch: 803323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-2	SB68 (7.5-10)	TCLP	Solid	3010A	803160
500-256423-3	SB69 (0-3)	TCLP	Solid	3010A	803160
500-256423-8	SB71 (0-3)	TCLP	Solid	3010A	803160
LB 500-803160/1-B	Method Blank	TCLP	Solid	3010A	803160
LCS 500-803323/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256423-2 MS	SB68 (7.5-10)	TCLP	Solid	3010A	803160
500-256423-2 DU	SB68 (7.5-10)	TCLP	Solid	3010A	803160

Prep Batch: 803325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-3	SB69 (0-3)	SPLP East	Solid	3010A	803139
500-256423-3	SB69 (0-3)	SPLP East	Solid	3010A	803139
500-256423-5	SB70 (0-3)	SPLP East	Solid	3010A	803139
500-256423-8	SB71 (0-3)	SPLP East	Solid	3010A	803139
LB 500-803139/1-B	Method Blank	SPLP East	Solid	3010A	803139
LCS 500-803325/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256423-3 MS	SB69 (0-3)	SPLP East	Solid	3010A	803139
500-256423-3 DU	SB69 (0-3)	SPLP East	Solid	3010A	803139

Metals

Analysis Batch: 803532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-3	SB69 (0-3)	TCLP	Solid	6010D	803323
500-256423-8	SB71 (0-3)	TCLP	Solid	6010D	803323
LB 500-803160/1-B	Method Blank	TCLP	Solid	6010D	803323
LCS 500-803323/2-A	Lab Control Sample	Total/NA	Solid	6010D	803323

Analysis Batch: 803554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-3	SB69 (0-3)	SPLP East	Solid	6010D	803325
500-256423-5	SB70 (0-3)	SPLP East	Solid	6010D	803325
500-256423-8	SB71 (0-3)	SPLP East	Solid	6010D	803325
LB 500-803139/1-B	Method Blank	SPLP East	Solid	6010D	803325
LCS 500-803325/2-A	Lab Control Sample	Total/NA	Solid	6010D	803325
500-256423-3 MS	SB69 (0-3)	SPLP East	Solid	6010D	803325
500-256423-3 DU	SB69 (0-3)	SPLP East	Solid	6010D	803325

Analysis Batch: 803623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-2	SB68 (7.5-10)	TCLP	Solid	6020B	803323
500-256423-3	SB69 (0-3)	TCLP	Solid	6020B	803323
500-256423-8	SB71 (0-3)	TCLP	Solid	6020B	803323
LB 500-803160/1-B	Method Blank	TCLP	Solid	6020B	803323
LCS 500-803323/2-A	Lab Control Sample	Total/NA	Solid	6020B	803323
500-256423-2 MS	SB68 (7.5-10)	TCLP	Solid	6020B	803323
500-256423-2 DU	SB68 (7.5-10)	TCLP	Solid	6020B	803323

Analysis Batch: 809240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256423-3	SB69 (0-3)	SPLP East	Solid	6020B	803325
LB 500-803139/1-B	Method Blank	SPLP East	Solid	6020B	803325
LCS 500-803325/2-A	Lab Control Sample	Total/NA	Solid	6020B	803325

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 19:04	1

Lab Sample ID: LCS 240-630682/3-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	1.00	1.07		mg/L		107	50 - 150

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0509		mg/L		102	80 - 120
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Chromium	0.200	0.203		mg/L		101	80 - 120
Copper	0.250	0.251		mg/L		100	80 - 120
Iron	1.00	0.873		mg/L		87	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Nickel	0.500	0.496		mg/L		99	80 - 120
Selenium	0.100	0.0906		mg/L		91	80 - 120
Silver	0.0500	0.0499		mg/L		100	80 - 120
Vanadium	0.500	0.504		mg/L		101	80 - 120
Zinc	0.500	0.512		mg/L		102	80 - 120

Lab Sample ID: LCS 500-797836/2-A
Matrix: Solid
Analysis Batch: 798077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 797836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0486		mg/L		97	80 - 120
Cadmium	0.0500	0.0478		mg/L		96	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Copper	0.250	0.251		mg/L		101	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Nickel	0.500	0.489		mg/L		98	80 - 120
Selenium	0.100	0.0892		mg/L		89	80 - 120
Silver	0.0500	0.0475		mg/L		95	80 - 120
Vanadium	0.500	0.498		mg/L		100	80 - 120
Zinc	0.500	0.495		mg/L		99	80 - 120

Lab Sample ID: LCS 500-802852/2-A
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.519		mg/L		104	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-802852/2-A
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	0.500	0.536		mg/L		107	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LCS 500-803323/2-A
Matrix: Solid
Analysis Batch: 803532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0515		mg/L		103	80 - 120
Cadmium	0.0500	0.0493		mg/L		99	80 - 120
Chromium	0.200	0.191		mg/L		96	80 - 120
Copper	0.250	0.257		mg/L		103	80 - 120
Iron	1.00	0.917		mg/L		92	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Nickel	0.500	0.516		mg/L		103	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Silver	0.0500	0.0496		mg/L		99	80 - 120
Zinc	0.500	0.572		mg/L		114	80 - 120

Lab Sample ID: LCS 500-803325/2-A
Matrix: Solid
Analysis Batch: 803554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803325

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.508		mg/L		102	80 - 120
Vanadium	0.500	0.509		mg/L		102	80 - 120
Selenium	0.100	0.0971		mg/L		97	80 - 120

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 19:00	1

Lab Sample ID: LB 500-792364/1-B
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 12:53	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 12:53	1
Chromium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Copper	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Iron	<0.20		0.20		mg/L		10/29/24 14:15	10/30/24 12:53	1
Lead	<0.0075		0.0075		mg/L		10/29/24 14:15	10/30/24 12:53	1
Nickel	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 12:53	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Vanadium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-792364/1-B
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.10		0.10		mg/L		10/29/24 14:15	10/30/24 12:53	1

Lab Sample ID: LB 500-797618/1-B
Matrix: Solid
Analysis Batch: 798077

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 797836

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		12/03/24 14:57	12/04/24 13:40	1
Cadmium	<0.0050		0.0050		mg/L		12/03/24 14:57	12/04/24 13:40	1
Chromium	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:40	1
Copper	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:40	1
Iron	<0.20		0.20		mg/L		12/03/24 14:57	12/04/24 13:40	1
Lead	<0.0075		0.0075		mg/L		12/03/24 14:57	12/04/24 13:40	1
Nickel	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:40	1
Selenium	<0.050		0.050		mg/L		12/03/24 14:57	12/04/24 13:40	1
Silver	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:40	1
Vanadium	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:40	1
Zinc	<0.10		0.10		mg/L		12/03/24 14:57	12/04/24 13:40	1

Lab Sample ID: 500-256423-1 MS
Matrix: Solid
Analysis Batch: 798077

Client Sample ID: SB68 (0-3)
Prep Type: TCLP
Prep Batch: 797836

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Beryllium	<0.0040		0.0500	0.0496		mg/L		99	75 - 125		
Cadmium	<0.0050		0.0500	0.0495		mg/L		99	75 - 125		
Chromium	<0.025		0.200	0.209		mg/L		95	75 - 125		
Copper	<0.025		0.250	0.268		mg/L		101	75 - 125		
Iron	<0.20		1.00	0.950		mg/L		95	75 - 125		
Lead	<0.0075	L	0.100	0.0949		mg/L		95	75 - 125		
Nickel	<0.025		0.500	0.506		mg/L		101	75 - 125		
Selenium	<0.050		0.100	0.0949		mg/L		95	75 - 125		
Silver	<0.025		0.0500	0.0501		mg/L		100	75 - 125		
Vanadium	0.16		0.500	0.659		mg/L		99	75 - 125		
Zinc	<0.10		0.500	0.547		mg/L		109	75 - 125		

Lab Sample ID: 500-256423-1 DU
Matrix: Solid
Analysis Batch: 798077

Client Sample ID: SB68 (0-3)
Prep Type: TCLP
Prep Batch: 797836

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Beryllium	<0.0040			<0.0040		mg/L				NC	20
Cadmium	<0.0050			<0.0050		mg/L				NC	20
Chromium	<0.025			<0.025		mg/L				NC	20
Copper	<0.025			<0.025		mg/L				NC	20
Iron	<0.20			<0.20		mg/L				NC	20
Lead	<0.0075	L		<0.0075	L	mg/L				NC	20
Nickel	<0.025			<0.025		mg/L				NC	20
Selenium	<0.050			<0.050		mg/L				NC	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256423-1 DU
Matrix: Solid
Analysis Batch: 798077

Client Sample ID: SB68 (0-3)
Prep Type: TCLP
Prep Batch: 797836

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	0.16		0.167		mg/L		2	20
Zinc	<0.10		<0.10		mg/L		NC	20

Lab Sample ID: LB 500-803160/1-B
Matrix: Solid
Analysis Batch: 803532

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 803323

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:22	01/20/25 11:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/17/25 14:22	01/20/25 11:27	1
Chromium	<0.010		0.025	0.010	mg/L		01/17/25 14:22	01/20/25 11:27	1
Copper	<0.010		0.025	0.010	mg/L		01/17/25 14:22	01/20/25 11:27	1
Iron	<0.20		0.20	0.20	mg/L		01/17/25 14:22	01/20/25 11:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:22	01/20/25 11:27	1
Nickel	<0.010		0.025	0.010	mg/L		01/17/25 14:22	01/20/25 11:27	1
Selenium	<0.020		0.050	0.020	mg/L		01/17/25 14:22	01/20/25 11:27	1
Silver	<0.010		0.025	0.010	mg/L		01/17/25 14:22	01/20/25 11:27	1
Zinc	<0.020		0.10	0.020	mg/L		01/17/25 14:22	01/20/25 11:27	1

Lab Sample ID: LB 500-802650/1-B
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802852

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:10	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:10	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:23	01/15/25 12:10	1

Lab Sample ID: LB 500-803139/1-B
Matrix: Solid
Analysis Batch: 803554

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803325

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/17/25 14:25	01/20/25 15:13	1
Vanadium	<0.010		0.025	0.010	mg/L		01/17/25 14:25	01/20/25 15:13	1
Selenium	<0.020		0.050	0.020	mg/L		01/17/25 14:25	01/20/25 15:13	1

Lab Sample ID: 500-256423-3 MS
Matrix: Solid
Analysis Batch: 803554

Client Sample ID: SB69 (0-3)
Prep Type: SPLP East
Prep Batch: 803325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	<0.010		0.500	0.500		mg/L		100	75 - 125
Vanadium	<0.010		0.500	0.515		mg/L		103	75 - 125
Selenium	<0.020		0.100	0.0963		mg/L		96	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256423-3 DU
Matrix: Solid
Analysis Batch: 803554

Client Sample ID: SB69 (0-3)
Prep Type: SPLP East
Prep Batch: 803325

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	<0.010		<0.010		mg/L		NC	20
Vanadium	<0.010		<0.010		mg/L		NC	20
Selenium	<0.020		<0.020		mg/L		NC	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-640243/2-A
Matrix: Solid
Analysis Batch: 640493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/30/24 14:00	12/31/24 19:38	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/30/24 14:00	12/31/24 19:38	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/30/24 14:00	12/31/24 19:38	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/30/24 14:00	12/31/24 19:38	1

Lab Sample ID: LCS 240-640243/4-A
Matrix: Solid
Analysis Batch: 640493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.500	0.471		mg/L		94	80 - 120
Copper	0.500	0.499		mg/L		100	80 - 120
Selenium	1.00	0.926		mg/L		93	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120

Lab Sample ID: LCS 500-802680/2-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.510		mg/L		102	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LCS 500-803323/2-A
Matrix: Solid
Analysis Batch: 803623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.534		mg/L		107	80 - 120
Thallium	0.100	0.0958		mg/L		96	80 - 120

Lab Sample ID: LCS 500-803325/2-A
Matrix: Solid
Analysis Batch: 809240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803325

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.518		mg/L		104	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-802539/1-B
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802680

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/13/25 14:18	01/15/25 18:53	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:18	01/15/25 18:53	1

Lab Sample ID: LB 500-803160/1-B
Matrix: Solid
Analysis Batch: 803623

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 803323

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00479	J	0.0060	0.0013	mg/L		01/17/25 14:22	01/20/25 21:17	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/17/25 14:22	01/20/25 21:17	1

Lab Sample ID: 500-256423-2 MS
Matrix: Solid
Analysis Batch: 803623

Client Sample ID: SB68 (7.5-10)
Prep Type: TCLP
Prep Batch: 803323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0044	J B	0.500	0.520		mg/L		103	75 - 125
Thallium	<0.00057		0.100	0.0936		mg/L		94	75 - 125

Lab Sample ID: 500-256423-2 DU
Matrix: Solid
Analysis Batch: 803623

Client Sample ID: SB68 (7.5-10)
Prep Type: TCLP
Prep Batch: 803323

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.0044	J B	0.00394	J	mg/L		12	20
Thallium	<0.00057		<0.00057		mg/L		NC	20

Lab Sample ID: LB 240-640187/1-B
Matrix: Solid
Analysis Batch: 640493

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 640243

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/30/24 14:00	12/31/24 19:35	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/30/24 14:00	12/31/24 19:35	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/30/24 14:00	12/31/24 19:35	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/30/24 14:00	12/31/24 19:35	1

Lab Sample ID: LB 500-803139/1-B
Matrix: Solid
Analysis Batch: 809240

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803325

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/17/25 14:25	03/07/25 15:59	1

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB68 (0-3)
Lab Sample ID: 500-256423-1
Date Collected: 09/09/24 08:42
Matrix: Solid
Date Received: 09/10/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	EPA 1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 13:03
TCLP	Leach	1311			797618	RJ	EET CHI	12/02/24 15:12 - 12/03/24 09:12 [1]
TCLP	Prep	3010A			797836	S1Z	EET CHI	12/03/24 14:57 - 12/03/24 20:57 [1]
TCLP	Analysis	6010D		1	798077	SJ	EET CHI	12/04/24 13:45
TCLP	Leach	1311			802539	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
TCLP	Prep	3010A			802680	S1Z	EET CHI	01/13/25 14:18 - 01/13/25 20:18 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 20:10

Client Sample ID: SB68 (7.5-10)
Lab Sample ID: 500-256423-2
Date Collected: 09/09/24 08:57
Matrix: Solid
Date Received: 09/10/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	EPA 1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 13:07
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 13:46
TCLP	Leach	1311			803160	PA	EET CHI	01/16/25 15:38 - 01/17/25 09:38 [1]
TCLP	Prep	3010A			803323	S1Z	EET CHI	01/17/25 14:22 - 01/17/25 20:22 [1]
TCLP	Analysis	6020B		1	803623	S1Z	EET CHI	01/20/25 21:22

Client Sample ID: SB69 (0-3)
Lab Sample ID: 500-256423-3
Date Collected: 09/09/24 10:04
Matrix: Solid
Date Received: 09/10/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	EPA 1312			803139	PA	EET CHI	01/16/25 12:30 - 01/17/25 06:30 [1]
SPLP East	Prep	3010A			803325	S1Z	EET CHI	01/17/25 14:25 - 01/17/25 20:25 [1]
SPLP East	Analysis	6010D		1	803554	SJ	EET CHI	01/20/25 15:22
TCLP	Leach	EPA 1311			803160	PA	EET CHI	01/16/25 15:38 - 01/17/25 09:38 [1]
TCLP	Prep	3010A			803323	S1Z	EET CHI	01/17/25 14:22 - 01/17/25 20:22 [1]
TCLP	Analysis	6010D		1	803532	SJ	EET CHI	01/20/25 11:36
SPLP East	Leach	EPA 1312			803139	PA	EET CHI	01/16/25 12:30 - 01/17/25 06:30 [1]
SPLP East	Prep	3010A			803325	S1Z	EET CHI	01/17/25 14:25 - 01/17/25 20:25 [1]
SPLP East	Analysis	6020B		1	809240	RN	EET CHI	03/07/25 16:04
TCLP	Leach	EPA 1311			803160	PA	EET CHI	01/16/25 15:38 - 01/17/25 09:38 [1]
TCLP	Prep	3010A			803323	S1Z	EET CHI	01/17/25 14:22 - 01/17/25 20:22 [1]
TCLP	Analysis	6020B		1	803623	S1Z	EET CHI	01/20/25 21:37

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-7
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB69 (3-5)
Lab Sample ID: 500-256423-4
Date Collected: 09/09/24 10:10
Matrix: Solid
Date Received: 09/10/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/15/24 20:19
SPLP East	Leach	1312			640187	KLE	EET CLE	12/29/24 16:00 - 12/30/24 08:35 [1]
SPLP East	Prep	3010A			640243	S4FJ	EET CLE	12/30/24 14:00
SPLP East	Analysis	6020B		1	640493	AJC	EET CLE	12/31/24 19:57

Client Sample ID: SB70 (0-3)
Lab Sample ID: 500-256423-5
Date Collected: 09/09/24 11:58
Matrix: Solid
Date Received: 09/10/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	EPA 1312			803139	PA	EET CHI	01/16/25 12:30 - 01/17/25 06:30 [1]
SPLP East	Prep	3010A			803325	S1Z	EET CHI	01/17/25 14:25 - 01/17/25 20:25 [1]
SPLP East	Analysis	6010D		1	803554	SJ	EET CHI	01/20/25 15:39

Client Sample ID: SB71 (0-3)
Lab Sample ID: 500-256423-8
Date Collected: 09/09/24 14:30
Matrix: Solid
Date Received: 09/10/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	EPA 1312			803139	PA	EET CHI	01/16/25 12:30 - 01/17/25 06:30 [1]
SPLP East	Prep	3010A			803325	S1Z	EET CHI	01/17/25 14:25 - 01/17/25 20:25 [1]
SPLP East	Analysis	6010D		1	803554	SJ	EET CHI	01/20/25 15:43
TCLP	Leach	EPA 1311			803160	PA	EET CHI	01/16/25 15:38 - 01/17/25 09:38 [1]
TCLP	Prep	3010A			803323	S1Z	EET CHI	01/17/25 14:22 - 01/17/25 20:22 [1]
TCLP	Analysis	6010D		1	803532	SJ	EET CHI	01/20/25 11:41
TCLP	Leach	EPA 1311			803160	PA	EET CHI	01/16/25 15:38 - 01/17/25 09:38 [1]
TCLP	Prep	3010A			803323	S1Z	EET CHI	01/17/25 14:22 - 01/17/25 20:22 [1]
TCLP	Analysis	6020B		1	803623	S1Z	EET CHI	01/20/25 21:40

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256423-7
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24
Wisconsin	State	399167560	08-31-25

Chain of Custody Record

670136

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Address _____

Regulatory Program: ☑ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Harrison	Site Contact:	Date:	COC No
Company Name: PIONEER	Tel/Email: JHARRISON@PIONEERPROS	Lab Contact:	Carrier:	1 of ____ COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below ____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name: 8080 S Lakeshore Dr	☐ 1 week			
Site	☐ 2 days			Job / SDG No
P O # 24-0124-103	☐ 1 day			500-256423

500-256423 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL	PH	TPH	Sample Specific Notes
1	SB68 (0-3)	9/9/24	842	G	SO	4			X	X		
2	SB68 (7.5-10)		857									
3	SB69 (0-3)		1004									
4	SB69 (3-5)		1010									
5	SB70 (0-3)		1158									
6	SB70 (12.5-15)		1230								X	
7	SB70 (17.5-20)		109									
8	SB71 (0-3)		230									
9	~~SB71 ( )~~											

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 1.1 Corr'd 1.0 Therm ID No _____

Relinquished by:	Company	Date/Time	Received by:	Company	Date/Time
[signature]	PIONEER	9/10/24	[signature]	EETA	8TH 9/10/24 0950
[signature]	EETA 9/10/24	1105			
			Received in Laboratory by: [signature]	EETA	9/10/24 1105

3/17/2025

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256423-7

Login Number: 256423
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/14/2025 5:02:49 PM Revision 1

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256508-8

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
4/14/2025 5:02:49 PM
Revision 1

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256508-10 — Eurofins Chicago

Job Narrative
500-256508-10

Receipt
The samples were received on 9/11/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

Receipt Exceptions

Sample #5 and #6-Client labels containers with paper label and writes on lids. For samples SB74 paper label and lid have different depths (paper label list (0-3) and lids list (3-5) and vice versa for other set). Matched and logged per client paper label not per sample IDs on lids.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit for SPLP Berylium: SB76 (7.5-10) (500-256508-10). The continuing calibration blanks and method blanks may not support the lower PQL.

Metals
Method 6020B: The method blank for preparation batch 500-812104 and 500-812419 and analytical batch 500-812676 contained Manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-256508-2 — Eurofins Chicago

Job Narrative
500-256508-2

Revision
The report being provided is a revision of the original report sent on 10/17/2024. The report (revision 4) is being revised due to: Add Sb, Be, Cu, Fe, Ni, Tl, Zn to SB76 (0-3) per client request.

Report revision history
Revision 1 - 10/29/2024 - Reason - Add Ba, Cd, Cu to SB80 (0-3) per client request.

Revision 2 - 11/13/2024 - Reason - The report and EDD have been revised. Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit for beryllium. The continuing calibration blanks and method blanks may not support the lower PQL..

Revision 3 - 11/18/2024 - Reason - The report and EDD havebeen revised to include TCLP vanadium for sample SB76(0-3)..

Receipt
The samples were received on 9/11/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

Receipt Exceptions

Sample #5 and #6-Client labels containers with paper label and writes on lids. For samples SB74 paper label and lid have different depths (paper label list (0-3) and lids list (3-5) and vice versa for other set). Matched and logged per client paper label not per sample IDs on lids.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit for SPLP Berylium: SB76 (7.5-10) (500-256508-10). The continuing calibration blanks and method blanks may not support the lower PQL.

Metals
Method 6010D: The following sample was diluted due to the nature of the sample matrix: SB80 (0-3) (500-256508-17). Elevated reporting limits (RLs) are provided.

Method 6010D: The following sample was diluted due to the nature of the sample matrix: SB80 (0-3) (500-256508-17). Elevated reporting limits (RLs) are provided.

Method 6010D: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: SB80 (0-3) (500-256508-17). The continuing calibration blanks and method blanks may not support the lower PQL.

Method 7470A: The following sample(s) was prepared outside of preparation holding time due to mercury being requested after hold time had expired. SB76 (0-3) (500-256508-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 1311: The following sample was prepared outside of preparation holding time due to the analysis being requested after the holding time had elapsed: SB76 (0-3) (500-256508-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-256508-3 — Eurofins Chicago

Job Narrative
500-256508-3

Revision
The report being provided is a revision of the original report sent on 10/30/2024. The report (revision 3) is being revised due to: Add additional TCLP/SPLP analytes to selected samples per client request.

Report revision history
Revision 1 - 11/22/2024 - Reason - Client requesting SPLP V result added to SB76 (0-3).

Revision 2 - 1/21/2025 - Reason - Add Be, Cd, Cr, Cu, Fe, Pb, Se, Zn to SB77 (0-3) per client request.

Receipt
The samples were received on 9/11/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

Receipt Exceptions

Sample #5 and #6-Client labels containers with paper label and writes on lids. For samples SB74 paper label and lid have different depths (paper label list (0-3) and lids list (3-5) and vice versa for other set). Matched and logged per client paper label not per sample IDs on lids.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit for SPLP Berylium: SB76 (7.5-10) (500-256508-10). The continuing calibration blanks and method blanks may not support the lower PQL.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256508-4 — Eurofins Chicago

Job Narrative
500-256508-4

Revision
The report being provided is a revision of the original report sent on 11/7/2024. The report (revision 4) is being revised due to: Add SPLP Mn to SB76 (7.5-10) per client request.

Report revision history
Revision 1 - 11/11/2024 - Reason - The report and EDD have been revised to lower limits for metals to meet TACO objectives. Method calibrations support the lower limit..

Revision 2 - 11/22/2024 - Reason - Client requested SPLP Pb added to SB80 (0-3).

Revision 3 - 1/21/2025 - Reason - Add SPLP Mn to SB80 (0-3) per client request.

Receipt
The samples were received on 9/11/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

Receipt Exceptions

Sample #5 and #6-Client labels containers with paper label and writes on lids. For samples SB74 paper label and lid have different depths (paper label list (0-3) and lids list (3-5) and vice versa for other set). Matched and logged per client paper label not per sample IDs on lids.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit for SPLP Berylium: SB76 (7.5-10) (500-256508-10). The continuing calibration blanks and method blanks may not support the lower PQL.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256508-5 — Eurofins Chicago

Job Narrative
500-256508-5

Revision
The report being provided is a revision of the original report sent on 12/4/2024. The report (revision 2) is being revised due to: Revised to fix issue with added TCLP Fe to #1 per client request.

Report revision history
Revision 1 - 2/4/2025 - Reason - Add TCLP Fe per client request.

Receipt
The samples were received on 9/11/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256508-6 — Eurofins Chicago

Job Narrative
500-256508-6

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 1) is being revised due to: Remove erroneous H flags from sample data.

Receipt
The samples were received on 9/11/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

Receipt Exceptions

Sample #5 and #6-Client labels containers with paper label and writes on lids. For samples SB74 paper label and lid have different depths (paper label list (0-3) and lids list (3-5) and vice versa for other set). Matched and logged per client paper label not per sample IDs on lids.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit for SPLP Berylium: SB76 (7.5-10) (500-256508-10). The continuing calibration blanks and method blanks may not support the lower PQL.

Metals
Method 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 500-802847, the temperature dropped below this range to 17.4 degrees Celsius. This was due to extreme cold outside and our heating system not maintaining temperature overnight. As a result, the test was not compliant with the requirements of 40 CFR Part 261.

Method 6010D: The laboratory control sample (LCS) for prep batch 802853 recovered outside control limits for the following analytes: Cr. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256508-8 — Eurofins Chicago

Job Narrative
500-256508-8

Revision
The report being provided is a revision of the original report sent on 2/4/2025. The report (revision 1) is being revised due to: Add SPLP Mn to SB78 (0-3) per client request.

Receipt
The samples were received on 9/11/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

Receipt Exceptions

Sample #5 and #6-Client labels containers with paper label and writes on lids. For samples SB74 paper label and lid have different depths (paper label list (0-3) and lids list (3-5) and vice versa for other set). Matched and logged per client paper label not per sample IDs on lids.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit for SPLP Berylium: SB76 (7.5-10) (500-256508-10). The continuing calibration blanks and method blanks may not support the lower PQL.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256508-9 — Eurofins Chicago

Job Narrative
500-256508-9

Receipt
The samples were received on 9/11/2024 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

Receipt Exceptions

Sample #5 and #6-Client labels containers with paper label and writes on lids. For samples SB74 paper label and lid have different depths (paper label list (0-3) and lids list (3-5) and vice versa for other set). Matched and logged per client paper label not per sample IDs on lids.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit for SPLP Berylium: SB76 (7.5-10) (500-256508-10). The continuing calibration blanks and method blanks may not support the lower PQL.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB72 (0-3) — Lab Sample ID: 500-256508-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2.0		0.20		mg/L	1		6010D	TCLP
Iron	5.5		0.20	0.20	mg/L	1		6010D	SPLP East

Client Sample ID: SB73 (0-3) — Lab Sample ID: 500-256508-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4.6		0.20	0.20	mg/L	1		6010D	SPLP East

Client Sample ID: SB74 (0-3) — Lab Sample ID: 500-256508-5

No Detections.

Client Sample ID: SB74 (3-5) — Lab Sample ID: 500-256508-6

No Detections.

Client Sample ID: SB75 (0-3) — Lab Sample ID: 500-256508-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.011	J	0.025	0.010	mg/L	1		6010D	TCLP
Antimony	0.0033	J	0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB75 (5-7.5) — Lab Sample ID: 500-256508-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.025		0.0075	0.0075	mg/L	1		6010D	TCLP

Client Sample ID: SB76 (0-3) — Lab Sample ID: 500-256508-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.031		0.0020		mg/L	1		6020B	TCLP
Barium	0.31		0.0050		mg/L	1		6020B	TCLP
Chromium	0.092		0.0050		mg/L	1		6020B	TCLP
Copper	0.0046		0.0020		mg/L	1		6020B	TCLP
Iron	0.14		0.10		mg/L	1		6020B	TCLP
Lead	0.0068		0.0010		mg/L	1		6020B	TCLP
Manganese	0.20		0.0050		mg/L	1		6020B	TCLP
Vanadium	0.13		0.020		mg/L	1		6020B	TCLP
Antimony	0.0086		0.0020		mg/L	1		6020B	SPLP East
Manganese	0.0089		0.0050		mg/L	1		6020B	SPLP East
Vanadium	0.12		0.020		mg/L	1		6020B	SPLP East

Client Sample ID: SB76 (7.5-10) — Lab Sample ID: 500-256508-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0040		0.0020	0.00057	mg/L	1		6020B	TCLP
Selenium	0.0095		0.0050	0.00089	mg/L	1		6020B	TCLP

Client Sample ID: SB77 (0-3) — Lab Sample ID: 500-256508-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.033		0.025		mg/L	1		6010D	TCLP
Copper	0.083		0.025		mg/L	1		6010D	TCLP
Iron	21		0.20		mg/L	1		6010D	TCLP
Lead	0.19		0.0075		mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB77 (0-3) (Continued) — Lab Sample ID: 500-256508-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.030		0.025		mg/L	1		6010D	TCLP
Zinc	0.24		0.10		mg/L	1		6010D	TCLP
Antimony	0.0060		0.0060	0.0013	mg/L	1		6020B	TCLP
Iron	0.88		0.10	0.047	mg/L	1		6020B	SPLP East
Lead	0.012		0.00050	0.00019	mg/L	1		6020B	SPLP East

Client Sample ID: SB77 (5-7.5) — Lab Sample ID: 500-256508-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0016	J	0.0060	0.0013	mg/L	1		6020B	TCLP
Manganese	0.051	H B	0.0025	0.00079	mg/L	1		6020B	SPLP East

Client Sample ID: SB78 (0-3) — Lab Sample ID: 500-256508-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1.2		0.20		mg/L	1		6010D	TCLP
Antimony	0.011		0.0020	0.00057	mg/L	1		6020B	TCLP
Arsenic	0.0055		0.0050	0.00075	mg/L	1		6020B	TCLP
Cadmium	0.0037	B	0.0010	0.000077	mg/L	1		6020B	TCLP
Chromium	0.0026	J	0.0050	0.0012	mg/L	1		6020B	TCLP
Copper	0.0055		0.0020	0.0017	mg/L	1		6020B	TCLP
Nickel	0.21		0.0020	0.0015	mg/L	1		6020B	TCLP
Manganese	0.44		0.0050	0.0035	mg/L	1		6020B	SPLP East
Nickel	0.040		0.0020	0.0015	mg/L	1		6020B	SPLP East

Client Sample ID: SB78 (10-12.5) — Lab Sample ID: 500-256508-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.32		0.015		mg/L	1		6010D	TCLP
Manganese	0.026		0.015		mg/L	1		6010D	SPLP East
Antimony	0.0038		0.0020	0.00057	mg/L	1		6020B	TCLP
Arsenic	0.032		0.0050	0.00075	mg/L	1		6020B	TCLP
Chromium	0.038		0.0050	0.0012	mg/L	1		6020B	TCLP
Iron	0.37		0.10	0.047	mg/L	1		6020B	TCLP
Nickel	0.0058		0.0020	0.0015	mg/L	1		6020B	TCLP
Selenium	0.0045	J	0.0050	0.00089	mg/L	1		6020B	TCLP
Vanadium	0.13		0.020	0.00082	mg/L	1		6020B	TCLP

Client Sample ID: SB79 (0-3) — Lab Sample ID: 500-256508-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.025		0.025	0.010	mg/L	1		6010D	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010D	TCLP
Silver	0.042		0.025	0.010	mg/L	1		6010D	TCLP
Antimony	0.0091		0.0060	0.0013	mg/L	1		6020B	TCLP
Antimony	0.0061		0.0060	0.0013	mg/L	1		6020B	SPLP East

Client Sample ID: SB79 (5-7.5) — Lab Sample ID: 500-256508-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.023	J	0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB80 (0-3) — Lab Sample ID: 500-256508-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.88		0.50		mg/L	1		6010D	TCLP
Lead	0.0094		0.0075		mg/L	1		6010D	TCLP
Antimony	0.0015	J	0.0020	0.00057	mg/L	1		6020B	TCLP
Nickel	0.0062		0.0020	0.0015	mg/L	1		6020B	TCLP
Selenium	0.0041	J	0.0050	0.00089	mg/L	1		6020B	TCLP

Client Sample ID: SB80 (3-5) — Lab Sample ID: 500-256508-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0017	J	0.0020	0.00057	mg/L	1		6020B	SPLP East
Copper	0.0024		0.0020	0.0017	mg/L	1		6020B	SPLP East
Iron	0.14		0.10	0.047	mg/L	1		6020B	SPLP East
Lead	0.00064	J	0.0010	0.00045	mg/L	1		6020B	SPLP East
Manganese	0.024		0.0050	0.0035	mg/L	1		6020B	SPLP East
Selenium	0.0038	J	0.0050	0.00089	mg/L	1		6020B	SPLP East

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedu	SW846	EET CLE
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
1312	Synthetic Precipitation Leaching Procedure -East (Metals)	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256508-1	SB72 (0-3)	Solid	09/10/24 09:09	09/11/24 11:05
500-256508-3	SB73 (0-3)	Solid	09/10/24 10:10	09/11/24 11:05
500-256508-5	SB74 (0-3)	Solid	09/10/24 11:17	09/11/24 11:05
500-256508-6	SB74 (3-5)	Solid	09/10/24 11:24	09/11/24 11:05
500-256508-7	SB75 (0-3)	Solid	09/10/24 08:59	09/11/24 11:05
500-256508-8	SB75 (5-7.5)	Solid	09/10/24 09:14	09/11/24 11:05
500-256508-9	SB76 (0-3)	Solid	09/10/24 10:00	09/11/24 11:05
500-256508-10	SB76 (7.5-10)	Solid	09/10/24 10:13	09/11/24 11:05
500-256508-11	SB77 (0-3)	Solid	09/10/24 11:01	09/11/24 11:05
500-256508-12	SB77 (5-7.5)	Solid	09/10/24 11:19	09/11/24 11:05
500-256508-13	SB78 (0-3)	Solid	09/10/24 12:33	09/11/24 11:05
500-256508-14	SB78 (10-12.5)	Solid	09/10/24 13:09	09/11/24 11:05
500-256508-15	SB79 (0-3)	Solid	09/10/24 13:50	09/11/24 11:05
500-256508-16	SB79 (5-7.5)	Solid	09/10/24 14:06	09/11/24 11:05
500-256508-17	SB80 (0-3)	Solid	09/10/24 15:00	09/11/24 11:05
500-256508-18	SB80 (3-5)	Solid	09/10/24 15:08	09/11/24 11:05

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB72 (0-3)
Lab Sample ID: 500-256508-1
Date Collected: 09/10/24 09:09
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 14:03	1
Iron	**2.0**		0.20		mg/L		12/03/24 14:57	12/04/24 14:03	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**5.5**		0.20	0.20	mg/L		01/14/25 14:23	01/15/25 13:11	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB73 (0-3)
Lab Sample ID: 500-256508-3
Date Collected: 09/10/24 10:10
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.6		0.20	0.20	mg/L		01/14/25 14:23	01/15/25 13:16	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB74 (0-3)
Lab Sample ID: 500-256508-5
Date Collected: 09/10/24 11:17
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:23	01/15/25 13:20	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/14/25 14:23	01/15/25 18:22	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB74 (3-5)
Lab Sample ID: 500-256508-6

Date Collected: 09/10/24 11:24
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.020		0.050	0.020	mg/L		03/03/25 08:20	03/06/25 02:11	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:23	01/15/25 13:33	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/14/25 14:23	01/15/25 18:26	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:23	01/15/25 18:26	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB75 (0-3)
Lab Sample ID: 500-256508-7

Date Collected: 09/10/24 08:59
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/25 08:20	03/06/25 02:38	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/03/25 08:20	03/06/25 02:38	1
Chromium	**0.011**	**J**	0.025	0.010	mg/L		03/03/25 08:20	03/06/25 02:38	1
Copper	<0.010		0.025	0.010	mg/L		03/03/25 08:20	03/06/25 02:38	1
Iron	<0.20		0.20	0.20	mg/L		03/03/25 08:20	03/06/25 20:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/03/25 08:20	03/06/25 02:38	1
Nickel	<0.010		0.025	0.010	mg/L		03/03/25 08:20	03/06/25 02:38	1
Selenium	<0.020		0.050	0.020	mg/L		03/03/25 08:20	03/06/25 02:38	1
Silver	<0.010		0.025	0.010	mg/L		03/03/25 08:20	03/06/25 20:10	1
Zinc	<0.020		0.10	0.020	mg/L		03/03/25 08:20	03/06/25 02:38	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0033**	**J**	0.0060	0.0013	mg/L		03/03/25 08:20	03/07/25 15:54	1
Thallium	<0.00057		0.0020	0.00057	mg/L		03/03/25 08:20	03/07/25 15:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB75 (5-7.5)
Lab Sample ID: 500-256508-8
Date Collected: 09/10/24 09:14
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.025		0.0075	0.0075	mg/L		03/03/25 08:20	03/06/25 20:14	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB76 (0-3)
Lab Sample ID: 500-256508-9
Date Collected: 09/10/24 10:00
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.031**		0.0020		mg/L		10/14/24 14:00	10/15/24 19:41	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:41	1
Barium	**0.31**		0.0050		mg/L		10/14/24 14:00	10/15/24 19:41	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:41	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:41	1
Chromium	**0.092**		0.0050		mg/L		10/14/24 14:00	10/15/24 19:41	1
Copper	**0.0046**		0.0020		mg/L		10/14/24 14:00	10/15/24 19:41	1
Iron	**0.14**		0.10		mg/L		10/14/24 14:00	10/15/24 19:41	1
Lead	**0.0068**		0.0010		mg/L		10/14/24 14:00	10/15/24 19:41	1
Manganese	**0.20**		0.0050		mg/L		10/14/24 14:00	10/15/24 19:41	1
Nickel	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:41	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:41	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:41	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:41	1
Vanadium	**0.13**		0.020		mg/L		10/14/24 14:00	10/15/24 19:41	1
Zinc	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 19:41	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0086**		0.0020		mg/L		10/25/24 14:00	10/28/24 16:48	1
Manganese	**0.0089**		0.0050		mg/L		10/25/24 14:00	10/28/24 16:48	1
Vanadium	**0.12**		0.020		mg/L		10/25/24 14:00	10/28/24 16:48	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	H	0.0020		mg/L		10/14/24 14:00	10/15/24 11:36	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB76 (7.5-10)
Lab Sample ID: 500-256508-10

Date Collected: 09/10/24 10:13
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/14/24 14:00	10/15/24 20:23	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		11/04/24 14:00	11/06/24 06:35	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 06:35	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0040**		0.0020	0.00057	mg/L		02/27/25 14:00	02/28/25 14:50	1
Silver	<0.000053		0.0010	0.000053	mg/L		02/27/25 14:00	02/28/25 14:50	1
Selenium	**0.0095**		0.0050	0.00089	mg/L		02/27/25 14:00	02/28/25 14:50	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB77 (0-3)
Lab Sample ID: 500-256508-11

Date Collected: 09/10/24 11:01
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 13:51	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 13:51	1
Chromium	**0.033**		0.025		mg/L		10/29/24 14:15	10/30/24 13:51	1
Copper	**0.083**		0.025		mg/L		10/29/24 14:15	10/30/24 13:51	1
Iron	**21**		0.20		mg/L		10/29/24 14:15	10/30/24 13:51	1
Lead	**0.19**		0.0075		mg/L		10/29/24 14:15	10/30/24 13:51	1
Nickel	**0.030**		0.025		mg/L		10/29/24 14:15	10/30/24 13:51	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 13:51	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 13:51	1
Zinc	**0.24**		0.10		mg/L		10/29/24 14:15	10/30/24 13:51	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0060**		0.0060	0.0013	mg/L		01/15/25 14:11	01/16/25 16:53	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:11	01/16/25 16:53	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.88**		0.10	0.047	mg/L		01/31/25 15:01	02/03/25 17:20	1
Lead	**0.012**		0.00050	0.00019	mg/L		01/31/25 15:01	02/03/25 17:20	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB77 (5-7.5)
Lab Sample ID: 500-256508-12

Date Collected: 09/10/24 11:19
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/25 08:20	03/06/25 02:47	1
Chromium	<0.010		0.025	0.010	mg/L		03/03/25 08:20	03/06/25 02:47	1
Selenium	<0.020		0.050	0.020	mg/L		03/03/25 08:20	03/06/25 02:47	1
Silver	<0.010		0.025	0.010	mg/L		03/03/25 08:20	03/06/25 20:19	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0016**	**J**	0.0060	0.0013	mg/L		03/03/25 08:20	03/07/25 15:57	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.051**	**H B**	0.0025	0.00079	mg/L		04/03/25 15:12	04/04/25 14:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB78 (0-3)
Lab Sample ID: 500-256508-13

Date Collected: 09/10/24 12:33
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.2**		0.20		mg/L		10/14/24 14:00	10/15/24 20:28	1
Selenium	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 20:28	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.011**		0.0020	0.00057	mg/L		12/31/24 14:00	01/02/25 15:31	1
Arsenic	**0.0055**		0.0050	0.00075	mg/L		12/31/24 14:00	01/02/25 15:31	1
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 15:31	1
Cadmium	**0.0037**	**B**	0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 15:31	1
Chromium	**0.0026**	**J**	0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 15:31	1
Copper	**0.0055**		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 15:31	1
Nickel	**0.21**		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 15:31	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 15:31	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 15:31	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.44**		0.0050	0.0035	mg/L		01/24/25 14:00	01/27/25 15:13	1
Nickel	**0.040**		0.0020	0.0015	mg/L		01/24/25 14:00	01/27/25 15:13	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB78 (10-12.5)
Lab Sample ID: 500-256508-14

Date Collected: 09/10/24 13:09
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.32**		0.015		mg/L		10/14/24 14:00	10/15/24 20:32	1
Silver	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 20:32	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.026**		0.015		mg/L		10/25/24 14:00	10/29/24 07:04	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0038**		0.0020	0.00057	mg/L		12/31/24 14:00	01/02/25 15:34	1
Arsenic	**0.032**		0.0050	0.00075	mg/L		12/31/24 14:00	01/02/25 15:34	1
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 15:34	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 15:34	1
Chromium	**0.038**		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 15:34	1
Iron	**0.37**		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 15:34	1
Nickel	**0.0058**		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 15:34	1
Selenium	**0.0045**	**J**	0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 15:34	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 15:34	1
Vanadium	**0.13**		0.020	0.00082	mg/L		12/31/24 14:00	01/02/25 15:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB79 (0-3)
Lab Sample ID: 500-256508-15

Date Collected: 09/10/24 13:50
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:24	01/15/25 11:37	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:24	01/15/25 11:37	1
Chromium	<0.050	*+	0.13	0.050	mg/L		01/14/25 14:24	01/15/25 18:26	5
Copper	**0.025**		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:37	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:24	01/15/25 11:37	1
Lead	<0.038		0.038	0.038	mg/L		01/14/25 14:24	01/15/25 18:26	5
Nickel	**0.020**	**J**	0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:37	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:24	01/15/25 11:37	1
Silver	**0.042**		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:37	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:24	01/15/25 11:37	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 13:38	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0091**		0.0060	0.0013	mg/L		01/14/25 14:24	01/16/25 13:32	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:24	01/16/25 13:32	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0061**		0.0060	0.0013	mg/L		01/24/25 14:31	01/27/25 19:37	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB79 (5-7.5)
Lab Sample ID: 500-256508-16

Date Collected: 09/10/24 14:06
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:23	01/15/25 13:42	1
Manganese	**0.023**	**J**	0.025	0.010	mg/L		01/14/25 14:23	01/15/25 13:42	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:23	01/15/25 13:42	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 13:42	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/14/25 14:23	01/15/25 18:30	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:23	01/15/25 18:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB80 (0-3)
Lab Sample ID: 500-256508-17

Date Collected: 09/10/24 15:00
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.88**		0.50		mg/L		10/14/24 14:00	10/15/24 20:37	1
Cadmium	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 20:37	1
Copper	<2.0		2.0		mg/L		10/14/24 14:00	10/28/24 13:50	2
Zinc	<1.0		1.0		mg/L		10/14/24 14:00	10/15/24 20:37	1
Lead	**0.0094**		0.0075		mg/L		10/14/24 14:00	10/15/24 20:37	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.050		0.050		mg/L		11/04/24 14:00	11/06/24 06:40	1
Copper	<1.0		1.0		mg/L		11/04/24 14:00	11/06/24 06:40	1
Lead	<0.050		0.050		mg/L		11/04/24 14:00	11/06/24 06:40	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 06:40	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0015**	**J**	0.0020	0.00057	mg/L		12/31/24 14:00	01/02/25 15:37	1
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 15:37	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 15:37	1
Nickel	**0.0062**		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 15:37	1
Selenium	**0.0041**	**J**	0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 15:37	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 15:37	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 15:37	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB80 (3-5)
Lab Sample ID: 500-256508-18

Date Collected: 09/10/24 15:08
Matrix: Solid
Date Received: 09/11/24 11:05

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/14/24 14:00	10/15/24 20:42	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0017**	**J**	0.0020	0.00057	mg/L		12/30/24 14:00	12/31/24 20:05	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/30/24 14:00	12/31/24 20:05	1
Copper	**0.0024**		0.0020	0.0017	mg/L		12/30/24 14:00	12/31/24 20:05	1
Iron	**0.14**		0.10	0.047	mg/L		12/30/24 14:00	12/31/24 20:05	1
Lead	**0.00064**	**J**	0.0010	0.00045	mg/L		12/30/24 14:00	12/31/24 20:05	1
Manganese	**0.024**		0.0050	0.0035	mg/L		12/30/24 14:00	12/31/24 20:05	1
Selenium	**0.0038**	**J**	0.0050	0.00089	mg/L		12/30/24 14:00	12/31/24 20:05	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/30/24 14:00	12/31/24 20:05	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/30/24 14:00	12/31/24 20:05	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 630581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-9	SB76 (0-3)	TCLP	Solid	1311	
500-256508-10	SB76 (7.5-10)	TCLP	Solid	1311	
500-256508-13	SB78 (0-3)	TCLP	Solid	1311	
500-256508-14	SB78 (10-12.5)	TCLP	Solid	1311	
500-256508-17	SB80 (0-3)	TCLP	Solid	1311	
500-256508-18	SB80 (3-5)	TCLP	Solid	1311	
LB 240-630581/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 630682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-9	SB76 (0-3)	TCLP	Solid	3010A	630581
500-256508-10	SB76 (7.5-10)	TCLP	Solid	3010A	630581
500-256508-13	SB78 (0-3)	TCLP	Solid	3010A	630581
500-256508-14	SB78 (10-12.5)	TCLP	Solid	3010A	630581
500-256508-17	SB80 (0-3)	TCLP	Solid	3010A	630581
500-256508-18	SB80 (3-5)	TCLP	Solid	3010A	630581
LB 240-630581/1-B	Method Blank	TCLP	Solid	3010A	630581
MB 240-630682/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630682/3-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 240-630682/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 630688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-9	SB76 (0-3)	TCLP	Solid	7470A	630581
LB 240-630688/1-A	Method Blank	Total/NA	Solid	7470A	
MB 240-630688/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 240-630688/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 630895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-9	SB76 (0-3)	TCLP	Solid	7470A	630688
LB 240-630688/1-A	Method Blank	Total/NA	Solid	7470A	630688
MB 240-630688/2-A	Method Blank	Total/NA	Solid	7470A	630688
LCS 240-630688/3-A	Lab Control Sample	Total/NA	Solid	7470A	630688

Analysis Batch: 630918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-10	SB76 (7.5-10)	TCLP	Solid	6010D	630682
500-256508-13	SB78 (0-3)	TCLP	Solid	6010D	630682
500-256508-14	SB78 (10-12.5)	TCLP	Solid	6010D	630682
500-256508-17	SB80 (0-3)	TCLP	Solid	6010D	630682
500-256508-18	SB80 (3-5)	TCLP	Solid	6010D	630682
LB 240-630581/1-B	Method Blank	TCLP	Solid	6010D	630682
MB 240-630682/2-A	Method Blank	Total/NA	Solid	6010D	630682
LCS 240-630682/3-A	Lab Control Sample	Total/NA	Solid	6010D	630682

Analysis Batch: 630986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-9	SB76 (0-3)	TCLP	Solid	6020B	630682
LB 240-630581/1-B	Method Blank	TCLP	Solid	6020B	630682
MB 240-630682/2-A	Method Blank	Total/NA	Solid	6020B	630682

Metals (Continued)

Analysis Batch: 630986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-630682/4-A	Lab Control Sample	Total/NA	Solid	6020B	630682

Leach Batch: 632368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-9	SB76 (0-3)	SPLP East	Solid	1312	
500-256508-14	SB78 (10-12.5)	SPLP East	Solid	1312	
LB 240-632368/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 632464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-9	SB76 (0-3)	SPLP East	Solid	3010A	632368
500-256508-14	SB78 (10-12.5)	SPLP East	Solid	3010A	632368
LB 240-632368/1-B	Method Blank	SPLP East	Solid	3010A	632368
MB 240-632464/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-632464/3-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 240-632464/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 632808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-9	SB76 (0-3)	SPLP East	Solid	6020B	632464
LB 240-632368/1-B	Method Blank	SPLP East	Solid	6020B	632464
MB 240-632464/2-A	Method Blank	Total/NA	Solid	6020B	632464
LCS 240-632464/4-A	Lab Control Sample	Total/NA	Solid	6020B	632464

Analysis Batch: 632866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-14	SB78 (10-12.5)	SPLP East	Solid	6010D	632464
500-256508-17	SB80 (0-3)	TCLP	Solid	6010D	630682
LB 240-632368/1-B	Method Blank	SPLP East	Solid	6010D	632464
MB 240-632464/2-A	Method Blank	Total/NA	Solid	6010D	632464
LCS 240-632464/3-A	Lab Control Sample	Total/NA	Solid	6010D	632464

Leach Batch: 633697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-10	SB76 (7.5-10)	SPLP East	Solid	1312	
500-256508-17	SB80 (0-3)	SPLP East	Solid	1312	
LB 240-633697/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 633805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-10	SB76 (7.5-10)	SPLP East	Solid	3010A	633697
500-256508-17	SB80 (0-3)	SPLP East	Solid	3010A	633697
LB 240-633697/1-B	Method Blank	SPLP East	Solid	3010A	633697
MB 240-633805/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-633805/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 634193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-10	SB76 (7.5-10)	SPLP East	Solid	6010D	633805
500-256508-17	SB80 (0-3)	SPLP East	Solid	6010D	633805
LB 240-633697/1-B	Method Blank	SPLP East	Solid	6010D	633805

Metals (Continued)

Analysis Batch: 634193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-633805/2-A	Method Blank	Total/NA	Solid	6010D	633805
LCS 240-633805/3-A	Lab Control Sample	Total/NA	Solid	6010D	633805

Leach Batch: 640187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-18	SB80 (3-5)	SPLP East	Solid	1312	
LB 240-640187/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 640243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-18	SB80 (3-5)	SPLP East	Solid	3010A	640187
LB 240-640187/1-B	Method Blank	SPLP East	Solid	3010A	640187
MB 240-640243/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640243/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Leach Batch: 640346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-13	SB78 (0-3)	TCLP	Solid	1311	
500-256508-14	SB78 (10-12.5)	TCLP	Solid	1311	
500-256508-17	SB80 (0-3)	TCLP	Solid	1311	
LB 240-640346/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 640405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-13	SB78 (0-3)	TCLP	Solid	3010A	640346
500-256508-14	SB78 (10-12.5)	TCLP	Solid	3010A	640346
500-256508-17	SB80 (0-3)	TCLP	Solid	3010A	640346
LB 240-640346/1-B	Method Blank	TCLP	Solid	3010A	640346
MB 240-640405/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640405/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 640493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-18	SB80 (3-5)	SPLP East	Solid	6020B	640243
LB 240-640187/1-B	Method Blank	SPLP East	Solid	6020B	640243
MB 240-640243/2-A	Method Blank	Total/NA	Solid	6020B	640243
LCS 240-640243/4-A	Lab Control Sample	Total/NA	Solid	6020B	640243

Analysis Batch: 640570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-13	SB78 (0-3)	TCLP	Solid	6020B	640405
500-256508-14	SB78 (10-12.5)	TCLP	Solid	6020B	640405
500-256508-17	SB80 (0-3)	TCLP	Solid	6020B	640405
LB 240-640346/1-B	Method Blank	TCLP	Solid	6020B	640405
MB 240-640405/2-A	Method Blank	Total/NA	Solid	6020B	640405
LCS 240-640405/4-A	Lab Control Sample	Total/NA	Solid	6020B	640405

Leach Batch: 642422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-13	SB78 (0-3)	SPLP East	Solid	1312	
LB 240-642422/1-B	Method Blank	SPLP East	Solid	1312	

Metals

Prep Batch: 642457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-13	SB78 (0-3)	SPLP East	Solid	3010A	642422
LB 240-642422/1-B	Method Blank	SPLP East	Solid	3010A	642422
MB 240-642457/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-642457/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 642678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-13	SB78 (0-3)	SPLP East	Solid	6020B	642457
LB 240-642422/1-B	Method Blank	SPLP East	Solid	6020B	642457
MB 240-642457/2-A	Method Blank	Total/NA	Solid	6020B	642457
LCS 240-642457/3-A	Lab Control Sample	Total/NA	Solid	6020B	642457

Leach Batch: 646192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-10	SB76 (7.5-10)	TCLP	Solid	1311	
LB 240-646192/1-B	Method Blank	TCLP	Solid	1311	
500-256508-10 MS	SB76 (7.5-10)	TCLP	Solid	1311	
500-256508-10 MSD	SB76 (7.5-10)	TCLP	Solid	1311	

Prep Batch: 646244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-10	SB76 (7.5-10)	TCLP	Solid	3010A	646192
LB 240-646192/1-B	Method Blank	TCLP	Solid	3010A	646192
MB 240-646244/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-646244/4-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256508-10 MS	SB76 (7.5-10)	TCLP	Solid	3010A	646192
500-256508-10 MSD	SB76 (7.5-10)	TCLP	Solid	3010A	646192

Analysis Batch: 646448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-10	SB76 (7.5-10)	TCLP	Solid	6020B	646244
LB 240-646192/1-B	Method Blank	TCLP	Solid	6020B	646244
MB 240-646244/2-A	Method Blank	Total/NA	Solid	6020B	646244
LCS 240-646244/4-A	Lab Control Sample	Total/NA	Solid	6020B	646244
500-256508-10 MS	SB76 (7.5-10)	TCLP	Solid	6020B	646244
500-256508-10 MSD	SB76 (7.5-10)	TCLP	Solid	6020B	646244

Leach Batch: 792364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-11	SB77 (0-3)	TCLP	Solid	1311	
LB 500-792364/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 792710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-11	SB77 (0-3)	TCLP	Solid	3010A	792364
LB 500-792364/1-B	Method Blank	TCLP	Solid	3010A	792364
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 793149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-11	SB77 (0-3)	TCLP	Solid	6010D	792710

Metals (Continued)

Analysis Batch: 793149 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-792364/1-B	Method Blank	TCLP	Solid	6010D	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6010D	792710

Leach Batch: 797618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	TCLP	Solid	1311	
LB 500-797618/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 797836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	TCLP	Solid	3010A	797618
LB 500-797618/1-B	Method Blank	TCLP	Solid	3010A	797618
LCS 500-797836/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 798077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	TCLP	Solid	6010D	797836
LB 500-797618/1-B	Method Blank	TCLP	Solid	6010D	797836
LCS 500-797836/2-A	Lab Control Sample	Total/NA	Solid	6010D	797836

Leach Batch: 802650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	SPLP East	Solid	1312	
500-256508-3	SB73 (0-3)	SPLP East	Solid	1312	
500-256508-5	SB74 (0-3)	SPLP East	Solid	1312	
500-256508-6	SB74 (3-5)	SPLP East	Solid	1312	
500-256508-15	SB79 (0-3)	SPLP East	Solid	1312	
500-256508-16	SB79 (5-7.5)	SPLP East	Solid	1312	
LB 500-802650/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 802660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-15	SB79 (0-3)	TCLP	Solid	1311	
LB 500-802660/1-B	Method Blank	TCLP	Solid	1311	
500-256508-15 MS	SB79 (0-3)	TCLP	Solid	1311	
500-256508-15 DU	SB79 (0-3)	TCLP	Solid	1311	

Leach Batch: 802847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-11	SB77 (0-3)	TCLP	Solid	1311	
LB 500-802847/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 802852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	SPLP East	Solid	3010A	802650
500-256508-3	SB73 (0-3)	SPLP East	Solid	3010A	802650
500-256508-5	SB74 (0-3)	SPLP East	Solid	3010A	802650
500-256508-6	SB74 (3-5)	SPLP East	Solid	3010A	802650
500-256508-15	SB79 (0-3)	SPLP East	Solid	3010A	802650
500-256508-16	SB79 (5-7.5)	SPLP East	Solid	3010A	802650
LB 500-802650/1-B	Method Blank	SPLP East	Solid	3010A	802650

Metals (Continued)

Prep Batch: 802852 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-802852/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 802853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-15	SB79 (0-3)	TCLP	Solid	3010A	802660
LB 500-802660/1-B	Method Blank	TCLP	Solid	3010A	802660
LCS 500-802853/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256508-15 MS	SB79 (0-3)	TCLP	Solid	3010A	802660
500-256508-15 DU	SB79 (0-3)	TCLP	Solid	3010A	802660

Prep Batch: 803011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-11	SB77 (0-3)	TCLP	Solid	3010A	802847
LB 500-802847/1-B	Method Blank	TCLP	Solid	3010A	802847
LCS 500-803011/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 803026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-15	SB79 (0-3)	TCLP	Solid	6010D	802853
LB 500-802660/1-B	Method Blank	TCLP	Solid	6010D	802853
LCS 500-802853/2-A	Lab Control Sample	Total/NA	Solid	6010D	802853
500-256508-15 MS	SB79 (0-3)	TCLP	Solid	6010D	802853
500-256508-15 DU	SB79 (0-3)	TCLP	Solid	6010D	802853

Analysis Batch: 803029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-1	SB72 (0-3)	SPLP East	Solid	6010D	802852
500-256508-3	SB73 (0-3)	SPLP East	Solid	6010D	802852
500-256508-5	SB74 (0-3)	SPLP East	Solid	6010D	802852
500-256508-6	SB74 (3-5)	SPLP East	Solid	6010D	802852
500-256508-15	SB79 (0-3)	SPLP East	Solid	6010D	802852
500-256508-16	SB79 (5-7.5)	SPLP East	Solid	6010D	802852
LB 500-802650/1-B	Method Blank	SPLP East	Solid	6010D	802852
LCS 500-802852/2-A	Lab Control Sample	Total/NA	Solid	6010D	802852

Analysis Batch: 803088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-15	SB79 (0-3)	TCLP	Solid	6010D	802853
LB 500-802660/1-B	Method Blank	TCLP	Solid	6010D	802853
LCS 500-802853/2-A	Lab Control Sample	Total/NA	Solid	6010D	802853
500-256508-15 MS	SB79 (0-3)	TCLP	Solid	6010D	802853
500-256508-15 DU	SB79 (0-3)	TCLP	Solid	6010D	802853

Analysis Batch: 803093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-5	SB74 (0-3)	SPLP East	Solid	6020B	802852
500-256508-6	SB74 (3-5)	SPLP East	Solid	6020B	802852
500-256508-16	SB79 (5-7.5)	SPLP East	Solid	6020B	802852
LB 500-802650/1-B	Method Blank	SPLP East	Solid	6020B	802852
LCS 500-802852/2-A	Lab Control Sample	Total/NA	Solid	6020B	802852

Metals

Analysis Batch: 803207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-11	SB77 (0-3)	TCLP	Solid	6020B	803011
500-256508-15	SB79 (0-3)	TCLP	Solid	6020B	802853
LB 500-802660/1-B	Method Blank	TCLP	Solid	6020B	802853
LB 500-802847/1-B	Method Blank	TCLP	Solid	6020B	803011
LCS 500-802853/2-A	Lab Control Sample	Total/NA	Solid	6020B	802853
LCS 500-803011/2-A	Lab Control Sample	Total/NA	Solid	6020B	803011
500-256508-15 MS	SB79 (0-3)	TCLP	Solid	6020B	802853
500-256508-15 DU	SB79 (0-3)	TCLP	Solid	6020B	802853

Leach Batch: 803947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-15	SB79 (0-3)	SPLP East	Solid	1312	
LB 500-803947/1-D	Method Blank	SPLP East	Solid	1312	

Prep Batch: 804147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-15	SB79 (0-3)	SPLP East	Solid	3010A	803947
LB 500-803947/1-D	Method Blank	SPLP East	Solid	3010A	803947
LCS 500-804147/13-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 804385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-15	SB79 (0-3)	SPLP East	Solid	6020B	804147
LB 500-803947/1-D	Method Blank	SPLP East	Solid	6020B	804147
LCS 500-804147/13-A	Lab Control Sample	Total/NA	Solid	6020B	804147

Leach Batch: 804706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-11	SB77 (0-3)	SPLP East	Solid	1312	
LB 500-804706/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 804934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-11	SB77 (0-3)	SPLP East	Solid	3010A	804706
LB 500-804706/1-B	Method Blank	SPLP East	Solid	3010A	804706
LCS 500-804934/18-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 805187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-11	SB77 (0-3)	SPLP East	Solid	6020B	804934
LB 500-804706/1-B	Method Blank	SPLP East	Solid	6020B	804934
LCS 500-804934/18-A	Lab Control Sample	Total/NA	Solid	6020B	804934

Leach Batch: 808090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-6	SB74 (3-5)	TCLP	Solid	1311	
500-256508-7	SB75 (0-3)	TCLP	Solid	1311	
500-256508-8	SB75 (5-7.5)	TCLP	Solid	1311	
500-256508-12	SB77 (5-7.5)	TCLP	Solid	1311	
LB 500-808090/1-B	Method Blank	TCLP	Solid	1311	
500-256508-6 MS	SB74 (3-5)	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 808090 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-6 DU	SB74 (3-5)	TCLP	Solid	1311	

Prep Batch: 808296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-6	SB74 (3-5)	TCLP	Solid	3010A	808090
500-256508-7	SB75 (0-3)	TCLP	Solid	3010A	808090
500-256508-8	SB75 (5-7.5)	TCLP	Solid	3010A	808090
500-256508-12	SB77 (5-7.5)	TCLP	Solid	3010A	808090
LB 500-808090/1-B	Method Blank	TCLP	Solid	3010A	808090
LCS 500-808296/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256508-6 MS	SB74 (3-5)	TCLP	Solid	3010A	808090
500-256508-6 DU	SB74 (3-5)	TCLP	Solid	3010A	808090

Analysis Batch: 808845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-6	SB74 (3-5)	TCLP	Solid	6010D	808296
500-256508-7	SB75 (0-3)	TCLP	Solid	6010D	808296
500-256508-12	SB77 (5-7.5)	TCLP	Solid	6010D	808296
LB 500-808090/1-B	Method Blank	TCLP	Solid	6010D	808296
LCS 500-808296/2-A	Lab Control Sample	Total/NA	Solid	6010D	808296
500-256508-6 MS	SB74 (3-5)	TCLP	Solid	6010D	808296
500-256508-6 DU	SB74 (3-5)	TCLP	Solid	6010D	808296

Analysis Batch: 809012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-7	SB75 (0-3)	TCLP	Solid	6010D	808296
500-256508-8	SB75 (5-7.5)	TCLP	Solid	6010D	808296
500-256508-12	SB77 (5-7.5)	TCLP	Solid	6010D	808296
LB 500-808090/1-B	Method Blank	TCLP	Solid	6010D	808296
LCS 500-808296/2-A	Lab Control Sample	Total/NA	Solid	6010D	808296
500-256508-6 MS	SB74 (3-5)	TCLP	Solid	6010D	808296
500-256508-6 DU	SB74 (3-5)	TCLP	Solid	6010D	808296

Analysis Batch: 809240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-7	SB75 (0-3)	TCLP	Solid	6020B	808296
500-256508-12	SB77 (5-7.5)	TCLP	Solid	6020B	808296
LB 500-808090/1-B	Method Blank	TCLP	Solid	6020B	808296
LCS 500-808296/2-A	Lab Control Sample	Total/NA	Solid	6020B	808296

Leach Batch: 812104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-12	SB77 (5-7.5)	SPLP East	Solid	1312	
LB 500-812104/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 812419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-12	SB77 (5-7.5)	SPLP East	Solid	3010A	812104
LB 500-812104/1-B	Method Blank	SPLP East	Solid	3010A	812104
LCS 500-812419/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals

Analysis Batch: 812676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256508-12	SB77 (5-7.5)	SPLP East	Solid	6020B	812419
LB 500-812104/1-B	Method Blank	SPLP East	Solid	6020B	812419
LCS 500-812419/2-A	Lab Control Sample	Total/NA	Solid	6020B	812419

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50		mg/L		10/14/24 14:00	10/15/24 19:04	1
Beryllium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Manganese	<0.015		0.015		mg/L		10/14/24 14:00	10/15/24 19:04	1
Cadmium	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Silver	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Copper	<1.0		1.0		mg/L		10/14/24 14:00	10/15/24 19:04	1
Zinc	<1.0		1.0		mg/L		10/14/24 14:00	10/15/24 19:04	1
Iron	<0.20		0.20		mg/L		10/14/24 14:00	10/15/24 19:04	1
Lead	<0.0075		0.0075		mg/L		10/14/24 14:00	10/15/24 19:04	1
Selenium	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 19:04	1

Lab Sample ID: LCS 240-630682/3-A
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	2.00	1.98		mg/L		99	50 - 150
Beryllium	1.00	0.961		mg/L		96	50 - 150
Manganese	1.00	0.934		mg/L		93	50 - 150
Cadmium	1.00	0.973		mg/L		97	50 - 150
Silver	0.100	0.0995		mg/L		100	50 - 150
Copper	1.00	0.938	J	mg/L		94	50 - 150
Zinc	1.00	1.13		mg/L		113	50 - 150
Iron	10.0	9.11		mg/L		91	50 - 150
Lead	1.00	0.914		mg/L		91	50 - 150
Selenium	2.00	2.08		mg/L		104	50 - 150

Lab Sample ID: MB 240-632464/2-A
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.015		0.015		mg/L		10/25/24 14:00	10/29/24 06:18	1

Lab Sample ID: LCS 240-632464/3-A
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1.00	0.923		mg/L		92	50 - 150

Lab Sample ID: MB 240-633805/2-A
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		11/04/24 14:00	11/06/24 05:51	1
Cadmium	<0.050		0.050		mg/L		11/04/24 14:00	11/06/24 05:51	1
Copper	<1.0		1.0		mg/L		11/04/24 14:00	11/06/24 05:51	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 240-633805/2-A
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.050		0.050		mg/L		11/04/24 14:00	11/06/24 05:51	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 05:51	1

Lab Sample ID: LCS 240-633805/3-A
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	1.00	0.999		mg/L		100	50 - 150
Cadmium	1.00	0.991		mg/L		99	50 - 150
Copper	1.00	0.987	J	mg/L		99	50 - 150
Lead	1.00	0.945		mg/L		95	50 - 150
Manganese	1.00	0.995		mg/L		99	50 - 150

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0509		mg/L		102	80 - 120
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Chromium	0.200	0.203		mg/L		101	80 - 120
Copper	0.250	0.251		mg/L		100	80 - 120
Iron	1.00	0.873		mg/L		87	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Nickel	0.500	0.496		mg/L		99	80 - 120
Selenium	0.100	0.0906		mg/L		91	80 - 120
Silver	0.0500	0.0499		mg/L		100	80 - 120
Zinc	0.500	0.512		mg/L		102	80 - 120

Lab Sample ID: LCS 500-797836/2-A
Matrix: Solid
Analysis Batch: 798077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 797836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.250	0.251		mg/L		101	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LCS 500-802852/2-A
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Silver	0.0500	0.0498		mg/L		100	80 - 120
Iron	1.00	0.932		mg/L		93	80 - 120
Manganese	0.500	0.519		mg/L		104	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-802853/2-A
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0496		mg/L		99	80 - 120
Cadmium	0.0500	0.0498		mg/L		100	80 - 120
Copper	0.250	0.242		mg/L		97	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0496		mg/L		99	80 - 120
Zinc	0.500	0.593		mg/L		119	80 - 120
Iron	1.00	0.990		mg/L		99	80 - 120

Lab Sample ID: LCS 500-802853/2-A
Matrix: Solid
Analysis Batch: 803088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.282	*+	mg/L		141	80 - 120

Lab Sample ID: LCS 500-808296/2-A
Matrix: Solid
Analysis Batch: 808845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 808296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0494		mg/L		99	80 - 120
Cadmium	0.0500	0.0502		mg/L		100	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Copper	0.250	0.242		mg/L		97	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Nickel	0.500	0.522		mg/L		104	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0491		mg/L		98	80 - 120
Zinc	0.500	0.596		mg/L		119	80 - 120

Lab Sample ID: LCS 500-808296/2-A
Matrix: Solid
Analysis Batch: 809012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 808296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50		mg/L		10/14/24 14:00	10/15/24 19:00	1
Beryllium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:00	1
Manganese	<0.015		0.015		mg/L		10/14/24 14:00	10/15/24 19:00	1
Cadmium	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 19:00	1
Silver	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 19:00	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630918

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<1.0		1.0		mg/L		10/14/24 14:00	10/15/24 19:00	1
Zinc	<1.0		1.0		mg/L		10/14/24 14:00	10/15/24 19:00	1
Iron	<0.20		0.20		mg/L		10/14/24 14:00	10/15/24 19:00	1
Lead	<0.0075		0.0075		mg/L		10/14/24 14:00	10/15/24 19:00	1
Selenium	<0.050		0.050		mg/L		10/14/24 14:00	10/15/24 19:00	1

Lab Sample ID: LB 500-792364/1-B
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 12:53	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 12:53	1
Chromium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Copper	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Iron	<0.20		0.20		mg/L		10/29/24 14:15	10/30/24 12:53	1
Lead	<0.0075		0.0075		mg/L		10/29/24 14:15	10/30/24 12:53	1
Nickel	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 12:53	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Zinc	<0.10		0.10		mg/L		10/29/24 14:15	10/30/24 12:53	1

Lab Sample ID: LB 500-797618/1-B
Matrix: Solid
Analysis Batch: 798077

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 797836

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:40	1
Iron	<0.20		0.20		mg/L		12/03/24 14:57	12/04/24 13:40	1

Lab Sample ID: LB 500-802660/1-B
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:24	01/15/25 11:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:24	01/15/25 11:28	1
Copper	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:24	01/15/25 11:28	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:28	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:24	01/15/25 11:28	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:28	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:24	01/15/25 11:28	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:24	01/15/25 11:28	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802660/1-B
Matrix: Solid
Analysis Batch: 803088

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 18:08	1

Lab Sample ID: 500-256508-15 MS
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: SB79 (0-3)
Prep Type: TCLP
Prep Batch: 802853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0506		mg/L		101	75 - 125
Cadmium	<0.0020		0.0500	0.0508		mg/L		102	75 - 125
Copper	0.025		0.250	0.262		mg/L		95	75 - 125
Nickel	0.020	J	0.500	0.541		mg/L		104	75 - 125
Selenium	<0.020		0.100	0.112		mg/L		112	75 - 125
Silver	0.042		0.0500	0.0907		mg/L		98	75 - 125
Zinc	<0.020		0.500	0.571		mg/L		114	75 - 125
Iron	<0.20		1.00	0.886		mg/L		89	75 - 125

Lab Sample ID: 500-256508-15 MS
Matrix: Solid
Analysis Batch: 803088

Client Sample ID: SB79 (0-3)
Prep Type: TCLP
Prep Batch: 802853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	<0.050	*+	0.200	0.245		mg/L		123	75 - 125
Lead	<0.038		0.100	0.101		mg/L		101	75 - 125

Lab Sample ID: 500-256508-15 DU
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: SB79 (0-3)
Prep Type: TCLP
Prep Batch: 802853

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Copper	0.025		0.0240	J	mg/L		2	20
Nickel	0.020	J	0.0204	J	mg/L		1	20
Selenium	<0.020		<0.020		mg/L		NC	20
Silver	0.042		0.0413		mg/L		1	20
Zinc	<0.020		<0.020		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20

Lab Sample ID: 500-256508-15 DU
Matrix: Solid
Analysis Batch: 803088

Client Sample ID: SB79 (0-3)
Prep Type: TCLP
Prep Batch: 802853

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium	<0.050	*+	<0.050	*+	mg/L		NC	20
Lead	<0.038		<0.038		mg/L		NC	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-808090/1-B
Matrix: Solid
Analysis Batch: 808845

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 808296

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/25 08:20	03/06/25 02:02	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/03/25 08:20	03/06/25 02:02	1
Chromium	<0.010		0.025	0.010	mg/L		03/03/25 08:20	03/06/25 02:02	1
Copper	<0.010		0.025	0.010	mg/L		03/03/25 08:20	03/06/25 02:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/03/25 08:20	03/06/25 02:02	1
Nickel	<0.010		0.025	0.010	mg/L		03/03/25 08:20	03/06/25 02:02	1
Selenium	<0.020		0.050	0.020	mg/L		03/03/25 08:20	03/06/25 02:02	1
Silver	<0.010		0.025	0.010	mg/L		03/03/25 08:20	03/06/25 02:02	1
Zinc	<0.020		0.10	0.020	mg/L		03/03/25 08:20	03/06/25 02:02	1

Lab Sample ID: LB 500-808090/1-B
Matrix: Solid
Analysis Batch: 809012

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 808296

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		03/03/25 08:20	03/06/25 13:13	1

Lab Sample ID: 500-256508-6 MS
Matrix: Solid
Analysis Batch: 808845

Client Sample ID: SB74 (3-5)
Prep Type: TCLP
Prep Batch: 808296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0526		mg/L		105	75 - 125
Cadmium	<0.0020		0.0500	0.0540		mg/L		108	75 - 125
Chromium	<0.010		0.200	0.198		mg/L		99	75 - 125
Copper	<0.010		0.250	0.252		mg/L		101	75 - 125
Lead	<0.0075		0.100	0.105		mg/L		105	75 - 125
Nickel	0.021	J	0.500	0.552		mg/L		106	75 - 125
Selenium	<0.020		0.100	0.111		mg/L		111	75 - 125
Zinc	0.12		0.500	0.712		mg/L		118	75 - 125

Lab Sample ID: 500-256508-6 MS
Matrix: Solid
Analysis Batch: 809012

Client Sample ID: SB74 (3-5)
Prep Type: TCLP
Prep Batch: 808296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	<0.20		1.00	0.992		mg/L		99	75 - 125
Silver	<0.010	F1	0.0500	0.0641	F1	mg/L		128	75 - 125

Lab Sample ID: 500-256508-6 DU
Matrix: Solid
Analysis Batch: 808845

Client Sample ID: SB74 (3-5)
Prep Type: TCLP
Prep Batch: 808296

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Chromium	<0.010		<0.010		mg/L		NC	20
Copper	<0.010		<0.010		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256508-6 DU
Matrix: Solid
Analysis Batch: 808845

Client Sample ID: SB74 (3-5)
Prep Type: TCLP
Prep Batch: 808296

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nickel	0.021	J	0.0203	J	mg/L		5	20
Selenium	<0.020		<0.020		mg/L		NC	20
Zinc	0.12		0.114		mg/L		5	20

Lab Sample ID: 500-256508-6 DU
Matrix: Solid
Analysis Batch: 809012

Client Sample ID: SB74 (3-5)
Prep Type: TCLP
Prep Batch: 808296

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	<0.20		<0.20		mg/L		NC	20
Silver	<0.010	F1	<0.010		mg/L		NC	20

Lab Sample ID: LB 240-632368/1-B
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 632464

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.015		0.015		mg/L		10/25/24 14:00	10/29/24 06:13	1

Lab Sample ID: LB 240-633697/1-B
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 633805

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		11/04/24 14:00	11/06/24 05:46	1
Cadmium	<0.050		0.050		mg/L		11/04/24 14:00	11/06/24 05:46	1
Copper	<1.0		1.0		mg/L		11/04/24 14:00	11/06/24 05:46	1
Lead	<0.050		0.050		mg/L		11/04/24 14:00	11/06/24 05:46	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 05:46	1

Lab Sample ID: LB 500-802650/1-B
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802852

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:23	01/15/25 12:10	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:23	01/15/25 12:10	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:10	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:23	01/15/25 12:10	1
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:10	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-630682/2-A
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Iron	<0.10		0.10		mg/L		10/14/24 14:00	10/15/24 19:04	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Manganese	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Nickel	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:04	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:04	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Vanadium	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 19:04	1
Zinc	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 19:04	1

Lab Sample ID: LCS 240-630682/4-A
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.101		mg/L		101	80 - 120
Arsenic	1.00	0.944		mg/L		94	80 - 120
Barium	1.00	0.955		mg/L		96	80 - 120
Beryllium	0.500	0.508		mg/L		102	80 - 120
Cadmium	0.500	0.470		mg/L		94	80 - 120
Chromium	0.500	0.478		mg/L		96	80 - 120
Copper	0.500	0.502		mg/L		100	80 - 120
Iron	5.00	4.75		mg/L		95	80 - 120
Lead	0.500	0.450		mg/L		90	80 - 120
Manganese	0.500	0.498		mg/L		100	80 - 120
Nickel	0.500	0.509		mg/L		102	80 - 120
Selenium	1.00	0.913		mg/L		91	80 - 120
Silver	0.100	0.0973		mg/L		97	80 - 120
Thallium	1.00	1.03		mg/L		103	80 - 120
Vanadium	0.500	0.488		mg/L		98	80 - 120
Zinc	0.500	0.448		mg/L		90	80 - 120

Lab Sample ID: MB 240-632464/2-A
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/25/24 14:00	10/28/24 16:19	1
Manganese	<0.0050		0.0050		mg/L		10/25/24 14:00	10/28/24 16:19	1
Vanadium	<0.020		0.020		mg/L		10/25/24 14:00	10/28/24 16:19	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-632464/4-A
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.0962		mg/L		96	80 - 120
Manganese	0.500	0.466		mg/L		93	80 - 120
Vanadium	0.500	0.482		mg/L		96	80 - 120

Lab Sample ID: MB 240-640243/2-A
Matrix: Solid
Analysis Batch: 640493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00057		0.0020	0.00057	mg/L		12/30/24 14:00	12/31/24 19:38	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/30/24 14:00	12/31/24 19:38	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/30/24 14:00	12/31/24 19:38	1
Manganese	<0.0035		0.0050	0.0035	mg/L		12/30/24 14:00	12/31/24 19:38	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/30/24 14:00	12/31/24 19:38	1
Iron	<0.047		0.10	0.047	mg/L		12/30/24 14:00	12/31/24 19:38	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/30/24 14:00	12/31/24 19:38	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/30/24 14:00	12/31/24 19:38	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/30/24 14:00	12/31/24 19:38	1

Lab Sample ID: LCS 240-640243/4-A
Matrix: Solid
Analysis Batch: 640493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.0968		mg/L		97	80 - 120
Cadmium	0.500	0.469		mg/L		94	80 - 120
Lead	0.500	0.529		mg/L		106	80 - 120
Manganese	0.500	0.494		mg/L		99	80 - 120
Copper	0.500	0.499		mg/L		100	80 - 120
Iron	5.00	5.09		mg/L		102	80 - 120
Selenium	1.00	0.926		mg/L		93	80 - 120
Silver	0.100	0.0984		mg/L		98	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120

Lab Sample ID: MB 240-640405/2-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00057		0.0020	0.00057	mg/L		12/31/24 14:00	01/02/25 14:51	1
Arsenic	<0.00075		0.0050	0.00075	mg/L		12/31/24 14:00	01/02/25 14:51	1
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 14:51	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 14:51	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:51	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:51	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:51	1
Nickel	<0.0015		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 14:51	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:51	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:51	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-640405/2-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:51	1
Vanadium	<0.00082		0.020	0.00082	mg/L		12/31/24 14:00	01/02/25 14:51	1

Lab Sample ID: LCS 240-640405/4-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.101		mg/L		101	80 - 120
Arsenic	1.00	1.04		mg/L		104	80 - 120
Beryllium	0.500	0.490		mg/L		98	80 - 120
Cadmium	0.500	0.457		mg/L		91	80 - 120
Chromium	0.500	0.484		mg/L		97	80 - 120
Copper	0.500	0.522		mg/L		104	80 - 120
Iron	5.00	4.99		mg/L		100	80 - 120
Nickel	0.500	0.495		mg/L		99	80 - 120
Selenium	1.00	0.956		mg/L		96	80 - 120
Silver	0.100	0.0984		mg/L		98	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120
Vanadium	0.500	0.492		mg/L		98	80 - 120

Lab Sample ID: MB 240-642457/2-A
Matrix: Solid
Analysis Batch: 642678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0035		0.0050	0.0035	mg/L		01/24/25 14:00	01/27/25 14:54	1
Nickel	<0.0015		0.0020	0.0015	mg/L		01/24/25 14:00	01/27/25 14:54	1

Lab Sample ID: LCS 240-642457/3-A
Matrix: Solid
Analysis Batch: 642678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642457

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.505		mg/L		101	80 - 120
Nickel	0.500	0.498		mg/L		100	80 - 120

Lab Sample ID: MB 240-646244/2-A
Matrix: Solid
Analysis Batch: 646448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00057		0.0020	0.00057	mg/L		02/27/25 14:00	02/28/25 14:45	1
Silver	<0.000053		0.0010	0.000053	mg/L		02/27/25 14:00	02/28/25 14:45	1
Selenium	<0.00089		0.0050	0.00089	mg/L		02/27/25 14:00	02/28/25 14:45	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-646244/4-A
Matrix: Solid
Analysis Batch: 646448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.0949		mg/L		95	80 - 120
Silver	0.100	0.0889		mg/L		89	80 - 120
Selenium	1.00	0.918		mg/L		92	80 - 120

Lab Sample ID: LCS 500-802852/2-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.518		mg/L		104	80 - 120
Thallium	0.100	0.109		mg/L		109	80 - 120

Lab Sample ID: LCS 500-802853/2-A
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.525		mg/L		105	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: LCS 500-803011/2-A
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.570		mg/L		114	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LCS 500-804147/13-A
Matrix: Solid
Analysis Batch: 804385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 804147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.517		mg/L		103	80 - 120
Iron	1.00	1.13		mg/L		113	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-804934/18-A
Matrix: Solid
Analysis Batch: 805187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 804934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.05		mg/L		105	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-808296/2-A
Matrix: Solid
Analysis Batch: 809240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 808296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.547		mg/L		109	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: LCS 500-812419/2-A
Matrix: Solid
Analysis Batch: 812676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 812419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.507		mg/L		101	80 - 120

Lab Sample ID: LB 240-630581/1-B
Matrix: Solid
Analysis Batch: 630986

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630682

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Arsenic	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Barium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Beryllium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Cadmium	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Chromium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Copper	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Iron	<0.10		0.10		mg/L		10/14/24 14:00	10/15/24 19:01	1
Lead	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Manganese	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Nickel	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Selenium	<0.0050		0.0050		mg/L		10/14/24 14:00	10/15/24 19:01	1
Silver	<0.0010		0.0010		mg/L		10/14/24 14:00	10/15/24 19:01	1
Thallium	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Vanadium	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 19:01	1
Zinc	<0.020		0.020		mg/L		10/14/24 14:00	10/15/24 19:01	1

Lab Sample ID: LB 240-640346/1-B
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 640405

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00057		0.0020	0.00057	mg/L		12/31/24 14:00	01/02/25 14:43	1
Arsenic	<0.00075		0.0050	0.00075	mg/L		12/31/24 14:00	01/02/25 14:43	1
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 14:43	1
Cadmium	0.000168	J	0.0010	0.000077	mg/L		12/31/24 14:00	01/02/25 14:43	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:43	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:43	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:43	1
Nickel	<0.0015		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 14:43	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:43	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:43	1
Thallium	0.000670	J	0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:43	1
Vanadium	<0.00082		0.020	0.00082	mg/L		12/31/24 14:00	01/02/25 14:43	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 240-646192/1-B
Matrix: Solid
Analysis Batch: 646448

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 646244

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00057		0.0020	0.00057	mg/L		02/27/25 14:00	02/28/25 14:42	1
Silver	<0.000053		0.0010	0.000053	mg/L		02/27/25 14:00	02/28/25 14:42	1
Selenium	<0.00089		0.0050	0.00089	mg/L		02/27/25 14:00	02/28/25 14:42	1

Lab Sample ID: 500-256508-10 MS
Matrix: Solid
Analysis Batch: 646448

Client Sample ID: SB76 (7.5-10)
Prep Type: TCLP
Prep Batch: 646244

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0040		0.100	0.105		mg/L		101	50 - 150
Silver	<0.000053		0.100	0.0917		mg/L		92	50 - 150
Selenium	0.0095		1.00	0.948		mg/L		94	50 - 150

Lab Sample ID: 500-256508-10 MSD
Matrix: Solid
Analysis Batch: 646448

Client Sample ID: SB76 (7.5-10)
Prep Type: TCLP
Prep Batch: 646244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0040		0.100	0.0979		mg/L		94	50 - 150	7	20
Silver	<0.000053		0.100	0.0884		mg/L		88	50 - 150	4	20
Selenium	0.0095		1.00	0.954		mg/L		94	50 - 150	1	20

Lab Sample ID: LB 500-802660/1-B
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/14/25 14:24	01/16/25 13:25	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:24	01/16/25 13:25	1

Lab Sample ID: 500-256508-15 MS
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: SB79 (0-3)
Prep Type: TCLP
Prep Batch: 802853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0091		0.500	0.541		mg/L		106	75 - 125
Thallium	<0.00057		0.100	0.109		mg/L		109	75 - 125

Lab Sample ID: 500-256508-15 DU
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: SB79 (0-3)
Prep Type: TCLP
Prep Batch: 802853

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.0091		0.00752		mg/L		19	20
Thallium	<0.00057		<0.00057		mg/L		NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-802847/1-B
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 803011

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/15/25 14:11	01/16/25 16:11	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:11	01/16/25 16:11	1

Lab Sample ID: LB 500-808090/1-B
Matrix: Solid
Analysis Batch: 809240

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 808296

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		03/03/25 08:20	03/07/25 15:49	1
Thallium	<0.00057		0.0020	0.00057	mg/L		03/03/25 08:20	03/07/25 15:49	1

Lab Sample ID: LB 240-632368/1-B
Matrix: Solid
Analysis Batch: 632808

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 632464

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/25/24 14:00	10/28/24 16:16	1
Manganese	<0.0050		0.0050		mg/L		10/25/24 14:00	10/28/24 16:16	1
Vanadium	<0.020		0.020		mg/L		10/25/24 14:00	10/28/24 16:16	1

Lab Sample ID: LB 240-640187/1-B
Matrix: Solid
Analysis Batch: 640493

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 640243

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00057		0.0020	0.00057	mg/L		12/30/24 14:00	12/31/24 19:35	1
Cadmium	<0.000077		0.0010	0.000077	mg/L		12/30/24 14:00	12/31/24 19:35	1
Lead	<0.00045		0.0010	0.00045	mg/L		12/30/24 14:00	12/31/24 19:35	1
Manganese	<0.0035		0.0050	0.0035	mg/L		12/30/24 14:00	12/31/24 19:35	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/30/24 14:00	12/31/24 19:35	1
Iron	<0.047		0.10	0.047	mg/L		12/30/24 14:00	12/31/24 19:35	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/30/24 14:00	12/31/24 19:35	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/30/24 14:00	12/31/24 19:35	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/30/24 14:00	12/31/24 19:35	1

Lab Sample ID: LB 240-642422/1-B
Matrix: Solid
Analysis Batch: 642678

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 642457

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0035		0.0050	0.0035	mg/L		01/24/25 14:00	01/27/25 14:51	1
Nickel	<0.0015		0.0020	0.0015	mg/L		01/24/25 14:00	01/27/25 14:51	1

Lab Sample ID: LB 500-802650/1-B
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802852

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/14/25 14:23	01/15/25 17:40	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:23	01/15/25 17:40	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256508-8

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LB 500-803947/1-D
Matrix: Solid
Analysis Batch: 804385

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 804147

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/24/25 14:31	01/27/25 19:30	1
Iron	0.0644	J	0.10	0.047	mg/L		01/24/25 14:31	01/27/25 19:30	1
Lead	<0.00019		0.00050	0.00019	mg/L		01/24/25 14:31	01/27/25 19:30	1

Lab Sample ID: LB 500-804706/1-B
Matrix: Solid
Analysis Batch: 805187

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 804934

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.047		0.10	0.047	mg/L		01/31/25 15:01	02/03/25 17:15	1
Lead	<0.00019		0.00050	0.00019	mg/L		01/31/25 15:01	02/03/25 17:15	1

Lab Sample ID: LB 500-812104/1-B
Matrix: Solid
Analysis Batch: 812676

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 812419

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.000834	J	0.0025	0.00079	mg/L		04/03/25 15:12	04/04/25 14:19	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 240-630688/1-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630688

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 11:15	1

Lab Sample ID: MB 240-630688/2-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/14/24 14:00	10/15/24 11:17	1

Lab Sample ID: LCS 240-630688/3-A
Matrix: Solid
Analysis Batch: 630895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630688

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00500	0.00482		mg/L		96	80 - 120		

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB72 (0-3)
Lab Sample ID: 500-256508-1
Date Collected: 09/10/24 09:09
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 13:11
TCLP	Leach	1311			797618	RJ	EET CHI	12/02/24 15:12 - 12/03/24 09:12 [1]
TCLP	Prep	3010A			797836	S1Z	EET CHI	12/03/24 14:57 - 12/03/24 20:57 [1]
TCLP	Analysis	6010D		1	798077	SJ	EET CHI	12/04/24 14:03

Client Sample ID: SB73 (0-3)
Lab Sample ID: 500-256508-3
Date Collected: 09/10/24 10:10
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 13:16

Client Sample ID: SB74 (0-3)
Lab Sample ID: 500-256508-5
Date Collected: 09/10/24 11:17
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 13:20
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 18:22

Client Sample ID: SB74 (3-5)
Lab Sample ID: 500-256508-6
Date Collected: 09/10/24 11:24
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 13:33
TCLP	Leach	1311			808090	PA	EET CHI	02/28/25 13:46 - 03/01/25 07:46 [1]
TCLP	Prep	3010A			808296	BDE	EET CHI	03/03/25 08:20 - 03/03/25 14:20 [1]
TCLP	Analysis	6010D		1	808845	RB	EET CHI	03/06/25 02:11
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 18:26

Client Sample ID: SB75 (0-3)
Lab Sample ID: 500-256508-7

Date Collected: 09/10/24 08:59
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			808090	PA	EET CHI	02/28/25 13:46 - 03/01/25 07:46 [1]
TCLP	Prep	3010A			808296	BDE	EET CHI	03/03/25 08:20 - 03/03/25 14:20 [1]
TCLP	Analysis	6010D		1	808845	RB	EET CHI	03/06/25 02:38
TCLP	Leach	1311			808090	PA	EET CHI	02/28/25 13:46 - 03/01/25 07:46 [1]
TCLP	Prep	3010A			808296	BDE	EET CHI	03/03/25 08:20 - 03/03/25 14:20 [1]
TCLP	Analysis	6010D		1	809012	RB	EET CHI	03/06/25 20:10
TCLP	Leach	1311			808090	PA	EET CHI	02/28/25 13:46 - 03/01/25 07:46 [1]
TCLP	Prep	3010A			808296	BDE	EET CHI	03/03/25 08:20 - 03/03/25 14:20 [1]
TCLP	Analysis	6020B		1	809240	RN	EET CHI	03/07/25 15:54

Client Sample ID: SB75 (5-7.5)
Lab Sample ID: 500-256508-8

Date Collected: 09/10/24 09:14
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			808090	PA	EET CHI	02/28/25 13:46 - 03/01/25 07:46 [1]
TCLP	Prep	3010A			808296	BDE	EET CHI	03/03/25 08:20 - 03/03/25 14:20 [1]
TCLP	Analysis	6010D		1	809012	RB	EET CHI	03/06/25 20:14

Client Sample ID: SB76 (0-3)
Lab Sample ID: 500-256508-9

Date Collected: 09/10/24 10:00
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			632368	DRJ	EET CLE	10/24/24 17:15 - 10/25/24 09:25 [1]
SPLP East	Prep	3010A			632464	BN	EET CLE	10/25/24 14:00
SPLP East	Analysis	6020B		1	632808	AJC	EET CLE	10/28/24 16:48
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6020B		1	630986	AJC	EET CLE	10/15/24 19:41
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	7470A			630688	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	7470A		1	630895	TQ6W	EET CLE	10/15/24 11:36

Client Sample ID: SB76 (7.5-10)
Lab Sample ID: 500-256508-10

Date Collected: 09/10/24 10:13
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			633697	DRJ	EET CLE	11/03/24 15:50 - 11/04/24 08:20 [1]
SPLP East	Prep	3010A			633805	BN	EET CLE	11/04/24 14:00
SPLP East	Analysis	6010D		1	634193	KLC	EET CLE	11/06/24 06:35
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/15/24 20:23

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256508-8

Client Sample ID: SB76 (7.5-10)

Lab Sample ID: 500-256508-10
Matrix: Solid
Date Collected: 09/10/24 10:13
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			646192	KLE	EET CLE	02/26/25 15:15 - 02/27/25 07:55 ¹
TCLP	Prep	3010A			646244	XWS6	EET CLE	02/27/25 14:00
TCLP	Analysis	6020B		1	646448	S4FJ	EET CLE	02/28/25 14:50

Client Sample ID: SB77 (0-3)

Lab Sample ID: 500-256508-11
Matrix: Solid
Date Collected: 09/10/24 11:01
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 ¹
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 ¹
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 13:51
SPLP East	Leach	1312			804706	TJ	EET CHI	01/30/25 16:09 - 01/31/25 10:09 ¹
SPLP East	Prep	3010A			804934	S1Z	EET CHI	01/31/25 15:01 - 01/31/25 21:01 ¹
SPLP East	Analysis	6020B		1	805187	RN	EET CHI	02/03/25 17:20
TCLP	Leach	1311			802847	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 ¹
TCLP	Prep	3010A			803011	S1Z	EET CHI	01/15/25 14:11 - 01/15/25 20:11 ¹
TCLP	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 16:53

Client Sample ID: SB77 (5-7.5)

Lab Sample ID: 500-256508-12
Matrix: Solid
Date Collected: 09/10/24 11:19
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			808090	PA	EET CHI	02/28/25 13:46 - 03/01/25 07:46 ¹
TCLP	Prep	3010A			808296	BDE	EET CHI	03/03/25 08:20 - 03/03/25 14:20 ¹
TCLP	Analysis	6010D		1	808845	RB	EET CHI	03/06/25 02:47
TCLP	Leach	1311			808090	PA	EET CHI	02/28/25 13:46 - 03/01/25 07:46 ¹
TCLP	Prep	3010A			808296	BDE	EET CHI	03/03/25 08:20 - 03/03/25 14:20 ¹
TCLP	Analysis	6010D		1	809012	RB	EET CHI	03/06/25 20:19
SPLP East	Leach	1312			812104	JL	EET CHI	04/02/25 15:03 - 04/03/25 09:03 ¹
SPLP East	Prep	3010A			812419	S1Z	EET CHI	04/03/25 15:12 - 04/03/25 21:12 ¹
SPLP East	Analysis	6020B		1	812676	RN	EET CHI	04/04/25 14:34
TCLP	Leach	1311			808090	PA	EET CHI	02/28/25 13:46 - 03/01/25 07:46 ¹
TCLP	Prep	3010A			808296	BDE	EET CHI	03/03/25 08:20 - 03/03/25 14:20 ¹
TCLP	Analysis	6020B		1	809240	RN	EET CHI	03/07/25 15:57

Client Sample ID: SB78 (0-3)

Lab Sample ID: 500-256508-13
Matrix: Solid
Date Collected: 09/10/24 12:33
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 ¹
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/15/24 20:28

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256508-8

Client Sample ID: SB78 (0-3)

Date Collected: 09/10/24 12:33
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			642422	VFF2	EET CLE	01/23/25 16:00 - 01/24/25 08:05 [1]
SPLP East	Prep	3010A			642457	XWS6	EET CLE	01/24/25 14:00
SPLP East	Analysis	6020B		1	642678	S4FJ	EET CLE	01/27/25 15:13
TCLP	Leach	1311			640346	KLE	EET CLE	12/30/24 15:30 - 12/31/24 09:05 [1]
TCLP	Prep	3010A			640405	MN7X	EET CLE	12/31/24 14:00
TCLP	Analysis	6020B		1	640570	AJC	EET CLE	01/02/25 15:31

Client Sample ID: SB78 (10-12.5)

Date Collected: 09/10/24 13:09
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			632368	DRJ	EET CLE	10/24/24 17:15 - 10/25/24 09:25 [1]
SPLP East	Prep	3010A			632464	BN	EET CLE	10/25/24 14:00
SPLP East	Analysis	6010D		1	632866	RKT	EET CLE	10/29/24 07:04
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/15/24 20:32
TCLP	Leach	1311			640346	KLE	EET CLE	12/30/24 15:30 - 12/31/24 09:05 [1]
TCLP	Prep	3010A			640405	MN7X	EET CLE	12/31/24 14:00
TCLP	Analysis	6020B		1	640570	AJC	EET CLE	01/02/25 15:34

Client Sample ID: SB79 (0-3)

Date Collected: 09/10/24 13:50
Date Received: 09/11/24 11:05

Lab Sample ID: 500-256508-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 13:38
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 11:37
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6010D		5	803088	RB	EET CHI	01/15/25 18:26
SPLP East	Leach	1312			803947	JL	EET CHI	01/23/25 15:38 - 01/24/25 09:38 [1]
SPLP East	Prep	3010A			804147	S1Z	EET CHI	01/24/25 14:31 - 01/24/25 20:31 [1]
SPLP East	Analysis	6020B		1	804385	RN	EET CHI	01/27/25 19:37
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 13:32

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB79 (5-7.5)
Lab Sample ID: 500-256508-16
Date Collected: 09/10/24 14:06
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 13:42
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 18:30

Client Sample ID: SB80 (0-3)
Lab Sample ID: 500-256508-17
Date Collected: 09/10/24 15:00
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			633697	DRJ	EET CLE	11/03/24 15:50 - 11/04/24 08:20 [1]
SPLP East	Prep	3010A			633805	BN	EET CLE	11/04/24 14:00
SPLP East	Analysis	6010D		1	634193	KLC	EET CLE	11/06/24 06:40
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/15/24 20:37
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		2	632866	RKT	EET CLE	10/28/24 13:50
TCLP	Leach	1311			640346	KLE	EET CLE	12/30/24 15:30 - 12/31/24 09:05 [1]
TCLP	Prep	3010A			640405	MN7X	EET CLE	12/31/24 14:00
TCLP	Analysis	6020B		1	640570	AJC	EET CLE	01/02/25 15:37

Client Sample ID: SB80 (3-5)
Lab Sample ID: 500-256508-18
Date Collected: 09/10/24 15:08
Matrix: Solid
Date Received: 09/11/24 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			630581	DRJ	EET CLE	10/13/24 16:10 - 10/14/24 08:15 [1]
TCLP	Prep	3010A			630682	XWS6	EET CLE	10/14/24 14:00
TCLP	Analysis	6010D		1	630918	RKT	EET CLE	10/15/24 20:42
SPLP East	Leach	1312			640187	KLE	EET CLE	12/29/24 16:00 - 12/30/24 08:35 [1]
SPLP East	Prep	3010A			640243	S4FJ	EET CLE	12/30/24 14:00
SPLP East	Analysis	6020B		1	640493	AJC	EET CLE	12/31/24 20:05

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256508-8
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	02-13-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020B	3010A	Solid	Iron
6020B	3010A	Solid	Lead
6020B	3010A	Solid	Manganese

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Chain of Custody Record 720439

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☒ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jack Hartsock	Site Contact	Date	COC No
Company Name: PIONEER	Tel/Email: HARTSOCK@PIONEERES.CO	Lab Contact	Carrier	1 of 1 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	☒ TAT if different from Below _____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name: 24-0124-103	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO#: 8080 S LAKE SHOW DR	☐ 1 day			500-256508

500-256508 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL	PH	Sample Specific Notes
1	SB72 (0-3)	9/10/24	909	G	SO	4			X	X	
2	SB72 (7.5-10)		922								
3	SB73 (0-3)		1010								
4	SB73 (5-7.5)		1023								
5	SB74 (0-3)		1117								
6	SB74 (3-5)		1124								
7	SB75 (0-3)		859								
8	SB75 (5-7.5)		914								
9	SB76 (0-3)		1000								
10	SB76 (7.5-10)		1013								
11	SB77 (0-3)		1101								
12	SB77 (5-7.5)		1119								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 2.6 Corr'd 2.3 | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	9/11/24	[signature]	EETA	9/11/24 1015
[signature]	EETA 9/11/24	1105			
			Received in Laboratory by: Stephanie Hemand	EETA	9/11/24 1105

4/14/2025 (Rev. 1)

Chain of Custody Record 720433

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager.	Site Contact	Date:	COC No 2 of 2 COCs
Company Name PIONEER	Tel/Email:	Lab Contact	Carrier	
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax SA PG 1	☒ 2 weeks			Lab Sampling
Project Name	☐ 1 week			
Site	☐ 2 days			Job / SDG No
P O # 8080 S Lakeshore Dr	☐ 1 day			500-256508

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Total	Sample Specific Notes
13	SB78 (0-3)	9/10/24	1233	G	SO	4			X	
14	SB78 (10-12.5)	↓	109	↓	↓	↓			↓	
15	SB79 (0-3)		150							
16	SB79 (5-7.5)		206							
17	SB80 (0-3)		300							
18	SB80 (3-5)		308							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	9/11/24	[signature]	EETA	9/11/24 1015
[signature]	EETA 9/11/24	1105			
			Received in Laboratory by Stephanie Hernandez	EETA	9/11/24 1105

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256508-8

Login Number: 256508
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/17/2025 5:38:04 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256578-8

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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3/17/2025 5:38:04 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256578-2 — Eurofins Chicago

Job Narrative
500-256578-2

Revision
The report being provided is a revision of the original report sent on 10/17/2024. The report and EDD have been revised to include the TCLP lead result for sample SB86(0-3).

Report revision history
Revision 1 - 10/24/2024 - Reason - Add Cadmium and Zinc per client request.

Revision 2 - 11/13/2024 - Reason - The report and EDD have been revised to lower limits for TCLP cadmium to meet TACO objectives. Method calibrations support the lower limit...

Receipt
The samples were received on 9/12/2024 12:06 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2º C.

Metals
Method 6010D: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: SB86 (0-3) (500-256578-11). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256578-3 — Eurofins Chicago

Job Narrative
500-256578-3

Revision
The report being provided is a revision of the original report sent on 10/30/2024. The report (revision 2) is being revised due to: Add additional TCLP analytes per client request.

Report revision history
Revision 1 - 11/18/2024 - Reason - The report and EDD have been revised to include TCLP lead for sample SB84(0-3)..

Receipt
The samples were received on 9/12/2024 12:06 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256578-4 — Eurofins Chicago

Job Narrative
500-256578-4

Revision
The report being provided is a revision of the original report sent on 11/13/2024. The report (revision 2) is being revised due to: Add Mn to SB86 (0-3) per client request.

Report revision history
Revision 1 - 11/13/2024 - Reason - Thereport and EDD have been revised to lower limits for SPLP cadmium to meet TACO objectives. Method calibrations support the lower limit..

Receipt
The samples were received on 9/12/2024 12:06 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256578-5 — Eurofins Chicago

Job Narrative
500-256578-5

Revision
The report being provided is a revision of the original report sent on 11/21/2024. The report (revision 2) is being revised due to: Add SPLP Fe, V per client request.

Report revision history
Revision 1 - 12/12/2024 - Reason - Remove the H flag from SPLP Mn.

Receipt
The samples were received on 9/12/2024 12:06 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256578-6 — Eurofins Chicago

Job Narrative
500-256578-6

Revision
The report being provided is a revision of the original report sent on 12/3/2024. The report (revision 1) is being revised due to: Add SPLP Mn to SB84 (0-3) per client request.

Receipt
The samples were received on 9/12/2024 12:06 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256578-7 — Eurofins Chicago

Job Narrative
500-256578-7

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 1) is being revised due to: Add SPLP V to SB85 (10-12.5) per client request.

Receipt
The samples were received on 9/12/2024 12:06 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2º C.

Metals
Method 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 500-802847, the temperature dropped below this range to 17.4 degrees Celsius. This was due to extreme cold outside and our heating system not maintaining temperature overnight. As a result, the test was not compliant with the requirements of 40 CFR Part 261.

Method 1312: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 500-802813, the temperature was outside of this range. As a result, the test was not compliant with the requirements of 40 CFR Part 261.

Method 6010D: The laboratory control sample (LCS) for prep batch 802853 recovered outside control limits for the following analytes: Cr. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6010D: The continuing calibration verification (CCV) at line 59 in AD batch 803029 recovered above the upper control limit for Ni. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 6020B: The laboratory control sample (LCS) for preparation batch 500-802853 and analytical batch 500-803093 recovered outside control limits for the following analytes: Thallium. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256578-8 — Eurofins Chicago

Job Narrative
500-256578-8

Receipt
The samples were received on 9/12/2024 12:06 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB81 (0-3) — Lab Sample ID: 500-256578-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1.3		0.20	0.20	mg/L	1		6010D	TCLP

Client Sample ID: SB81 (7.5-10) — Lab Sample ID: 500-256578-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.012	J	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB82 (0-3) — Lab Sample ID: 500-256578-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.027		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB82 (5-7.5) — Lab Sample ID: 500-256578-4

No Detections.

Client Sample ID: SB83 (0-3) — Lab Sample ID: 500-256578-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.011	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	0.74		0.20	0.20	mg/L	1		6010D	TCLP
Silver	0.031		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.060	J	0.10	0.020	mg/L	1		6010D	TCLP

Client Sample ID: SB83 (3-5) — Lab Sample ID: 500-256578-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	1.2		0.50		mg/L	1		6010D	TCLP
Chromium	0.044		0.025		mg/L	1		6010D	TCLP
Iron	14		0.20		mg/L	1		6010D	TCLP
Vanadium	0.051		0.025		mg/L	1		6010D	TCLP
Zinc	0.73	F1	0.10		mg/L	1		6010D	TCLP
Vanadium	0.058		0.025		mg/L	1		6010D	SPLP East

Client Sample ID: SB84 (0-3) — Lab Sample ID: 500-256578-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.052		0.025		mg/L	1		6010D	TCLP
Lead	0.067		0.0075		mg/L	1		6010D	TCLP
Manganese	1.1		0.025		mg/L	1		6010D	TCLP
Zinc	0.53		0.10		mg/L	1		6010D	TCLP

Client Sample ID: SB84 (5-7.5) — Lab Sample ID: 500-256578-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.14		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB85 (0-3) — Lab Sample ID: 500-256578-9

No Detections.

Client Sample ID: SB85 (10-12.5) — Lab Sample ID: 500-256578-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.12		0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.044		0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB86 (0-3)
Lab Sample ID: 500-256578-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0020	J	0.0050	0.0012	mg/L	1		6020B	TCLP
Copper	0.0062		0.0020	0.0017	mg/L	1		6020B	TCLP
Iron	0.15		0.10	0.047	mg/L	1		6020B	TCLP
Nickel	0.015		0.0020	0.0015	mg/L	1		6020B	TCLP
Selenium	0.0021	J	0.0050	0.00089	mg/L	1		6020B	TCLP

Client Sample ID: SB86 (7.5-10)
Lab Sample ID: 500-256578-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.018	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.034	J	0.10	0.020	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CLE
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256578-1	SB81 (0-3)	Solid	09/11/24 08:14	09/12/24 12:06
500-256578-2	SB81 (7.5-10)	Solid	09/11/24 08:30	09/12/24 12:06
500-256578-3	SB82 (0-3)	Solid	09/11/24 09:49	09/12/24 12:06
500-256578-4	SB82 (5-7.5)	Solid	09/11/24 10:03	09/12/24 12:06
500-256578-5	SB83 (0-3)	Solid	09/11/24 11:04	09/12/24 12:06
500-256578-6	SB83 (3-5)	Solid	09/11/24 11:10	09/12/24 12:06
500-256578-7	SB84 (0-3)	Solid	09/11/24 12:18	09/12/24 12:06
500-256578-8	SB84 (5-7.5)	Solid	09/11/24 12:30	09/12/24 12:06
500-256578-9	SB85 (0-3)	Solid	09/11/24 13:17	09/12/24 12:06
500-256578-10	SB85 (10-12.5)	Solid	09/11/24 13:48	09/12/24 12:06
500-256578-11	SB86 (0-3)	Solid	09/11/24 14:37	09/12/24 12:06
500-256578-12	SB86 (7.5-10)	Solid	09/11/24 14:50	09/12/24 12:06

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB81 (0-3)
Lab Sample ID: 500-256578-1

Date Collected: 09/11/24 08:14
Matrix: Solid
Date Received: 09/12/24 12:06

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010	*+	0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:55	1
Iron	**1.3**		0.20	0.20	mg/L		01/14/25 14:24	01/15/25 11:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:24	01/15/25 11:55	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:24	01/15/25 11:55	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 13:46	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057	*+	0.0020	0.00057	mg/L		01/14/25 14:24	01/15/25 23:00	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB81 (7.5-10)
Lab Sample ID: 500-256578-2
Date Collected: 09/11/24 08:30
Matrix: Solid
Date Received: 09/12/24 12:06

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:23	01/15/25 13:51	1
Manganese	**0.012**	**J**	0.025	0.010	mg/L		01/14/25 14:23	01/15/25 13:51	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:23	01/15/25 13:51	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 13:51	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:23	01/15/25 18:34	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB82 (0-3)
Lab Sample ID: 500-256578-3

Date Collected: 09/11/24 09:49
Matrix: Solid
Date Received: 09/12/24 12:06

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:23	01/15/25 13:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:23	01/15/25 13:55	1
Manganese	**0.027**		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 13:55	1
Nickel	<0.010	^+	0.025	0.010	mg/L		01/14/25 14:23	01/15/25 13:55	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:23	01/15/25 13:55	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 13:55	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:23	01/15/25 13:55	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:23	01/15/25 18:49	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB82 (5-7.5)
Lab Sample ID: 500-256578-4

Date Collected: 09/11/24 10:03
Matrix: Solid
Date Received: 09/12/24 12:06

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 13:55	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 13:55	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 13:55	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 11:32	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:11	01/16/25 16:57	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256578-8

Client Sample ID: SB83 (0-3)

Date Collected: 09/11/24 11:04
Date Received: 09/12/24 12:06

Lab Sample ID: 500-256578-5

Matrix: Solid

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:24	01/15/25 11:59	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:24	01/15/25 11:59	1
Chromium	<0.010	*+	0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:59	1
Copper	**0.011**	**J**	0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:59	1
Iron	**0.74**		0.20	0.20	mg/L		01/14/25 14:24	01/15/25 11:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:24	01/15/25 11:59	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:59	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:24	01/15/25 11:59	1
Silver	**0.031**		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:59	1
Zinc	**0.060**	**J**	0.10	0.020	mg/L		01/14/25 14:24	01/15/25 11:59	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 13:20	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:24	01/16/25 13:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB83 (3-5)
Lab Sample ID: 500-256578-6

Date Collected: 09/11/24 11:10
Matrix: Solid
Date Received: 09/12/24 12:06

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**1.2**		0.50		mg/L		10/28/24 15:40	10/29/24 12:44	1
Beryllium	<0.0040		0.0040		mg/L		10/28/24 15:40	10/29/24 12:44	1
Cadmium	<0.0050		0.0050		mg/L		10/28/24 15:40	10/29/24 12:44	1
Chromium	**0.044**		0.025		mg/L		10/28/24 15:40	10/29/24 12:44	1
Iron	**14**		0.20		mg/L		10/28/24 15:40	10/29/24 12:44	1
Lead	<0.038	F1	0.038		mg/L		10/28/24 15:40	01/01/25 00:22	5
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 12:44	1
Silver	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:44	1
Vanadium	**0.051**		0.025		mg/L		10/28/24 15:40	10/29/24 12:44	1
Zinc	**0.73**	**F1**	0.10		mg/L		10/28/24 15:40	10/29/24 12:44	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20		mg/L		11/20/24 08:19	11/21/24 04:04	1
Manganese	<0.025		0.025		mg/L		11/20/24 08:19	11/21/24 04:04	1
Vanadium	**0.058**		0.025		mg/L		11/20/24 08:19	11/21/24 04:04	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:24	01/16/25 13:52	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB84 (0-3)
Lab Sample ID: 500-256578-7
Date Collected: 09/11/24 12:18
Matrix: Solid
Date Received: 09/12/24 12:06

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 13:59	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 13:59	1
Chromium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 13:59	1
Copper	**0.052**		0.025		mg/L		10/29/24 14:15	10/30/24 13:59	1
Lead	**0.067**		0.0075		mg/L		10/29/24 14:15	10/30/24 13:59	1
Manganese	**1.1**		0.025		mg/L		10/29/24 14:15	10/30/24 13:59	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 13:59	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 13:59	1
Zinc	**0.53**		0.10		mg/L		10/29/24 14:15	10/30/24 13:59	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075		mg/L		12/02/24 09:04	12/03/24 11:16	1
Manganese	<0.025		0.025		mg/L		12/02/24 09:04	12/03/24 11:16	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057	*+	0.0020	0.00057	mg/L		01/14/25 14:24	01/15/25 23:12	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB84 (5-7.5)
Lab Sample ID: 500-256578-8
Date Collected: 09/11/24 12:30
Matrix: Solid
Date Received: 09/12/24 12:06

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/25 15:09	03/11/25 00:34	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/06/25 15:09	03/11/25 00:34	1
Chromium	<0.010		0.025	0.010	mg/L		03/06/25 15:09	03/11/25 00:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/25 15:09	03/11/25 00:34	1
Manganese	<0.010	H	0.025	0.010	mg/L		03/06/25 15:09	03/11/25 14:05	1
Selenium	<0.020		0.050	0.020	mg/L		03/06/25 15:09	03/11/25 00:34	1
Silver	<0.010		0.025	0.010	mg/L		03/06/25 15:09	03/11/25 00:34	1
Vanadium	**0.14**		0.025	0.010	mg/L		03/06/25 15:09	03/11/25 00:34	1
Zinc	<0.020		0.10	0.020	mg/L		03/06/25 15:09	03/11/25 00:34	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB85 (0-3)
Lab Sample ID: 500-256578-9

Date Collected: 09/11/24 13:17
Matrix: Solid
Date Received: 09/12/24 12:06

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:21	01/15/25 13:25	1
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 13:25	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 13:25	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 13:25	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 19:08	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB85 (10-12.5)
Lab Sample ID: 500-256578-10
Date Collected: 09/11/24 13:48
Matrix: Solid
Date Received: 09/12/24 12:06

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:24	01/15/25 12:04	1
Chromium	<0.010	*+	0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:04	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:24	01/15/25 12:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:24	01/15/25 12:04	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:24	01/15/25 12:04	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:04	1
Vanadium	**0.12**		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:04	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 13:42	1
Vanadium	**0.044**		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 13:42	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057	*+	0.0020	0.00057	mg/L		01/14/25 14:24	01/15/25 23:15	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB86 (0-3)
Lab Sample ID: 500-256578-11

Date Collected: 09/11/24 14:37
Matrix: Solid
Date Received: 09/12/24 12:06

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 16:38	1
Cadmium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 16:38	1
Lead	<0.0075		0.0075		mg/L		10/15/24 14:00	10/16/24 16:38	1
Zinc	<1.0		1.0		mg/L		10/15/24 14:00	10/16/24 16:38	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050		mg/L		11/04/24 14:00	11/06/24 06:45	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 06:45	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 15:39	1
Chromium	**0.0020**	**J**	0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 15:39	1
Copper	**0.0062**		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 15:39	1
Iron	**0.15**		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 15:39	1
Nickel	**0.015**		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 15:39	1
Selenium	**0.0021**	**J**	0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 15:39	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 15:39	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 15:39	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB86 (7.5-10)
Lab Sample ID: 500-256578-12

Date Collected: 09/11/24 14:50
Matrix: Solid
Date Received: 09/12/24 12:06

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:24	01/15/25 12:09	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:24	01/15/25 12:09	1
Chromium	<0.010	*+	0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:09	1
Copper	**0.018**	**J**	0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:24	01/15/25 12:09	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:09	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:24	01/15/25 12:09	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:09	1
Zinc	**0.034**	**J**	0.10	0.020	mg/L		01/14/25 14:24	01/15/25 12:09	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 11:37	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:24	01/16/25 13:56	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 630763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-11	SB86 (0-3)	TCLP	Solid	1311	
LB 240-630763/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 630837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-11	SB86 (0-3)	TCLP	Solid	3010A	630763
LB 240-630763/1-B	Method Blank	TCLP	Solid	3010A	630763
MB 240-630837/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630837/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 631202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-11	SB86 (0-3)	TCLP	Solid	6010D	630837
LB 240-630763/1-B	Method Blank	TCLP	Solid	6010D	630837
MB 240-630837/2-A	Method Blank	Total/NA	Solid	6010D	630837
LCS 240-630837/3-A	Lab Control Sample	Total/NA	Solid	6010D	630837

Leach Batch: 633697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-11	SB86 (0-3)	SPLP East	Solid	1312	
LB 240-633697/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 633805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-11	SB86 (0-3)	SPLP East	Solid	3010A	633697
LB 240-633697/1-B	Method Blank	SPLP East	Solid	3010A	633697
MB 240-633805/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-633805/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 634193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-11	SB86 (0-3)	SPLP East	Solid	6010D	633805
LB 240-633697/1-B	Method Blank	SPLP East	Solid	6010D	633805
MB 240-633805/2-A	Method Blank	Total/NA	Solid	6010D	633805
LCS 240-633805/3-A	Lab Control Sample	Total/NA	Solid	6010D	633805

Leach Batch: 640346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-11	SB86 (0-3)	TCLP	Solid	1311	
LB 240-640346/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 640405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-11	SB86 (0-3)	TCLP	Solid	3010A	640346
LB 240-640346/1-B	Method Blank	TCLP	Solid	3010A	640346
MB 240-640405/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640405/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 640570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-11	SB86 (0-3)	TCLP	Solid	6020B	640405

Metals (Continued)

Analysis Batch: 640570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-640346/1-B	Method Blank	TCLP	Solid	6020B	640405
MB 240-640405/2-A	Method Blank	Total/NA	Solid	6020B	640405
LCS 240-640405/4-A	Lab Control Sample	Total/NA	Solid	6020B	640405

Leach Batch: 792364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-4	SB82 (5-7.5)	TCLP	Solid	1311	
500-256578-7	SB84 (0-3)	TCLP	Solid	1311	
LB 500-792364/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 792414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-6	SB83 (3-5)	TCLP	Solid	1311	
LB2 500-792414/1-B	Method Blank	TCLP	Solid	1311	
500-256578-6 MS	SB83 (3-5)	TCLP	Solid	1311	
500-256578-6 DU	SB83 (3-5)	TCLP	Solid	1311	

Prep Batch: 792710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-4	SB82 (5-7.5)	TCLP	Solid	3010A	792364
500-256578-7	SB84 (0-3)	TCLP	Solid	3010A	792364
LB 500-792364/1-B	Method Blank	TCLP	Solid	3010A	792364
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 792712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-6	SB83 (3-5)	TCLP	Solid	3010A	792414
LB2 500-792414/1-B	Method Blank	TCLP	Solid	3010A	792414
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256578-6 MS	SB83 (3-5)	TCLP	Solid	3010A	792414
500-256578-6 DU	SB83 (3-5)	TCLP	Solid	3010A	792414

Analysis Batch: 792920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-6	SB83 (3-5)	TCLP	Solid	6010D	792712
LB2 500-792414/1-B	Method Blank	TCLP	Solid	6010D	792712
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	6010D	792712
500-256578-6 MS	SB83 (3-5)	TCLP	Solid	6010D	792712
500-256578-6 DU	SB83 (3-5)	TCLP	Solid	6010D	792712

Analysis Batch: 793149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-4	SB82 (5-7.5)	TCLP	Solid	6010D	792710
500-256578-7	SB84 (0-3)	TCLP	Solid	6010D	792710
LB 500-792364/1-B	Method Blank	TCLP	Solid	6010D	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6010D	792710

Leach Batch: 795527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-6	SB83 (3-5)	SPLP East	Solid	1312	
LB 500-795527/1-B	Method Blank	SPLP East	Solid	1312	

Metals

Prep Batch: 796193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-6	SB83 (3-5)	SPLP East	Solid	3010A	795527
LB 500-795527/1-B	Method Blank	SPLP East	Solid	3010A	795527
LCS 500-796193/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 796408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-6	SB83 (3-5)	SPLP East	Solid	6010D	796193
LB 500-795527/1-B	Method Blank	SPLP East	Solid	6010D	796193
LCS 500-796193/2-A	Lab Control Sample	Total/NA	Solid	6010D	796193

Leach Batch: 796673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-7	SB84 (0-3)	SPLP East	Solid	1312	
LB 500-796673/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 797564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-7	SB84 (0-3)	SPLP East	Solid	3010A	796673
LB 500-796673/1-B	Method Blank	SPLP East	Solid	3010A	796673
LCS 500-797564/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 797844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-7	SB84 (0-3)	SPLP East	Solid	6010D	797564
LB 500-796673/1-B	Method Blank	SPLP East	Solid	6010D	797564
LCS 500-797564/2-A	Lab Control Sample	Total/NA	Solid	6010D	797564

Analysis Batch: 801390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-6	SB83 (3-5)	TCLP	Solid	6010D	792712
LB2 500-792414/1-B	Method Blank	TCLP	Solid	6010D	792712
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	6010D	792712
500-256578-6 MS	SB83 (3-5)	TCLP	Solid	6010D	792712
500-256578-6 DU	SB83 (3-5)	TCLP	Solid	6010D	792712

Leach Batch: 802634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-5	SB83 (0-3)	SPLP East	Solid	1312	
500-256578-9	SB85 (0-3)	SPLP East	Solid	1312	
500-256578-10	SB85 (10-12.5)	SPLP East	Solid	1312	
LB 500-802634/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 802650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	SPLP East	Solid	1312	
500-256578-2	SB81 (7.5-10)	SPLP East	Solid	1312	
500-256578-3	SB82 (0-3)	SPLP East	Solid	1312	
LB 500-802650/1-B	Method Blank	SPLP East	Solid	1312	

Metals

Leach Batch: 802660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	TCLP	Solid	1311	
500-256578-5	SB83 (0-3)	TCLP	Solid	1311	
500-256578-6	SB83 (3-5)	TCLP	Solid	1311	
500-256578-7	SB84 (0-3)	TCLP	Solid	1311	
500-256578-10	SB85 (10-12.5)	TCLP	Solid	1311	
500-256578-12	SB86 (7.5-10)	TCLP	Solid	1311	
LB 500-802660/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 802813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-4	SB82 (5-7.5)	SPLP East	Solid	1312	
500-256578-12	SB86 (7.5-10)	SPLP East	Solid	1312	
LB 500-802813/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 802847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-4	SB82 (5-7.5)	TCLP	Solid	1311	
LB 500-802847/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 802849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-5	SB83 (0-3)	SPLP East	Solid	3010A	802634
500-256578-9	SB85 (0-3)	SPLP East	Solid	3010A	802634
500-256578-10	SB85 (10-12.5)	SPLP East	Solid	3010A	802634
LB 500-802634/1-B	Method Blank	SPLP East	Solid	3010A	802634
LCS 500-802849/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 802852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	SPLP East	Solid	3010A	802650
500-256578-2	SB81 (7.5-10)	SPLP East	Solid	3010A	802650
500-256578-3	SB82 (0-3)	SPLP East	Solid	3010A	802650
LB 500-802650/1-B	Method Blank	SPLP East	Solid	3010A	802650
LCS 500-802852/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 802853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	TCLP	Solid	3010A	802660
500-256578-5	SB83 (0-3)	TCLP	Solid	3010A	802660
500-256578-6	SB83 (3-5)	TCLP	Solid	3010A	802660
500-256578-7	SB84 (0-3)	TCLP	Solid	3010A	802660
500-256578-10	SB85 (10-12.5)	TCLP	Solid	3010A	802660
500-256578-12	SB86 (7.5-10)	TCLP	Solid	3010A	802660
LB 500-802660/1-B	Method Blank	TCLP	Solid	3010A	802660
LCS 500-802853/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 803011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-4	SB82 (5-7.5)	TCLP	Solid	3010A	802847
LB 500-802847/1-B	Method Blank	TCLP	Solid	3010A	802847
LCS 500-803011/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals

Prep Batch: 803012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-4	SB82 (5-7.5)	SPLP East	Solid	3010A	802813
500-256578-12	SB86 (7.5-10)	SPLP East	Solid	3010A	802813
LB 500-802813/1-B	Method Blank	SPLP East	Solid	3010A	802813
LCS 500-803012/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 803026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	TCLP	Solid	6010D	802853
500-256578-5	SB83 (0-3)	SPLP East	Solid	6010D	802849
500-256578-5	SB83 (0-3)	TCLP	Solid	6010D	802853
500-256578-9	SB85 (0-3)	SPLP East	Solid	6010D	802849
500-256578-10	SB85 (10-12.5)	SPLP East	Solid	6010D	802849
500-256578-10	SB85 (10-12.5)	TCLP	Solid	6010D	802853
500-256578-12	SB86 (7.5-10)	TCLP	Solid	6010D	802853
LB 500-802634/1-B	Method Blank	SPLP East	Solid	6010D	802849
LB 500-802660/1-B	Method Blank	TCLP	Solid	6010D	802853
LCS 500-802849/2-A	Lab Control Sample	Total/NA	Solid	6010D	802849
LCS 500-802853/2-A	Lab Control Sample	Total/NA	Solid	6010D	802853

Analysis Batch: 803029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	SPLP East	Solid	6010D	802852
500-256578-2	SB81 (7.5-10)	SPLP East	Solid	6010D	802852
500-256578-3	SB82 (0-3)	SPLP East	Solid	6010D	802852
LB 500-802650/1-B	Method Blank	SPLP East	Solid	6010D	802852
LCS 500-802852/2-A	Lab Control Sample	Total/NA	Solid	6010D	802852

Analysis Batch: 803093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-1	SB81 (0-3)	TCLP	Solid	6020B	802853
500-256578-2	SB81 (7.5-10)	SPLP East	Solid	6020B	802852
500-256578-3	SB82 (0-3)	SPLP East	Solid	6020B	802852
500-256578-7	SB84 (0-3)	TCLP	Solid	6020B	802853
500-256578-10	SB85 (10-12.5)	TCLP	Solid	6020B	802853
LB 500-802650/1-B	Method Blank	SPLP East	Solid	6020B	802852
LB 500-802660/1-B	Method Blank	TCLP	Solid	6020B	802853
LCS 500-802852/2-A	Lab Control Sample	Total/NA	Solid	6020B	802852
LCS 500-802853/2-A	Lab Control Sample	Total/NA	Solid	6020B	802853

Analysis Batch: 803094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-9	SB85 (0-3)	SPLP East	Solid	6020B	802849
LB 500-802634/1-B	Method Blank	SPLP East	Solid	6020B	802849
LCS 500-802849/2-A	Lab Control Sample	Total/NA	Solid	6020B	802849

Analysis Batch: 803182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-4	SB82 (5-7.5)	SPLP East	Solid	6010D	803012
500-256578-12	SB86 (7.5-10)	SPLP East	Solid	6010D	803012
LB 500-802813/1-B	Method Blank	SPLP East	Solid	6010D	803012
LCS 500-803012/2-A	Lab Control Sample	Total/NA	Solid	6010D	803012

Metals

Analysis Batch: 803207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-4	SB82 (5-7.5)	TCLP	Solid	6020B	803011
500-256578-5	SB83 (0-3)	TCLP	Solid	6020B	802853
500-256578-6	SB83 (3-5)	TCLP	Solid	6020B	802853
500-256578-12	SB86 (7.5-10)	TCLP	Solid	6020B	802853
LB 500-802847/1-B	Method Blank	TCLP	Solid	6020B	803011
LCS 500-803011/2-A	Lab Control Sample	Total/NA	Solid	6020B	803011

Leach Batch: 808717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-8	SB84 (5-7.5)	SPLP East	Solid	1312	
LB 500-808717/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 808945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-8	SB84 (5-7.5)	SPLP East	Solid	3010A	808717
LB 500-808717/1-B	Method Blank	SPLP East	Solid	3010A	808717
LCS 500-808945/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 809406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-8	SB84 (5-7.5)	SPLP East	Solid	6010D	808945
LB 500-808717/1-B	Method Blank	SPLP East	Solid	6010D	808945
LCS 500-808945/2-A	Lab Control Sample	Total/NA	Solid	6010D	808945

Analysis Batch: 809510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256578-8	SB84 (5-7.5)	SPLP East	Solid	6010D	808945
LB 500-808717/1-B	Method Blank	SPLP East	Solid	6010D	808945
LCS 500-808945/2-A	Lab Control Sample	Total/NA	Solid	6010D	808945

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-630837/2-A
Matrix: Solid
Analysis Batch: 631202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:59	1
Cadmium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 15:59	1
Lead	<0.0075		0.0075		mg/L		10/15/24 14:00	10/16/24 15:59	1
Zinc	<1.0		1.0		mg/L		10/15/24 14:00	10/16/24 15:59	1

Lab Sample ID: LCS 240-630837/3-A
Matrix: Solid
Analysis Batch: 631202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2.00	2.20		mg/L		110	50 - 150
Cadmium	1.00	1.02		mg/L		102	50 - 150
Lead	1.00	0.913		mg/L		91	50 - 150
Zinc	1.00	1.15		mg/L		115	50 - 150

Lab Sample ID: MB 240-633805/2-A
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050		mg/L		11/04/24 14:00	11/06/24 05:51	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 05:51	1

Lab Sample ID: LCS 240-633805/3-A
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	1.00	0.991		mg/L		99	50 - 150
Manganese	1.00	0.995		mg/L		99	50 - 150

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0509		mg/L		102	80 - 120
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Chromium	0.200	0.203		mg/L		101	80 - 120
Copper	0.250	0.251		mg/L		100	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Manganese	0.500	0.495		mg/L		99	80 - 120
Selenium	0.100	0.0906		mg/L		91	80 - 120
Silver	0.0500	0.0499		mg/L		100	80 - 120
Zinc	0.500	0.512		mg/L		102	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-792712/2-A
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0507		mg/L		101	80 - 120
Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Chromium	0.200	0.215		mg/L		107	80 - 120
Iron	1.00	1.08		mg/L		108	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Silver	0.0500	0.0492		mg/L		98	80 - 120
Vanadium	0.500	0.544		mg/L		109	80 - 120
Zinc	0.500	0.488		mg/L		98	80 - 120

Lab Sample ID: LCS 500-792712/2-A
Matrix: Solid
Analysis Batch: 801390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-796193/2-A
Matrix: Solid
Analysis Batch: 796408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 796193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.03		mg/L		103	80 - 120
Manganese	0.500	0.521		mg/L		104	80 - 120
Vanadium	0.500	0.515		mg/L		103	80 - 120

Lab Sample ID: LCS 500-797564/2-A
Matrix: Solid
Analysis Batch: 797844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 797564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.102		mg/L		102	80 - 120
Manganese	0.500	0.521		mg/L		104	80 - 120

Lab Sample ID: LCS 500-802849/2-A
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0497		mg/L		99	80 - 120
Lead	0.100	0.0990		mg/L		99	80 - 120
Nickel	0.500	0.482		mg/L		96	80 - 120
Selenium	0.100	0.0911		mg/L		91	80 - 120
Silver	0.0500	0.0463		mg/L		93	80 - 120
Zinc	0.500	0.489		mg/L		98	80 - 120
Manganese	0.500	0.478		mg/L		96	80 - 120
Vanadium	0.500	0.471		mg/L		94	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-802852/2-A
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Lead	0.100	0.109		mg/L		109	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Silver	0.0500	0.0498		mg/L		100	80 - 120
Zinc	0.500	0.533		mg/L		107	80 - 120
Manganese	0.500	0.519		mg/L		104	80 - 120
Vanadium	0.500	0.536		mg/L		107	80 - 120

Lab Sample ID: LCS 500-802853/2-A
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0496		mg/L		99	80 - 120
Cadmium	0.0500	0.0498		mg/L		100	80 - 120
Chromium	0.200	0.255	*+	mg/L		128	80 - 120
Copper	0.250	0.242		mg/L		97	80 - 120
Iron	1.00	0.990		mg/L		99	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0496		mg/L		99	80 - 120
Zinc	0.500	0.593		mg/L		119	80 - 120
Vanadium	0.500	0.503		mg/L		101	80 - 120

Lab Sample ID: LCS 500-803012/2-A
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.501		mg/L		100	80 - 120
Vanadium	0.500	0.490		mg/L		98	80 - 120

Lab Sample ID: LCS 500-808945/2-A
Matrix: Solid
Analysis Batch: 809406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 808945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0469		mg/L		94	80 - 120
Cadmium	0.0500	0.0444		mg/L		89	80 - 120
Chromium	0.200	0.187		mg/L		93	80 - 120
Lead	0.100	0.0951		mg/L		95	80 - 120
Selenium	0.100	0.0871		mg/L		87	80 - 120
Silver	0.0500	0.0446		mg/L		89	80 - 120
Vanadium	0.500	0.474		mg/L		95	80 - 120
Zinc	0.500	0.465		mg/L		93	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-808945/2-A
Matrix: Solid
Analysis Batch: 809510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 808945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.490		mg/L		98	80 - 120

Lab Sample ID: LB 240-630763/1-B
Matrix: Solid
Analysis Batch: 631202

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630837

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:54	1
Cadmium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 15:54	1
Lead	<0.0075		0.0075		mg/L		10/15/24 14:00	10/16/24 15:54	1
Zinc	<1.0		1.0		mg/L		10/15/24 14:00	10/16/24 15:54	1

Lab Sample ID: LB 500-792364/1-B
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 12:53	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 12:53	1
Chromium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Copper	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Lead	<0.0075		0.0075		mg/L		10/29/24 14:15	10/30/24 12:53	1
Manganese	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 12:53	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:53	1
Zinc	<0.10		0.10		mg/L		10/29/24 14:15	10/30/24 12:53	1

Lab Sample ID: LB2 500-792414/1-B
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792712

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50		mg/L		10/28/24 15:40	10/29/24 12:05	1
Beryllium	<0.0040		0.0040		mg/L		10/28/24 15:40	10/29/24 12:05	1
Cadmium	<0.0050		0.0050		mg/L		10/28/24 15:40	10/29/24 12:05	1
Chromium	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Iron	<0.20		0.20		mg/L		10/28/24 15:40	10/29/24 12:05	1
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 12:05	1
Silver	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Vanadium	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Zinc	<0.10		0.10		mg/L		10/28/24 15:40	10/29/24 12:05	1

Lab Sample ID: LB2 500-792414/1-B
Matrix: Solid
Analysis Batch: 801390

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792712

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075		mg/L		10/28/24 15:40	01/01/25 00:14	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256578-6 MS
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: SB83 (3-5)
Prep Type: TCLP
Prep Batch: 792712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	1.2		0.500	1.62		mg/L		95	75 - 125
Beryllium	<0.0040		0.0500	0.0535		mg/L		107	75 - 125
Cadmium	<0.0050		0.0500	0.0507		mg/L		101	75 - 125
Chromium	0.044		0.200	0.240		mg/L		98	75 - 125
Iron	14		1.00	13.6	4	mg/L		2	75 - 125
Selenium	<0.050		0.100	0.117		mg/L		117	75 - 125
Silver	<0.025		0.0500	0.0481		mg/L		96	75 - 125
Vanadium	0.051		0.500	0.563		mg/L		102	75 - 125
Zinc	0.73	F1	0.500	1.42	F1	mg/L		138	75 - 125

Lab Sample ID: 500-256578-6 MS
Matrix: Solid
Analysis Batch: 801390

Client Sample ID: SB83 (3-5)
Prep Type: TCLP
Prep Batch: 792712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	<0.038	F1	0.100	0.0112	F1	mg/L		11	75 - 125

Lab Sample ID: 500-256578-6 DU
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: SB83 (3-5)
Prep Type: TCLP
Prep Batch: 792712

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	1.2		1.13		mg/L		2	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	0.044		0.0429		mg/L		2	20
Iron	14		13.4		mg/L		1	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	0.051		0.0499		mg/L		2	20
Zinc	0.73	F1	0.831		mg/L		13	20

Lab Sample ID: 500-256578-6 DU
Matrix: Solid
Analysis Batch: 801390

Client Sample ID: SB83 (3-5)
Prep Type: TCLP
Prep Batch: 792712

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	<0.038	F1	<0.038		mg/L		NC	20

Lab Sample ID: LB 500-802660/1-B
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:24	01/15/25 11:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:24	01/15/25 11:28	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:28	1
Copper	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:28	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:24	01/15/25 11:28	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802660/1-B
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:24	01/15/25 11:28	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:28	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:24	01/15/25 11:28	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:28	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:24	01/15/25 11:28	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:28	1

Lab Sample ID: LB 240-633697/1-B
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 633805

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050		mg/L		11/04/24 14:00	11/06/24 05:46	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 05:46	1

Lab Sample ID: LB 500-795527/1-B
Matrix: Solid
Analysis Batch: 796408

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 796193

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20		mg/L		11/20/24 08:19	11/21/24 02:11	1
Manganese	<0.025		0.025		mg/L		11/20/24 08:19	11/21/24 02:11	1
Vanadium	<0.025		0.025		mg/L		11/20/24 08:19	11/21/24 02:11	1

Lab Sample ID: LB 500-796673/1-B
Matrix: Solid
Analysis Batch: 797844

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 797564

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075		mg/L		12/02/24 09:04	12/03/24 11:07	1
Manganese	<0.025		0.025		mg/L		12/02/24 09:04	12/03/24 11:07	1

Lab Sample ID: LB 500-802634/1-B
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802849

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:21	01/15/25 12:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:21	01/15/25 12:45	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 12:45	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:21	01/15/25 12:45	1
Manganese	0.0215	J	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802650/1-B
Matrix: Solid
Analysis Batch: 803029

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802852

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:23	01/15/25 12:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:23	01/15/25 12:10	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:10	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:23	01/15/25 12:10	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:10	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:23	01/15/25 12:10	1
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:10	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:23	01/15/25 12:10	1

Lab Sample ID: LB 500-802813/1-B
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803012

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1
Vanadium	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1

Lab Sample ID: LB 500-808717/1-B
Matrix: Solid
Analysis Batch: 809406

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 808945

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/25 15:09	03/11/25 00:30	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/06/25 15:09	03/11/25 00:30	1
Chromium	<0.010		0.025	0.010	mg/L		03/06/25 15:09	03/11/25 00:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/25 15:09	03/11/25 00:30	1
Selenium	<0.020		0.050	0.020	mg/L		03/06/25 15:09	03/11/25 00:30	1
Silver	<0.010		0.025	0.010	mg/L		03/06/25 15:09	03/11/25 00:30	1
Vanadium	<0.010		0.025	0.010	mg/L		03/06/25 15:09	03/11/25 00:30	1
Zinc	<0.020		0.10	0.020	mg/L		03/06/25 15:09	03/11/25 00:30	1

Lab Sample ID: LB 500-808717/1-B
Matrix: Solid
Analysis Batch: 809510

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 808945

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		03/06/25 15:09	03/11/25 14:01	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-640405/2-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 14:51	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:51	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:51	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:51	1
Nickel	<0.0015		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 14:51	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-640405/2-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:51	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:51	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:51	1

Lab Sample ID: LCS 240-640405/4-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.500	0.490		mg/L		98	80 - 120
Chromium	0.500	0.484		mg/L		97	80 - 120
Copper	0.500	0.522		mg/L		104	80 - 120
Iron	5.00	4.99		mg/L		100	80 - 120
Nickel	0.500	0.495		mg/L		99	80 - 120
Selenium	1.00	0.956		mg/L		96	80 - 120
Silver	0.100	0.0984		mg/L		98	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120

Lab Sample ID: LCS 500-802849/2-A
Matrix: Solid
Analysis Batch: 803094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.0989		mg/L		99	80 - 120

Lab Sample ID: LCS 500-802852/2-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.109		mg/L		109	80 - 120

Lab Sample ID: LCS 500-802853/2-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.125	*+	mg/L		125	80 - 120

Lab Sample ID: LCS 500-803011/2-A
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.110		mg/L		110	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 240-640346/1-B
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 640405

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00027		0.0010	0.00027	mg/L		12/31/24 14:00	01/02/25 14:43	1
Chromium	<0.0012		0.0050	0.0012	mg/L		12/31/24 14:00	01/02/25 14:43	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:43	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:43	1
Nickel	<0.0015		0.0020	0.0015	mg/L		12/31/24 14:00	01/02/25 14:43	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:43	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:43	1
Thallium	0.000670	J	0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:43	1

Lab Sample ID: LB 500-802660/1-B
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:24	01/15/25 22:25	1

Lab Sample ID: LB 500-802847/1-B
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 803011

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:11	01/16/25 16:11	1

Lab Sample ID: LB 500-802634/1-B
Matrix: Solid
Analysis Batch: 803094

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802849

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 18:48	1

Lab Sample ID: LB 500-802650/1-B
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802852

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:23	01/15/25 17:40	1

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB81 (0-3)
Lab Sample ID: 500-256578-1
Date Collected: 09/11/24 08:14
Matrix: Solid
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 13:46
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 11:55
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 23:00

Client Sample ID: SB81 (7.5-10)
Lab Sample ID: 500-256578-2
Date Collected: 09/11/24 08:30
Matrix: Solid
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 13:51
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 18:34

Client Sample ID: SB82 (0-3)
Lab Sample ID: 500-256578-3
Date Collected: 09/11/24 09:49
Matrix: Solid
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6010D		1	803029	SJ	EET CHI	01/15/25 13:55
SPLP East	Leach	1312			802650	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802852	S1Z	EET CHI	01/14/25 14:23 - 01/14/25 20:23 [1]
SPLP East	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 18:49

Client Sample ID: SB82 (5-7.5)
Lab Sample ID: 500-256578-4
Date Collected: 09/11/24 10:03
Matrix: Solid
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 11:32
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 13:55

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256578-8

Client Sample ID: SB82 (5-7.5)

Lab Sample ID: 500-256578-4
Matrix: Solid
Date Collected: 09/11/24 10:03
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802847	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
TCLP	Prep	3010A			803011	S1Z	EET CHI	01/15/25 14:11 - 01/15/25 20:11 [1]
TCLP	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 16:57

Client Sample ID: SB83 (0-3)

Lab Sample ID: 500-256578-5
Matrix: Solid
Date Collected: 09/11/24 11:04
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 13:20
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 11:59
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 13:48

Client Sample ID: SB83 (3-5)

Lab Sample ID: 500-256578-6
Matrix: Solid
Date Collected: 09/11/24 11:10
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			795527	JL	EET CHI	11/15/24 13:18 - 11/16/24 07:18 [1]
SPLP East	Prep	3010A			796193	BDE	EET CHI	11/20/24 08:19 - 11/20/24 14:19 [1]
SPLP East	Analysis	6010D		1	796408	RB	EET CHI	11/21/24 04:04
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6010D		5	801390	RB	EET CHI	01/01/25 00:22
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6010D		1	792920	SJ	EET CHI	10/29/24 12:44
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 13:52

Client Sample ID: SB84 (0-3)

Lab Sample ID: 500-256578-7
Matrix: Solid
Date Collected: 09/11/24 12:18
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			796673	RJ	EET CHI	11/22/24 13:50 - 11/23/24 07:50 [1]
SPLP East	Prep	3010A			797564	BDE	EET CHI	12/02/24 09:04 - 12/02/24 15:04 [1]
SPLP East	Analysis	6010D		1	797844	SJ	EET CHI	12/03/24 11:16

Client Sample ID: SB84 (0-3)
Lab Sample ID: 500-256578-7
Date Collected: 09/11/24 12:18
Matrix: Solid
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			792364	TJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 13:59
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 23:12

Client Sample ID: SB84 (5-7.5)
Lab Sample ID: 500-256578-8
Date Collected: 09/11/24 12:30
Matrix: Solid
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			808717	TJ	EET CHI	03/05/25 16:06 - 03/06/25 10:06 [1]
SPLP East	Prep	3010A			808945	S1Z	EET CHI	03/06/25 15:09 - 03/06/25 21:09 [1]
SPLP East	Analysis	6010D		1	809406	RB	EET CHI	03/11/25 00:34
SPLP East	Leach	1312			808717	TJ	EET CHI	03/05/25 16:06 - 03/06/25 10:06 [1]
SPLP East	Prep	3010A			808945	S1Z	EET CHI	03/06/25 15:09 - 03/06/25 21:09 [1]
SPLP East	Analysis	6010D		1	809510	SJ	EET CHI	03/11/25 14:05

Client Sample ID: SB85 (0-3)
Lab Sample ID: 500-256578-9
Date Collected: 09/11/24 13:17
Matrix: Solid
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 13:25
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6020B		1	803094	RN	EET CHI	01/15/25 19:08

Client Sample ID: SB85 (10-12.5)
Lab Sample ID: 500-256578-10
Date Collected: 09/11/24 13:48
Matrix: Solid
Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 13:42
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 12:04
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 23:15

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256578-8

Client Sample ID: SB86 (0-3)

Lab Sample ID: 500-256578-11

Date Collected: 09/11/24 14:37

Matrix: Solid

Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			633697	DRJ	EET CLE	11/03/24 15:50 - 11/04/24 08:20 [1]
SPLP East	Prep	3010A			633805	BN	EET CLE	11/04/24 14:00
SPLP East	Analysis	6010D		1	634193	KLC	EET CLE	11/06/24 06:45
TCLP	Leach	1311			630763	DRJ	EET CLE	10/14/24 17:10 - 10/15/24 09:15 [1]
TCLP	Prep	3010A			630837	BN	EET CLE	10/15/24 14:00
TCLP	Analysis	6010D		1	631202	RKT	EET CLE	10/16/24 16:38
TCLP	Leach	1311			640346	KLE	EET CLE	12/30/24 15:30 - 12/31/24 09:05 [1]
TCLP	Prep	3010A			640405	MN7X	EET CLE	12/31/24 14:00
TCLP	Analysis	6020B		1	640570	AJC	EET CLE	01/02/25 15:39

Client Sample ID: SB86 (7.5-10)

Lab Sample ID: 500-256578-12

Date Collected: 09/11/24 14:50

Matrix: Solid

Date Received: 09/12/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 11:37
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 12:09
TCLP	Leach	1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 13:56

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256578-8
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24
Wisconsin	State	399167560	08-31-25

Chain of Custody Record 720434

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HANSOCK	Site Contact	Date:	COC No 1 of 1 COCs
Company Name PIONEER	Tel/Email: JHANSOCK@PIONEERTS.COM	Lab Contact	Carrier.	Sampler
Address	Analysis Turnaround Time			For Lab Use Only: Walk-in Client / Lab Sampling
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			
Phone	TAT if different from Below			
Fax	☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Job / SDG No 500-256578
Project Name 8085 S Lone Star Pkwy				
Site				
P O # 04-0104-107				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	500-256578 COC	Sample Specific Notes
1 SB81 (0-3)	9/11/24	814	G	SO	4		X		
2 SB81 (2.5-10)		830					X		
3 SB82 (0-3)		949							
4 SB82 (5-7.5)		1003							
5 SB83 (0-3)		1104							
6 SB83 (3-5)		1110							
7 SB84 (0-3)		1218							
8 SB84 (5-7.5)		1230							
9 SB85 (0-3)		117							
10 SB85 (10-12.5)		148							
11 SB86 (0-3)		237							
12 SB86 (7.5-10)		250							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

4.5→4.2 48QT

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____			
Relinquished by	Company PIONEER	Date/Time 9/11/24	Received by	Company EETA	Date/Time 9/12/24 0855
Relinquished by	Company EETA 9/12/24	Date/Time 1206	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company EETA	Date/Time 9/12/24 1206

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256578-8

Login Number: 256578
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/14/2025 5:14:30 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256719-5

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
4/14/2025 5:14:30 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
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Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 500-256719-2 Eurofins Chicago

Job Narrative
500-256719-2

Revision
The report being provided is a revision of the original report sent on 10/17/2024. The report (revision 5) is being revised due to: Add TCLP Tl to SB89 (3-5) by 6010D per client request and lack of in-hold sample remaining to run by 6020B.

Report revision history
Revision 1 - 10/24/2024 - Reason - Added Chromium to sample SB89 (0-3) and Zinc to SP91 (0-3) per client request.

Revision 2 - 11/22/2024 - Reason - Add TCLP Ni to SB89 (0-3) per client request.

Revision 3 - 1/21/2025 - Reason - Add additional TCLP analytes to per client request.

Revision 4 - 3/17/2025 - Reason - Add TCLP V to SB91 (0-3) per client request.

Receipt
The samples were received on 9/13/2024 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

Receipt Exceptions

Sample SB87 (3-5) was lost in the lab and therefore no further analyses could be performed on the sample.

Metals
Method 6020B: The laboratory control sample (LCS) for preparation batch 240-630763 and 240-630837 and analytical batch 240-631309 recovered outside control limits for the following analyte: Thallium. This analyte was biased high in the LCS and was below the reporting limit in the associated sample; therefore, the data has been reported.

Method 6020B: Nickel in the leachate blank exceeded the reporting limit. Since process cleanliness for non-RCRA analytes cannot be guaranteed for samples undergoing metals leachate procedures, corrective action for leachate blank contamination is limited to analyte concentrations for RCRA analytes. SB90 (0-3) (500-256719-7) and SB91 (0-3) (500-256719-9)

Method 6020B: Thallium read above the reporting limit in the initial calibration blank. The result for thallium may be biased high. SB91 (0-3) (500-256719-9)

Method 7470A: The following sample(s) was prepared outside of preparation holding time due to mercury being requested after hold time had expired. SB90 (0-3) (500-256719-7) and SB91 (0-3) (500-256719-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 1311: The following samples were prepared outside of preparation holding time due the analysis being requested after the holding time had already elapsed : SB90 (0-3) (500-256719-7) and SB91 (0-3) (500-256719-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-256719-3 — Eurofins Chicago

Job Narrative
500-256719-3

Receipt
The samples were received on 09/13/24 12:00. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256719-4 — Eurofins Chicago

Job Narrative
500-256719-4

Revision
The report being provided is a revision of the original report sent on 11/27/2024. The report (revision 2) is being revised due to: Add SPLP V to SB89 (3-5) per client request.

Report revision history
Revision 1 - 1/21/2025 - Reason - Add Be, Cd, Cr, Cu, Fe, Pb, Ni, Se, Ag, V, Zn to SB90 (7.5-10) per client request.

Receipt
The samples were received on 9/13/2024 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

Receipt Exceptions

Sample SB87 (3-5) was lost in the lab and therefore no further analyses could be performed on the sample.

Metals
Method 6010D: The sample result recovered slightly more negative than the reporting limit for lead. The result was not greater than two times the reporting limit. The samples has been qualified and reported.

SB90 (7.5-10) (500-256719-8)

Method 6010D: The CCV failed low for Vanadium. It was requested after report was complete. Results may be biased low. SB89 (3-5) (500-256719-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256719-5 — Eurofins Chicago

Job Narrative
500-256719-5

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 3) is being revised due to: Add TCLP Tl to SB89 (0-3) per client request.

Report revision history
Revision 1 - 1/29/2025 - Reason - Add SPLP V to selected samples per client request.

Revision 2 - 3/17/2025 - Reason - Add SPLP V to SB91 (0-3) per client request.

Receipt
The samples were received on 9/13/2024 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

Receipt Exceptions

Sample SB87 (3-5) was lost in the lab and therefore no further analyses could be performed on the sample.

Metals
Method 1312: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 500-802813, the temperature was outside of this range. As a result, the test was not compliant with the requirements of 40 CFR Part 261.

Method 6010D:

Method 6010D: .The laboratory control sample (LCS fluid 2) for prep batch 802853 recovered outside control limits for the following analytes: Cr. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6020B: The laboratory control sample (LCS) for preparation batch 500-802853 and analytical batch 500-803093 recovered outside control limits for the following analytes: Thallium. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB87 (0-3) — Lab Sample ID: 500-256719-1

No Detections.

Client Sample ID: SB88 (0-3) — Lab Sample ID: 500-256719-3

No Detections.

Client Sample ID: SB88 (7.5-10) — Lab Sample ID: 500-256719-4

No Detections.

Client Sample ID: SB89 (0-3) — Lab Sample ID: 500-256719-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.021		0.015	0.0026	mg/L	1		6010D	SPLP East
Vanadium	0.078		0.049	0.0056	mg/L	1		6010D	SPLP East
Antimony	0.0020		0.0020	0.00057	mg/L	1		6020B	TCLP
Copper	0.0072		0.0020	0.0017	mg/L	1		6020B	TCLP
Selenium	0.0020	J	0.0050	0.00089	mg/L	1		6020B	TCLP
Thallium	0.00055	J	0.0020	0.00051	mg/L	1		6020B	TCLP
Vanadium	0.13		0.020	0.00082	mg/L	1		6020B	TCLP

Client Sample ID: SB89 (3-5) — Lab Sample ID: 500-256719-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.10		0.015		mg/L	1		6010D	TCLP
Vanadium	0.15		0.049		mg/L	1		6010D	TCLP
Vanadium	0.062	^-	0.049		mg/L	1		6010D	SPLP East

Client Sample ID: SB90 (0-3) — Lab Sample ID: 500-256719-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.022		0.015		mg/L	1		6010D	SPLP East
Vanadium	0.31		0.050		mg/L	1		6010D	SPLP East
Antimony	0.0025		0.0020		mg/L	1		6020B	TCLP
Barium	0.31		0.0050		mg/L	1		6020B	TCLP
Chromium	0.027		0.0050		mg/L	1		6020B	TCLP
Copper	0.0037		0.0020		mg/L	1		6020B	TCLP
Manganese	2.8		0.0050		mg/L	1		6020B	TCLP
Nickel	0.016	B	0.0020		mg/L	1		6020B	TCLP
Vanadium	0.16		0.020		mg/L	1		6020B	TCLP

Client Sample ID: SB90 (7.5-10) — Lab Sample ID: 500-256719-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.025		0.025		mg/L	1		6010D	TCLP
Iron	0.47		0.20		mg/L	1		6010D	TCLP
Vanadium	0.091		0.025		mg/L	1		6010D	TCLP
Vanadium	0.17		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB91 (0-3) — Lab Sample ID: 500-256719-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.013	J	0.015	0.0026	mg/L	1		6010D	SPLP East
Vanadium	0.14		0.049	0.0056	mg/L	1		6010D	SPLP East
Barium	0.24		0.0050		mg/L	1		6020B	TCLP
Chromium	0.010		0.0050		mg/L	1		6020B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB91 (0-3) (Continued) — Lab Sample ID: 500-256719-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.0038		0.0020		mg/L	1		6020B	TCLP
Nickel	0.0062	B	0.0020		mg/L	1		6020B	TCLP
Thallium	0.012	^2 *+	0.0020		mg/L	1		6020B	TCLP
Vanadium	0.067		0.020		mg/L	1		6020B	TCLP

Client Sample ID: SB91 (12.5-15) — Lab Sample ID: 500-256719-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.026		0.025	0.010	mg/L	1		6010D	TCLP
Copper	0.019	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	2.3		0.20	0.20	mg/L	1		6010D	TCLP
Lead	0.029		0.0075	0.0075	mg/L	1		6010D	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.060		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.088	J	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.037		0.025	0.010	mg/L	1		6010D	SPLP East
Vanadium	0.10		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB92 (0-3) — Lab Sample ID: 500-256719-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.019	J	0.025	0.010	mg/L	1		6010D	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	0.65		0.20	0.20	mg/L	1		6010D	TCLP
Vanadium	0.090		0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.13		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB92 (3-5) — Lab Sample ID: 500-256719-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.026		0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.21		0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.14		0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB87 (0-3)
Lab Sample ID: 500-256719-1
Date Collected: 09/12/24 08:01
Matrix: Solid
Date Received: 09/13/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.050	*+	0.13	0.050	mg/L		01/14/25 14:24	01/15/25 19:03	5
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:24	01/15/25 12:40	1
Lead	<0.038		0.038	0.038	mg/L		01/14/25 14:24	01/15/25 19:03	5
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:24	01/15/25 12:40	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 13:46	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057	*+	0.0020	0.00057	mg/L		01/14/25 14:24	01/15/25 23:50	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB88 (0-3)
Lab Sample ID: 500-256719-3
Date Collected: 09/12/24 08:47
Matrix: Solid
Date Received: 09/13/24 12:00

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:21	01/15/25 12:54	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:21	01/15/25 12:54	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:21	01/15/25 12:54	1
Manganese	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:54	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 12:54	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:54	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 18:53	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB88 (7.5-10)
Lab Sample ID: 500-256719-4
Date Collected: 09/12/24 09:06
Matrix: Solid
Date Received: 09/13/24 12:00

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:14	01/16/25 11:50	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB89 (0-3)
Lab Sample ID: 500-256719-5
Date Collected: 09/12/24 09:45
Matrix: Solid
Date Received: 09/13/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 16:42	1
Chromium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 16:42	1
Nickel	<0.040		0.040		mg/L		10/15/24 14:00	10/16/24 16:42	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.021**		0.015	0.0026	mg/L		12/30/24 14:00	01/01/25 04:14	1
Vanadium	**0.078**		0.049	0.0056	mg/L		12/30/24 14:00	01/01/25 04:14	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0020**		0.0020	0.00057	mg/L		12/31/24 14:00	01/02/25 14:29	1
Copper	**0.0072**		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:29	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:29	1
Selenium	**0.0020**	**J**	0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:29	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:29	1
Thallium	**0.00055**	**J**	0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:29	1
Vanadium	**0.13**		0.020	0.00082	mg/L		12/31/24 14:00	01/02/25 14:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB89 (3-5)
Lab Sample ID: 500-256719-6

Date Collected: 09/12/24 09:51
Matrix: Solid
Date Received: 09/13/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/15/24 14:00	10/16/24 16:47	1
Cadmium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 16:47	1
Chromium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 16:47	1
Iron	<0.20		0.20		mg/L		10/15/24 14:00	10/16/24 16:47	1
Manganese	**0.10**		0.015		mg/L		10/15/24 14:00	10/16/24 16:47	1
Nickel	<0.040		0.040		mg/L		10/15/24 14:00	10/16/24 16:47	1
Selenium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 16:47	1
Silver	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 16:47	1
Vanadium	**0.15**		0.049		mg/L		10/15/24 14:00	10/16/24 16:47	1
Thallium	<2.0		2.0		mg/L		10/15/24 14:00	10/16/24 16:47	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.015		0.015		mg/L		11/18/24 14:00	11/19/24 08:30	1
Vanadium	**0.062**	**^-**	0.049		mg/L		11/18/24 14:00	11/19/24 08:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB90 (0-3)
Lab Sample ID: 500-256719-7
Date Collected: 09/12/24 10:47
Matrix: Solid
Date Received: 09/13/24 12:00

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.022**		0.015		mg/L		10/25/24 14:00	10/29/24 07:09	1
Vanadium	**0.31**		0.050		mg/L		10/25/24 14:00	10/29/24 07:09	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0025**		0.0020		mg/L		10/15/24 14:00	10/16/24 14:07	1
Arsenic	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 14:07	1
Barium	**0.31**		0.0050		mg/L		10/15/24 14:00	10/16/24 14:07	1
Beryllium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:07	1
Cadmium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:07	1
Chromium	**0.027**		0.0050		mg/L		10/15/24 14:00	10/16/24 14:07	1
Copper	**0.0037**		0.0020		mg/L		10/15/24 14:00	10/16/24 14:07	1
Iron	<0.10		0.10		mg/L		10/15/24 14:00	10/16/24 14:07	1
Lead	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:07	1
Manganese	**2.8**		0.0050		mg/L		10/15/24 14:00	10/16/24 14:07	1
Nickel	**0.016**	**B**	0.0020		mg/L		10/15/24 14:00	10/16/24 14:07	1
Selenium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 14:07	1
Silver	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:07	1
Thallium	<0.0020	*+	0.0020		mg/L		10/15/24 14:00	10/17/24 12:10	1
Vanadium	**0.16**		0.020		mg/L		10/15/24 14:00	10/16/24 14:07	1
Zinc	<0.020		0.020		mg/L		10/15/24 14:00	10/16/24 14:07	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	H	0.0020		mg/L		10/15/24 14:00	10/16/24 12:27	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB90 (7.5-10)
Lab Sample ID: 500-256719-8

Date Collected: 09/12/24 11:11
Matrix: Solid
Date Received: 09/13/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		11/26/24 09:26	11/26/24 23:44	1
Cadmium	<0.0050		0.0050		mg/L		11/26/24 09:26	11/26/24 23:44	1
Chromium	**0.025**		0.025		mg/L		11/26/24 09:26	11/26/24 23:44	1
Copper	<0.025		0.025		mg/L		11/26/24 09:26	11/26/24 23:44	1
Iron	**0.47**		0.20		mg/L		11/26/24 09:26	11/26/24 23:44	1
Lead	<0.0075	L	0.0075		mg/L		11/26/24 09:26	11/26/24 23:44	1
Nickel	<0.025		0.025		mg/L		11/26/24 09:26	11/26/24 23:44	1
Selenium	<0.050		0.050		mg/L		11/26/24 09:26	11/26/24 23:44	1
Silver	<0.025		0.025		mg/L		11/26/24 09:26	11/26/24 23:44	1
Vanadium	**0.091**		0.025		mg/L		11/26/24 09:26	11/26/24 23:44	1
Zinc	<0.10		0.10		mg/L		11/26/24 09:26	11/26/24 23:44	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 11:54	1
Vanadium	**0.17**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 11:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB91 (0-3)
Lab Sample ID: 500-256719-9
Date Collected: 09/12/24 12:30
Matrix: Solid
Date Received: 09/13/24 12:00

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.013**	**J**	0.015	0.0026	mg/L		12/30/24 14:00	01/01/25 04:19	1
Vanadium	**0.14**		0.049	0.0056	mg/L		12/30/24 14:00	01/01/25 04:19	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 14:21	1
Barium	**0.24**		0.0050		mg/L		10/15/24 14:00	10/16/24 14:21	1
Beryllium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:21	1
Cadmium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:21	1
Chromium	**0.010**		0.0050		mg/L		10/15/24 14:00	10/16/24 14:21	1
Copper	**0.0038**		0.0020		mg/L		10/15/24 14:00	10/16/24 14:21	1
Iron	<0.10		0.10		mg/L		10/15/24 14:00	10/16/24 14:21	1
Lead	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:21	1
Nickel	**0.0062**	**B**	0.0020		mg/L		10/15/24 14:00	10/16/24 14:21	1
Selenium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 14:21	1
Silver	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:21	1
Thallium	**0.012**	**^2 *+**	0.0020		mg/L		10/15/24 14:00	10/16/24 14:21	1
Zinc	<0.020		0.020		mg/L		10/15/24 14:00	10/16/24 14:21	1
Vanadium	**0.067**		0.020		mg/L		10/15/24 14:00	10/16/24 14:21	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	H	0.0020		mg/L		10/15/24 14:00	10/16/24 12:33	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB91 (12.5-15)
Lab Sample ID: 500-256719-10

Date Collected: 09/12/24 12:57
Matrix: Solid
Date Received: 09/13/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:24	01/15/25 12:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:24	01/15/25 12:22	1
Chromium	**0.026**		0.025	0.010	mg/L		01/14/25 14:24	01/16/25 15:55	1
Copper	**0.019**	**J**	0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:22	1
Iron	**2.3**		0.20	0.20	mg/L		01/14/25 14:24	01/15/25 12:22	1
Lead	**0.029**		0.0075	0.0075	mg/L		01/14/25 14:24	01/15/25 12:22	1
Nickel	**0.010**	**J**	0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:22	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:24	01/15/25 12:22	1
Vanadium	**0.060**		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:22	1
Zinc	**0.088**	**J**	0.10	0.020	mg/L		01/14/25 14:24	01/15/25 12:22	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.037**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 11:59	1
Vanadium	**0.10**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 11:59	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057	*+	0.0020	0.00057	mg/L		01/14/25 14:24	01/15/25 23:23	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB92 (0-3)
Lab Sample ID: 500-256719-11

Date Collected: 09/12/24 13:44
Matrix: Solid
Date Received: 09/13/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:24	01/15/25 12:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:24	01/15/25 12:27	1
Chromium	**0.019**	**J**	0.025	0.010	mg/L		01/14/25 14:24	01/16/25 16:00	1
Copper	**0.011**	**J**	0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:27	1
Iron	**0.65**		0.20	0.20	mg/L		01/14/25 14:24	01/15/25 12:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:24	01/15/25 12:27	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:27	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:24	01/15/25 12:27	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:27	1
Vanadium	**0.090**		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:27	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:24	01/15/25 12:27	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:03	1
Vanadium	**0.13**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:03	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057	*+	0.0020	0.00057	mg/L		01/14/25 14:24	01/15/25 23:27	1

Client Sample ID: SB92 (3-5)
Lab Sample ID: 500-256719-12

Date Collected: 09/12/24 13:52
Matrix: Solid
Date Received: 09/13/24 12:00

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:26	01/15/25 13:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:26	01/15/25 13:22	1
Chromium	**0.026**		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:22	1
Copper	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:22	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 13:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:26	01/15/25 13:22	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:22	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 13:22	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:22	1
Vanadium	**0.21**		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:22	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:26	01/15/25 13:22	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:07	1
Vanadium	**0.14**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:07	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 20:41	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-630837/2-A
Matrix: Solid
Analysis Batch: 631202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/15/24 14:00	10/16/24 15:59	1
Cadmium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 15:59	1
Iron	<0.20		0.20		mg/L		10/15/24 14:00	10/16/24 15:59	1
Manganese	<0.015		0.015		mg/L		10/15/24 14:00	10/16/24 15:59	1
Selenium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:59	1
Silver	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:59	1
Vanadium	<0.049		0.049		mg/L		10/15/24 14:00	10/16/24 15:59	1
Thallium	<2.0		2.0		mg/L		10/15/24 14:00	10/16/24 15:59	1
Cobalt	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:59	1
Chromium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:59	1
Nickel	<0.040		0.040		mg/L		10/15/24 14:00	10/16/24 15:59	1

Lab Sample ID: LCS 240-630837/3-A
Matrix: Solid
Analysis Batch: 631202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	1.00	0.990		mg/L		99	50 - 150
Cadmium	1.00	1.02		mg/L		102	50 - 150
Iron	10.0	9.92		mg/L		99	50 - 150
Manganese	1.00	0.974		mg/L		97	50 - 150
Selenium	2.00	2.19		mg/L		109	50 - 150
Silver	0.100	0.101		mg/L		101	50 - 150
Vanadium	1.00	1.00		mg/L		100	50 - 150
Thallium	2.00	2.01		mg/L		100	50 - 150
Cobalt	1.00	1.08		mg/L		108	50 - 150
Chromium	1.00	0.988		mg/L		99	50 - 150
Nickel	1.00	1.10		mg/L		110	50 - 150

Lab Sample ID: MB 240-632464/2-A
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.015		0.015		mg/L		10/25/24 14:00	10/29/24 06:18	1
Vanadium	<0.050		0.050		mg/L		10/25/24 14:00	10/29/24 06:18	1

Lab Sample ID: LCS 240-632464/3-A
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1.00	0.923		mg/L		92	50 - 150
Vanadium	1.00	0.933		mg/L		93	50 - 150

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 240-635687/2-A
Matrix: Solid
Analysis Batch: 635822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 635687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.015		0.015		mg/L		11/18/24 14:00	11/19/24 07:52	1
Vanadium	<0.049	^-	0.049		mg/L		11/18/24 14:00	11/19/24 07:52	1

Lab Sample ID: LCS 240-635687/3-A
Matrix: Solid
Analysis Batch: 635822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 635687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1.00	0.903		mg/L		90	50 - 150
Vanadium	1.00	0.835	^-	mg/L		83	50 - 150

Lab Sample ID: MB 240-640243/2-A
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0026		0.015	0.0026	mg/L		12/30/24 14:00	01/01/25 03:26	1
Vanadium	<0.0056		0.049	0.0056	mg/L		12/30/24 14:00	01/01/25 03:26	1

Lab Sample ID: LCS 240-640243/3-A
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1.00	1.00		mg/L		100	50 - 150
Vanadium	1.00	0.990		mg/L		99	50 - 150

Lab Sample ID: LCS 500-797105/2-A
Matrix: Solid
Analysis Batch: 797315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 797105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0520		mg/L		104	80 - 120
Cadmium	0.0500	0.0524		mg/L		105	80 - 120
Chromium	0.200	0.205		mg/L		102	80 - 120
Copper	0.250	0.267		mg/L		107	80 - 120
Iron	1.00	0.976		mg/L		98	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Nickel	0.500	0.537		mg/L		107	80 - 120
Selenium	0.100	0.111		mg/L		111	80 - 120
Silver	0.0500	0.0543		mg/L		109	80 - 120
Vanadium	0.500	0.528		mg/L		106	80 - 120
Zinc	0.500	0.558		mg/L		112	80 - 120

Lab Sample ID: LCS 500-802849/2-A
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0497		mg/L		99	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-802849/2-A
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0500	0.0474		mg/L		95	80 - 120
Lead	0.100	0.0990		mg/L		99	80 - 120
Selenium	0.100	0.0911		mg/L		91	80 - 120
Silver	0.0500	0.0463		mg/L		93	80 - 120
Zinc	0.500	0.489		mg/L		98	80 - 120
Iron	1.00	0.953		mg/L		95	80 - 120
Manganese	0.500	0.478		mg/L		96	80 - 120
Vanadium	0.500	0.471		mg/L		94	80 - 120

Lab Sample ID: LCS 500-802853/15-A
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Cadmium	0.0500	0.0477		mg/L		95	80 - 120
Copper	0.250	0.242		mg/L		97	80 - 120
Lead	0.100	0.0996		mg/L		100	80 - 120
Nickel	0.500	0.488		mg/L		98	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Silver	0.0500	0.0463		mg/L		93	80 - 120
Zinc	0.500	0.494		mg/L		99	80 - 120
Iron	1.00	0.921		mg/L		92	80 - 120
Vanadium	0.500	0.480		mg/L		96	80 - 120

Lab Sample ID: LCS 500-802853/15-A
Matrix: Solid
Analysis Batch: 803088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.288	*+	mg/L		144	80 - 120

Lab Sample ID: LCS 500-802853/2-A
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0496		mg/L		99	80 - 120
Cadmium	0.0500	0.0498		mg/L		100	80 - 120
Copper	0.250	0.242		mg/L		97	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0496		mg/L		99	80 - 120
Zinc	0.500	0.593		mg/L		119	80 - 120
Iron	1.00	0.990		mg/L		99	80 - 120
Vanadium	0.500	0.503		mg/L		101	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-802853/2-A
Matrix: Solid
Analysis Batch: 803241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.189		mg/L		94	80 - 120

Lab Sample ID: LCS 500-802855/2-A
Matrix: Solid
Analysis Batch: 803028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Cadmium	0.0500	0.0524		mg/L		105	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Copper	0.250	0.258		mg/L		103	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120
Nickel	0.500	0.523		mg/L		105	80 - 120
Selenium	0.100	0.108		mg/L		108	80 - 120
Silver	0.0500	0.0501		mg/L		100	80 - 120
Zinc	0.500	0.557		mg/L		111	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Vanadium	0.500	0.507		mg/L		101	80 - 120

Lab Sample ID: LCS 500-803012/2-A
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.11		mg/L		111	80 - 120
Manganese	0.500	0.501		mg/L		100	80 - 120
Vanadium	0.500	0.490		mg/L		98	80 - 120

Lab Sample ID: LB 240-630763/1-B
Matrix: Solid
Analysis Batch: 631202

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630837

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/15/24 14:00	10/16/24 15:54	1
Cadmium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 15:54	1
Iron	<0.20		0.20		mg/L		10/15/24 14:00	10/16/24 15:54	1
Manganese	<0.015		0.015		mg/L		10/15/24 14:00	10/16/24 15:54	1
Selenium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:54	1
Silver	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:54	1
Vanadium	<0.049		0.049		mg/L		10/15/24 14:00	10/16/24 15:54	1
Thallium	<2.0		2.0		mg/L		10/15/24 14:00	10/16/24 15:54	1
Cobalt	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:54	1
Chromium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:54	1
Nickel	<0.040		0.040		mg/L		10/15/24 14:00	10/16/24 15:54	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-796654/1-B
Matrix: Solid
Analysis Batch: 797315

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 797105

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		11/26/24 09:26	11/26/24 23:40	1
Cadmium	<0.0050		0.0050		mg/L		11/26/24 09:26	11/26/24 23:40	1
Chromium	<0.025		0.025		mg/L		11/26/24 09:26	11/26/24 23:40	1
Copper	<0.025		0.025		mg/L		11/26/24 09:26	11/26/24 23:40	1
Iron	<0.20		0.20		mg/L		11/26/24 09:26	11/26/24 23:40	1
Lead	<0.0075		0.0075		mg/L		11/26/24 09:26	11/26/24 23:40	1
Nickel	<0.025		0.025		mg/L		11/26/24 09:26	11/26/24 23:40	1
Selenium	<0.050		0.050		mg/L		11/26/24 09:26	11/26/24 23:40	1
Silver	<0.025		0.025		mg/L		11/26/24 09:26	11/26/24 23:40	1
Vanadium	<0.025		0.025		mg/L		11/26/24 09:26	11/26/24 23:40	1
Zinc	<0.10		0.10		mg/L		11/26/24 09:26	11/26/24 23:40	1

Lab Sample ID: LB 500-802660/1-B
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:24	01/15/25 11:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:24	01/15/25 11:28	1
Copper	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:24	01/15/25 11:28	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:28	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:24	01/15/25 11:28	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:28	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:24	01/15/25 11:28	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:24	01/15/25 11:28	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 11:28	1

Lab Sample ID: LB 500-802660/1-B
Matrix: Solid
Analysis Batch: 803088

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:24	01/15/25 18:08	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 18:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:24	01/15/25 18:08	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 18:08	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 18:08	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:24	01/15/25 18:08	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 18:08	1

Lab Sample ID: LB 500-802660/1-B
Matrix: Solid
Analysis Batch: 803241

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/16/25 15:46	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB2 500-802689/1-B
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802853

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:24	01/15/25 12:31	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:24	01/15/25 12:31	1
Copper	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:24	01/15/25 12:31	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:31	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:24	01/15/25 12:31	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:31	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:24	01/15/25 12:31	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:24	01/15/25 12:31	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 12:31	1

Lab Sample ID: LB2 500-802689/1-B
Matrix: Solid
Analysis Batch: 803088

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802853

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:24	01/15/25 18:54	1

Lab Sample ID: LB 500-802656/1-B
Matrix: Solid
Analysis Batch: 803028

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802855

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:26	01/15/25 13:04	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:26	01/15/25 13:04	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Copper	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:26	01/15/25 13:04	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 13:04	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:26	01/15/25 13:04	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 13:04	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1

Lab Sample ID: 500-256719-12 MS
Matrix: Solid
Analysis Batch: 803028

Client Sample ID: SB92 (3-5)
Prep Type: TCLP
Prep Batch: 802855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0480		mg/L		96	75 - 125
Cadmium	<0.0020		0.0500	0.0542		mg/L		108	75 - 125
Chromium	0.026		0.200	0.203		mg/L		88	75 - 125
Copper	<0.010		0.250	0.267		mg/L		107	75 - 125
Lead	<0.0075		0.100	0.0970		mg/L		97	75 - 125
Nickel	<0.010		0.500	0.501		mg/L		100	75 - 125
Selenium	<0.020		0.100	0.111		mg/L		111	75 - 125
Silver	<0.010		0.0500	0.0512		mg/L		102	75 - 125
Zinc	<0.020		0.500	0.507		mg/L		101	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256719-12 MS
Matrix: Solid
Analysis Batch: 803028

Client Sample ID: SB92 (3-5)
Prep Type: TCLP
Prep Batch: 802855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	<0.20		1.00	0.984		mg/L		98	75 - 125
Vanadium	0.21		0.500	0.686		mg/L		95	75 - 125

Lab Sample ID: 500-256719-12 DU
Matrix: Solid
Analysis Batch: 803028

Client Sample ID: SB92 (3-5)
Prep Type: TCLP
Prep Batch: 802855

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Chromium	0.026		0.0240	J	mg/L		9	20
Copper	<0.010		<0.010		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Nickel	<0.010		<0.010		mg/L		NC	20
Selenium	<0.020		<0.020		mg/L		NC	20
Silver	<0.010		<0.010		mg/L		NC	20
Zinc	<0.020		<0.020		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Vanadium	0.21		0.197		mg/L		7	20

Lab Sample ID: LB 240-632368/1-B
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 632464

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.015		0.015		mg/L		10/25/24 14:00	10/29/24 06:13	1
Vanadium	<0.050		0.050		mg/L		10/25/24 14:00	10/29/24 06:13	1

Lab Sample ID: LB 240-635599/1-B
Matrix: Solid
Analysis Batch: 635822

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 635687

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.015		0.015		mg/L		11/18/24 14:00	11/19/24 07:48	1
Vanadium	<0.049	^-	0.049		mg/L		11/18/24 14:00	11/19/24 07:48	1

Lab Sample ID: LB 240-640187/1-B
Matrix: Solid
Analysis Batch: 640423

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 640243

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0026		0.015	0.0026	mg/L		12/30/24 14:00	01/01/25 03:21	1
Vanadium	<0.0056		0.049	0.0056	mg/L		12/30/24 14:00	01/01/25 03:21	1

Lab Sample ID: LB 500-802634/1-B
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802849

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:21	01/15/25 12:45	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802634/1-B
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802849

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/14/25 14:21	01/15/25 12:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:21	01/15/25 12:45	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:21	01/15/25 12:45	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:21	01/15/25 12:45	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:21	01/15/25 12:45	1
Manganese	0.0215	J	0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:21	01/15/25 12:45	1

Lab Sample ID: 500-256719-3 MS
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: SB88 (0-3)
Prep Type: SPLP East
Prep Batch: 802849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0496		mg/L		99	75 - 125
Cadmium	<0.0020		0.0500	0.0474		mg/L		95	75 - 125
Lead	<0.0075		0.100	0.101		mg/L		101	75 - 125
Selenium	<0.020		0.100	0.0962		mg/L		96	75 - 125
Silver	<0.010		0.0500	0.0459		mg/L		92	75 - 125
Zinc	<0.020		0.500	0.495		mg/L		99	75 - 125
Iron	<0.20		1.00	0.990		mg/L		99	75 - 125
Manganese	<0.010		0.500	0.484		mg/L		97	75 - 125
Vanadium	0.010	J	0.500	0.488		mg/L		96	75 - 125

Lab Sample ID: 500-256719-3 DU
Matrix: Solid
Analysis Batch: 803026

Client Sample ID: SB88 (0-3)
Prep Type: SPLP East
Prep Batch: 802849

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Selenium	<0.020		<0.020		mg/L		NC	20
Silver	<0.010		<0.010		mg/L		NC	20
Zinc	<0.020		<0.020		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Manganese	<0.010		<0.010		mg/L		NC	20
Vanadium	0.010	J	0.0105	J	mg/L		1	20

Lab Sample ID: LB 500-802813/1-B
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803012

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:14	01/16/25 10:57	1
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1
Vanadium	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-630837/2-A
Matrix: Solid
Analysis Batch: 631164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/15/24 14:00	10/16/24 14:02	1
Arsenic	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 14:02	1
Barium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 14:02	1
Beryllium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:02	1
Cadmium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:02	1
Chromium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 14:02	1
Copper	<0.0020		0.0020		mg/L		10/15/24 14:00	10/16/24 14:02	1
Iron	<0.10		0.10		mg/L		10/15/24 14:00	10/16/24 14:02	1
Lead	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:02	1
Manganese	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 14:02	1
Nickel	<0.0020		0.0020		mg/L		10/15/24 14:00	10/16/24 14:02	1
Selenium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 14:02	1
Silver	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:02	1
Zinc	<0.020		0.020		mg/L		10/15/24 14:00	10/16/24 14:02	1
Vanadium	<0.020		0.020		mg/L		10/15/24 14:00	10/16/24 14:02	1

Lab Sample ID: MB 240-630837/2-A
Matrix: Solid
Analysis Batch: 631309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		10/15/24 14:00	10/17/24 12:02	1

Lab Sample ID: LCS 240-630837/4-A
Matrix: Solid
Analysis Batch: 631164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.103		mg/L		103	80 - 120
Arsenic	1.00	1.07		mg/L		107	80 - 120
Barium	1.00	0.976		mg/L		98	80 - 120
Beryllium	0.500	0.490		mg/L		98	80 - 120
Cadmium	0.500	0.478		mg/L		96	80 - 120
Chromium	0.500	0.483		mg/L		97	80 - 120
Copper	0.500	0.518		mg/L		104	80 - 120
Iron	5.00	4.82		mg/L		96	80 - 120
Lead	0.500	0.481		mg/L		96	80 - 120
Manganese	0.500	0.512		mg/L		102	80 - 120
Nickel	0.500	0.525		mg/L		105	80 - 120
Selenium	1.00	0.993		mg/L		99	80 - 120
Silver	0.100	0.0973		mg/L		97	80 - 120
Zinc	0.500	0.537		mg/L		107	80 - 120
Vanadium	0.500	0.494		mg/L		99	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-630837/4-A
Matrix: Solid
Analysis Batch: 631309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	1.00	1.23	*+	mg/L		123	80 - 120

Lab Sample ID: MB 240-640413/2-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640413

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00057		0.0020	0.00057	mg/L		12/31/24 14:00	01/02/25 14:24	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:24	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:24	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:24	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:24	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:24	1
Vanadium	<0.00082		0.020	0.00082	mg/L		12/31/24 14:00	01/02/25 14:24	1

Lab Sample ID: LCS 240-640413/4-A
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.103		mg/L		103	80 - 120
Copper	0.500	0.520		mg/L		104	80 - 120
Iron	5.00	5.23		mg/L		105	80 - 120
Selenium	1.00	0.984		mg/L		98	80 - 120
Silver	0.100	0.102		mg/L		102	80 - 120
Thallium	1.00	1.08		mg/L		108	80 - 120
Vanadium	0.500	0.507		mg/L		101	80 - 120

Lab Sample ID: LCS 500-802849/2-A
Matrix: Solid
Analysis Batch: 803094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.0989		mg/L		99	80 - 120

Lab Sample ID: LCS 500-802853/15-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.126	*+	mg/L		126	80 - 120

Lab Sample ID: LCS 500-802853/2-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.125	*+	mg/L		125	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-802855/2-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802855

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Thallium			0.100	0.108		mg/L		108	80 - 120		

Lab Sample ID: LB 240-630763/1-B
Matrix: Solid
Analysis Batch: 631164

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630837

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/15/24 14:00	10/16/24 13:59	1
Arsenic	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 13:59	1
Barium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 13:59	1
Beryllium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 13:59	1
Cadmium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 13:59	1
Chromium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 13:59	1
Copper	<0.0020		0.0020		mg/L		10/15/24 14:00	10/16/24 13:59	1
Iron	<0.10		0.10		mg/L		10/15/24 14:00	10/16/24 13:59	1
Lead	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 13:59	1
Manganese	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 13:59	1
Nickel	0.00339		0.0020		mg/L		10/15/24 14:00	10/16/24 13:59	1
Selenium	<0.0050		0.0050		mg/L		10/15/24 14:00	10/16/24 13:59	1
Silver	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 13:59	1
Zinc	<0.020		0.020		mg/L		10/15/24 14:00	10/16/24 13:59	1
Vanadium	<0.020		0.020		mg/L		10/15/24 14:00	10/16/24 13:59	1

Lab Sample ID: LB 240-630763/1-B
Matrix: Solid
Analysis Batch: 631309

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630837

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		10/15/24 14:00	10/17/24 11:59	1

Lab Sample ID: 500-256719-7 MS
Matrix: Solid
Analysis Batch: 631164

Client Sample ID: SB90 (0-3)
Prep Type: TCLP
Prep Batch: 630837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	0.0025		0.100	0.106		mg/L		103	50 - 150		
Arsenic	<0.0050		1.00	1.07		mg/L		107	50 - 150		
Barium	0.31		1.00	1.29		mg/L		98	50 - 150		
Beryllium	<0.0010		0.500	0.493		mg/L		99	50 - 150		
Cadmium	<0.0010		0.500	0.465		mg/L		93	50 - 150		
Chromium	0.027		0.500	0.502		mg/L		95	50 - 150		
Copper	0.0037		0.500	0.512		mg/L		102	50 - 150		
Iron	<0.10		5.00	4.77		mg/L		94	50 - 150		
Lead	<0.0010		0.500	0.462		mg/L		92	50 - 150		
Manganese	2.8		0.500	3.38	4	mg/L		114	50 - 150		
Nickel	0.016	B	0.500	0.532		mg/L		103	50 - 150		
Selenium	<0.0050		1.00	0.984		mg/L		98	50 - 150		
Silver	<0.0010		0.100	0.0978		mg/L		98	50 - 150		
Zinc	<0.020		0.500	0.478		mg/L		96	50 - 150		

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-256719-7 MS
Matrix: Solid
Analysis Batch: 631164

Client Sample ID: SB90 (0-3)
Prep Type: TCLP
Prep Batch: 630837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	0.16		0.500	0.651		mg/L		99	50 - 150

Lab Sample ID: 500-256719-7 MS
Matrix: Solid
Analysis Batch: 631309

Client Sample ID: SB90 (0-3)
Prep Type: TCLP
Prep Batch: 630837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	<0.0020	*+	1.00	1.23		mg/L		123	50 - 150

Lab Sample ID: 500-256719-7 MSD
Matrix: Solid
Analysis Batch: 631164

Client Sample ID: SB90 (0-3)
Prep Type: TCLP
Prep Batch: 630837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0025		0.100	0.105		mg/L		103	50 - 150	1	20
Arsenic	<0.0050		1.00	1.08		mg/L		108	50 - 150	1	20
Barium	0.31		1.00	1.30		mg/L		98	50 - 150	0	20
Beryllium	<0.0010		0.500	0.499		mg/L		100	50 - 150	1	20
Cadmium	<0.0010		0.500	0.470		mg/L		94	50 - 150	1	20
Chromium	0.027		0.500	0.501		mg/L		95	50 - 150	0	20
Copper	0.0037		0.500	0.511		mg/L		102	50 - 150	0	20
Iron	<0.10		5.00	4.81		mg/L		95	50 - 150	1	20
Lead	<0.0010		0.500	0.459		mg/L		92	50 - 150	1	20
Manganese	2.8		0.500	3.35	4	mg/L		109	50 - 150	1	20
Nickel	0.016	B	0.500	0.534		mg/L		104	50 - 150	0	20
Selenium	<0.0050		1.00	1.01		mg/L		100	50 - 150	2	20
Silver	<0.0010		0.100	0.0984		mg/L		98	50 - 150	1	20
Zinc	<0.020		0.500	0.482		mg/L		96	50 - 150	1	20
Vanadium	0.16		0.500	0.643		mg/L		97	50 - 150	1	20

Lab Sample ID: 500-256719-7 MSD
Matrix: Solid
Analysis Batch: 631309

Client Sample ID: SB90 (0-3)
Prep Type: TCLP
Prep Batch: 630837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	<0.0020	*+	1.00	1.23		mg/L		123	50 - 150	0	20

Lab Sample ID: LB 240-640349/1-B
Matrix: Solid
Analysis Batch: 640570

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 640413

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00057		0.0020	0.00057	mg/L		12/31/24 14:00	01/02/25 14:21	1
Copper	<0.0017		0.0020	0.0017	mg/L		12/31/24 14:00	01/02/25 14:21	1
Iron	<0.047		0.10	0.047	mg/L		12/31/24 14:00	01/02/25 14:21	1
Selenium	<0.00089		0.0050	0.00089	mg/L		12/31/24 14:00	01/02/25 14:21	1
Silver	<0.000053		0.0010	0.000053	mg/L		12/31/24 14:00	01/02/25 14:21	1
Thallium	<0.00051		0.0020	0.00051	mg/L		12/31/24 14:00	01/02/25 14:21	1
Vanadium	<0.00082		0.020	0.00082	mg/L		12/31/24 14:00	01/02/25 14:21	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-256719-5 MS
Client Sample ID: SB89 (0-3)
Matrix: Solid
Prep Type: TCLP
Analysis Batch: 640570
Prep Batch: 640413

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0020		0.100	0.102		mg/L		100	50 - 150
Copper	0.0072		0.500	0.510		mg/L		101	50 - 150
Iron	<0.047		5.00	5.00		mg/L		100	50 - 150
Selenium	0.0020	J	1.00	0.946		mg/L		94	50 - 150
Silver	<0.000053		0.100	0.0978		mg/L		98	50 - 150
Thallium	0.00055	J	1.00	1.05		mg/L		105	50 - 150
Vanadium	0.13		0.500	0.633		mg/L		100	50 - 150

Lab Sample ID: 500-256719-5 MSD
Client Sample ID: SB89 (0-3)
Matrix: Solid
Prep Type: TCLP
Analysis Batch: 640570
Prep Batch: 640413

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0020		0.100	0.103		mg/L		101	50 - 150	1	20
Copper	0.0072		0.500	0.510		mg/L		101	50 - 150	0	20
Iron	<0.047		5.00	4.89		mg/L		98	50 - 150	2	20
Selenium	0.0020	J	1.00	0.954		mg/L		95	50 - 150	1	20
Silver	<0.000053		0.100	0.0982		mg/L		98	50 - 150	0	20
Thallium	0.00055	J	1.00	1.05		mg/L		105	50 - 150	0	20
Vanadium	0.13		0.500	0.625		mg/L		99	50 - 150	1	20

Lab Sample ID: LB 500-802660/1-B
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: TCLP
Analysis Batch: 803093
Prep Batch: 802853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:24	01/15/25 22:25	1

Lab Sample ID: LB2 500-802689/1-B
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: TCLP
Analysis Batch: 803093
Prep Batch: 802853

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:24	01/15/25 23:42	1

Lab Sample ID: LB 500-802656/1-B
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: TCLP
Analysis Batch: 803093
Prep Batch: 802855

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 20:33	1

Lab Sample ID: 500-256719-12 MS
Client Sample ID: SB92 (3-5)
Matrix: Solid
Prep Type: TCLP
Analysis Batch: 803093
Prep Batch: 802855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	<0.00057		0.100	0.103		mg/L		103	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-256719-12 DU
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: SB92 (3-5)
Prep Type: TCLP
Prep Batch: 802855

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Thallium	<0.00057			<0.00057		mg/L				NC	20

Lab Sample ID: LB 500-802634/1-B
Matrix: Solid
Analysis Batch: 803094

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802849

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:21	01/15/25 18:48	1

Lab Sample ID: 500-256719-3 MS
Matrix: Solid
Analysis Batch: 803094

Client Sample ID: SB88 (0-3)
Prep Type: SPLP East
Prep Batch: 802849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Thallium	<0.00057		0.100	0.100		mg/L		100	75 - 125		

Lab Sample ID: 500-256719-3 DU
Matrix: Solid
Analysis Batch: 803094

Client Sample ID: SB88 (0-3)
Prep Type: SPLP East
Prep Batch: 802849

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Thallium	<0.00057			<0.00057		mg/L				NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-630840/2-A
Matrix: Solid
Analysis Batch: 631105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/15/24 14:00	10/16/24 12:19	1

Lab Sample ID: LCS 240-630840/3-A
Matrix: Solid
Analysis Batch: 631105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630840

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00500	0.00486		mg/L		97	80 - 120		

Lab Sample ID: LB 240-630763/1-C
Matrix: Solid
Analysis Batch: 631105

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630840

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020		mg/L		10/15/24 14:00	10/16/24 12:17	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 500-256719-7 MS
Matrix: Solid
Analysis Batch: 631105

Client Sample ID: SB90 (0-3)
Prep Type: TCLP
Prep Batch: 630840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.0020	H	0.00500	0.00479		mg/L		96	80 - 120

Lab Sample ID: 500-256719-7 MSD
Matrix: Solid
Analysis Batch: 631105

Client Sample ID: SB90 (0-3)
Prep Type: TCLP
Prep Batch: 630840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.0020	H	0.00500	0.00475		mg/L		95	80 - 120	1	20

Metals

Leach Batch: 630763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-5	SB89 (0-3)	TCLP	Solid	1311	
500-256719-6	SB89 (3-5)	TCLP	Solid	1311	
500-256719-7	SB90 (0-3)	TCLP	Solid	1311	
500-256719-9	SB91 (0-3)	TCLP	Solid	1311	
LB 240-630763/1-B	Method Blank	TCLP	Solid	1311	
LB 240-630763/1-C	Method Blank	TCLP	Solid	1311	
500-256719-7 MS	SB90 (0-3)	TCLP	Solid	1311	
500-256719-7 MSD	SB90 (0-3)	TCLP	Solid	1311	

Prep Batch: 630837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-5	SB89 (0-3)	TCLP	Solid	3010A	630763
500-256719-6	SB89 (3-5)	TCLP	Solid	3010A	630763
500-256719-7	SB90 (0-3)	TCLP	Solid	3010A	630763
500-256719-9	SB91 (0-3)	TCLP	Solid	3010A	630763
LB 240-630763/1-B	Method Blank	TCLP	Solid	3010A	630763
MB 240-630837/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630837/3-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 240-630837/4-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256719-7 MS	SB90 (0-3)	TCLP	Solid	3010A	630763
500-256719-7 MSD	SB90 (0-3)	TCLP	Solid	3010A	630763

Prep Batch: 630840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-7	SB90 (0-3)	TCLP	Solid	7470A	630763
500-256719-9	SB91 (0-3)	TCLP	Solid	7470A	630763
LB 240-630763/1-C	Method Blank	TCLP	Solid	7470A	630763
MB 240-630840/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 240-630840/3-A	Lab Control Sample	Total/NA	Solid	7470A	
500-256719-7 MS	SB90 (0-3)	TCLP	Solid	7470A	630763
500-256719-7 MSD	SB90 (0-3)	TCLP	Solid	7470A	630763

Analysis Batch: 631105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-7	SB90 (0-3)	TCLP	Solid	7470A	630840
500-256719-9	SB91 (0-3)	TCLP	Solid	7470A	630840
LB 240-630763/1-C	Method Blank	TCLP	Solid	7470A	630840
MB 240-630840/2-A	Method Blank	Total/NA	Solid	7470A	630840
LCS 240-630840/3-A	Lab Control Sample	Total/NA	Solid	7470A	630840
500-256719-7 MS	SB90 (0-3)	TCLP	Solid	7470A	630840
500-256719-7 MSD	SB90 (0-3)	TCLP	Solid	7470A	630840

Analysis Batch: 631164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-7	SB90 (0-3)	TCLP	Solid	6020B	630837
500-256719-9	SB91 (0-3)	TCLP	Solid	6020B	630837
LB 240-630763/1-B	Method Blank	TCLP	Solid	6020B	630837
MB 240-630837/2-A	Method Blank	Total/NA	Solid	6020B	630837
LCS 240-630837/4-A	Lab Control Sample	Total/NA	Solid	6020B	630837
500-256719-7 MS	SB90 (0-3)	TCLP	Solid	6020B	630837
500-256719-7 MSD	SB90 (0-3)	TCLP	Solid	6020B	630837

Metals

Analysis Batch: 631202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-5	SB89 (0-3)	TCLP	Solid	6010D	630837
500-256719-6	SB89 (3-5)	TCLP	Solid	6010D	630837
LB 240-630763/1-B	Method Blank	TCLP	Solid	6010D	630837
MB 240-630837/2-A	Method Blank	Total/NA	Solid	6010D	630837
LCS 240-630837/3-A	Lab Control Sample	Total/NA	Solid	6010D	630837

Analysis Batch: 631309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-7	SB90 (0-3)	TCLP	Solid	6020B	630837
LB 240-630763/1-B	Method Blank	TCLP	Solid	6020B	630837
MB 240-630837/2-A	Method Blank	Total/NA	Solid	6020B	630837
LCS 240-630837/4-A	Lab Control Sample	Total/NA	Solid	6020B	630837
500-256719-7 MS	SB90 (0-3)	TCLP	Solid	6020B	630837
500-256719-7 MSD	SB90 (0-3)	TCLP	Solid	6020B	630837

Leach Batch: 632368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-7	SB90 (0-3)	SPLP East	Solid	1312	
LB 240-632368/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 632464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-7	SB90 (0-3)	SPLP East	Solid	3010A	632368
LB 240-632368/1-B	Method Blank	SPLP East	Solid	3010A	632368
MB 240-632464/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-632464/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 632866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-7	SB90 (0-3)	SPLP East	Solid	6010D	632464
LB 240-632368/1-B	Method Blank	SPLP East	Solid	6010D	632464
MB 240-632464/2-A	Method Blank	Total/NA	Solid	6010D	632464
LCS 240-632464/3-A	Lab Control Sample	Total/NA	Solid	6010D	632464

Leach Batch: 635599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-6	SB89 (3-5)	SPLP East	Solid	1312	
LB 240-635599/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 635687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-6	SB89 (3-5)	SPLP East	Solid	3010A	635599
LB 240-635599/1-B	Method Blank	SPLP East	Solid	3010A	635599
MB 240-635687/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-635687/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 635822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-6	SB89 (3-5)	SPLP East	Solid	6010D	635687
LB 240-635599/1-B	Method Blank	SPLP East	Solid	6010D	635687
MB 240-635687/2-A	Method Blank	Total/NA	Solid	6010D	635687

Metals (Continued)

Analysis Batch: 635822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-635687/3-A	Lab Control Sample	Total/NA	Solid	6010D	635687

Leach Batch: 640187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-5	SB89 (0-3)	SPLP East	Solid	1312	
500-256719-9	SB91 (0-3)	SPLP East	Solid	1312	
LB 240-640187/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 640243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-5	SB89 (0-3)	SPLP East	Solid	3010A	640187
500-256719-9	SB91 (0-3)	SPLP East	Solid	3010A	640187
LB 240-640187/1-B	Method Blank	SPLP East	Solid	3010A	640187
MB 240-640243/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640243/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Leach Batch: 640349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-5	SB89 (0-3)	TCLP	Solid	1311	
LB 240-640349/1-B	Method Blank	TCLP	Solid	EPA 1311	
500-256719-5 MS	SB89 (0-3)	TCLP	Solid	1311	
500-256719-5 MSD	SB89 (0-3)	TCLP	Solid	1311	

Prep Batch: 640413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-5	SB89 (0-3)	TCLP	Solid	3010A	640349
LB 240-640349/1-B	Method Blank	TCLP	Solid	3010A	640349
MB 240-640413/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-640413/4-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256719-5 MS	SB89 (0-3)	TCLP	Solid	3010A	640349
500-256719-5 MSD	SB89 (0-3)	TCLP	Solid	3010A	640349

Analysis Batch: 640423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-5	SB89 (0-3)	SPLP East	Solid	6010D	640243
500-256719-9	SB91 (0-3)	SPLP East	Solid	6010D	640243
LB 240-640187/1-B	Method Blank	SPLP East	Solid	6010D	640243
MB 240-640243/2-A	Method Blank	Total/NA	Solid	6010D	640243
LCS 240-640243/3-A	Lab Control Sample	Total/NA	Solid	6010D	640243

Analysis Batch: 640570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-5	SB89 (0-3)	TCLP	Solid	6020B	640413
LB 240-640349/1-B	Method Blank	TCLP	Solid	6020B	640413
MB 240-640413/2-A	Method Blank	Total/NA	Solid	6020B	640413
LCS 240-640413/4-A	Lab Control Sample	Total/NA	Solid	6020B	640413
500-256719-5 MS	SB89 (0-3)	TCLP	Solid	6020B	640413
500-256719-5 MSD	SB89 (0-3)	TCLP	Solid	6020B	640413

Metals

Leach Batch: 796654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-8	SB90 (7.5-10)	TCLP	Solid	1311	
LB 500-796654/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 797105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-8	SB90 (7.5-10)	TCLP	Solid	3010A	796654
LB 500-796654/1-B	Method Blank	TCLP	Solid	3010A	796654
LCS 500-797105/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 797315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-8	SB90 (7.5-10)	TCLP	Solid	6010D	797105
LB 500-796654/1-B	Method Blank	TCLP	Solid	6010D	797105
LCS 500-797105/2-A	Lab Control Sample	Total/NA	Solid	6010D	797105

Leach Batch: 802634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	SPLP East	Solid	1312	
500-256719-3	SB88 (0-3)	SPLP East	Solid	EPA 1312	
LB 500-802634/1-B	Method Blank	SPLP East	Solid	1312	
500-256719-3 MS	SB88 (0-3)	SPLP East	Solid	EPA 1312	
500-256719-3 DU	SB88 (0-3)	SPLP East	Solid	EPA 1312	

Leach Batch: 802656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-12	SB92 (3-5)	TCLP	Solid	EPA 1311	
LB 500-802656/1-B	Method Blank	TCLP	Solid	EPA 1311	
500-256719-12 MS	SB92 (3-5)	TCLP	Solid	EPA 1311	
500-256719-12 DU	SB92 (3-5)	TCLP	Solid	EPA 1311	

Leach Batch: 802660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-10	SB91 (12.5-15)	TCLP	Solid	EPA 1311	
500-256719-11	SB92 (0-3)	TCLP	Solid	EPA 1311	
LB 500-802660/1-B	Method Blank	TCLP	Solid	EPA 1311	

Leach Batch: 802689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	TCLP	Solid	EPA 1311	
LB2 500-802689/1-B	Method Blank	TCLP	Solid	EPA 1311	

Leach Batch: 802813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-4	SB88 (7.5-10)	SPLP East	Solid	EPA 1312	
500-256719-8	SB90 (7.5-10)	SPLP East	Solid	1312	
500-256719-10	SB91 (12.5-15)	SPLP East	Solid	1312	
500-256719-11	SB92 (0-3)	SPLP East	Solid	1312	
500-256719-12	SB92 (3-5)	SPLP East	Solid	1312	
LB 500-802813/1-B	Method Blank	SPLP East	Solid	1312	

Metals

Prep Batch: 802849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	SPLP East	Solid	3010A	802634
500-256719-3	SB88 (0-3)	SPLP East	Solid	3010A	802634
LB 500-802634/1-B	Method Blank	SPLP East	Solid	3010A	802634
LCS 500-802849/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256719-3 MS	SB88 (0-3)	SPLP East	Solid	3010A	802634
500-256719-3 DU	SB88 (0-3)	SPLP East	Solid	3010A	802634

Prep Batch: 802853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	TCLP	Solid	3010A	802689
500-256719-10	SB91 (12.5-15)	TCLP	Solid	3010A	802660
500-256719-11	SB92 (0-3)	TCLP	Solid	3010A	802660
LB 500-802660/1-B	Method Blank	TCLP	Solid	3010A	802660
LB2 500-802689/1-B	Method Blank	TCLP	Solid	3010A	802689
LCS 500-802853/15-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-802853/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 802855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-12	SB92 (3-5)	TCLP	Solid	3010A	802656
LB 500-802656/1-B	Method Blank	TCLP	Solid	3010A	802656
LCS 500-802855/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256719-12 MS	SB92 (3-5)	TCLP	Solid	3010A	802656
500-256719-12 DU	SB92 (3-5)	TCLP	Solid	3010A	802656

Prep Batch: 803012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-4	SB88 (7.5-10)	SPLP East	Solid	3010A	802813
500-256719-8	SB90 (7.5-10)	SPLP East	Solid	3010A	802813
500-256719-10	SB91 (12.5-15)	SPLP East	Solid	3010A	802813
500-256719-11	SB92 (0-3)	SPLP East	Solid	3010A	802813
500-256719-12	SB92 (3-5)	SPLP East	Solid	3010A	802813
LB 500-802813/1-B	Method Blank	SPLP East	Solid	3010A	802813
LCS 500-803012/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 803026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	SPLP East	Solid	6010D	802849
500-256719-1	SB87 (0-3)	TCLP	Solid	6010D	802853
500-256719-3	SB88 (0-3)	SPLP East	Solid	6010D	802849
500-256719-10	SB91 (12.5-15)	TCLP	Solid	6010D	802853
500-256719-11	SB92 (0-3)	TCLP	Solid	6010D	802853
LB 500-802634/1-B	Method Blank	SPLP East	Solid	6010D	802849
LB 500-802660/1-B	Method Blank	TCLP	Solid	6010D	802853
LB2 500-802689/1-B	Method Blank	TCLP	Solid	6010D	802853
LCS 500-802849/2-A	Lab Control Sample	Total/NA	Solid	6010D	802849
LCS 500-802853/15-A	Lab Control Sample	Total/NA	Solid	6010D	802853
LCS 500-802853/2-A	Lab Control Sample	Total/NA	Solid	6010D	802853
500-256719-3 MS	SB88 (0-3)	SPLP East	Solid	6010D	802849
500-256719-3 DU	SB88 (0-3)	SPLP East	Solid	6010D	802849

Metals

Analysis Batch: 803028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-12	SB92 (3-5)	TCLP	Solid	6010D	802855
LB 500-802656/1-B	Method Blank	TCLP	Solid	6010D	802855
LCS 500-802855/2-A	Lab Control Sample	Total/NA	Solid	6010D	802855
500-256719-12 MS	SB92 (3-5)	TCLP	Solid	6010D	802855
500-256719-12 DU	SB92 (3-5)	TCLP	Solid	6010D	802855

Analysis Batch: 803088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	TCLP	Solid	6010D	802853
LB 500-802660/1-B	Method Blank	TCLP	Solid	6010D	802853
LB2 500-802689/1-B	Method Blank	TCLP	Solid	6010D	802853
LCS 500-802853/15-A	Lab Control Sample	Total/NA	Solid	6010D	802853

Analysis Batch: 803093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-1	SB87 (0-3)	TCLP	Solid	6020B	802853
500-256719-10	SB91 (12.5-15)	TCLP	Solid	6020B	802853
500-256719-11	SB92 (0-3)	TCLP	Solid	6020B	802853
500-256719-12	SB92 (3-5)	TCLP	Solid	6020B	802855
LB 500-802656/1-B	Method Blank	TCLP	Solid	6020B	802855
LB 500-802660/1-B	Method Blank	TCLP	Solid	6020B	802853
LB2 500-802689/1-B	Method Blank	TCLP	Solid	6020B	802853
LCS 500-802853/15-A	Lab Control Sample	Total/NA	Solid	6020B	802853
LCS 500-802853/2-A	Lab Control Sample	Total/NA	Solid	6020B	802853
LCS 500-802855/2-A	Lab Control Sample	Total/NA	Solid	6020B	802855
500-256719-12 MS	SB92 (3-5)	TCLP	Solid	6020B	802855
500-256719-12 DU	SB92 (3-5)	TCLP	Solid	6020B	802855

Analysis Batch: 803094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-3	SB88 (0-3)	SPLP East	Solid	6020B	802849
LB 500-802634/1-B	Method Blank	SPLP East	Solid	6020B	802849
LCS 500-802849/2-A	Lab Control Sample	Total/NA	Solid	6020B	802849
500-256719-3 MS	SB88 (0-3)	SPLP East	Solid	6020B	802849
500-256719-3 DU	SB88 (0-3)	SPLP East	Solid	6020B	802849

Analysis Batch: 803182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-4	SB88 (7.5-10)	SPLP East	Solid	6010D	803012
500-256719-8	SB90 (7.5-10)	SPLP East	Solid	6010D	803012
500-256719-10	SB91 (12.5-15)	SPLP East	Solid	6010D	803012
500-256719-11	SB92 (0-3)	SPLP East	Solid	6010D	803012
500-256719-12	SB92 (3-5)	SPLP East	Solid	6010D	803012
LB 500-802813/1-B	Method Blank	SPLP East	Solid	6010D	803012
LCS 500-803012/2-A	Lab Control Sample	Total/NA	Solid	6010D	803012

Analysis Batch: 803241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256719-10	SB91 (12.5-15)	TCLP	Solid	6010D	802853
500-256719-11	SB92 (0-3)	TCLP	Solid	6010D	802853
LB 500-802660/1-B	Method Blank	TCLP	Solid	6010D	802853

Metals (Continued)

Analysis Batch: 803241 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-802853/2-A	Lab Control Sample	Total/NA	Solid	6010D	802853

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256719-5

Client Sample ID: SB87 (0-3)
Date Collected: 09/12/24 08:01
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 13:46
TCLP	Leach	EPA 1311			802689	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 12:40
TCLP	Leach	EPA 1311			802689	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6010D		5	803088	RB	EET CHI	01/15/25 19:03
TCLP	Leach	EPA 1311			802689	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 23:50

Client Sample ID: SB88 (0-3)
Date Collected: 09/12/24 08:47
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	EPA 1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 12:54
SPLP East	Leach	EPA 1312			802634	RJ	EET CHI	01/13/25 12:05 - 01/14/25 06:05 [1]
SPLP East	Prep	3010A			802849	S1Z	EET CHI	01/14/25 14:21 - 01/14/25 20:21 [1]
SPLP East	Analysis	6020B		1	803094	RN	EET CHI	01/15/25 18:53

Client Sample ID: SB88 (7.5-10)
Date Collected: 09/12/24 09:06
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	EPA 1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 11:50

Client Sample ID: SB89 (0-3)
Date Collected: 09/12/24 09:45
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			640187	KLE	EET CLE	12/29/24 16:00 - 12/30/24 08:35 [1]
SPLP East	Prep	3010A			640243	S4FJ	EET CLE	12/30/24 14:00
SPLP East	Analysis	6010D		1	640423	RKT	EET CLE	01/01/25 04:14
TCLP	Leach	1311			630763	DRJ	EET CLE	10/14/24 17:10 - 10/15/24 09:15 [1]
TCLP	Prep	3010A			630837	BN	EET CLE	10/15/24 14:00
TCLP	Analysis	6010D		1	631202	RKT	EET CLE	10/16/24 16:42

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB89 (0-3)
Lab Sample ID: 500-256719-5
Date Collected: 09/12/24 09:45
Matrix: Solid
Date Received: 09/13/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			640349	KLE	EET CLE	12/30/24 15:30 - 12/31/24 09:05 [1]
TCLP	Prep	3010A			640413	MN7X	EET CLE	12/31/24 14:00
TCLP	Analysis	6020B		1	640570	AJC	EET CLE	01/02/25 14:29

Client Sample ID: SB89 (3-5)
Lab Sample ID: 500-256719-6
Date Collected: 09/12/24 09:51
Matrix: Solid
Date Received: 09/13/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			635599	DRJ	EET CLE	11/17/24 15:05 - 11/18/24 09:00 [1]
SPLP East	Prep	3010A			635687	S4FJ	EET CLE	11/18/24 14:00
SPLP East	Analysis	6010D		1	635822	KLC	EET CLE	11/19/24 08:30
TCLP	Leach	1311			630763	DRJ	EET CLE	10/14/24 17:10 - 10/15/24 09:15 [1]
TCLP	Prep	3010A			630837	BN	EET CLE	10/15/24 14:00
TCLP	Analysis	6010D		1	631202	RKT	EET CLE	10/16/24 16:47

Client Sample ID: SB90 (0-3)
Lab Sample ID: 500-256719-7
Date Collected: 09/12/24 10:47
Matrix: Solid
Date Received: 09/13/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			632368	DRJ	EET CLE	10/24/24 17:15 - 10/25/24 09:25 [1]
SPLP East	Prep	3010A			632464	BN	EET CLE	10/25/24 14:00
SPLP East	Analysis	6010D		1	632866	RKT	EET CLE	10/29/24 07:09
TCLP	Leach	1311			630763	DRJ	EET CLE	10/14/24 17:10 - 10/15/24 09:15 [1]
TCLP	Prep	3010A			630837	BN	EET CLE	10/15/24 14:00
TCLP	Analysis	6020B		1	631164	AJC	EET CLE	10/16/24 14:07
TCLP	Leach	1311			630763	DRJ	EET CLE	10/14/24 17:10 - 10/15/24 09:15 [1]
TCLP	Prep	3010A			630837	BN	EET CLE	10/15/24 14:00
TCLP	Analysis	6020B		1	631309	AJC	EET CLE	10/17/24 12:10
TCLP	Leach	1311			630763	DRJ	EET CLE	10/14/24 17:10 - 10/15/24 09:15 [1]
TCLP	Prep	7470A			630840	BN	EET CLE	10/15/24 14:00
TCLP	Analysis	7470A		1	631105	TQ6W	EET CLE	10/16/24 12:27

Client Sample ID: SB90 (7.5-10)
Lab Sample ID: 500-256719-8
Date Collected: 09/12/24 11:11
Matrix: Solid
Date Received: 09/13/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 11:54
TCLP	Leach	1311			796654	PA	EET CHI	11/22/24 16:45 - 11/23/24 10:45 [1]
TCLP	Prep	3010A			797105	BDE	EET CHI	11/26/24 09:26 - 11/26/24 15:26 [1]
TCLP	Analysis	6010D		1	797315	SJ	EET CHI	11/26/24 23:44

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256719-5

Client Sample ID: SB91 (0-3)

Date Collected: 09/12/24 12:30
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			640187	KLE	EET CLE	12/29/24 16:00 - 12/30/24 08:35 [1]
SPLP East	Prep	3010A			640243	S4FJ	EET CLE	12/30/24 14:00
SPLP East	Analysis	6010D		1	640423	RKT	EET CLE	01/01/25 04:19
TCLP	Leach	1311			630763	DRJ	EET CLE	10/14/24 17:10 - 10/15/24 09:15 [1]
TCLP	Prep	3010A			630837	BN	EET CLE	10/15/24 14:00
TCLP	Analysis	6020B		1	631164	AJC	EET CLE	10/16/24 14:21
TCLP	Leach	1311			630763	DRJ	EET CLE	10/14/24 17:10 - 10/15/24 09:15 [1]
TCLP	Prep	7470A			630840	BN	EET CLE	10/15/24 14:00
TCLP	Analysis	7470A		1	631105	TQ6W	EET CLE	10/16/24 12:33

Client Sample ID: SB91 (12.5-15)

Date Collected: 09/12/24 12:57
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 11:59
TCLP	Leach	EPA 1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 12:22
TCLP	Leach	EPA 1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6010D		1	803241	RB	EET CHI	01/16/25 15:55
TCLP	Leach	EPA 1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 23:23

Client Sample ID: SB92 (0-3)

Date Collected: 09/12/24 13:44
Date Received: 09/13/24 12:00

Lab Sample ID: 500-256719-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 12:03
TCLP	Leach	EPA 1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6010D		1	803026	SJ	EET CHI	01/15/25 12:27
TCLP	Leach	EPA 1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6010D		1	803241	RB	EET CHI	01/16/25 16:00
TCLP	Leach	EPA 1311			802660	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802853	S1Z	EET CHI	01/14/25 14:24 - 01/14/25 20:24 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 23:27

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB92 (3-5)
Lab Sample ID: 500-256719-12

Date Collected: 09/12/24 13:52
Matrix: Solid

Date Received: 09/13/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 12:07
TCLP	Leach	EPA 1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6010D		1	803028	SJ	EET CHI	01/15/25 13:22
TCLP	Leach	EPA 1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 20:41

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	02-13-25

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
1311	TCLP Extraction	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CLE
1312	SPLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE
EPA 1311	TCLP Extraction	SW846	EET CHI
EPA 1312	SPLP Extraction	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256719-5
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256719-1	SB87 (0-3)	Solid	09/12/24 08:01	09/13/24 12:00
500-256719-3	SB88 (0-3)	Solid	09/12/24 08:47	09/13/24 12:00
500-256719-4	SB88 (7.5-10)	Solid	09/12/24 09:06	09/13/24 12:00
500-256719-5	SB89 (0-3)	Solid	09/12/24 09:45	09/13/24 12:00
500-256719-6	SB89 (3-5)	Solid	09/12/24 09:51	09/13/24 12:00
500-256719-7	SB90 (0-3)	Solid	09/12/24 10:47	09/13/24 12:00
500-256719-8	SB90 (7.5-10)	Solid	09/12/24 11:11	09/13/24 12:00
500-256719-9	SB91 (0-3)	Solid	09/12/24 12:30	09/13/24 12:00
500-256719-10	SB91 (12.5-15)	Solid	09/12/24 12:57	09/13/24 12:00
500-256719-11	SB92 (0-3)	Solid	09/12/24 13:44	09/13/24 12:00
500-256719-12	SB92 (3-5)	Solid	09/12/24 13:52	09/13/24 12:00

Chain of Custody Record 720438

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hamrock	Site Contact	Date	COC No
Company Name: PIONEER	Tel/Email: JHARBOUGH@PIONEER	Lab Contact:	Carrier:	1 of 1 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only.
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name: 8080 S Lake Shore Dr	☐ 1 week			
Site	☐ 2 days			Job / SDG No
P O #	☐ 1 day			500-256719

500-256719 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCE	PH	Sample Specific Notes
1	SB87 (0-3)	9/12/24	801	G	SO	4			X	X	
2	SB87 (3-5)	↓	806	↓	↓	↓			↓	↓	
3	SB88 (0-3)	↓	847	↓	↓	↓			↓	↓	
4	SB88 (7.5-10)	↓	906	↓	↓	↓			↓	↓	
5	SB89 (0-3)	↓	945	↓	↓	↓			↓	↓	
6	SB89 (3-5)	↓	951	↓	↓	↓			↓	↓	
7	SB90 (0-3)	↓	1047	↓	↓	↓			↓	↓	
8	SB90 (7.5-10)	↓	1111	↓	↓	↓			↓	↓	
9	SB91 (0-3)	↓	1230	↓	↓	↓			↓	↓	
10	SB91 (12.5-15)	↓	1257	↓	↓	↓			↓	↓	
11	SB92 (0-3)	↓	144	↓	↓	↓			↓	↓	
12	SB92 (3-5)	↓	152	↓	↓	↓			↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

3.1 → 2.8 48QT

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	9/13/24	[signature]	EETA	9/13/24 0930
[signature]	EETA	9/13/24 1200			
			Received in Laboratory by: Stephanie Hernandez	EETA	9/13/24 1200

4/14/2025

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256719-5

Login Number: 256719
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802634 Batch Start Date: 01/13/20 12:05 Batch Analyst: Johnson, Robert

Batch Method: 1312 Batch End Date: 01/14/25 06:05

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	LeachatepH			
LB 500-802634/1		1312, 3010A, 6010D			N/A g	2000 mL	6.18 SU			
500-256719-D-1	SB87 (0-3)	1312, 3010A, 6010D	Solid	E	100.07 g	2000 mL	10.28 SU			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802634 Batch Start Date: 01/13/20 12:05 Batch Analyst: Johnson, Robert

Batch Method: 1312 Batch End Date: 01/14/25 06:05

Batch Notes	
First Start time	01/13/2025 12:05
First End time	01/14/2025 06:05
Uncorrected Minimum Temperature	18.9 Celsius
Minimum Temperature	18.4 Celsius
Uncorrected Maximum Temperature	21.0 Celsius
Maximum Temperature	20.2 Celsius
Rotator ID	TCLP 1
Tumbler Rotations per Minute	29 RPMs
Balance ID	3444
Balance is Level? (Y/N)	yes
pH Meter ID	3446
Water Bath Thermometer ID	1013326
Water Bath ID	3442
Water Bath Temperature	50.0 Degrees C
pH Meter Calibration Slope	96.9
pH Buffer 1 ID	2306H17 (2.0)
pH Buffer 2 ID	4306H66 (4.0)
pH Buffer 3 ID	4310F03 (7.0)
pH Buffer 4 ID	4306K13 (10.0)
Lot # of Nitric Acid	234171
Analyst ID - Spike Analyst	TRJ
Analyst ID - Spike Witness Analyst	RJJ
Analyst ID - Filtration	TRJ
Filtration Date	01/14/25
Batch Comment	SPLP SOLUTION PH: 4.18 & 4.22

Basis	Basis Description
E	SPLP East

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802634 Batch Start Date: 01/13/20 12:05 Batch Analyst: Johnson, Robert

Batch Method: EPA 1312 Batch End Date: 01/14/25 06:05

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	LeachatepH			
500-256719-D-3	SB88 (0-3)	EPA 1312, 3010A, 6010D	Solid	E	100.03 g	2000 mL	9.48 SU			

Batch Notes	
First Start time	01/13/2025 12:05
First End time	01/14/2025 06:05
Uncorrected Minimum Temperature	18.9 Celsius
Minimum Temperature	18.4 Celsius
Uncorrected Maximum Temperature	21.0 Celsius
Maximum Temperature	20.2 Celsius
Rotator ID	TCLP 1
Tumbler Rotations per Minute	29 RPMs
Balance ID	3444
Balance is Level? (Y/N)	yes
pH Meter ID	3446
Water Bath Thermometer ID	1013326
Water Bath ID	3442
Water Bath Temperature	50.0 Degrees C
pH Meter Calibration Slope	96.9
pH Buffer 1 ID	2306H17 (2.0)
pH Buffer 2 ID	4306H66 (4.0)
pH Buffer 3 ID	4310F03 (7.0)
pH Buffer 4 ID	4306K13 (10.0)
Lot # of Nitric Acid	234171
Analyst ID - Spike Analyst	TRJ
Analyst ID - Spike Witness Analyst	RJJ
Analyst ID - Filtration	TRJ
Filtration Date	01/14/25
Batch Comment	SPLP SOLUTION PH: 4.18 & 4.22

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802634 Batch Start Date: 01/13/20 12:05 Batch Analyst: Johnson, Robert

Batch Method: EPA 1312 Batch End Date: 01/14/25 06:05

Basis	Basis Description
E	SPLP East

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802656 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	EFD_SampleWeight	EFD_VolumeWaterAdd	EFD_InitialpH	SampTemppH1
LB 500-802656/1		EPA 1311, 3010A, 6010D			N/A g	2000 mL	N/A g	N/A mL	N/A SU	N/A Degrees C
500-256719-D-12	SB92 (3-5)	EPA 1311, 3010A, 6010D	Solid	P	100.23 g	2000 mL	5.05 g	96.5 mL	9.58 SU	50 Degrees C

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	LeachatepH	AnalysisComment	
LB 500-802656/1		EPA 1311, 3010A, 6010D			N/A	N/A	N/A SU	4.92 SU	TCLP BUFFER #1 PH:4.94	
500-256719-D-12	SB92 (3-5)	EPA 1311, 3010A, 6010D	Solid	P	3.5	10	2.23 SU	9.48 SU	TCLP BUFFER #1 PH:4.94	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802656 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Batch Notes	
Hot Plate ID	3084
Thermometer ID	1015898
First Start time	01/13/2025 15:27
First End time	01/14/2025 09:27
Rotator ID	TCLP 2
Tumbler Rotations per Minute	29 RPMs
Balance ID	3444
Balance is Level? (Y/N)	yes
pH Meter ID	3446
pH Meter Calibration Slope	96.9
Room Temperature Thermometer ID	3524
Water Bath Thermometer ID	1013326
Water Bath ID	3442
Uncorrected Water Bath Temperature	51 Celsius
Water Bath Temperature	50 Degrees C
TCLP Fluid 1 ID	MADE DAILY
pH Buffer 1 ID	2306H17 (2.0)
pH Buffer 2 ID	4306H66 (4.0)
pH Buffer 3 ID	4310F03 (7.0)
pH Buffer 4 ID	4306K13 (10.0)
Lot # of Nitric Acid	234171
Uncorrected Maximum Temperature	20.4 Degrees C
Maximum Temperature	19.3 Degrees C
Uncorrected Minimum Temperature	20.3 Degrees C
Minimum Temperature	19.0 Degrees C
Analyst ID - Spike Analyst	JVL
Analyst ID - Spike Witness Analyst	TRJ
Room Temperature during Rotation	20.5 Degrees C
Uncorrected Room Temperature	19.4 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802656 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Analyst ID - Filtration	RJJ
Filtration Date	01/14/24

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802660 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	EFD_SampleWeight	EFD_VolumeWaterAdd	EFD_InitialpH	SampTemppH1
LB 500-802660/1		EPA 1311, 3010A, 6010D			N/A g	2000 mL	N/A g	N/A mL	N/A SU	N/A Degrees C
500-256719-D-10	SB91 (12.5-15)	EPA 1311, 3010A, 6010D	Solid	P	99.98 g	2000 mL	5.02 g	96.5 mL	9.80 SU	50 Degrees C
500-256719-D-11	SB92 (0-3)	EPA 1311, 3010A, 6010D	Solid	P	100.06 g	2000 mL	5.25 g	96.5 mL	9.63 SU	50 Degrees C

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	LeachatepH	AnalysisComment	
LB 500-802660/1		EPA 1311, 3010A, 6010D			N/A	N/A	N/A SU	5.01 SU	TCLP BUFFER #1 PH:4.94	
500-256719-D-10	SB91 (12.5-15)	EPA 1311, 3010A, 6010D	Solid	P	3.5	10	2.35 SU	7.96 SU	TCLP BUFFER #1 PH:4.94	
500-256719-D-11	SB92 (0-3)	EPA 1311, 3010A, 6010D	Solid	P	3.5	10	2.19 SU	8.12 SU	TCLP BUFFER #1 PH:4.94	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802660 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Batch Notes	
Hot Plate ID	3084
Thermometer ID	1015898
First Start time	01/13/2025 15:27
First End time	01/14/2025 09:27
Rotator ID	TCLP 2
Tumbler Rotations per Minute	29 RPMs
Balance ID	3444
Balance is Level? (Y/N)	yes
pH Meter ID	3446
pH Meter Calibration Slope	96.9
Room Temperature Thermometer ID	3524
Water Bath Thermometer ID	1013326
Water Bath ID	3442
Uncorrected Water Bath Temperature	51 Celsius
Water Bath Temperature	50 Degrees C
TCLP Fluid 1 ID	MADE DAILY
pH Buffer 1 ID	2306H17 (2.0)
pH Buffer 2 ID	4306H66 (4.0)
pH Buffer 3 ID	4310F03 (7.0)
pH Buffer 4 ID	4306K13 (10.0)
Lot # of Nitric Acid	234171
Uncorrected Maximum Temperature	20.4 Degrees C
Maximum Temperature	19.3 Degrees C
Uncorrected Minimum Temperature	20.3 Degrees C
Minimum Temperature	19.0 Degrees C
Analyst ID - Spike Analyst	JVL
Analyst ID - Spike Witness Analyst	TRJ
Room Temperature during Rotation	20.5 Degrees C
Uncorrected Room Temperature	19.4 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802660 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Analyst ID - Filtration	RJJ
Filtration Date	01/14/24

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802689 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	EFD_SampleWeight	EFD_VolumeWaterAdd	EFD_InitialpH	SampTemppH1
LB2 500-802689/1		EPA 1311, 3010A, 6010D			N/A g	2000 mL	N/A g	N/A mL	N/A SU	N/A Degrees C
500-256719-D-1	SB87 (0-3)	EPA 1311, 3010A, 6010D	Solid	P	100.02 g	2000 mL	5.46 g	96.5 mL	9.36 SU	50 Degrees C

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	LeachatepH	AnalysisComment	
LB2 500-802689/1		EPA 1311, 3010A, 6010D			N/A	N/A	N/A SU	3.03 SU	TCLP BUFFER #2 PH: 2.89	
500-256719-D-1	SB87 (0-3)	EPA 1311, 3010A, 6010D	Solid	P	3.5	10	5.35 SU	5.65 SU	TCLP BUFFER #2 PH: 2.89	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802689 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Batch Notes	
Hot Plate ID	3084
Thermometer ID	1015898
First Start time	01/13/2025 15:27
First End time	01/14/2025 09:27
Rotator ID	TCLP 2
Tumbler Rotations per Minute	29 RPMs
Balance ID	3444
Balance is Level? (Y/N)	yes
pH Meter ID	3446
pH Meter Calibration Slope	96.9
Room Temperature Thermometer ID	3524
Water Bath Thermometer ID	1013326
Water Bath ID	3442
Uncorrected Water Bath Temperature	51 Celsius
Water Bath Temperature	50 Degrees C
TCLP Fluid 1 ID	MADE DAILY
pH Buffer 1 ID	2306H17 (2.0)
pH Buffer 2 ID	4306H66 (4.0)
pH Buffer 3 ID	4310F03 (7.0)
pH Buffer 4 ID	4306K13 (10.0)
Lot # of Nitric Acid	234171
Uncorrected Maximum Temperature	20.4 Degrees C
Maximum Temperature	19.3 Degrees C
Uncorrected Minimum Temperature	20.3 Degrees C
Minimum Temperature	19.0 Degrees C
Analyst ID - Spike Analyst	JVL
Analyst ID - Spike Witness Analyst	TRJ
Room Temperature during Rotation	20.5 Degrees C
Uncorrected Room Temperature	19.4 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802689 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Analyst ID - Filtration	RJJ
Filtration Date	01/14/24

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802813 Batch Start Date: 01/14/25 13:50 Batch Analyst: Arroyo, Paula

Batch Method: 1312 Batch End Date: 01/15/25 07:50

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	LeachatepH			
LB 500-802813/1		1312, 3010A, 6010D			N/A g	2000 mL	4.94 SU			
500-256719-D-8	SB90 (7.5-10)	1312, 3010A, 6010D	Solid	E	100.01 g	2000 mL	10.19 SU			
500-256719-D-10	SB91 (12.5-15)	1312, 3010A, 6010D	Solid	E	100.10 g	2000 mL	10.48 SU			
500-256719-D-11	SB92 (0-3)	1312, 3010A, 6010D	Solid	E	100.25 g	2000 mL	10.60 SU			
500-256719-D-12	SB92 (3-5)	1312, 3010A, 6010D	Solid	E	100.00 g	2000 mL	10.66 SU			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802813 Batch Start Date: 01/14/25 13:50 Batch Analyst: Arroyo, Paula

Batch Method: 1312 Batch End Date: 01/15/25 07:50

Batch Notes	
First Start time	01/14/2025 13:50
First End time	01/15/2025 07:50
Uncorrected Minimum Temperature	19.2 Celsius
Minimum Temperature	18.7 Celsius
Uncorrected Maximum Temperature	20.5 Celsius
Maximum Temperature	19.7 Celsius
Rotator ID	TCLP 1
Tumbler Rotations per Minute	29 RPMs
Balance ID	3444
Balance is Level? (Y/N)	yes
pH Meter ID	3446
Water Bath Thermometer ID	1013326
Water Bath ID	3442
Water Bath Temperature	50.0 Degrees C
pH Meter Calibration Slope	96.0
pH Buffer 1 ID	2306H17 (2.0)
pH Buffer 2 ID	4306H66 (4.0)
pH Buffer 3 ID	4310F03 (7.0)
pH Buffer 4 ID	4306K13 (10.0)
Lot # of Nitric Acid	234171
Analyst ID - Spike Analyst	JVL/PRA
Analyst ID - Filtration	JVL.PRA
Filtration Date	01/15/25
Batch Comment	SPLP SOLUTION PH: 4.24; 4.18

Basis	Basis Description
E	SPLP East

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802813 Batch Start Date: 01/14/25 13:50 Batch Analyst: Arroyo, Paula

Batch Method: EPA 1312 Batch End Date: 01/15/25 07:50

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	LeachatepH			
500-256719-D-4	SB88 (7.5-10)	EPA 1312, 3010A, 6010D	Solid	E	100.01 g	2000 mL	9.78 SU			

Batch Notes	
First Start time	01/14/2025 13:50
First End time	01/15/2025 07:50
Uncorrected Minimum Temperature	19.2 Celsius
Minimum Temperature	18.7 Celsius
Uncorrected Maximum Temperature	20.5 Celsius
Maximum Temperature	19.7 Celsius
Rotator ID	TCLP 1
Tumbler Rotations per Minute	29 RPMs
Balance ID	3444
Balance is Level? (Y/N)	yes
pH Meter ID	3446
Water Bath Thermometer ID	1013326
Water Bath ID	3442
Water Bath Temperature	50.0 Degrees C
pH Meter Calibration Slope	96.0
pH Buffer 1 ID	2306H17 (2.0)
pH Buffer 2 ID	4306H66 (4.0)
pH Buffer 3 ID	4310F03 (7.0)
pH Buffer 4 ID	4306K13 (10.0)
Lot # of Nitric Acid	234171
Analyst ID - Spike Analyst	JVL/PRA
Analyst ID - Filtration	JVL.PRA
Filtration Date	01/15/25
Batch Comment	SPLP SOLUTION PH: 4.24; 4.18

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802813 Batch Start Date: 01/14/25 13:50 Batch Analyst: Arroyo, Paula

Batch Method: EPA 1312 Batch End Date: 01/15/25 07:50

Basis	Basis Description
E	SPLP East

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802849 Batch Start Date: 01/14/25 14:21 Batch Analyst: Ziviello, Sage 1

Batch Method: 3010A Batch End Date: 01/14/25 20:21

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	M24LSPKMS 00001			
LB 500-802634/1-A		3010A, 6010D			50 mL	50 mL				
LCS 500-802849/2		3010A, 6010D			50 mL	50 mL	0.5 mL			
500-256719-D-3-J	SB88 (0-3)	3010A, 6010D	Solid	E	50 mL	50 mL				
500-256719-D-3-J DU	SB88 (0-3)	3010A, 6010D		E	50 mL	50 mL				
500-256719-D-3-J MS	SB88 (0-3)	3010A, 6010D		E	50 mL	50 mL	0.5 mL			
500-256719-D-1-I	SB87 (0-3)	3010A, 6010D	Solid	E	50 mL	50 mL				

Batch Notes	
Balance is Level? (Y/N)	yes
Digestion Tube/Cup ID	LV24080204
Pipette/Syringe/Dispenser ID	2850
Sufficient Volume for Batch QC	Yes
Hydrochloric Acid ID	241929
Nitric Acid ID	243700
Digestion Unit ID	1565
Thermometer ID	10150208
Thermometer Location ID	4.5
Temperature - Uncorrected - Start	98 Degrees C
Temperature - Corrected - Start	98 Degrees C
Digestion Start Time	01/14/2025 14:21
Digestion End Time	01/14/2025 20:21
Temperature - Uncorrected - End	98 Degrees C
Temperature - Corrected - End	98 Degrees C
Pipette Tip Lot ID	M210381I
Batch Comment	634

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802849 Batch Start Date: 01/14/25 14:21 Batch Analyst: Ziviello, Sage 1

Batch Method: 3010A Batch End Date: 01/14/25 20:21

Basis	Basis Description
E	SPLP East

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802853 Batch Start Date: 01/14/25 14:24 Batch Analyst: Ziviello, Sage 1

Batch Method: 3010A Batch End Date: 01/14/25 20:24

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	M24LSPKMS 00001			
LB 500-802660/1-A		3010A, 6010D			50 mL	50 mL				
LCS 500-802853/2		3010A, 6010D			50 mL	50 mL	0.5 mL			
500-256719-D-10 -E	SB91 (12.5-15)	3010A, 6010D	Solid	P	50 mL	50 mL				
500-256719-D-11 -G	SB92 (0-3)	3010A, 6010D	Solid	P	50 mL	50 mL				
LB2 500-802689/1-A		3010A, 6010D			50 mL	50 mL				
LCS 500-802853/15		3010A, 6010D			50 mL	50 mL	0.5 mL			
500-256719-D-1- K	SB87 (0-3)	3010A, 6010D	Solid	P	50 mL	50 mL				

Batch Notes	
Balance is Level? (Y/N)	yes
Digestion Tube/Cup ID	LV24080204
Pipette/Syringe/Dispenser ID	2850
Sufficient Volume for Batch QC	Yes
Hydrochloric Acid ID	241929
Nitric Acid ID	243700
Digestion Unit ID	1565
Thermometer ID	10150208
Thermometer Location ID	4.5
Temperature - Uncorrected - Start	98 Degrees C
Temperature - Corrected - Start	98 Degrees C
Digestion Start Time	01/14/2025 14:24
Digestion End Time	01/14/2025 20:24
Temperature - Uncorrected - End	98 Degrees C
Temperature - Corrected - End	98 Degrees C
Pipette Tip Lot ID	M210381I
Batch Comment	660, 689

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802853 Batch Start Date: 01/14/25 14:24 Batch Analyst: Ziviello, Sage 1

Batch Method: 3010A Batch End Date: 01/14/25 20:24

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802855 Batch Start Date: 01/14/25 14:26 Batch Analyst: Ziviello, Sage 1

Batch Method: 3010A Batch End Date: 01/14/25 20:26

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	M24LSPKMS 00001			
LB 500-802656/1-A		3010A, 6010D			50 mL	50 mL				
LCS 500-802855/2		3010A, 6010D			50 mL	50 mL	0.5 mL			
500-256719-D-12 -E	SB92 (3-5)	3010A, 6010D	Solid	P	50 mL	50 mL				
500-256719-D-12 -E DU	SB92 (3-5)	3010A, 6010D		P	50 mL	50 mL				
500-256719-D-12 -E MS	SB92 (3-5)	3010A, 6010D		P	50 mL	50 mL	0.5 mL			

Batch Notes	
Balance is Level? (Y/N)	yes
Digestion Tube/Cup ID	LV24080204
Pipette/Syringe/Dispenser ID	2850
Sufficient Volume for Batch QC	Yes
Hydrochloric Acid ID	241929
Nitric Acid ID	243700
Digestion Unit ID	1565
Thermometer ID	10150208
Thermometer Location ID	4.5
Temperature - Uncorrected - Start	98 Degrees C
Temperature - Corrected - Start	98 Degrees C
Digestion Start Time	01/14/2025 14:26
Digestion End Time	01/14/2025 20:26
Temperature - Uncorrected - End	98 Degrees C
Temperature - Corrected - End	98 Degrees C
Pipette Tip Lot ID	M210381I
Batch Comment	656

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 803012 Batch Start Date: 01/15/25 14:14 Batch Analyst: Ziviello, Sage 1

Batch Method: 3010A Batch End Date: 01/15/25 20:14

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	M24LSPKMS 00001			
LB 500-802813/1-A		3010A, 6010D			50 mL	50 mL				
LCS 500-803012/2		3010A, 6010D			50 mL	50 mL	0.5 mL			
500-256719-D-4-F	SB88 (7.5-10)	3010A, 6010D	Solid	E	50 mL	50 mL				
500-256719-D-8-L	SB90 (7.5-10)	3010A, 6010D	Solid	E	50 mL	50 mL				
500-256719-D-10-F	SB91 (12.5-15)	3010A, 6010D	Solid	E	50 mL	50 mL				
500-256719-D-11-H	SB92 (0-3)	3010A, 6010D	Solid	E	50 mL	50 mL				
500-256719-D-12-F	SB92 (3-5)	3010A, 6010D	Solid	E	50 mL	50 mL				

Batch Notes	
Balance is Level? (Y/N)	yes
Digestion Tube/Cup ID	LV24080204
Pipette/Syringe/Dispenser ID	2850
Sufficient Volume for Batch QC	Yes
Hydrochloric Acid ID	241929
Nitric Acid ID	243700
Digestion Unit ID	2602
Thermometer ID	1740
Thermometer Location ID	2.5
Temperature - Uncorrected - Start	101 Degrees C
Temperature - Corrected - Start	100 Degrees C
Digestion Start Time	01/15/2025 14:14
Digestion End Time	01/15/2025 20:14
Temperature - Uncorrected - End	101 Degrees C
Temperature - Corrected - End	100 Degrees C
Pipette Tip Lot ID	M210381I
Batch Comment	813

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 803012 Batch Start Date: 01/15/25 14:14 Batch Analyst: Ziviello, Sage 1

Batch Method: 3010A Batch End Date: 01/15/25 20:14

Basis	Basis Description
E	SPLP East

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802634 Batch Start Date: 01/13/20 12:05 Batch Analyst: Johnson, Robert

Batch Method: 1312 Batch End Date: 01/14/25 06:05

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	LeachatepH			
LB 500-802634/1		1312, 3010A, 6020B			N/A g	2000 mL	6.18 SU			

Batch Notes	
First Start time	01/13/2025 12:05
First End time	01/14/2025 06:05
Uncorrected Minimum Temperature	18.9 Celsius
Minimum Temperature	18.4 Celsius
Uncorrected Maximum Temperature	21.0 Celsius
Maximum Temperature	20.2 Celsius
Rotator ID	TCLP 1
Tumbler Rotations per Minute	29 RPMs
Balance ID	3444
Balance is Level? (Y/N)	yes
pH Meter ID	3446
Water Bath Thermometer ID	1013326
Water Bath ID	3442
Water Bath Temperature	50.0 Degrees C
pH Meter Calibration Slope	96.9
pH Buffer 1 ID	2306H17 (2.0)
pH Buffer 2 ID	4306H66 (4.0)
pH Buffer 3 ID	4310F03 (7.0)
pH Buffer 4 ID	4306K13 (10.0)
Lot # of Nitric Acid	234171
Analyst ID - Spike Analyst	TRJ
Analyst ID - Spike Witness Analyst	RJJ
Analyst ID - Filtration	TRJ
Filtration Date	01/14/25
Batch Comment	SPLP SOLUTION PH: 4.18 & 4.22

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802634 Batch Start Date: 01/13/20 12:05 Batch Analyst: Johnson, Robert

Batch Method: 1312 Batch End Date: 01/14/25 06:05

Basis	Basis Description
E	SPLP East

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802634 Batch Start Date: 01/13/20 12:05 Batch Analyst: Johnson, Robert

Batch Method: EPA 1312 Batch End Date: 01/14/25 06:05

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	LeachatepH			
500-256719-D-3	SB88 (0-3)	EPA 1312, 3010A, 6020B	Solid	E	100.03 g	2000 mL	9.48 SU			

Batch Notes	
First Start time	01/13/2025 12:05
First End time	01/14/2025 06:05
Uncorrected Minimum Temperature	18.9 Celsius
Minimum Temperature	18.4 Celsius
Uncorrected Maximum Temperature	21.0 Celsius
Maximum Temperature	20.2 Celsius
Rotator ID	TCLP 1
Tumbler Rotations per Minute	29 RPMs
Balance ID	3444
Balance is Level? (Y/N)	yes
pH Meter ID	3446
Water Bath Thermometer ID	1013326
Water Bath ID	3442
Water Bath Temperature	50.0 Degrees C
pH Meter Calibration Slope	96.9
pH Buffer 1 ID	2306H17 (2.0)
pH Buffer 2 ID	4306H66 (4.0)
pH Buffer 3 ID	4310F03 (7.0)
pH Buffer 4 ID	4306K13 (10.0)
Lot # of Nitric Acid	234171
Analyst ID - Spike Analyst	TRJ
Analyst ID - Spike Witness Analyst	RJJ
Analyst ID - Filtration	TRJ
Filtration Date	01/14/25
Batch Comment	SPLP SOLUTION PH: 4.18 & 4.22

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802634 Batch Start Date: 01/13/20 12:05 Batch Analyst: Johnson, Robert

Batch Method: EPA 1312 Batch End Date: 01/14/25 06:05

Basis	Basis Description
E	SPLP East

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802656 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	EFD_SampleWeight	EFD_VolumeWaterAdd	EFD_InitialpH	SampTemppH1
LB 500-802656/1		EPA 1311, 3010A, 6020B			N/A g	2000 mL	N/A g	N/A mL	N/A SU	N/A Degrees C
500-256719-D-12	SB92 (3-5)	EPA 1311, 3010A, 6020B	Solid	P	100.23 g	2000 mL	5.05 g	96.5 mL	9.58 SU	50 Degrees C

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	LeachatepH	AnalysisComment	
LB 500-802656/1		EPA 1311, 3010A, 6020B			N/A	N/A	N/A SU	4.92 SU	TCLP BUFFER #1 PH:4.94	
500-256719-D-12	SB92 (3-5)	EPA 1311, 3010A, 6020B	Solid	P	3.5	10	2.23 SU	9.48 SU	TCLP BUFFER #1 PH:4.94	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802656 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Batch Notes	
Hot Plate ID	3084
Thermometer ID	1015898
First Start time	01/13/2025 15:27
First End time	01/14/2025 09:27
Rotator ID	TCLP 2
Tumbler Rotations per Minute	29 RPMs
Balance ID	3444
Balance is Level? (Y/N)	yes
pH Meter ID	3446
pH Meter Calibration Slope	96.9
Room Temperature Thermometer ID	3524
Water Bath Thermometer ID	1013326
Water Bath ID	3442
Uncorrected Water Bath Temperature	51 Celsius
Water Bath Temperature	50 Degrees C
TCLP Fluid 1 ID	MADE DAILY
pH Buffer 1 ID	2306H17 (2.0)
pH Buffer 2 ID	4306H66 (4.0)
pH Buffer 3 ID	4310F03 (7.0)
pH Buffer 4 ID	4306K13 (10.0)
Lot # of Nitric Acid	234171
Uncorrected Maximum Temperature	20.4 Degrees C
Maximum Temperature	19.3 Degrees C
Uncorrected Minimum Temperature	20.3 Degrees C
Minimum Temperature	19.0 Degrees C
Analyst ID - Spike Analyst	JVL
Analyst ID - Spike Witness Analyst	TRJ
Room Temperature during Rotation	20.5 Degrees C
Uncorrected Room Temperature	19.4 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802656 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Analyst ID - Filtration	RJJ
Filtration Date	01/14/24

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802660 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	EFD_SampleWeight	EFD_VolumeWaterAdd	EFD_InitialpH	SampTemppH1
LB 500-802660/1		EPA 1311, 3010A, 6020B			N/A g	2000 mL	N/A g	N/A mL	N/A SU	N/A Degrees C
500-256719-D-10	SB91 (12.5-15)	EPA 1311, 3010A, 6020B	Solid	P	99.98 g	2000 mL	5.02 g	96.5 mL	9.80 SU	50 Degrees C
500-256719-D-11	SB92 (0-3)	EPA 1311, 3010A, 6020B	Solid	P	100.06 g	2000 mL	5.25 g	96.5 mL	9.63 SU	50 Degrees C

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	LeachatepH	AnalysisComment	
LB 500-802660/1		EPA 1311, 3010A, 6020B			N/A	N/A	N/A SU	5.01 SU	TCLP BUFFER #1 PH:4.94	
500-256719-D-10	SB91 (12.5-15)	EPA 1311, 3010A, 6020B	Solid	P	3.5	10	2.35 SU	7.96 SU	TCLP BUFFER #1 PH:4.94	
500-256719-D-11	SB92 (0-3)	EPA 1311, 3010A, 6020B	Solid	P	3.5	10	2.19 SU	8.12 SU	TCLP BUFFER #1 PH:4.94	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802660 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Batch Notes	
Hot Plate ID	3084
Thermometer ID	1015898
First Start time	01/13/2025 15:27
First End time	01/14/2025 09:27
Rotator ID	TCLP 2
Tumbler Rotations per Minute	29 RPMs
Balance ID	3444
Balance is Level? (Y/N)	yes
pH Meter ID	3446
pH Meter Calibration Slope	96.9
Room Temperature Thermometer ID	3524
Water Bath Thermometer ID	1013326
Water Bath ID	3442
Uncorrected Water Bath Temperature	51 Celsius
Water Bath Temperature	50 Degrees C
TCLP Fluid 1 ID	MADE DAILY
pH Buffer 1 ID	2306H17 (2.0)
pH Buffer 2 ID	4306H66 (4.0)
pH Buffer 3 ID	4310F03 (7.0)
pH Buffer 4 ID	4306K13 (10.0)
Lot # of Nitric Acid	234171
Uncorrected Maximum Temperature	20.4 Degrees C
Maximum Temperature	19.3 Degrees C
Uncorrected Minimum Temperature	20.3 Degrees C
Minimum Temperature	19.0 Degrees C
Analyst ID - Spike Analyst	JVL
Analyst ID - Spike Witness Analyst	TRJ
Room Temperature during Rotation	20.5 Degrees C
Uncorrected Room Temperature	19.4 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802660 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Analyst ID - Filtration	RJJ
Filtration Date	01/14/24

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802689 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	EFD_SampleWeight	EFD_VolumeWaterAdd	EFD_InitialpH	SampTemppH1
LB2 500-802689/1		EPA 1311, 3010A, 6020B			N/A g	2000 mL	N/A g	N/A mL	N/A SU	N/A Degrees C
500-256719-D-1	SB87 (0-3)	EPA 1311, 3010A, 6020B	Solid	P	100.02 g	2000 mL	5.46 g	96.5 mL	9.36 SU	50 Degrees C

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	LeachatepH	AnalysisComment	
LB2 500-802689/1		EPA 1311, 3010A, 6020B			N/A	N/A	N/A SU	3.03 SU	TCLP BUFFER #2 PH: 2.89	
500-256719-D-1	SB87 (0-3)	EPA 1311, 3010A, 6020B	Solid	P	3.5	10	5.35 SU	5.65 SU	TCLP BUFFER #2 PH: 2.89	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802689 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Batch Notes	
Hot Plate ID	3084
Thermometer ID	1015898
First Start time	01/13/2025 15:27
First End time	01/14/2025 09:27
Rotator ID	TCLP 2
Tumbler Rotations per Minute	29 RPMs
Balance ID	3444
Balance is Level? (Y/N)	yes
pH Meter ID	3446
pH Meter Calibration Slope	96.9
Room Temperature Thermometer ID	3524
Water Bath Thermometer ID	1013326
Water Bath ID	3442
Uncorrected Water Bath Temperature	51 Celsius
Water Bath Temperature	50 Degrees C
TCLP Fluid 1 ID	MADE DAILY
pH Buffer 1 ID	2306H17 (2.0)
pH Buffer 2 ID	4306H66 (4.0)
pH Buffer 3 ID	4310F03 (7.0)
pH Buffer 4 ID	4306K13 (10.0)
Lot # of Nitric Acid	234171
Uncorrected Maximum Temperature	20.4 Degrees C
Maximum Temperature	19.3 Degrees C
Uncorrected Minimum Temperature	20.3 Degrees C
Minimum Temperature	19.0 Degrees C
Analyst ID - Spike Analyst	JVL
Analyst ID - Spike Witness Analyst	TRJ
Room Temperature during Rotation	20.5 Degrees C
Uncorrected Room Temperature	19.4 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802689 Batch Start Date: 01/13/25 15:27 Batch Analyst: Johnson, Robert

Batch Method: EPA 1311 Batch End Date: 01/14/25 09:27

Analyst ID - Filtration	RJJ
Filtration Date	01/14/24

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802849 Batch Start Date: 01/14/25 14:21 Batch Analyst: Ziviello, Sage 1

Batch Method: 3010A Batch End Date: 01/14/25 20:21

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	M24LSPKMS 00001			
LB 500-802634/1-A		3010A, 6020B			50 mL	50 mL				
LCS 500-802849/2		3010A, 6020B			50 mL	50 mL	0.5 mL			
500-256719-D-3-J	SB88 (0-3)	3010A, 6020B	Solid	E	50 mL	50 mL				
500-256719-D-3-J DU	SB88 (0-3)	3010A, 6020B		E	50 mL	50 mL				
500-256719-D-3-J MS	SB88 (0-3)	3010A, 6020B		E	50 mL	50 mL	0.5 mL			

Batch Notes	
Balance is Level? (Y/N)	yes
Digestion Tube/Cup ID	LV24080204
Pipette/Syringe/Dispenser ID	2850
Sufficient Volume for Batch QC	Yes
Hydrochloric Acid ID	241929
Nitric Acid ID	243700
Digestion Unit ID	1565
Thermometer ID	10150208
Thermometer Location ID	4.5
Temperature - Uncorrected - Start	98 Degrees C
Temperature - Corrected - Start	98 Degrees C
Digestion Start Time	01/14/2025 14:21
Digestion End Time	01/14/2025 20:21
Temperature - Uncorrected - End	98 Degrees C
Temperature - Corrected - End	98 Degrees C
Pipette Tip Lot ID	M210381I
Batch Comment	634

Basis	Basis Description
E	SPLP East

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802853 Batch Start Date: 01/14/25 14:24 Batch Analyst: Ziviello, Sage 1

Batch Method: 3010A Batch End Date: 01/14/25 20:24

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	M24LSPKMS 00001			
LB 500-802660/1-A		3010A, 6020B			50 mL	50 mL				
LCS 500-802853/2		3010A, 6020B			50 mL	50 mL	0.5 mL			
500-256719-D-10 -E	SB91 (12.5-15)	3010A, 6020B	Solid	P	50 mL	50 mL				
500-256719-D-11 -G	SB92 (0-3)	3010A, 6020B	Solid	P	50 mL	50 mL				
LB2 500-802689/1-A		3010A, 6020B			50 mL	50 mL				
LCS 500-802853/15		3010A, 6020B			50 mL	50 mL	0.5 mL			
500-256719-D-1- K	SB87 (0-3)	3010A, 6020B	Solid	P	50 mL	50 mL				

Batch Notes	
Balance is Level? (Y/N)	yes
Digestion Tube/Cup ID	LV24080204
Pipette/Syringe/Dispenser ID	2850
Sufficient Volume for Batch QC	Yes
Hydrochloric Acid ID	241929
Nitric Acid ID	243700
Digestion Unit ID	1565
Thermometer ID	10150208
Thermometer Location ID	4.5
Temperature - Uncorrected - Start	98 Degrees C
Temperature - Corrected - Start	98 Degrees C
Digestion Start Time	01/14/2025 14:24
Digestion End Time	01/14/2025 20:24
Temperature - Uncorrected - End	98 Degrees C
Temperature - Corrected - End	98 Degrees C
Pipette Tip Lot ID	M210381I
Batch Comment	660, 689

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802853 Batch Start Date: 01/14/25 14:24 Batch Analyst: Ziviello, Sage 1

Batch Method: 3010A Batch End Date: 01/14/25 20:24

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-256719-5

SDG No.:

Batch Number: 802855 Batch Start Date: 01/14/25 14:26 Batch Analyst: Ziviello, Sage 1

Batch Method: 3010A Batch End Date: 01/14/25 20:26

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	M24LSPKMS 00001			
LB 500-802656/1-A		3010A, 6020B			50 mL	50 mL				
LCS 500-802855/2		3010A, 6020B			50 mL	50 mL	0.5 mL			
500-256719-D-12 -E	SB92 (3-5)	3010A, 6020B	Solid	P	50 mL	50 mL				
500-256719-D-12 -E DU	SB92 (3-5)	3010A, 6020B		P	50 mL	50 mL				
500-256719-D-12 -E MS	SB92 (3-5)	3010A, 6020B		P	50 mL	50 mL	0.5 mL			

Batch Notes	
Balance is Level? (Y/N)	yes
Digestion Tube/Cup ID	LV24080204
Pipette/Syringe/Dispenser ID	2850
Sufficient Volume for Batch QC	Yes
Hydrochloric Acid ID	241929
Nitric Acid ID	243700
Digestion Unit ID	1565
Thermometer ID	10150208
Thermometer Location ID	4.5
Temperature - Uncorrected - Start	98 Degrees C
Temperature - Corrected - Start	98 Degrees C
Digestion Start Time	01/14/2025 14:26
Digestion End Time	01/14/2025 20:26
Temperature - Uncorrected - End	98 Degrees C
Temperature - Corrected - End	98 Degrees C
Pipette Tip Lot ID	M210381I
Batch Comment	656

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Cleveland Job No.: 500-256719-5

SDG No.:

Batch Number: 640187 Batch Start Date: 12/29/24 16:00 Batch Analyst: Etling, Krystle L

Batch Method: 1312 Batch End Date: 12/30/24 08:35

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	EXSPLPEFLUID 00537	EXTCLPFILTERS 00074	EXTCLPPlastic 00030	AnalysisComment		
LB 240-640187/1		1312, 3010A, 6010D			1 mL	1	1	SPLP EAST		
500-256719-D-5	SB89 (0-3)	1312, 3010A, 6010D	Solid	E	1 mL	1	1			
500-256719-D-9	SB91 (0-3)	1312, 3010A, 6010D	Solid	E	1 mL	1	1			

Batch Notes	
Rotator ID	F C = 31 rpm

Basis	Basis Description
E	SPLP East

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Cleveland Job No.: 500-256719-5

SDG No.:

Batch Number: 640243 Batch Start Date: 12/30/24 14:00 Batch Analyst: Wise, Katherine

Batch Method: 3010A Batch End Date: 12/30/24 22:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ICPspike3 00059	MT1to1HCL 00153	MTTMHNO3 00370	SPIKE1 00031
LB 240-640187/1-A		3010A, 6010D			50 mL	50 mL		5 mL	3 mL	
MB 240-640243/2		3010A, 6010D			50 mL	50 mL		5 mL	3 mL	
LCS 240-640243/3		3010A, 6010D			50 mL	50 mL	0.5 mL	5 mL	3 mL	0.5 mL
500-256719-D-5-H	SB89 (0-3)	3010A, 6010D	Solid	E	50 mL	50 mL		5 mL	3 mL	
500-256719-D-9-H	SB91 (0-3)	3010A, 6010D	Solid	E	50 mL	50 mL		5 mL	3 mL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	SPIKE2 00022					
LB 240-640187/1-A		3010A, 6010D								
MB 240-640243/2		3010A, 6010D								
LCS 240-640243/3		3010A, 6010D			0.5 mL					
500-256719-D-5-H	SB89 (0-3)	3010A, 6010D	Solid	E						
500-256719-D-9-H	SB91 (0-3)	3010A, 6010D	Solid	E						

Batch Notes	
pH Indicator ID	HC447997
Digestion Tube/Cup ID	LV24080204
Pipette/Syringe/Dispenser ID	MP1/MP3
Digestion Unit ID	HB3/HB2
Thermometer ID	temp log
Thermometer Location ID	temp log
Temperature - Uncorrected - Start	93/90 Degrees C
Temperature - Corrected - Start	92/91 Degrees C
Temperature - Uncorrected - End	timer Degrees C
Temperature - Corrected - End	timer Degrees C
Filter ID	30908102

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Cleveland Job No.: 500-256719-5

SDG No.:

Batch Number: 640243 Batch Start Date: 12/30/24 14:00 Batch Analyst: Wise, Katherine

Batch Method: 3010A Batch End Date: 12/30/24 22:00

Basis	Basis Description
E	SPLP East

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Cleveland Job No.: 500-256719-5

SDG No.:

Batch Number: 640349 Batch Start Date: 12/30/24 15:30 Batch Analyst: Etling, Krystle L

Batch Method: 1311 Batch End Date: 12/31/24 09:05

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	expH(0-14) 00052	EXTCLPBUFF2 01915	EXTCLPFILTERS 00074	EXTCLPHClW 00081	EXTCLPPlastic 00030	
500-256719-D-5	SB89 (0-3)	1311, 3010A, 6020B	Solid	P	1 No Unit	1 mL	1	1 mL	1	

Batch Notes	
Rotator ID	E = 31 RPM

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Cleveland Job No.: 500-256719-5

SDG No.:

Batch Number: 640349 Batch Start Date: 12/30/24 15:30 Batch Analyst: Etling, Krystle L

Batch Method: EPA 1311 Batch End Date: 12/31/24 09:05

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	expH(0-14) 00052	EXTCLPBUFF2 01915	EXTCLPFILTERS 00074	EXTCLPHClW 00081	EXTCLPPlastic 00030	
LB 240-640349/1		EPA 1311, 3010A, 6020B			1 No Unit	1 mL	1	1 mL	1	

Batch Notes	
Rotator ID	E = 31 RPM

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Cleveland Job No.: 500-256719-5

SDG No.:

Batch Number: 640413 Batch Start Date: 12/31/24 14:00 Batch Analyst: Hammer, Matigan

Batch Method: 3010A Batch End Date: 12/31/24 22:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ICPMSspike3 00034	MT1to1HCL 00153	MTTMHNO3 00370	SPIKE1 00031
LB 240-640349/1-A		3010A, 6020B			50 mL	50 mL		5 mL	3 mL	
MB 240-640413/2		3010A, 6020B			50 mL	50 mL		5 mL	3 mL	
LCS 240-640413/4		3010A, 6020B			50 mL	50 mL	0.25 mL	5 mL	3 mL	0.25 mL
500-256719-D-5-J	SB89 (0-3)	3010A, 6020B	Solid	P	50 mL	50 mL		5 mL	3 mL	
500-256719-D-5-J MS	SB89 (0-3)	3010A, 6020B		P	50 mL	50 mL	0.25 mL	5 mL	3 mL	0.25 mL
500-256719-D-5-J MSD	SB89 (0-3)	3010A, 6020B		P	50 mL	50 mL	0.25 mL	5 mL	3 mL	0.25 mL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	SPIKE2 00022	TungstenSpike 00112				
LB 240-640349/1-A		3010A, 6020B								
MB 240-640413/2		3010A, 6020B								
LCS 240-640413/4		3010A, 6020B			0.25 mL	0.25 mL				
500-256719-D-5-J	SB89 (0-3)	3010A, 6020B	Solid	P						
500-256719-D-5-J MS	SB89 (0-3)	3010A, 6020B		P	0.25 mL	0.25 mL				
500-256719-D-5-J MSD	SB89 (0-3)	3010A, 6020B		P	0.25 mL	0.25 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Cleveland Job No.: 500-256719-5

SDG No.:

Batch Number: 640413 Batch Start Date: 12/31/24 14:00 Batch Analyst: Hammer, Matigan

Batch Method: 3010A Batch End Date: 12/31/24 22:00

Batch Notes	
pH Indicator ID	HC447997
Digestion Tube/Cup ID	LV24080204
Pipette/Syringe/Dispenser ID	MP1 MP3
Digestion Unit ID	c4
Thermometer ID	temp log
Thermometer Location ID	temp log
Temperature - Uncorrected - Start	95 Degrees C
Temperature - Corrected - Start	95 Degrees C
Temperature - Uncorrected - End	timer Degrees C
Temperature - Corrected - End	timer Degrees C
Filter ID	30908102

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/14/2025 5:19:05 PM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256860-5

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
4/14/2025 5:19:05 PM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
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(630)758-0262

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Job ID: 500-256860-2 — Eurofins Chicago

Job Narrative
500-256860-2

Revision
The report being provided is a revision of the original report sent on 10/30/2024. The report (revision 1) is being revised due to: Add TCLP Be, Cd, Cr, Fe, Pb, Ni, Se to SB97 (5-7.5) per client request.

Receipt
The samples were received on 9/17/2024 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256860-3 — Eurofins Chicago

Job Narrative
500-256860-3

Revision
The report being provided is a revision of the original report sent on 12/2/2024. The report (revision 2) is being revised due to: Add TCLP Mn per client request.

Report revision history
Revision 1 - 1/21/2025 - Reason - Add TCLP Be, Cr, Cu, Fe, Ni, Se, Tl to SB97 (0-3) per client request.

Receipt
The samples were received on 9/17/2024 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

Metals
Method 6010D: The sample result recovered slightly more negative than the reporting limit for lead. The result was not greater than two times the reporting limit. The samples has been qualified and reported.

SB97 (0-3) (500-256860-9)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-256860-4 — Eurofins Chicago

Job Narrative
500-256860-4

Revision
The report being provided is a revision of the original report sent on 12/11/2024. The report (revision 1) is being revised due to: Add SPLP Mn to SB97 (0-3) per client request.

Receipt
The samples were received on 9/17/2024 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256860-5 — Eurofins Chicago

Job Narrative
500-256860-5

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 2) is being revised due to: Add SPLP Mn to SB95 (5-7.5) per client request.

Report revision history
Revision 1 - 1/29/2025 - Reason - Add additional SPLP analytes per client request.

Receipt
The samples were received on 9/17/2024 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

Metals
Method 1312: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 500-802813, the temperature was outside of this range. As a result, the test was not compliant with the requirements of 40 CFR Part 261.

Method 1312: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 500-802828, the temperature was outside of this range. As a result, the test was not compliant with the requirements of 40 CFR Part 261.

Method 6010D:

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-256860-6 Eurofins Chicago

Job Narrative
500-256860-6

Receipt
The samples were received on 9/17/2024 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256860-7 — Eurofins Chicago

Job Narrative
500-256860-7

Receipt
The samples were received on 9/17/2024 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB93 (0-3) — Lab Sample ID: 500-256860-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2.1		0.20	0.20	mg/L	1		6010D	TCLP
Lead	0.13		0.0075	0.0075	mg/L	1		6010D	TCLP
Lead	0.022		0.0075	0.0075	mg/L	1		6010D	SPLP East
Manganese	0.094		0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0042	J	0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB93 (5-7.5) — Lab Sample ID: 500-256860-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1.3	F1	0.20		mg/L	1		6010D	TCLP
Manganese	0.61		0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0026	J	0.0060	0.0013	mg/L	1		6020B	SPLP East

Client Sample ID: SB94 (0-3) — Lab Sample ID: 500-256860-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.048		0.025	0.010	mg/L	1		6010D	TCLP
Iron	4.4		0.20	0.20	mg/L	1		6010D	TCLP
Lead	0.026		0.0075	0.0075	mg/L	1		6010D	TCLP
Vanadium	0.12		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.070	J	0.10	0.020	mg/L	1		6010D	TCLP
Vanadium	0.14		0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0038	J	0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB94 (12.5-15) — Lab Sample ID: 500-256860-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.027		0.025	0.010	mg/L	1		6010D	SPLP East
Iron	5.1		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.22		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB95 (0-3) — Lab Sample ID: 500-256860-5

No Detections.

Client Sample ID: SB95 (5-7.5) — Lab Sample ID: 500-256860-6

No Detections.

Client Sample ID: SB96 (0-3) — Lab Sample ID: 500-256860-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1.3		0.20	0.20	mg/L	1		6010D	TCLP
Vanadium	0.079		0.025	0.010	mg/L	1		6010D	TCLP
Vanadium	0.092		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB96 (7.5-10) — Lab Sample ID: 500-256860-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.034		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB97 (0-3) — Lab Sample ID: 500-256860-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.42		0.20		mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB97 (0-3) (Continued) — Lab Sample ID: 500-256860-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	10		0.025		mg/L	1		6010D	TCLP
Antimony	0.016		0.0060		mg/L	1		6020B	TCLP
Antimony	0.0095		0.0060		mg/L	1		6020B	SPLP East
Manganese	1.3		0.0025		mg/L	1		6020B	SPLP East

Client Sample ID: SB97 (5-7.5) — Lab Sample ID: 500-256860-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.030		0.025		mg/L	1		6010D	TCLP
Iron	3.4		0.20		mg/L	1		6010D	TCLP
Lead	0.017		0.0075		mg/L	1		6010D	TCLP
Lead	0.017		0.0075	0.0075	mg/L	1		6010D	SPLP East
Manganese	0.24		0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.011		0.0060	0.0013	mg/L	1		6020B	TCLP
Antimony	0.0068		0.0060	0.0013	mg/L	1		6020B	SPLP East

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256860-1	SB93 (0-3)	Solid	09/16/24 09:00	09/17/24 12:30
500-256860-2	SB93 (5-7.5)	Solid	09/16/24 09:09	09/17/24 12:30
500-256860-3	SB94 (0-3)	Solid	09/16/24 10:04	09/17/24 12:30
500-256860-4	SB94 (12.5-15)	Solid	09/16/24 10:27	09/17/24 12:30
500-256860-5	SB95 (0-3)	Solid	09/16/24 11:17	09/17/24 12:30
500-256860-6	SB95 (5-7.5)	Solid	09/16/24 11:36	09/17/24 12:30
500-256860-7	SB96 (0-3)	Solid	09/16/24 13:18	09/17/24 12:30
500-256860-8	SB96 (7.5-10)	Solid	09/16/24 13:44	09/17/24 12:30
500-256860-9	SB97 (0-3)	Solid	09/16/24 14:30	09/17/24 12:30
500-256860-10	SB97 (5-7.5)	Solid	09/16/24 14:59	09/17/24 12:30

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB93 (0-3)
Lab Sample ID: 500-256860-1
Date Collected: 09/16/24 09:00
Matrix: Solid
Date Received: 09/17/24 12:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:40	1
Iron	**2.1**		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 13:40	1
Lead	**0.13**		0.0075	0.0075	mg/L		01/14/25 14:26	01/15/25 13:40	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 13:40	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.022**		0.0075	0.0075	mg/L		01/15/25 14:14	01/16/25 12:12	1
Manganese	**0.094**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:12	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0042**	**J**	0.0060	0.0013	mg/L		01/14/25 14:26	01/15/25 20:56	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 20:56	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB93 (5-7.5)
Lab Sample ID: 500-256860-2
Date Collected: 09/16/24 09:09
Matrix: Solid
Date Received: 09/17/24 12:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.3**	**F1**	0.20		mg/L		10/29/24 14:15	10/30/24 12:04	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:04	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.61**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:16	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:14	01/16/25 12:16	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0026**	**J**	0.0060	0.0013	mg/L		01/15/25 14:14	01/16/25 15:56	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:14	01/16/25 15:56	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB94 (0-3)
Lab Sample ID: 500-256860-3

Date Collected: 09/16/24 10:04
Matrix: Solid
Date Received: 09/17/24 12:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:26	01/15/25 13:45	1
Chromium	**0.048**		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:45	1
Iron	**4.4**		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 13:45	1
Lead	**0.026**		0.0075	0.0075	mg/L		01/14/25 14:26	01/15/25 13:45	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:45	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 13:45	1
Vanadium	**0.12**		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:45	1
Zinc	**0.070**	**J**	0.10	0.020	mg/L		01/14/25 14:26	01/15/25 13:45	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:29	1
Vanadium	**0.14**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:29	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0038**	**J**	0.0060	0.0013	mg/L		01/14/25 14:26	01/15/25 21:00	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 21:00	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB94 (12.5-15)
Lab Sample ID: 500-256860-4
Date Collected: 09/16/24 10:27
Matrix: Solid
Date Received: 09/17/24 12:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		03/03/25 08:20	03/06/25 02:52	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/25 14:14	01/16/25 12:20	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/15/25 14:14	01/16/25 12:20	1
Copper	**0.027**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:20	1
Iron	**5.1**		0.20	0.20	mg/L		01/15/25 14:14	01/16/25 12:20	1
Manganese	**0.22**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:20	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:14	01/16/25 12:20	1
Silver	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:20	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:14	01/16/25 15:59	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB95 (0-3)
Lab Sample ID: 500-256860-5

Date Collected: 09/16/24 11:17
Matrix: Solid
Date Received: 09/17/24 12:30

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/25 14:14	01/16/25 12:25	1
Chromium	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:25	1
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:14	01/16/25 12:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/15/25 14:14	01/16/25 12:25	1
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:25	1
Nickel	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:25	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:14	01/16/25 12:25	1
Silver	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:25	1
Zinc	<0.020		0.10	0.020	mg/L		01/15/25 14:14	01/16/25 12:25	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:14	01/16/25 16:03	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB95 (5-7.5)
Lab Sample ID: 500-256860-6
Date Collected: 09/16/24 11:36
Matrix: Solid
Date Received: 09/17/24 12:30

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/15/25 14:14	01/16/25 12:47	1
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:14	01/16/25 12:47	1
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:47	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:14	01/16/25 12:47	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:14	01/16/25 16:07	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB96 (0-3)
Lab Sample ID: 500-256860-7

Date Collected: 09/16/24 13:18
Matrix: Solid
Date Received: 09/17/24 12:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:26	01/15/25 13:49	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:49	1
Iron	**1.3**		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 13:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:26	01/15/25 13:49	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:49	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 13:49	1
Vanadium	**0.079**		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:49	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:26	01/15/25 13:49	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:42	1
Vanadium	**0.092**		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 12:42	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 21:04	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB96 (7.5-10)
Lab Sample ID: 500-256860-8

Date Collected: 09/16/24 13:44
Matrix: Solid
Date Received: 09/17/24 12:30

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/25 14:17	01/16/25 10:59	1
Manganese	**0.034**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:59	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:17	01/16/25 10:59	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:17	01/16/25 15:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB97 (0-3)
Lab Sample ID: 500-256860-9

Date Collected: 09/16/24 14:30
Matrix: Solid
Date Received: 09/17/24 12:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		11/26/24 09:26	11/27/24 00:12	1
Beryllium	<0.0040		0.0040		mg/L		11/26/24 09:26	11/27/24 00:12	1
Cadmium	<0.0050		0.0050		mg/L		11/26/24 09:26	11/27/24 00:12	1
Chromium	<0.025		0.025		mg/L		11/26/24 09:26	11/27/24 00:12	1
Copper	<0.025		0.025		mg/L		11/26/24 09:26	11/27/24 00:12	1
Iron	**0.42**		0.20		mg/L		11/26/24 09:26	11/27/24 00:12	1
Lead	<0.0075		0.0075		mg/L		11/26/24 09:26	11/27/24 00:12	1
Manganese	**10**		0.025		mg/L		11/26/24 09:26	11/27/24 00:12	1
Nickel	<0.025		0.025		mg/L		11/26/24 09:26	11/27/24 00:12	1
Selenium	<0.050		0.050		mg/L		11/26/24 09:26	11/27/24 00:12	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.016**		0.0060		mg/L		11/26/24 09:26	11/27/24 14:39	1
Thallium	<0.0020		0.0020		mg/L		11/26/24 09:26	11/27/24 14:39	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0095**		0.0060		mg/L		12/10/24 14:10	12/11/24 12:41	1
Manganese	**1.3**		0.0025		mg/L		12/10/24 14:10	12/11/24 12:41	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB97 (5-7.5)
Lab Sample ID: 500-256860-10
Date Collected: 09/16/24 14:59
Matrix: Solid
Date Received: 09/17/24 12:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 12:22	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 12:22	1
Chromium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:22	1
Copper	**0.030**		0.025		mg/L		10/29/24 14:15	10/30/24 12:22	1
Iron	**3.4**		0.20		mg/L		10/29/24 14:15	10/30/24 12:22	1
Lead	**0.017**		0.0075		mg/L		10/29/24 14:15	10/30/24 12:22	1
Nickel	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:22	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 12:22	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.017**		0.0075	0.0075	mg/L		01/15/25 14:17	01/16/25 11:17	1
Manganese	**0.24**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:17	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.011**		0.0060	0.0013	mg/L		01/14/25 14:26	01/16/25 13:59	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 21:20	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0068**		0.0060	0.0013	mg/L		01/27/25 08:08	01/27/25 19:03	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 792373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-2	SB93 (5-7.5)	TCLP	Solid	1311	
500-256860-10	SB97 (5-7.5)	TCLP	Solid	1311	
LB 500-792373/1-C	Method Blank	TCLP	Solid	1311	
500-256860-2 MS	SB93 (5-7.5)	TCLP	Solid	1311	
500-256860-2 DU	SB93 (5-7.5)	TCLP	Solid	1311	

Prep Batch: 792710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-2	SB93 (5-7.5)	TCLP	Solid	3010A	792373
500-256860-10	SB97 (5-7.5)	TCLP	Solid	3010A	792373
LB 500-792373/1-C	Method Blank	TCLP	Solid	3010A	792373
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256860-2 MS	SB93 (5-7.5)	TCLP	Solid	3010A	792373
500-256860-2 DU	SB93 (5-7.5)	TCLP	Solid	3010A	792373

Analysis Batch: 793149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-2	SB93 (5-7.5)	TCLP	Solid	6010D	792710
500-256860-10	SB97 (5-7.5)	TCLP	Solid	6010D	792710
LB 500-792373/1-C	Method Blank	TCLP	Solid	6010D	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6010D	792710
500-256860-2 MS	SB93 (5-7.5)	TCLP	Solid	6010D	792710
500-256860-2 DU	SB93 (5-7.5)	TCLP	Solid	6010D	792710

Leach Batch: 796654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-9	SB97 (0-3)	TCLP	Solid	1311	
LB 500-796654/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 797105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-9	SB97 (0-3)	TCLP	Solid	3010A	796654
LB 500-796654/1-B	Method Blank	TCLP	Solid	3010A	796654
LCS 500-797105/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 797315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-9	SB97 (0-3)	TCLP	Solid	6010D	797105
LB 500-796654/1-B	Method Blank	TCLP	Solid	6010D	797105
LCS 500-797105/2-A	Lab Control Sample	Total/NA	Solid	6010D	797105

Analysis Batch: 797568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-9	SB97 (0-3)	TCLP	Solid	6020B	797105
LB 500-796654/1-B	Method Blank	TCLP	Solid	6020B	797105
LCS 500-797105/2-A	Lab Control Sample	Total/NA	Solid	6020B	797105

Leach Batch: 798557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-9	SB97 (0-3)	SPLP East	Solid	1312	
LB 500-798557/1-B	Method Blank	SPLP East	Solid	1312	

Metals

Prep Batch: 798805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-9	SB97 (0-3)	SPLP East	Solid	3010A	798557
LB 500-798557/1-B	Method Blank	SPLP East	Solid	3010A	798557
LCS 500-798805/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 799002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-9	SB97 (0-3)	SPLP East	Solid	6020B	798805
LB 500-798557/1-B	Method Blank	SPLP East	Solid	6020B	798805
LCS 500-798805/2-A	Lab Control Sample	Total/NA	Solid	6020B	798805

Leach Batch: 802656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	TCLP	Solid	1311	
500-256860-3	SB94 (0-3)	TCLP	Solid	1311	
500-256860-7	SB96 (0-3)	TCLP	Solid	1311	
500-256860-10	SB97 (5-7.5)	TCLP	Solid	1311	
LB 500-802656/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 802813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	SPLP East	Solid	1312	
500-256860-2	SB93 (5-7.5)	SPLP East	Solid	1312	
500-256860-3	SB94 (0-3)	SPLP East	Solid	1312	
500-256860-4	SB94 (12.5-15)	SPLP East	Solid	1312	
500-256860-5	SB95 (0-3)	SPLP East	Solid	1312	
500-256860-6	SB95 (5-7.5)	SPLP East	Solid	1312	
500-256860-7	SB96 (0-3)	SPLP East	Solid	1312	
LB 500-802813/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 802828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-8	SB96 (7.5-10)	SPLP East	Solid	1312	
500-256860-10	SB97 (5-7.5)	SPLP East	Solid	1312	
LB 500-802828/1-B	Method Blank	SPLP East	Solid	1312	
500-256860-8 MS	SB96 (7.5-10)	SPLP East	Solid	1312	
500-256860-8 DU	SB96 (7.5-10)	SPLP East	Solid	1312	

Prep Batch: 802855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	TCLP	Solid	3010A	802656
500-256860-3	SB94 (0-3)	TCLP	Solid	3010A	802656
500-256860-7	SB96 (0-3)	TCLP	Solid	3010A	802656
500-256860-10	SB97 (5-7.5)	TCLP	Solid	3010A	802656
LB 500-802656/1-B	Method Blank	TCLP	Solid	3010A	802656
LCS 500-802855/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 803012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	SPLP East	Solid	3010A	802813
500-256860-2	SB93 (5-7.5)	SPLP East	Solid	3010A	802813
500-256860-3	SB94 (0-3)	SPLP East	Solid	3010A	802813

Metals (Continued)

Prep Batch: 803012 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-4	SB94 (12.5-15)	SPLP East	Solid	3010A	802813
500-256860-5	SB95 (0-3)	SPLP East	Solid	3010A	802813
500-256860-6	SB95 (5-7.5)	SPLP East	Solid	3010A	802813
500-256860-7	SB96 (0-3)	SPLP East	Solid	3010A	802813
LB 500-802813/1-B	Method Blank	SPLP East	Solid	3010A	802813
LCS 500-803012/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 803013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-8	SB96 (7.5-10)	SPLP East	Solid	3010A	802828
500-256860-10	SB97 (5-7.5)	SPLP East	Solid	3010A	802828
LB 500-802828/1-B	Method Blank	SPLP East	Solid	3010A	802828
LCS 500-803013/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256860-8 MS	SB96 (7.5-10)	SPLP East	Solid	3010A	802828
500-256860-8 DU	SB96 (7.5-10)	SPLP East	Solid	3010A	802828

Analysis Batch: 803028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	TCLP	Solid	6010D	802855
500-256860-3	SB94 (0-3)	TCLP	Solid	6010D	802855
500-256860-7	SB96 (0-3)	TCLP	Solid	6010D	802855
LB 500-802656/1-B	Method Blank	TCLP	Solid	6010D	802855
LCS 500-802855/2-A	Lab Control Sample	Total/NA	Solid	6010D	802855

Analysis Batch: 803093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	TCLP	Solid	6020B	802855
500-256860-3	SB94 (0-3)	TCLP	Solid	6020B	802855
500-256860-7	SB96 (0-3)	TCLP	Solid	6020B	802855
500-256860-10	SB97 (5-7.5)	TCLP	Solid	6020B	802855
LB 500-802656/1-B	Method Blank	TCLP	Solid	6020B	802855
LCS 500-802855/2-A	Lab Control Sample	Total/NA	Solid	6020B	802855

Analysis Batch: 803182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-1	SB93 (0-3)	SPLP East	Solid	6010D	803012
500-256860-2	SB93 (5-7.5)	SPLP East	Solid	6010D	803012
500-256860-3	SB94 (0-3)	SPLP East	Solid	6010D	803012
500-256860-4	SB94 (12.5-15)	SPLP East	Solid	6010D	803012
500-256860-5	SB95 (0-3)	SPLP East	Solid	6010D	803012
500-256860-6	SB95 (5-7.5)	SPLP East	Solid	6010D	803012
500-256860-7	SB96 (0-3)	SPLP East	Solid	6010D	803012
LB 500-802813/1-B	Method Blank	SPLP East	Solid	6010D	803012
LCS 500-803012/2-A	Lab Control Sample	Total/NA	Solid	6010D	803012

Analysis Batch: 803190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-8	SB96 (7.5-10)	SPLP East	Solid	6010D	803013
500-256860-10	SB97 (5-7.5)	SPLP East	Solid	6010D	803013
LB 500-802828/1-B	Method Blank	SPLP East	Solid	6010D	803013
LCS 500-803013/2-A	Lab Control Sample	Total/NA	Solid	6010D	803013

Metals (Continued)

Analysis Batch: 803190 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-8 MS	SB96 (7.5-10)	SPLP East	Solid	6010D	803013
500-256860-8 DU	SB96 (7.5-10)	SPLP East	Solid	6010D	803013

Analysis Batch: 803207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-2	SB93 (5-7.5)	SPLP East	Solid	6020B	803012
500-256860-4	SB94 (12.5-15)	SPLP East	Solid	6020B	803012
500-256860-5	SB95 (0-3)	SPLP East	Solid	6020B	803012
500-256860-6	SB95 (5-7.5)	SPLP East	Solid	6020B	803012
500-256860-8	SB96 (7.5-10)	SPLP East	Solid	6020B	803013
500-256860-10	SB97 (5-7.5)	TCLP	Solid	6020B	802855
LB 500-802813/1-B	Method Blank	SPLP East	Solid	6020B	803012
LB 500-802828/1-B	Method Blank	SPLP East	Solid	6020B	803013
LCS 500-803012/2-A	Lab Control Sample	Total/NA	Solid	6020B	803012
LCS 500-803013/2-A	Lab Control Sample	Total/NA	Solid	6020B	803013
500-256860-8 MS	SB96 (7.5-10)	SPLP East	Solid	6020B	803013
500-256860-8 DU	SB96 (7.5-10)	SPLP East	Solid	6020B	803013

Leach Batch: 804075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-10	SB97 (5-7.5)	SPLP East	Solid	1312	
LB 500-804075/1-B	Method Blank	SPLP East	Solid	1312	
500-256860-10 MS	SB97 (5-7.5)	SPLP East	Solid	1312	
500-256860-10 DU	SB97 (5-7.5)	SPLP East	Solid	1312	

Prep Batch: 804224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-10	SB97 (5-7.5)	SPLP East	Solid	3010A	804075
LB 500-804075/1-B	Method Blank	SPLP East	Solid	3010A	804075
LCS 500-804224/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-256860-10 MS	SB97 (5-7.5)	SPLP East	Solid	3010A	804075
500-256860-10 DU	SB97 (5-7.5)	SPLP East	Solid	3010A	804075

Analysis Batch: 804385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-10	SB97 (5-7.5)	SPLP East	Solid	6020B	804224
LB 500-804075/1-B	Method Blank	SPLP East	Solid	6020B	804224
LCS 500-804224/2-A	Lab Control Sample	Total/NA	Solid	6020B	804224
500-256860-10 MS	SB97 (5-7.5)	SPLP East	Solid	6020B	804224
500-256860-10 DU	SB97 (5-7.5)	SPLP East	Solid	6020B	804224

Leach Batch: 808090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-4	SB94 (12.5-15)	TCLP	Solid	1311	
LB 500-808090/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 808296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-4	SB94 (12.5-15)	TCLP	Solid	3010A	808090
LB 500-808090/1-B	Method Blank	TCLP	Solid	3010A	808090
LCS 500-808296/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals

Analysis Batch: 808845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256860-4	SB94 (12.5-15)	TCLP	Solid	6010D	808296
LB 500-808090/1-B	Method Blank	TCLP	Solid	6010D	808296

Analysis Batch: 808952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-808296/2-A	Lab Control Sample	Total/NA	Solid	6010D	808296

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0509		mg/L		102	80 - 120
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Chromium	0.200	0.203		mg/L		101	80 - 120
Copper	0.250	0.251		mg/L		100	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Nickel	0.500	0.496		mg/L		99	80 - 120
Selenium	0.100	0.0906		mg/L		91	80 - 120
Iron	1.00	0.873		mg/L		87	80 - 120
Silver	0.0500	0.0499		mg/L		100	80 - 120

Lab Sample ID: LCS 500-797105/2-A
Matrix: Solid
Analysis Batch: 797315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 797105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.110		mg/L		110	80 - 120
Beryllium	0.0500	0.0520		mg/L		104	80 - 120
Cadmium	0.0500	0.0524		mg/L		105	80 - 120
Chromium	0.200	0.205		mg/L		102	80 - 120
Copper	0.250	0.267		mg/L		107	80 - 120
Iron	1.00	0.976		mg/L		98	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120
Nickel	0.500	0.537		mg/L		107	80 - 120
Selenium	0.100	0.111		mg/L		111	80 - 120

Lab Sample ID: LCS 500-802855/2-A
Matrix: Solid
Analysis Batch: 803028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120
Vanadium	0.500	0.507		mg/L		101	80 - 120
Nickel	0.500	0.523		mg/L		105	80 - 120
Selenium	0.100	0.108		mg/L		108	80 - 120
Zinc	0.500	0.557		mg/L		111	80 - 120

Lab Sample ID: LCS 500-803012/2-A
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0508		mg/L		102	80 - 120
Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Chromium	0.200	0.191		mg/L		96	80 - 120
Copper	0.250	0.248		mg/L		99	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-803012/2-A
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.11		mg/L		111	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Manganese	0.500	0.501		mg/L		100	80 - 120
Vanadium	0.500	0.490		mg/L		98	80 - 120
Nickel	0.500	0.495		mg/L		99	80 - 120
Selenium	0.100	0.0928		mg/L		93	80 - 120
Silver	0.0500	0.0465		mg/L		93	80 - 120
Zinc	0.500	0.490		mg/L		98	80 - 120

Lab Sample ID: LCS 500-803013/2-A
Matrix: Solid
Analysis Batch: 803190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0517		mg/L		103	80 - 120
Cadmium	0.0500	0.0494		mg/L		99	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Copper	0.250	0.256		mg/L		102	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Manganese	0.500	0.495		mg/L		99	80 - 120
Vanadium	0.500	0.507		mg/L		101	80 - 120
Nickel	0.500	0.505		mg/L		101	80 - 120
Selenium	0.100	0.0899		mg/L		90	80 - 120
Silver	0.0500	0.0489		mg/L		98	80 - 120
Zinc	0.500	0.503		mg/L		101	80 - 120

Lab Sample ID: LCS 500-808296/2-A
Matrix: Solid
Analysis Batch: 808952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 808296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: LB 500-792373/1-C
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 11:55	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 11:55	1
Chromium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 11:55	1
Copper	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 11:55	1
Lead	<0.0075		0.0075		mg/L		10/29/24 14:15	10/30/24 11:55	1
Nickel	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 11:55	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 11:55	1
Iron	<0.20		0.20		mg/L		10/29/24 14:15	10/30/24 11:55	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 11:55	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256860-2 MS
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: SB93 (5-7.5)
Prep Type: TCLP
Prep Batch: 792710

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	<0.025		0.250	0.252		mg/L		101	75 - 125
Iron	1.3	F1	1.00	1.49	F1	mg/L		22	75 - 125
Silver	<0.025		0.0500	0.0514		mg/L		103	75 - 125

Lab Sample ID: 500-256860-2 DU
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: SB93 (5-7.5)
Prep Type: TCLP
Prep Batch: 792710

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Copper	<0.025		<0.025		mg/L		NC	20
Iron	1.3	F1	1.12		mg/L		12	20
Silver	<0.025		<0.025		mg/L		NC	20

Lab Sample ID: LB 500-796654/1-B
Matrix: Solid
Analysis Batch: 797315

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 797105

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		11/26/24 09:26	11/26/24 23:40	1
Beryllium	<0.0040		0.0040		mg/L		11/26/24 09:26	11/26/24 23:40	1
Cadmium	<0.0050		0.0050		mg/L		11/26/24 09:26	11/26/24 23:40	1
Chromium	<0.025		0.025		mg/L		11/26/24 09:26	11/26/24 23:40	1
Copper	<0.025		0.025		mg/L		11/26/24 09:26	11/26/24 23:40	1
Iron	<0.20		0.20		mg/L		11/26/24 09:26	11/26/24 23:40	1
Lead	<0.0075		0.0075		mg/L		11/26/24 09:26	11/26/24 23:40	1
Manganese	<0.025		0.025		mg/L		11/26/24 09:26	11/26/24 23:40	1
Nickel	<0.025		0.025		mg/L		11/26/24 09:26	11/26/24 23:40	1
Selenium	<0.050		0.050		mg/L		11/26/24 09:26	11/26/24 23:40	1

Lab Sample ID: LB 500-802656/1-B
Matrix: Solid
Analysis Batch: 803028

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802855

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:26	01/15/25 13:04	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 13:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:26	01/15/25 13:04	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 13:04	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:26	01/15/25 13:04	1

Lab Sample ID: LB 500-808090/1-B
Matrix: Solid
Analysis Batch: 808845

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 808296

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		03/03/25 08:20	03/06/25 02:02	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802813/1-B
Matrix: Solid
Analysis Batch: 803182

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803012

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/25 14:14	01/16/25 10:57	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/15/25 14:14	01/16/25 10:57	1
Chromium	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1
Copper	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:14	01/16/25 10:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/15/25 14:14	01/16/25 10:57	1
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1
Vanadium	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1
Nickel	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:14	01/16/25 10:57	1
Silver	<0.010		0.025	0.010	mg/L		01/15/25 14:14	01/16/25 10:57	1
Zinc	<0.020		0.10	0.020	mg/L		01/15/25 14:14	01/16/25 10:57	1

Lab Sample ID: LB 500-802828/1-B
Matrix: Solid
Analysis Batch: 803190

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803013

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/25 14:17	01/16/25 10:51	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/15/25 14:17	01/16/25 10:51	1
Chromium	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Copper	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:17	01/16/25 10:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/15/25 14:17	01/16/25 10:51	1
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Vanadium	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Nickel	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:17	01/16/25 10:51	1
Silver	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Zinc	<0.020		0.10	0.020	mg/L		01/15/25 14:17	01/16/25 10:51	1

Lab Sample ID: 500-256860-8 MS
Matrix: Solid
Analysis Batch: 803190

Client Sample ID: SB96 (7.5-10)
Prep Type: SPLP East
Prep Batch: 803013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0529		mg/L		106	75 - 125
Cadmium	<0.0020		0.0500	0.0496		mg/L		99	75 - 125
Chromium	<0.010		0.200	0.198		mg/L		99	75 - 125
Copper	<0.010		0.250	0.265		mg/L		106	75 - 125
Iron	<0.20		1.00	1.10		mg/L		110	75 - 125
Lead	<0.0075		0.100	0.101		mg/L		101	75 - 125
Manganese	0.034		0.500	0.505		mg/L		101	75 - 125
Nickel	<0.010		0.500	0.508		mg/L		102	75 - 125
Selenium	<0.020		0.100	0.0950		mg/L		95	75 - 125
Silver	<0.010		0.0500	0.0483		mg/L		97	75 - 125
Zinc	<0.020		0.500	0.510		mg/L		102	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-256860-8 DU
Matrix: Solid
Analysis Batch: 803190

Client Sample ID: SB96 (7.5-10)
Prep Type: SPLP East
Prep Batch: 803013

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	20
Chromium	<0.010		<0.010		mg/L		NC	20
Copper	<0.010		<0.010		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	0.034		0.0341		mg/L		NC	20
Nickel	<0.010		<0.010		mg/L		NC	20
Selenium	<0.020		<0.020		mg/L		NC	20
Silver	<0.010		<0.010		mg/L		NC	20
Zinc	<0.020		<0.020		mg/L		NC	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCS 500-797105/2-A
Matrix: Solid
Analysis Batch: 797568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 797105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.537		mg/L		107	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LCS 500-798805/2-A
Matrix: Solid
Analysis Batch: 799002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.504		mg/L		101	80 - 120
Manganese	0.500	0.502		mg/L		100	80 - 120

Lab Sample ID: LCS 500-802855/2-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.556		mg/L		111	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: LCS 500-803012/2-A
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.563		mg/L		113	80 - 120
Thallium	0.100	0.117		mg/L		117	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-803013/2-A
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.539		mg/L		108	80 - 120
Thallium	0.100	0.111		mg/L		111	80 - 120

Lab Sample ID: LCS 500-804224/2-A
Matrix: Solid
Analysis Batch: 804385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 804224

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.470		mg/L		94	80 - 120

Lab Sample ID: LB 500-796654/1-B
Matrix: Solid
Analysis Batch: 797568

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 797105

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060		mg/L		11/26/24 09:26	11/27/24 14:31	1
Thallium	<0.0020		0.0020		mg/L		11/26/24 09:26	11/27/24 14:31	1

Lab Sample ID: LB 500-802656/1-B
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802855

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/14/25 14:26	01/15/25 20:33	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 20:33	1

Lab Sample ID: LB 500-798557/1-B
Matrix: Solid
Analysis Batch: 799002

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 798805

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060		mg/L		12/10/24 14:10	12/11/24 12:29	1
Manganese	<0.0025		0.0025		mg/L		12/10/24 14:10	12/11/24 12:29	1

Lab Sample ID: LB 500-802813/1-B
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803012

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/15/25 14:14	01/16/25 15:36	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:14	01/16/25 15:36	1

Lab Sample ID: LB 500-802828/1-B
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803013

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/15/25 14:17	01/16/25 14:46	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:17	01/16/25 14:46	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-256860-8 MS
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: SB96 (7.5-10)
Prep Type: SPLP East
Prep Batch: 803013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0013		0.500	0.577		mg/L		115	75 - 125
Thallium	<0.00057		0.100	0.117		mg/L		117	75 - 125

Lab Sample ID: 500-256860-8 DU
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: SB96 (7.5-10)
Prep Type: SPLP East
Prep Batch: 803013

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0013		<0.0013		mg/L		NC	20
Thallium	<0.00057		<0.00057		mg/L		NC	20

Lab Sample ID: LB 500-804075/1-B
Matrix: Solid
Analysis Batch: 804385

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 804224

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/27/25 08:08	01/27/25 18:44	1

Lab Sample ID: 500-256860-10 MS
Matrix: Solid
Analysis Batch: 804385

Client Sample ID: SB97 (5-7.5)
Prep Type: SPLP East
Prep Batch: 804224

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0068		0.500	0.522		mg/L		103	75 - 125

Lab Sample ID: 500-256860-10 DU
Matrix: Solid
Analysis Batch: 804385

Client Sample ID: SB97 (5-7.5)
Prep Type: SPLP East
Prep Batch: 804224

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.0068		0.00659		mg/L		3	20

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB93 (0-3)
Lab Sample ID: 500-256860-1
Date Collected: 09/16/24 09:00
Matrix: Solid
Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 12:12
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6010D		1	803028	SJ	EET CHI	01/15/25 13:40
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 20:56

Client Sample ID: SB93 (5-7.5)
Lab Sample ID: 500-256860-2
Date Collected: 09/16/24 09:09
Matrix: Solid
Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 12:16
TCLP	Leach	1311			792373	RJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 12:04
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 15:56

Client Sample ID: SB94 (0-3)
Lab Sample ID: 500-256860-3
Date Collected: 09/16/24 10:04
Matrix: Solid
Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 12:29
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6010D		1	803028	SJ	EET CHI	01/15/25 13:45
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 21:00

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB94 (12.5-15)
Lab Sample ID: 500-256860-4
Date Collected: 09/16/24 10:27
Matrix: Solid
Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 12:20
TCLP	Leach	1311			808090	PA	EET CHI	02/28/25 13:46 - 03/01/25 07:46 [1]
TCLP	Prep	3010A			808296	BDE	EET CHI	03/03/25 08:20 - 03/03/25 14:20 [1]
TCLP	Analysis	6010D		1	808845	RB	EET CHI	03/06/25 02:52
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 15:59

Client Sample ID: SB95 (0-3)
Lab Sample ID: 500-256860-5
Date Collected: 09/16/24 11:17
Matrix: Solid
Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 12:25
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 16:03

Client Sample ID: SB95 (5-7.5)
Lab Sample ID: 500-256860-6
Date Collected: 09/16/24 11:36
Matrix: Solid
Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 12:47
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 16:07

Client Sample ID: SB96 (0-3)
Lab Sample ID: 500-256860-7
Date Collected: 09/16/24 13:18
Matrix: Solid
Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802813	PA	EET CHI	01/14/25 13:50 - 01/15/25 07:50 [1]
SPLP East	Prep	3010A			803012	S1Z	EET CHI	01/15/25 14:14 - 01/15/25 20:14 [1]
SPLP East	Analysis	6010D		1	803182	SJ	EET CHI	01/16/25 12:42
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6010D		1	803028	SJ	EET CHI	01/15/25 13:49

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256860-5

Client Sample ID: SB96 (0-3)
Date Collected: 09/16/24 13:18
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 21:04

Client Sample ID: SB96 (7.5-10)
Date Collected: 09/16/24 13:44
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 10:59
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 15:06

Client Sample ID: SB97 (0-3)
Date Collected: 09/16/24 14:30
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			796654	PA	EET CHI	11/22/24 16:45 - 11/23/24 10:45 [1]
TCLP	Prep	3010A			797105	BDE	EET CHI	11/26/24 09:26 - 11/26/24 15:26 [1]
TCLP	Analysis	6010D		1	797315	SJ	EET CHI	11/27/24 00:12
SPLP East	Leach	1312			798557	PA	EET CHI	12/09/24 14:35 - 12/10/24 08:35 [1]
SPLP East	Prep	3010A			798805	S1Z	EET CHI	12/10/24 14:10 - 12/10/24 20:10 [1]
SPLP East	Analysis	6020B		1	799002	RN	EET CHI	12/11/24 12:41
TCLP	Leach	1311			796654	PA	EET CHI	11/22/24 16:45 - 11/23/24 10:45 [1]
TCLP	Prep	3010A			797105	BDE	EET CHI	11/26/24 09:26 - 11/26/24 15:26 [1]
TCLP	Analysis	6020B		1	797568	RN	EET CHI	11/27/24 14:39

Client Sample ID: SB97 (5-7.5)
Date Collected: 09/16/24 14:59
Date Received: 09/17/24 12:30

Lab Sample ID: 500-256860-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 11:17
TCLP	Leach	1311			792373	RJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 12:22
SPLP East	Leach	1312			804075	TJ	EET CHI	01/24/25 14:26 - 01/25/25 08:26 [1]
SPLP East	Prep	3010A			804224	BDE	EET CHI	01/27/25 08:08 - 01/27/25 14:08 [1]
SPLP East	Analysis	6020B		1	804385	RN	EET CHI	01/27/25 19:03

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB97 (5-7.5)
Lab Sample ID: 500-256860-10

Date Collected: 09/16/24 14:59
Matrix: Solid

Date Received: 09/17/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 21:20
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 13:59

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256860-5
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	02-13-25

Chain of Custody Record

670142 eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARTSOCK	Site Contact:	Date:	COC No 1 of 1 COCs
Company Name PIONEER	Tel/Email: JHARTSOCK@PIONEER...	Lab Contact:	Carrier:	Sampler
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below _____			Lab Sampling
Fax	☒ 2 weeks			
Project Name: 3080 S LAKE SHORE DR	☐ 1 week			Job / SDG No
Site	☐ 2 days			500-256860
PO# 24-0124-103	☐ 1 day			

500-256860 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL	PH	SULFIDE	Sample Specific Notes
1	SB93 (0-3)	9/16/24	900	G	SO	4			XX			
2	SB93 (5-7.5)		909									
3	SB94 (0-3)		1004									
4	SB94 (10.5-15)		1027									
5	SB95 (0-3)		1117									
6	SB95 (5-7.5)		1136								X	
7	SB96 (0-7)		118									
8	SB96 (7.5-10)		144									
9	SB97 (0-3)		230									
10	SB97 (5-7.5)		259									

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 3.5 Corr'd 3.2 | Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	9/17/24	Received by	EETA	9/17/24 1130
Relinquished by	EETA	9/17/24 1230	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by Stephanie Hernandez	EETA	9/17/24 1230

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256860-5

Login Number: 256860
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/14/2025 5:23:39 PM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-256930-6

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
4/14/2025 5:23:39 PM
Revision 2

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-256930-2 — Eurofins Chicago

Job Narrative
500-256930-2

Revision
The report being provided is a revision of the original report sent on 10/17/2024. The report (revision 2) is being revised due to: Add TCLP Cr to SB102 (0-3) per client request.

Report revision history
Revision 1 - 10/24/2024 - Reason - Add Vanadium per client request.

Receipt
The samples were received on 9/18/2024 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256930-3 — Eurofins Chicago

Job Narrative
500-256930-3

Revision
The report being provided is a revision of the original report sent on 10/30/2024. The report (revision 1) is being revised due to: Add additional TCLP analytes to samples per client request.

Receipt
The samples were received on 9/18/2024 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1º C.

Metals
Method 6010D: The result for Lead recovered more negative than the reporting limit. The result was less than two times the reporting limit. The sample has been qualified and reported.

SB101 (0-3) (500-256930-7)

Method 6020B: The laboratory control sample (LCS) for preparation batch 240-630763 and 240-630837 and analytical batch 240-632379 recovered outside control limits for the following analytes: Thallium. These analytes were biased high in the LCS and were below the reporting limit in the associated samples; therefore, the data have been reported.

Method 6020B: The leachate blank for preparation batch 240-630763 and 240-630837 contained nickel above the reporting limit (RL). None of the samples associated with this leachate blank contained nickel above the reporting limit; therefore, re-digestion of samples were not performed. SB102 (0-3) (500-256930-9)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256930-4 — Eurofins Chicago

Job Narrative
500-256930-4

Revision
The report being provided is a revision of the original report sent on 11/7/2024. The report (revision 2) is being revised due to: THe report and EDD have been revised to include result for SPLP chromium..

Report revision history
Revision 1 - 11/18/2024 - Reason - The report and EDD have been revised to include SPLP Mn..

Receipt
The samples were received on 9/18/2024 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256930-5 — Eurofins Chicago

Job Narrative
500-256930-5

Revision
The report being provided is a revision of the original report sent on 12/4/2024. The report (revision 1) is being revised due to: Add additional TCLP analytes per client request.

Receipt
The samples were received on 9/18/2024 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-256930-6 — Eurofins Chicago

Job Narrative
500-256930-6

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 2) is being revised due to: Add SPLP V to SB101 (0-3) per client request.

Report revision history
Revision 1 - 1/29/2025 - Reason - Add SPLP V to SB98 (7.5-10) and SPLP Ni to SB101 (0-3) per client request.

Receipt
The samples were received on 9/18/2024 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

Metals
Method 1312: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 500-802828, the temperature was outside of this range. As a result, the test was not compliant with the requirements of 40 CFR Part 261.

Method 6010D:

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB98 (0-3) — Lab Sample ID: 500-256930-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.35		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.053		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB98 (7.5-10) — Lab Sample ID: 500-256930-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1.8		0.20		mg/L	1		6010D	TCLP
Vanadium	0.17		0.025		mg/L	1		6010D	TCLP
Manganese	0.026		0.025	0.010	mg/L	1		6010D	SPLP East
Vanadium	0.19		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB99 (0-3) — Lab Sample ID: 500-256930-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.37		0.20		mg/L	1		6010D	TCLP

Client Sample ID: SB99 (10-12.5) — Lab Sample ID: 500-256930-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.026		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB100 (0-3) — Lab Sample ID: 500-256930-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.93		0.20	0.20	mg/L	1		6010D	TCLP
Zinc	0.031	J	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.046		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB100 (3-5) — Lab Sample ID: 500-256930-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.73		0.20	0.20	mg/L	1		6010D	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.023	J	0.10	0.020	mg/L	1		6010D	TCLP
Manganese	0.086		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB101 (0-3) — Lab Sample ID: 500-256930-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.051		0.025		mg/L	1		6010D	TCLP
Iron	4.6		0.20		mg/L	1		6010D	TCLP
Nickel	0.24		0.025		mg/L	1		6010D	TCLP
Vanadium	0.055		0.025		mg/L	1		6010D	TCLP
Zinc	0.17		0.10		mg/L	1		6010D	TCLP
Manganese	0.081		0.025	0.010	mg/L	1		6010D	SPLP East
Vanadium	0.076		0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0076		0.0060	0.0013	mg/L	1		6020B	TCLP

Client Sample ID: SB101 (12.5-15) — Lab Sample ID: 500-256930-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.13		0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB102 (0-3) — Lab Sample ID: 500-256930-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.21		0.050		mg/L	1		6010D	TCLP
Vanadium	0.30		0.050		mg/L	1		6010D	TCLP
Chromium	0.19		0.050		mg/L	1		6010D	SPLP East

Client Sample ID: SB102 (7.5-10) — Lab Sample ID: 500-256930-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.015	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	3.7		0.20	0.20	mg/L	1		6010D	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CLE
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-256930-1	SB98 (0-3)	Solid	09/17/24 09:11	09/18/24 13:30
500-256930-2	SB98 (7.5-10)	Solid	09/17/24 09:37	09/18/24 13:30
500-256930-3	SB99 (0-3)	Solid	09/17/24 10:29	09/18/24 13:30
500-256930-4	SB99 (10-12.5)	Solid	09/17/24 11:00	09/18/24 13:30
500-256930-5	SB100 (0-3)	Solid	09/17/24 12:05	09/18/24 13:30
500-256930-6	SB100 (3-5)	Solid	09/17/24 12:10	09/18/24 13:30
500-256930-7	SB101 (0-3)	Solid	09/17/24 13:27	09/18/24 13:30
500-256930-8	SB101 (12.5-15)	Solid	09/17/24 13:54	09/18/24 13:30
500-256930-9	SB102 (0-3)	Solid	09/17/24 14:37	09/18/24 13:30
500-256930-10	SB102 (7.5-10)	Solid	09/17/24 14:57	09/18/24 13:30

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB98 (0-3)
Lab Sample ID: 500-256930-1

Date Collected: 09/17/24 09:11
Matrix: Solid
Date Received: 09/18/24 13:30

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/25 14:17	01/16/25 11:21	1
Iron	**0.35**		0.20	0.20	mg/L		01/15/25 14:17	01/16/25 11:21	1
Manganese	**0.053**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:21	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:17	01/16/25 11:21	1
Silver	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:21	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:17	01/16/25 15:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB98 (7.5-10)
Lab Sample ID: 500-256930-2
Date Collected: 09/17/24 09:37
Matrix: Solid
Date Received: 09/18/24 13:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 12:26	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 12:26	1
Chromium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:26	1
Iron	**1.8**		0.20		mg/L		10/29/24 14:15	10/30/24 12:26	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 12:26	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:26	1
Vanadium	**0.17**		0.025		mg/L		10/29/24 14:15	10/30/24 12:26	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.026**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:26	1
Vanadium	**0.19**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:26	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 21:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB99 (0-3)
Lab Sample ID: 500-256930-3
Date Collected: 09/17/24 10:29
Matrix: Solid
Date Received: 09/18/24 13:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		12/03/24 14:57	12/04/24 14:08	1
Cadmium	<0.0050		0.0050		mg/L		12/03/24 14:57	12/04/24 14:08	1
Chromium	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 14:08	1
Iron	**0.37**		0.20		mg/L		12/03/24 14:57	12/04/24 14:08	1
Lead	<0.0075		0.0075		mg/L		12/03/24 14:57	12/04/24 14:08	1
Selenium	<0.050		0.050		mg/L		12/03/24 14:57	12/04/24 14:08	1
Silver	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 14:08	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:36	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 21:27	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB99 (10-12.5)
Lab Sample ID: 500-256930-4
Date Collected: 09/17/24 11:00
Matrix: Solid
Date Received: 09/18/24 13:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:26	01/15/25 13:54	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:54	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 13:54	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:54	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.026**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:30	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 21:31	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB100 (0-3)
Lab Sample ID: 500-256930-5

Date Collected: 09/17/24 12:05
Matrix: Solid
Date Received: 09/18/24 13:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:26	01/15/25 13:59	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:59	1
Copper	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:59	1
Iron	**0.93**		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 13:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:26	01/15/25 13:59	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 13:59	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:59	1
Zinc	**0.031**	**J**	0.10	0.020	mg/L		01/14/25 14:26	01/15/25 13:59	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.046**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:43	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 21:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB100 (3-5)
Lab Sample ID: 500-256930-6
Date Collected: 09/17/24 12:10
Matrix: Solid
Date Received: 09/18/24 13:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:26	01/15/25 14:12	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 14:12	1
Copper	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 14:12	1
Iron	**0.73**		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 14:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:26	01/15/25 14:12	1
Nickel	**0.012**	**J**	0.025	0.010	mg/L		01/14/25 14:26	01/15/25 14:12	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 14:12	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 14:12	1
Zinc	**0.023**	**J**	0.10	0.020	mg/L		01/14/25 14:26	01/15/25 14:12	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.086**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:47	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 21:39	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB101 (0-3)
Lab Sample ID: 500-256930-7

Date Collected: 09/17/24 13:27
Matrix: Solid
Date Received: 09/18/24 13:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/28/24 15:40	10/29/24 13:02	1
Cadmium	<0.0050		0.0050		mg/L		10/28/24 15:40	10/29/24 13:02	1
Chromium	**0.051**		0.025		mg/L		10/28/24 15:40	10/29/24 13:02	1
Copper	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 13:02	1
Iron	**4.6**		0.20		mg/L		10/28/24 15:40	10/29/24 13:02	1
Lead	<0.0075	L	0.0075		mg/L		10/28/24 15:40	10/29/24 13:02	1
Nickel	**0.24**		0.025		mg/L		10/28/24 15:40	10/29/24 13:02	1
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 13:02	1
Vanadium	**0.055**		0.025		mg/L		10/28/24 15:40	10/29/24 13:02	1
Zinc	**0.17**		0.10		mg/L		10/28/24 15:40	10/29/24 13:02	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.081**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:52	1
Nickel	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:52	1
Vanadium	**0.076**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:52	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0076**		0.0060	0.0013	mg/L		01/14/25 14:26	01/16/25 14:15	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 21:43	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB101 (12.5-15)
Lab Sample ID: 500-256930-8
Date Collected: 09/17/24 13:54
Matrix: Solid
Date Received: 09/18/24 13:30

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/25 14:17	01/16/25 11:56	1
Chromium	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:56	1
Manganese	**0.13**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 11:56	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:17	01/16/25 11:56	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:17	01/16/25 15:25	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB102 (0-3)
Lab Sample ID: 500-256930-9
Date Collected: 09/17/24 14:37
Matrix: Solid
Date Received: 09/18/24 13:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.21**		0.050		mg/L		10/15/24 14:00	10/16/24 16:51	1
Selenium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 16:51	1
Vanadium	**0.30**		0.050		mg/L		10/15/24 14:00	10/16/24 16:51	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.19**		0.050		mg/L		11/04/24 14:00	11/06/24 06:49	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 06:49	1
Vanadium	<0.050		0.050		mg/L		11/04/24 14:00	11/06/24 06:49	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/15/24 14:00	10/24/24 18:55	1
Beryllium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/24/24 18:55	1
Cadmium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/24/24 18:55	1
Iron	<0.10		0.10		mg/L		10/15/24 14:00	10/24/24 18:55	1
Lead	<0.0010		0.0010		mg/L		10/15/24 14:00	10/24/24 18:55	1
Nickel	<0.0020		0.0020		mg/L		10/15/24 14:00	10/24/24 18:55	1
Thallium	<0.0020	*+	0.0020		mg/L		10/15/24 14:00	10/24/24 18:55	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB102 (7.5-10)
Lab Sample ID: 500-256930-10
Date Collected: 09/17/24 14:57
Matrix: Solid
Date Received: 09/18/24 13:30

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.015**	**J**	0.025	0.010	mg/L		01/14/25 14:26	01/15/25 14:17	1
Iron	**3.7**		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 14:17	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 14:17	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.33**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 12:00	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 21:47	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 630763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-9	SB102 (0-3)	TCLP	Solid	1311	
LB 240-630763/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 630837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-9	SB102 (0-3)	TCLP	Solid	3010A	630763
LB 240-630763/1-B	Method Blank	TCLP	Solid	3010A	630763
MB 240-630837/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630837/3-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 240-630837/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 631164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-630763/1-B	Method Blank	TCLP	Solid	6020B	630837
MB 240-630837/2-A	Method Blank	Total/NA	Solid	6020B	630837
LCS 240-630837/4-A	Lab Control Sample	Total/NA	Solid	6020B	630837

Analysis Batch: 631202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-9	SB102 (0-3)	TCLP	Solid	6010D	630837
LB 240-630763/1-B	Method Blank	TCLP	Solid	6010D	630837
MB 240-630837/2-A	Method Blank	Total/NA	Solid	6010D	630837
LCS 240-630837/3-A	Lab Control Sample	Total/NA	Solid	6010D	630837

Analysis Batch: 632379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-9	SB102 (0-3)	TCLP	Solid	6020B	630837

Leach Batch: 633697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-9	SB102 (0-3)	SPLP East	Solid	1312	
LB 240-633697/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 633805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-9	SB102 (0-3)	SPLP East	Solid	3010A	633697
LB 240-633697/1-B	Method Blank	SPLP East	Solid	3010A	633697
MB 240-633805/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-633805/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 634193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-9	SB102 (0-3)	SPLP East	Solid	6010D	633805
LB 240-633697/1-B	Method Blank	SPLP East	Solid	6010D	633805
MB 240-633805/2-A	Method Blank	Total/NA	Solid	6010D	633805
LCS 240-633805/3-A	Lab Control Sample	Total/NA	Solid	6010D	633805

Leach Batch: 792373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-2	SB98 (7.5-10)	TCLP	Solid	1311	
LB 500-792373/1-C	Method Blank	TCLP	Solid	1311	

Metals

Leach Batch: 792414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-7	SB101 (0-3)	TCLP	Solid	1311	
LB2 500-792414/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 792710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-2	SB98 (7.5-10)	TCLP	Solid	3010A	792373
LB 500-792373/1-C	Method Blank	TCLP	Solid	3010A	792373
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 792712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-7	SB101 (0-3)	TCLP	Solid	3010A	792414
LB2 500-792414/1-B	Method Blank	TCLP	Solid	3010A	792414
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 792920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-7	SB101 (0-3)	TCLP	Solid	6010D	792712
LB2 500-792414/1-B	Method Blank	TCLP	Solid	6010D	792712
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	6010D	792712

Analysis Batch: 793149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-2	SB98 (7.5-10)	TCLP	Solid	6010D	792710
LB 500-792373/1-C	Method Blank	TCLP	Solid	6010D	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6010D	792710

Leach Batch: 797618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-3	SB99 (0-3)	TCLP	Solid	1311	
LB 500-797618/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 797622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-3	SB99 (0-3)	SPLP East	Solid	1312	
LB 500-797622/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 797836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-3	SB99 (0-3)	SPLP East	Solid	3010A	797622
500-256930-3	SB99 (0-3)	TCLP	Solid	3010A	797618
LB 500-797618/1-B	Method Blank	TCLP	Solid	3010A	797618
LB 500-797622/1-B	Method Blank	SPLP East	Solid	3010A	797622
LCS 500-797836/19-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-797836/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 798077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-3	SB99 (0-3)	SPLP East	Solid	6010D	797836
500-256930-3	SB99 (0-3)	TCLP	Solid	6010D	797836
LB 500-797618/1-B	Method Blank	TCLP	Solid	6010D	797836

Metals (Continued)

Analysis Batch: 798077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-797622/1-B	Method Blank	SPLP East	Solid	6010D	797836
LCS 500-797836/19-A	Lab Control Sample	Total/NA	Solid	6010D	797836
LCS 500-797836/2-A	Lab Control Sample	Total/NA	Solid	6010D	797836

Leach Batch: 802656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-2	SB98 (7.5-10)	TCLP	Solid	1311	
500-256930-3	SB99 (0-3)	TCLP	Solid	1311	
500-256930-4	SB99 (10-12.5)	TCLP	Solid	1311	
500-256930-5	SB100 (0-3)	TCLP	Solid	1311	
500-256930-6	SB100 (3-5)	TCLP	Solid	1311	
500-256930-7	SB101 (0-3)	TCLP	Solid	1311	
500-256930-10	SB102 (7.5-10)	TCLP	Solid	1311	
LB 500-802656/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 802828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	SPLP East	Solid	1312	
500-256930-2	SB98 (7.5-10)	SPLP East	Solid	1312	
500-256930-4	SB99 (10-12.5)	SPLP East	Solid	1312	
500-256930-5	SB100 (0-3)	SPLP East	Solid	1312	
500-256930-6	SB100 (3-5)	SPLP East	Solid	1312	
500-256930-7	SB101 (0-3)	SPLP East	Solid	1312	
500-256930-8	SB101 (12.5-15)	SPLP East	Solid	1312	
500-256930-10	SB102 (7.5-10)	SPLP East	Solid	1312	
LB 500-802828/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 802855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-2	SB98 (7.5-10)	TCLP	Solid	3010A	802656
500-256930-3	SB99 (0-3)	TCLP	Solid	3010A	802656
500-256930-4	SB99 (10-12.5)	TCLP	Solid	3010A	802656
500-256930-5	SB100 (0-3)	TCLP	Solid	3010A	802656
500-256930-6	SB100 (3-5)	TCLP	Solid	3010A	802656
500-256930-7	SB101 (0-3)	TCLP	Solid	3010A	802656
500-256930-10	SB102 (7.5-10)	TCLP	Solid	3010A	802656
LB 500-802656/1-B	Method Blank	TCLP	Solid	3010A	802656
LCS 500-802855/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 803013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	SPLP East	Solid	3010A	802828
500-256930-2	SB98 (7.5-10)	SPLP East	Solid	3010A	802828
500-256930-4	SB99 (10-12.5)	SPLP East	Solid	3010A	802828
500-256930-5	SB100 (0-3)	SPLP East	Solid	3010A	802828
500-256930-6	SB100 (3-5)	SPLP East	Solid	3010A	802828
500-256930-7	SB101 (0-3)	SPLP East	Solid	3010A	802828
500-256930-8	SB101 (12.5-15)	SPLP East	Solid	3010A	802828
500-256930-10	SB102 (7.5-10)	SPLP East	Solid	3010A	802828
LB 500-802828/1-B	Method Blank	SPLP East	Solid	3010A	802828
LCS 500-803013/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Metals

Analysis Batch: 803028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-4	SB99 (10-12.5)	TCLP	Solid	6010D	802855
500-256930-5	SB100 (0-3)	TCLP	Solid	6010D	802855
500-256930-6	SB100 (3-5)	TCLP	Solid	6010D	802855
500-256930-10	SB102 (7.5-10)	TCLP	Solid	6010D	802855
LB 500-802656/1-B	Method Blank	TCLP	Solid	6010D	802855
LCS 500-802855/2-A	Lab Control Sample	Total/NA	Solid	6010D	802855

Analysis Batch: 803093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-2	SB98 (7.5-10)	TCLP	Solid	6020B	802855
500-256930-3	SB99 (0-3)	TCLP	Solid	6020B	802855
500-256930-4	SB99 (10-12.5)	TCLP	Solid	6020B	802855
500-256930-5	SB100 (0-3)	TCLP	Solid	6020B	802855
500-256930-6	SB100 (3-5)	TCLP	Solid	6020B	802855
500-256930-7	SB101 (0-3)	TCLP	Solid	6020B	802855
500-256930-10	SB102 (7.5-10)	TCLP	Solid	6020B	802855
LB 500-802656/1-B	Method Blank	TCLP	Solid	6020B	802855
LCS 500-802855/2-A	Lab Control Sample	Total/NA	Solid	6020B	802855

Analysis Batch: 803190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	SPLP East	Solid	6010D	803013
500-256930-2	SB98 (7.5-10)	SPLP East	Solid	6010D	803013
500-256930-4	SB99 (10-12.5)	SPLP East	Solid	6010D	803013
500-256930-5	SB100 (0-3)	SPLP East	Solid	6010D	803013
500-256930-6	SB100 (3-5)	SPLP East	Solid	6010D	803013
500-256930-7	SB101 (0-3)	SPLP East	Solid	6010D	803013
500-256930-8	SB101 (12.5-15)	SPLP East	Solid	6010D	803013
500-256930-10	SB102 (7.5-10)	SPLP East	Solid	6010D	803013
LB 500-802828/1-B	Method Blank	SPLP East	Solid	6010D	803013
LCS 500-803013/2-A	Lab Control Sample	Total/NA	Solid	6010D	803013

Analysis Batch: 803207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-256930-1	SB98 (0-3)	SPLP East	Solid	6020B	803013
500-256930-7	SB101 (0-3)	TCLP	Solid	6020B	802855
500-256930-8	SB101 (12.5-15)	SPLP East	Solid	6020B	803013
LB 500-802828/1-B	Method Blank	SPLP East	Solid	6020B	803013
LCS 500-803013/2-A	Lab Control Sample	Total/NA	Solid	6020B	803013

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-630837/2-A
Matrix: Solid
Analysis Batch: 631202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:59	1
Selenium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:59	1
Vanadium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:59	1

Lab Sample ID: LCS 240-630837/3-A
Matrix: Solid
Analysis Batch: 631202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	1.00	0.988		mg/L		99	50 - 150
Selenium	2.00	2.19		mg/L		109	50 - 150
Vanadium	1.00	1.00		mg/L		100	50 - 150

Lab Sample ID: MB 240-633805/2-A
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.050		0.050		mg/L		11/04/24 14:00	11/06/24 05:51	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 05:51	1
Vanadium	<0.050		0.050		mg/L		11/04/24 14:00	11/06/24 05:51	1

Lab Sample ID: LCS 240-633805/3-A
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	1.00	1.01		mg/L		101	50 - 150
Manganese	1.00	0.995		mg/L		99	50 - 150
Vanadium	1.00	1.03		mg/L		103	50 - 150

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0509		mg/L		102	80 - 120
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Chromium	0.200	0.203		mg/L		101	80 - 120
Iron	1.00	0.873		mg/L		87	80 - 120
Silver	0.0500	0.0499		mg/L		100	80 - 120
Selenium	0.100	0.0906		mg/L		91	80 - 120
Vanadium	0.500	0.504		mg/L		101	80 - 120

Lab Sample ID: LCS 500-792712/2-A
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0507		mg/L		101	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-792712/2-A
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Chromium	0.200	0.215		mg/L		107	80 - 120
Copper	0.250	0.258		mg/L		103	80 - 120
Iron	1.00	1.08		mg/L		108	80 - 120
Lead	0.100	0.111		mg/L		111	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Vanadium	0.500	0.544		mg/L		109	80 - 120
Zinc	0.500	0.488		mg/L		98	80 - 120

Lab Sample ID: LCS 500-797836/19-A
Matrix: Solid
Analysis Batch: 798077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 797836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0469		mg/L		94	80 - 120
Cadmium	0.0500	0.0490		mg/L		98	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Iron	1.00	0.929		mg/L		93	80 - 120
Lead	0.100	0.109		mg/L		109	80 - 120
Selenium	0.100	0.0941		mg/L		94	80 - 120
Silver	0.0500	0.0513		mg/L		103	80 - 120

Lab Sample ID: LCS 500-797836/2-A
Matrix: Solid
Analysis Batch: 798077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 797836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0486		mg/L		97	80 - 120
Cadmium	0.0500	0.0478		mg/L		96	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Selenium	0.100	0.0892		mg/L		89	80 - 120
Silver	0.0500	0.0475		mg/L		95	80 - 120
Manganese	0.500	0.480		mg/L		96	80 - 120

Lab Sample ID: LCS 500-802855/2-A
Matrix: Solid
Analysis Batch: 803028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Copper	0.250	0.258		mg/L		103	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120
Nickel	0.500	0.523		mg/L		105	80 - 120
Selenium	0.100	0.108		mg/L		108	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-802855/2-A
Matrix: Solid
Analysis Batch: 803028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.0500	0.0501		mg/L		100	80 - 120
Zinc	0.500	0.557		mg/L		111	80 - 120

Lab Sample ID: LCS 500-803013/2-A
Matrix: Solid
Analysis Batch: 803190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0517		mg/L		103	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Vanadium	0.500	0.507		mg/L		101	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Manganese	0.500	0.495		mg/L		99	80 - 120
Nickel	0.500	0.505		mg/L		101	80 - 120
Selenium	0.100	0.0899		mg/L		90	80 - 120
Silver	0.0500	0.0489		mg/L		98	80 - 120

Lab Sample ID: LB 240-630763/1-B
Matrix: Solid
Analysis Batch: 631202

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630837

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:54	1
Selenium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:54	1
Vanadium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 15:54	1

Lab Sample ID: LB 500-792373/1-C
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 11:55	1
Cadmium	<0.0050		0.0050		mg/L		10/29/24 14:15	10/30/24 11:55	1
Chromium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 11:55	1
Iron	<0.20		0.20		mg/L		10/29/24 14:15	10/30/24 11:55	1
Silver	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 11:55	1
Selenium	<0.050		0.050		mg/L		10/29/24 14:15	10/30/24 11:55	1
Vanadium	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 11:55	1

Lab Sample ID: LB2 500-792414/1-B
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792712

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/28/24 15:40	10/29/24 12:05	1
Cadmium	<0.0050		0.0050		mg/L		10/28/24 15:40	10/29/24 12:05	1
Chromium	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Copper	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Iron	<0.20		0.20		mg/L		10/28/24 15:40	10/29/24 12:05	1
Lead	<0.0075		0.0075		mg/L		10/28/24 15:40	10/29/24 12:05	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB2 500-792414/1-B
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792712

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 12:05	1
Vanadium	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Zinc	<0.10		0.10		mg/L		10/28/24 15:40	10/29/24 12:05	1

Lab Sample ID: LB 500-797618/1-B
Matrix: Solid
Analysis Batch: 798077

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 797836

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		12/03/24 14:57	12/04/24 13:40	1
Cadmium	<0.0050		0.0050		mg/L		12/03/24 14:57	12/04/24 13:40	1
Chromium	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:40	1
Iron	<0.20		0.20		mg/L		12/03/24 14:57	12/04/24 13:40	1
Lead	<0.0075		0.0075		mg/L		12/03/24 14:57	12/04/24 13:40	1
Selenium	<0.050		0.050		mg/L		12/03/24 14:57	12/04/24 13:40	1
Silver	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:40	1

Lab Sample ID: LB 500-802656/1-B
Matrix: Solid
Analysis Batch: 803028

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802855

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:26	01/15/25 13:04	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Copper	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 13:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/14/25 14:26	01/15/25 13:04	1
Nickel	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 13:04	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Zinc	<0.020		0.10	0.020	mg/L		01/14/25 14:26	01/15/25 13:04	1

Lab Sample ID: LB 240-633697/1-B
Matrix: Solid
Analysis Batch: 634193

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 633805

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.050		0.050		mg/L		11/04/24 14:00	11/06/24 05:46	1
Manganese	<0.015		0.015		mg/L		11/04/24 14:00	11/06/24 05:46	1
Vanadium	<0.050		0.050		mg/L		11/04/24 14:00	11/06/24 05:46	1

Lab Sample ID: LB 500-797622/1-B
Matrix: Solid
Analysis Batch: 798077

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 797836

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025		mg/L		12/03/24 14:57	12/04/24 13:27	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802828/1-B
Matrix: Solid
Analysis Batch: 803190

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803013

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/25 14:17	01/16/25 10:51	1
Chromium	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Vanadium	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:17	01/16/25 10:51	1
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Nickel	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:17	01/16/25 10:51	1
Silver	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-630837/2-A
Matrix: Solid
Analysis Batch: 631164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/15/24 14:00	10/16/24 14:02	1
Beryllium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:02	1
Cadmium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:02	1
Iron	<0.10		0.10		mg/L		10/15/24 14:00	10/16/24 14:02	1
Lead	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 14:02	1
Nickel	<0.0020		0.0020		mg/L		10/15/24 14:00	10/16/24 14:02	1
Thallium	<0.0020		0.0020		mg/L		10/15/24 14:00	10/16/24 14:02	1

Lab Sample ID: LCS 240-630837/4-A
Matrix: Solid
Analysis Batch: 631164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.103		mg/L		103	80 - 120
Beryllium	0.500	0.490		mg/L		98	80 - 120
Cadmium	0.500	0.478		mg/L		96	80 - 120
Iron	5.00	4.82		mg/L		96	80 - 120
Lead	0.500	0.481		mg/L		96	80 - 120
Nickel	0.500	0.525		mg/L		105	80 - 120
Thallium	1.00	1.29	*+	mg/L		129	80 - 120

Lab Sample ID: LCS 500-802855/2-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.556		mg/L		111	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-803013/2-A
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.111		mg/L		111	80 - 120

Lab Sample ID: LB 240-630763/1-B
Matrix: Solid
Analysis Batch: 631164

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630837

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/15/24 14:00	10/16/24 13:59	1
Beryllium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 13:59	1
Cadmium	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 13:59	1
Iron	<0.10		0.10		mg/L		10/15/24 14:00	10/16/24 13:59	1
Lead	<0.0010		0.0010		mg/L		10/15/24 14:00	10/16/24 13:59	1
Nickel	0.00339		0.0020		mg/L		10/15/24 14:00	10/16/24 13:59	1
Thallium	<0.0020		0.0020		mg/L		10/15/24 14:00	10/16/24 13:59	1

Lab Sample ID: LB 500-802656/1-B
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802855

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/14/25 14:26	01/15/25 20:33	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 20:33	1

Lab Sample ID: LB 500-802828/1-B
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803013

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:17	01/16/25 14:46	1

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256930-6

Client Sample ID: SB98 (0-3)

Lab Sample ID: 500-256930-1
Matrix: Solid
Date Collected: 09/17/24 09:11
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 11:21
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 15:21

Client Sample ID: SB98 (7.5-10)

Lab Sample ID: 500-256930-2
Matrix: Solid
Date Collected: 09/17/24 09:37
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 11:26
TCLP	Leach	1311			792373	RJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 12:26
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 21:24

Client Sample ID: SB99 (0-3)

Lab Sample ID: 500-256930-3
Matrix: Solid
Date Collected: 09/17/24 10:29
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			797622	RJ	EET CHI	12/02/24 15:12 - 12/03/24 09:12 [1]
SPLP East	Prep	3010A			797836	S1Z	EET CHI	12/03/24 14:57 - 12/03/24 20:57 [1]
SPLP East	Analysis	6010D		1	798077	SJ	EET CHI	12/04/24 13:36
TCLP	Leach	1311			797618	RJ	EET CHI	12/02/24 15:12 - 12/03/24 09:12 [1]
TCLP	Prep	3010A			797836	S1Z	EET CHI	12/03/24 14:57 - 12/03/24 20:57 [1]
TCLP	Analysis	6010D		1	798077	SJ	EET CHI	12/04/24 14:08
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 21:27

Client Sample ID: SB99 (10-12.5)

Lab Sample ID: 500-256930-4
Matrix: Solid
Date Collected: 09/17/24 11:00
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 11:30

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB99 (10-12.5)
Lab Sample ID: 500-256930-4
Date Collected: 09/17/24 11:00
Matrix: Solid
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 ¹
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 ¹
TCLP	Analysis	6010D		1	803028	SJ	EET CHI	01/15/25 13:54
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 ¹
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 ¹
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 21:31

Client Sample ID: SB100 (0-3)
Lab Sample ID: 500-256930-5
Date Collected: 09/17/24 12:05
Matrix: Solid
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 ¹
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 ¹
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 11:43
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 ¹
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 ¹
TCLP	Analysis	6010D		1	803028	SJ	EET CHI	01/15/25 13:59
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 ¹
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 ¹
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 21:35

Client Sample ID: SB100 (3-5)
Lab Sample ID: 500-256930-6
Date Collected: 09/17/24 12:10
Matrix: Solid
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 ¹
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 ¹
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 11:47
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 ¹
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 ¹
TCLP	Analysis	6010D		1	803028	SJ	EET CHI	01/15/25 14:12
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 ¹
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 ¹
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 21:39

Client Sample ID: SB101 (0-3)
Lab Sample ID: 500-256930-7
Date Collected: 09/17/24 13:27
Matrix: Solid
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 ¹
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 ¹
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 11:52

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-256930-6

Client Sample ID: SB101 (0-3)

Lab Sample ID: 500-256930-7

Date Collected: 09/17/24 13:27
Date Received: 09/18/24 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6010D		1	792920	SJ	EET CHI	10/29/24 13:02
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 21:43
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 14:15

Client Sample ID: SB101 (12.5-15)

Lab Sample ID: 500-256930-8

Date Collected: 09/17/24 13:54
Date Received: 09/18/24 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 11:56
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 15:25

Client Sample ID: SB102 (0-3)

Lab Sample ID: 500-256930-9

Date Collected: 09/17/24 14:37
Date Received: 09/18/24 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			633697	DRJ	EET CLE	11/03/24 15:50 - 11/04/24 08:20 [1]
SPLP East	Prep	3010A			633805	BN	EET CLE	11/04/24 14:00
SPLP East	Analysis	6010D		1	634193	KLC	EET CLE	11/06/24 06:49
TCLP	Leach	1311			630763	DRJ	EET CLE	10/14/24 17:10 - 10/15/24 09:15 [1]
TCLP	Prep	3010A			630837	BN	EET CLE	10/15/24 14:00
TCLP	Analysis	6010D		1	631202	RKT	EET CLE	10/16/24 16:51
TCLP	Leach	1311			630763	DRJ	EET CLE	10/14/24 17:10 - 10/15/24 09:15 [1]
TCLP	Prep	3010A			630837	BN	EET CLE	10/15/24 14:00
TCLP	Analysis	6020B		1	632379	AJC	EET CLE	10/24/24 18:55

Client Sample ID: SB102 (7.5-10)

Lab Sample ID: 500-256930-10

Date Collected: 09/17/24 14:57
Date Received: 09/18/24 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 12:00

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB102 (7.5-10)
Lab Sample ID: 500-256930-10

Date Collected: 09/17/24 14:57
Matrix: Solid
Date Received: 09/18/24 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6010D		1	803028	SJ	EET CHI	01/15/25 14:17
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 21:47

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-256930-6
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	02-13-25

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24

Chain of Custody Record

670140 eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☑ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jacob Hamstead	Site Contact:	Date:
Company Name: Pioneer	Tel/Email:	Lab Contact:	Carrier:
Address	Analysis Turnaround Time		
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS		
Phone	TAT if different from Below _____		
Fax	☒ 2 weeks		
Project Name: 3080 S Lake Shore	☐ 1 week		
Site	☐ 2 days		
PO # 24-0126-103	☐ 1 day		

COC No	Sampler	For Lab Use Only:	Job / SDG No
1 of 1 COCs		Walk-in Client Lab Sampling	500-256930

500-256930 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL	TPH	Sulfide	Sample Specific Notes
1	SB98 (0-3)	9/17/24	911	G	SO	4			X	X		
2	SB98 (7.5-10)		937									
3	SB99 (0-3)		1029									
4	SB99 (10-12.5)		1100									
5	SB100 (0-3)		1205								X	
6	SB100 (3-5)		1210									
7	SB101 (0-3)		127									
8	SB101 (12.5-15)		154									
9	SB102 (0-3)		237									
10	SB102 (7.5-10)		257									

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 2.4 Corr'd 2.1 | Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	Pioneer	9/18/24	Received by	EETA	9/18/24 1130
Relinquished by	EETA	9/18/24 1330	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				EETA	9/18/24 1330

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-256930-6

Login Number: 256930
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/14/2025 5:26:49 PM Revision 1

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-257022-4

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
4/14/2025 5:26:49 PM
Revision 1

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-257022-2 — Eurofins Chicago

Job Narrative
500-257022-2

Revision
The report being provided is a revision of the original report sent on 10/17/2024. The report (revision 3) is being revised due to: Add TCLP Ag to SB106 (0-3) per client request.

Report revision history
Revision 1 - 10/24/2024 - Reason - Adding TCLP As, Co, Se per client request.

Revision 2 - 1/17/2025 - Reason - Add TCLP Be, Cr, Cu, Pb, Ni to B106 (0-3) per client request.

Receipt
The samples were received on 9/19/2024 11:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

Metals
Method 6010D: The following sample was diluted to bring the concentration of target / interfering analytes within the calibration range: SB106 (0-3) (500-257022-6). Elevated reporting limits (RLs) are provided.

Method 6010D: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: SB106 (0-3) (500-257022-6). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-257022-3 — Eurofins Chicago

Job Narrative
500-257022-3

Revision
The report being provided is a revision of the original report sent on 10/30/2024. The report (revision 2) is being revised due to: Add SPLP Cu to SB106 (0-3) per client request.

Report revision history
Revision 1 - 11/4/2024 - Reason - Add SPLP As and Se to SB106 (0-3) per client request.

Receipt
The samples were received on 9/19/2024 11:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-257022-4 — Eurofins Chicago

Job Narrative
500-257022-4

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 1) is being revised due to: Add SPLP Mn to SB105 (10-12.5) per client request.

Receipt
The samples were received on 9/19/2024 11:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

Metals
Method 1312: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 500-802828, the temperature was outside of this range. As a result, the test was not compliant with the requirements of 40 CFR Part 261.

Job ID: 500-257022-5 — Eurofins Chicago

Job Narrative
500-257022-5

Receipt
The samples were received on 9/19/2024 11:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB103 (0-3) — Lab Sample ID: 500-257022-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.014	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	0.82		0.20	0.20	mg/L	1		6010D	TCLP
Manganese	0.044		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB103 (5-7.5) — Lab Sample ID: 500-257022-2

No Detections.

Client Sample ID: SB104 (0-3) — Lab Sample ID: 500-257022-3

No Detections.

Client Sample ID: SB105 (0-3) — Lab Sample ID: 500-257022-4

No Detections.

Client Sample ID: SB105 (10-12.5) — Lab Sample ID: 500-257022-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.75		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB106 (0-3) — Lab Sample ID: 500-257022-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	22		0.075		mg/L	5		6010D	TCLP
Nickel	0.043		0.040		mg/L	1		6010D	TCLP
Thallium	0.00051	J	0.0020	0.00051	mg/L	1		6020B	TCLP

Client Sample ID: SB107 (0-3) — Lab Sample ID: 500-257022-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.013	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	3.0		0.20	0.20	mg/L	1		6010D	TCLP
Selenium	0.024	J	0.050	0.020	mg/L	1		6010D	TCLP
Manganese	0.055		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB107 (7.5-10) — Lab Sample ID: 500-257022-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.025		0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CLE
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CLE
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
1312	Synthetic Precipitation Leaching Procedure -East (Metals)	SW846	EET CLE
3010A	Preparation, Total Metals	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-257022-1	SB103 (0-3)	Solid	09/18/24 08:53	09/19/24 11:55
500-257022-2	SB103 (5-7.5)	Solid	09/18/24 09:10	09/19/24 11:55
500-257022-3	SB104 (0-3)	Solid	09/18/24 10:37	09/19/24 11:55
500-257022-4	SB105 (0-3)	Solid	09/18/24 12:05	09/19/24 11:55
500-257022-5	SB105 (10-12.5)	Solid	09/18/24 12:28	09/19/24 11:55
500-257022-6	SB106 (0-3)	Solid	09/18/24 13:37	09/19/24 11:55
500-257022-7	SB107 (0-3)	Solid	09/18/24 14:39	09/19/24 11:55
500-257022-8	SB107 (7.5-10)	Solid	09/18/24 14:58	09/19/24 11:55

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB103 (0-3)
Lab Sample ID: 500-257022-1
Date Collected: 09/18/24 08:53
Matrix: Solid
Date Received: 09/19/24 11:55

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.014	J	0.025	0.010	mg/L		01/14/25 14:26	01/15/25 14:21	1
Iron	0.82		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 14:21	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 14:21	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.044		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 12:05	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 21:51	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB103 (5-7.5)
Lab Sample ID: 500-257022-2
Date Collected: 09/18/24 09:10
Matrix: Solid
Date Received: 09/19/24 11:55

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 12:09	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:17	01/16/25 12:09	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB104 (0-3)
Lab Sample ID: 500-257022-3
Date Collected: 09/18/24 10:37
Matrix: Solid
Date Received: 09/19/24 11:55

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 12:31	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:17	01/16/25 12:13	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB105 (0-3)
Lab Sample ID: 500-257022-4
Date Collected: 09/18/24 12:05
Matrix: Solid
Date Received: 09/19/24 11:55

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:17	01/16/25 12:18	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB105 (10-12.5)
Lab Sample ID: 500-257022-5
Date Collected: 09/18/24 12:28
Matrix: Solid
Date Received: 09/19/24 11:55

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.75**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 12:22	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:17	01/16/25 12:22	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:17	01/16/25 15:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB106 (0-3)
Lab Sample ID: 500-257022-6
Date Collected: 09/18/24 13:37
Matrix: Solid
Date Received: 09/19/24 11:55

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.25		0.25		mg/L		10/15/24 14:00	10/16/24 15:36	5
Beryllium	<0.0040		0.0040		mg/L		10/15/24 14:00	10/16/24 12:08	1
Chromium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 12:08	1
Cobalt	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 12:08	1
Copper	<3.3		3.3		mg/L		10/15/24 14:00	10/16/24 15:36	5
Lead	<0.0075		0.0075		mg/L		10/15/24 14:00	10/16/24 12:08	1
Manganese	**22**		0.075		mg/L		10/15/24 14:00	10/16/24 15:36	5
Nickel	**0.043**		0.040		mg/L		10/15/24 14:00	10/16/24 12:08	1
Selenium	<0.25		0.25		mg/L		10/15/24 14:00	10/16/24 15:36	5
Silver	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 12:08	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/25/24 14:00	10/29/24 06:26	1
Copper	<0.65		0.65		mg/L		10/25/24 14:00	10/29/24 06:26	1
Manganese	<0.015		0.015		mg/L		10/25/24 14:00	10/29/24 06:26	1
Selenium	<0.050		0.050		mg/L		10/25/24 14:00	10/29/24 06:26	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**0.00051**	**J**	0.0020	0.00051	mg/L		02/27/25 14:00	02/28/25 15:10	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB107 (0-3)
Lab Sample ID: 500-257022-7
Date Collected: 09/18/24 14:39
Matrix: Solid
Date Received: 09/19/24 11:55

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:26	01/15/25 14:26	1
Chromium	**0.013**	**J**	0.025	0.010	mg/L		01/14/25 14:26	01/15/25 14:26	1
Iron	**3.0**		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 14:26	1
Selenium	**0.024**	**J**	0.050	0.020	mg/L		01/14/25 14:26	01/15/25 14:26	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 14:26	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 14:26	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.055**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 12:35	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 21:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB107 (7.5-10)
Lab Sample ID: 500-257022-8
Date Collected: 09/18/24 14:58
Matrix: Solid
Date Received: 09/19/24 11:55

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/15/25 14:17	01/16/25 12:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/25 14:17	01/16/25 12:39	1
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:17	01/16/25 12:39	1
Manganese	**0.025**		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 12:39	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:17	01/16/25 12:39	1
Silver	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 12:39	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/15/25 14:17	01/16/25 15:33	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:17	01/16/25 15:33	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 630766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-6	SB106 (0-3)	TCLP	Solid	1311	
LB 240-630766/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 630842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-6	SB106 (0-3)	TCLP	Solid	3010A	630766
LB 240-630766/1-B	Method Blank	TCLP	Solid	3010A	630766
MB 240-630842/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-630842/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 631082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-6	SB106 (0-3)	TCLP	Solid	6010D	630842
500-257022-6	SB106 (0-3)	TCLP	Solid	6010D	630842
LB 240-630766/1-B	Method Blank	TCLP	Solid	6010D	630842
MB 240-630842/2-A	Method Blank	Total/NA	Solid	6010D	630842
LCS 240-630842/3-A	Lab Control Sample	Total/NA	Solid	6010D	630842

Leach Batch: 632368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-6	SB106 (0-3)	SPLP East	Solid	1312	
LB 240-632368/1-B	Method Blank	SPLP East	Solid	1312	
500-257022-6 MS	SB106 (0-3)	SPLP East	Solid	1312	
500-257022-6 MSD	SB106 (0-3)	SPLP East	Solid	1312	

Prep Batch: 632464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-6	SB106 (0-3)	SPLP East	Solid	3010A	632368
LB 240-632368/1-B	Method Blank	SPLP East	Solid	3010A	632368
MB 240-632464/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-632464/3-A	Lab Control Sample	Total/NA	Solid	3010A	
500-257022-6 MS	SB106 (0-3)	SPLP East	Solid	3010A	632368
500-257022-6 MSD	SB106 (0-3)	SPLP East	Solid	3010A	632368

Analysis Batch: 632866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-6	SB106 (0-3)	SPLP East	Solid	6010D	632464
LB 240-632368/1-B	Method Blank	SPLP East	Solid	6010D	632464
MB 240-632464/2-A	Method Blank	Total/NA	Solid	6010D	632464
LCS 240-632464/3-A	Lab Control Sample	Total/NA	Solid	6010D	632464
500-257022-6 MS	SB106 (0-3)	SPLP East	Solid	6010D	632464
500-257022-6 MSD	SB106 (0-3)	SPLP East	Solid	6010D	632464

Leach Batch: 646192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-6	SB106 (0-3)	TCLP	Solid	1311	
LB 240-646192/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 646244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-6	SB106 (0-3)	TCLP	Solid	3010A	646192

Metals (Continued)

Prep Batch: 646244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-646192/1-B	Method Blank	TCLP	Solid	3010A	646192
MB 240-646244/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-646244/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 646448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-6	SB106 (0-3)	TCLP	Solid	6020B	646244
LB 240-646192/1-B	Method Blank	TCLP	Solid	6020B	646244
MB 240-646244/2-A	Method Blank	Total/NA	Solid	6020B	646244
LCS 240-646244/4-A	Lab Control Sample	Total/NA	Solid	6020B	646244

Leach Batch: 792373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-3	SB104 (0-3)	TCLP	Solid	1311	
LB 500-792373/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 792710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-3	SB104 (0-3)	TCLP	Solid	3010A	792373
LB 500-792373/1-C	Method Blank	TCLP	Solid	3010A	792373
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 793149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-3	SB104 (0-3)	TCLP	Solid	6010D	792710
LB 500-792373/1-C	Method Blank	TCLP	Solid	6010D	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6010D	792710

Leach Batch: 802656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	TCLP	Solid	1311	
500-257022-7	SB107 (0-3)	TCLP	Solid	1311	
LB 500-802656/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 802828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	SPLP East	Solid	1312	
500-257022-2	SB103 (5-7.5)	SPLP East	Solid	1312	
500-257022-3	SB104 (0-3)	SPLP East	Solid	1312	
500-257022-4	SB105 (0-3)	SPLP East	Solid	1312	
500-257022-5	SB105 (10-12.5)	SPLP East	Solid	1312	
500-257022-7	SB107 (0-3)	SPLP East	Solid	1312	
500-257022-8	SB107 (7.5-10)	SPLP East	Solid	1312	
LB 500-802828/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 802855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	TCLP	Solid	3010A	802656
500-257022-7	SB107 (0-3)	TCLP	Solid	3010A	802656
LB 500-802656/1-B	Method Blank	TCLP	Solid	3010A	802656
LCS 500-802855/2-A	Lab Control Sample	Total/NA	Solid	3010A	

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Metals

Prep Batch: 803013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	SPLP East	Solid	3010A	802828
500-257022-2	SB103 (5-7.5)	SPLP East	Solid	3010A	802828
500-257022-3	SB104 (0-3)	SPLP East	Solid	3010A	802828
500-257022-4	SB105 (0-3)	SPLP East	Solid	3010A	802828
500-257022-5	SB105 (10-12.5)	SPLP East	Solid	3010A	802828
500-257022-7	SB107 (0-3)	SPLP East	Solid	3010A	802828
500-257022-8	SB107 (7.5-10)	SPLP East	Solid	3010A	802828
LB 500-802828/1-B	Method Blank	SPLP East	Solid	3010A	802828
LCS 500-803013/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 803028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	TCLP	Solid	6010D	802855
500-257022-7	SB107 (0-3)	TCLP	Solid	6010D	802855
LB 500-802656/1-B	Method Blank	TCLP	Solid	6010D	802855
LCS 500-802855/2-A	Lab Control Sample	Total/NA	Solid	6010D	802855

Analysis Batch: 803093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	TCLP	Solid	6020B	802855
500-257022-7	SB107 (0-3)	TCLP	Solid	6020B	802855
LB 500-802656/1-B	Method Blank	TCLP	Solid	6020B	802855
LCS 500-802855/2-A	Lab Control Sample	Total/NA	Solid	6020B	802855

Analysis Batch: 803190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-1	SB103 (0-3)	SPLP East	Solid	6010D	803013
500-257022-2	SB103 (5-7.5)	SPLP East	Solid	6010D	803013
500-257022-3	SB104 (0-3)	SPLP East	Solid	6010D	803013
500-257022-4	SB105 (0-3)	SPLP East	Solid	6010D	803013
500-257022-5	SB105 (10-12.5)	SPLP East	Solid	6010D	803013
500-257022-7	SB107 (0-3)	SPLP East	Solid	6010D	803013
500-257022-8	SB107 (7.5-10)	SPLP East	Solid	6010D	803013
LB 500-802828/1-B	Method Blank	SPLP East	Solid	6010D	803013
LCS 500-803013/2-A	Lab Control Sample	Total/NA	Solid	6010D	803013

Analysis Batch: 803207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257022-5	SB105 (10-12.5)	SPLP East	Solid	6020B	803013
500-257022-8	SB107 (7.5-10)	SPLP East	Solid	6020B	803013
LB 500-802828/1-B	Method Blank	SPLP East	Solid	6020B	803013
LCS 500-803013/2-A	Lab Control Sample	Total/NA	Solid	6020B	803013

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-630842/2-A
Matrix: Solid
Analysis Batch: 631082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 11:27	1
Beryllium	<0.0040		0.0040		mg/L		10/15/24 14:00	10/16/24 11:27	1
Chromium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 11:27	1
Cobalt	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 11:27	1
Copper	<0.65		0.65		mg/L		10/15/24 14:00	10/16/24 11:27	1
Lead	<0.0075		0.0075		mg/L		10/15/24 14:00	10/16/24 11:27	1
Manganese	<0.015		0.015		mg/L		10/15/24 14:00	10/16/24 11:27	1
Nickel	<0.040		0.040		mg/L		10/15/24 14:00	10/16/24 11:27	1
Selenium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 11:27	1
Silver	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 11:27	1

Lab Sample ID: LCS 240-630842/3-A
Matrix: Solid
Analysis Batch: 631082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2.00	2.07		mg/L		104	50 - 150
Beryllium	1.00	1.01		mg/L		101	50 - 150
Chromium	1.00	0.993		mg/L		99	50 - 150
Cobalt	1.00	1.01		mg/L		101	50 - 150
Copper	1.00	0.981		mg/L		98	50 - 150
Lead	1.00	0.970		mg/L		97	50 - 150
Manganese	1.00	1.00		mg/L		100	50 - 150
Nickel	1.00	1.01		mg/L		101	50 - 150
Selenium	2.00	2.15		mg/L		108	50 - 150
Silver	0.100	0.0982		mg/L		98	50 - 150

Lab Sample ID: MB 240-632464/2-A
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/25/24 14:00	10/29/24 06:18	1
Copper	<0.65		0.65		mg/L		10/25/24 14:00	10/29/24 06:18	1
Manganese	<0.015		0.015		mg/L		10/25/24 14:00	10/29/24 06:18	1
Selenium	<0.050		0.050		mg/L		10/25/24 14:00	10/29/24 06:18	1

Lab Sample ID: LCS 240-632464/3-A
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2.00	2.00		mg/L		100	50 - 150
Copper	1.00	0.926		mg/L		93	50 - 150
Manganese	1.00	0.923		mg/L		92	50 - 150
Selenium	2.00	1.98		mg/L		99	50 - 150

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.500	0.512		mg/L		102	80 - 120

Lab Sample ID: LCS 500-802855/2-A
Matrix: Solid
Analysis Batch: 803028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Selenium	0.100	0.108		mg/L		108	80 - 120
Vanadium	0.500	0.507		mg/L		101	80 - 120
Silver	0.0500	0.0501		mg/L		100	80 - 120

Lab Sample ID: LCS 500-803013/2-A
Matrix: Solid
Analysis Batch: 803190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0986		mg/L		99	80 - 120
Beryllium	0.0500	0.0517		mg/L		103	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Manganese	0.500	0.495		mg/L		99	80 - 120
Nickel	0.500	0.505		mg/L		101	80 - 120
Selenium	0.100	0.0899		mg/L		90	80 - 120
Silver	0.0500	0.0489		mg/L		98	80 - 120

Lab Sample ID: LB 240-630766/1-B
Matrix: Solid
Analysis Batch: 631082

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 630842

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 11:22	1
Beryllium	<0.0040		0.0040		mg/L		10/15/24 14:00	10/16/24 11:22	1
Chromium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 11:22	1
Cobalt	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 11:22	1
Copper	<0.65		0.65		mg/L		10/15/24 14:00	10/16/24 11:22	1
Lead	<0.0075		0.0075		mg/L		10/15/24 14:00	10/16/24 11:22	1
Manganese	<0.015		0.015		mg/L		10/15/24 14:00	10/16/24 11:22	1
Nickel	<0.040		0.040		mg/L		10/15/24 14:00	10/16/24 11:22	1
Selenium	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 11:22	1
Silver	<0.050		0.050		mg/L		10/15/24 14:00	10/16/24 11:22	1

Lab Sample ID: LB 500-792373/1-C
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025		mg/L		10/29/24 14:15	10/30/24 11:55	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802656/1-B
Matrix: Solid
Analysis Batch: 803028

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802855

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/14/25 14:26	01/15/25 13:04	1
Chromium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Iron	<0.20		0.20	0.20	mg/L		01/14/25 14:26	01/15/25 13:04	1
Selenium	<0.020		0.050	0.020	mg/L		01/14/25 14:26	01/15/25 13:04	1
Vanadium	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1
Silver	<0.010		0.025	0.010	mg/L		01/14/25 14:26	01/15/25 13:04	1

Lab Sample ID: LB 240-632368/1-B
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 632464

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/25/24 14:00	10/29/24 06:13	1
Copper	<0.65		0.65		mg/L		10/25/24 14:00	10/29/24 06:13	1
Manganese	<0.015		0.015		mg/L		10/25/24 14:00	10/29/24 06:13	1
Selenium	<0.050		0.050		mg/L		10/25/24 14:00	10/29/24 06:13	1

Lab Sample ID: 500-257022-6 MS
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: SB106 (0-3)
Prep Type: SPLP East
Prep Batch: 632464

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.050		5.00	5.23		mg/L		105	75 - 125
Copper	<0.65		0.250	<3.3		mg/L		103	75 - 125
Manganese	<0.015		0.500	0.500		mg/L		99	75 - 125
Selenium	<0.050		1.00	1.03		mg/L		103	75 - 125

Lab Sample ID: 500-257022-6 MSD
Matrix: Solid
Analysis Batch: 632866

Client Sample ID: SB106 (0-3)
Prep Type: SPLP East
Prep Batch: 632464

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	<0.050		5.00	4.77		mg/L		95	75 - 125	9	20
Copper	<0.65		0.250	<3.3		mg/L		95	75 - 125	8	20
Manganese	<0.015		0.500	0.458		mg/L		91	75 - 125	9	20
Selenium	<0.050		1.00	0.952		mg/L		94	75 - 125	8	20

Lab Sample ID: LB 500-802828/1-B
Matrix: Solid
Analysis Batch: 803190

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803013

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/25 14:17	01/16/25 10:51	1
Iron	<0.20		0.20	0.20	mg/L		01/15/25 14:17	01/16/25 10:51	1
Manganese	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Nickel	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1
Selenium	<0.020		0.050	0.020	mg/L		01/15/25 14:17	01/16/25 10:51	1
Silver	<0.010		0.025	0.010	mg/L		01/15/25 14:17	01/16/25 10:51	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-646244/2-A
Matrix: Solid
Analysis Batch: 646448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00051		0.0020	0.00051	mg/L		02/27/25 14:00	02/28/25 14:45	1

Lab Sample ID: LCS 240-646244/4-A
Matrix: Solid
Analysis Batch: 646448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	1.00	1.02		mg/L		102	80 - 120

Lab Sample ID: LCS 500-802855/2-A
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: LCS 500-803013/2-A
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.539		mg/L		108	80 - 120
Thallium	0.100	0.111		mg/L		111	80 - 120

Lab Sample ID: LB 240-646192/1-B
Matrix: Solid
Analysis Batch: 646448

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 646244

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00051		0.0020	0.00051	mg/L		02/27/25 14:00	02/28/25 14:42	1

Lab Sample ID: LB 500-802656/1-B
Matrix: Solid
Analysis Batch: 803093

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802855

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/14/25 14:26	01/15/25 20:33	1

Lab Sample ID: LB 500-802828/1-B
Matrix: Solid
Analysis Batch: 803207

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803013

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/15/25 14:17	01/16/25 14:46	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/15/25 14:17	01/16/25 14:46	1

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB103 (0-3)
Lab Sample ID: 500-257022-1
Date Collected: 09/18/24 08:53
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 12:05
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6010D		1	803028	SJ	EET CHI	01/15/25 14:21
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 21:51

Client Sample ID: SB103 (5-7.5)
Lab Sample ID: 500-257022-2
Date Collected: 09/18/24 09:10
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 12:09

Client Sample ID: SB104 (0-3)
Lab Sample ID: 500-257022-3
Date Collected: 09/18/24 10:37
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 12:13
TCLP	Leach	1311			792373	RJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 12:31

Client Sample ID: SB105 (0-3)
Lab Sample ID: 500-257022-4
Date Collected: 09/18/24 12:05
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 12:18

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB105 (10-12.5)
Lab Sample ID: 500-257022-5
Date Collected: 09/18/24 12:28
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 12:22
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 15:29

Client Sample ID: SB106 (0-3)
Lab Sample ID: 500-257022-6
Date Collected: 09/18/24 13:37
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			632368	DRJ	EET CLE	10/24/24 17:10 - 10/25/24 09:25 [1]
SPLP East	Prep	3010A			632464	BN	EET CLE	10/25/24 14:00
SPLP East	Analysis	6010D		1	632866	RKT	EET CLE	10/29/24 06:26
TCLP	Leach	1311			630766	DRJ	EET CLE	10/14/24 17:10 - 10/15/24 09:15 [1]
TCLP	Prep	3010A			630842	BN	EET CLE	10/15/24 14:00
TCLP	Analysis	6010D		1	631082	KLC	EET CLE	10/16/24 12:08
TCLP	Leach	1311			630766	DRJ	EET CLE	10/14/24 17:10 - 10/15/24 09:15 [1]
TCLP	Prep	3010A			630842	BN	EET CLE	10/15/24 14:00
TCLP	Analysis	6010D		5	631082	KLC	EET CLE	10/16/24 15:36
TCLP	Leach	1311			646192	KLE	EET CLE	02/26/25 15:15 - 02/27/25 07:55 [1]
TCLP	Prep	3010A			646244	XWS6	EET CLE	02/27/25 14:00
TCLP	Analysis	6020B		1	646448	S4FJ	EET CLE	02/28/25 15:10

Client Sample ID: SB107 (0-3)
Lab Sample ID: 500-257022-7
Date Collected: 09/18/24 14:39
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 12:35
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6010D		1	803028	SJ	EET CHI	01/15/25 14:26
TCLP	Leach	1311			802656	RJ	EET CHI	01/13/25 15:27 - 01/14/25 09:27 [1]
TCLP	Prep	3010A			802855	S1Z	EET CHI	01/14/25 14:26 - 01/14/25 20:26 [1]
TCLP	Analysis	6020B		1	803093	RN	EET CHI	01/15/25 21:54

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB107 (7.5-10)
Lab Sample ID: 500-257022-8

Date Collected: 09/18/24 14:58
Matrix: Solid
Date Received: 09/19/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6010D		1	803190	SJ	EET CHI	01/16/25 12:39
SPLP East	Leach	1312			802828	PA	EET CHI	01/14/25 17:07 - 01/15/25 11:07 [1]
SPLP East	Prep	3010A			803013	S1Z	EET CHI	01/15/25 14:17 - 01/15/25 20:17 [1]
SPLP East	Analysis	6020B		1	803207	RN	EET CHI	01/16/25 15:33

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257022-4
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	02-13-25

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	11-14-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	02-27-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-17-24
Wisconsin	State	399167560	08-31-25

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-257022-4

Login Number: 257022
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 3/17/2025 5:47:28 PM Revision 3

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-257105-3

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/17/2025 5:47:28 PM
Revision 3

Authorized for release by
Jim Knapp, Senior Project Manager
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Job ID: 500-257105-2 — Eurofins Chicago

Job Narrative
500-257105-2

Revision
The report being provided is a revision of the original report sent on 10/30/2024. The report (revision 2) is being revised due to: Add additional analytes for samples SB108 (0-3), SB109 (0-3), SB110 (0-3) per client request.

Report revision history
Revision 1 - 11/18/2024 - Reason - The report and EDD have been revised to include TCLP vanadium for sample SB108(0-3)..

Receipt
The samples were received on 9/20/2024 12:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-257105-3 — Eurofins Chicago

Job Narrative
500-257105-3

Revision
The report being provided is a revision of the original report sent on 11/7/2024. The report (revision 3) is being revised due to: Add SPLP Cd, Fe, Ni to SB110 (0-3) per client request.

Report revision history
Revision 1 - 11/22/2024 - Reason - Add SPLP V to SB108 (0-3) per client request.

Revision 2 - 1/21/2025 - Reason - Add SPLP Mn to SB110 (0-3) per client request.

Receipt
The samples were received on 9/20/2024 12:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-257105-4 — Eurofins Chicago

Job Narrative
500-257105-4

Receipt
The samples were received on 09/20/24 12:45. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-257105-5 — Eurofins Chicago

Job Narrative
500-257105-5

Revision
The report being provided is a revision of the original report sent on 1/21/2025. The report (revision 1) is being revised due to: Add SPLP Ni to SB109 (0-3) per client request.

Receipt
The samples were received on 9/20/2024 12:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-257105-6 — Eurofins Chicago

Job Narrative
500-257105-6

Receipt
The samples were received on 9/20/2024 12:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

Metals
Method 6020B: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB109 (5-7.5) (500-257105-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB108 (0-3) — Lab Sample ID: 500-257105-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.051		0.025		mg/L	1		6010D	TCLP
Iron	1.6		0.20		mg/L	1		6010D	TCLP
Manganese	71		0.25		mg/L	10		6010D	TCLP
Vanadium	0.11		0.025		mg/L	1		6010D	TCLP
Vanadium	0.12		0.025		mg/L	1		6010D	SPLP East

Client Sample ID: SB109 (0-3) — Lab Sample ID: 500-257105-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.033		0.025		mg/L	1		6010D	TCLP
Iron	2.8		0.20		mg/L	1		6010D	TCLP
Nickel	0.35		0.025		mg/L	1		6010D	TCLP
Vanadium	0.039		0.025		mg/L	1		6010D	TCLP
Zinc	0.60		0.10		mg/L	1		6010D	TCLP
Manganese	0.11	B	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB109 (5-7.5) — Lab Sample ID: 500-257105-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	9.0		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	1.2	B	0.025	0.010	mg/L	1		6010D	SPLP East
Iron	3.8		0.10	0.047	mg/L	1		6020B	TCLP
Manganese	18	B	0.013	0.0040	mg/L	5		6020B	TCLP

Client Sample ID: SB110 (0-3) — Lab Sample ID: 500-257105-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.047		0.025		mg/L	1		6010D	TCLP
Iron	11		0.20		mg/L	1		6010D	TCLP
Vanadium	0.083		0.025		mg/L	1		6010D	TCLP
Zinc	0.34		0.10		mg/L	1		6010D	TCLP
Vanadium	0.21		0.025		mg/L	1		6010D	SPLP East

Client Sample ID: SB110 (5-7.5) — Lab Sample ID: 500-257105-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.093	B	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB111 (0-3) — Lab Sample ID: 500-257105-6

No Detections.

Client Sample ID: SB111 (3-5) — Lab Sample ID: 500-257105-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.54	B	0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB112 (0-3) — Lab Sample ID: 500-257105-8

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-257105-1	SB108 (0-3)	Solid	09/19/24 09:47	09/20/24 12:45
500-257105-2	SB109 (0-3)	Solid	09/19/24 10:29	09/20/24 12:45
500-257105-3	SB109 (5-7.5)	Solid	09/19/24 10:51	09/20/24 12:45
500-257105-4	SB110 (0-3)	Solid	09/19/24 12:04	09/20/24 12:45
500-257105-5	SB110 (5-7.5)	Solid	09/19/24 12:25	09/20/24 12:45
500-257105-6	SB111 (0-3)	Solid	09/19/24 13:27	09/20/24 12:45
500-257105-7	SB111 (3-5)	Solid	09/19/24 13:34	09/20/24 12:45
500-257105-8	SB112 (0-3)	Solid	09/19/24 14:42	09/20/24 12:45

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB108 (0-3)
Lab Sample ID: 500-257105-1
Date Collected: 09/19/24 09:47
Matrix: Solid
Date Received: 09/20/24 12:45

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/28/24 15:40	10/29/24 13:07	1
Cadmium	<0.0050		0.0050		mg/L		10/28/24 15:40	10/29/24 13:07	1
Chromium	**0.051**		0.025		mg/L		10/28/24 15:40	10/29/24 13:07	1
Iron	**1.6**		0.20		mg/L		10/28/24 15:40	10/29/24 13:07	1
Lead	<0.038		0.038		mg/L		10/28/24 15:40	01/01/25 00:48	5
Manganese	**71**		0.25		mg/L		10/28/24 15:40	10/29/24 21:00	10
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 13:07	1
Silver	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 13:07	1
Vanadium	**0.11**		0.025		mg/L		10/28/24 15:40	10/29/24 13:07	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025		mg/L		11/06/24 08:43	11/06/24 23:36	1
Vanadium	**0.12**		0.025		mg/L		11/06/24 08:43	11/06/24 23:36	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		10/28/24 15:40	10/29/24 16:37	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB109 (0-3)
Date Collected: 09/19/24 10:29
Date Received: 09/20/24 12:45

Lab Sample ID: 500-257105-2
Matrix: Solid

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 13:11	1
Beryllium	<0.0040		0.0040		mg/L		10/28/24 15:40	10/29/24 13:11	1
Cadmium	<0.0050		0.0050		mg/L		10/28/24 15:40	10/29/24 13:11	1
Chromium	**0.033**		0.025		mg/L		10/28/24 15:40	10/29/24 13:11	1
Copper	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 13:11	1
Iron	**2.8**		0.20		mg/L		10/28/24 15:40	10/29/24 13:11	1
Lead	<0.038		0.038		mg/L		10/28/24 15:40	01/01/25 00:53	5
Nickel	**0.35**		0.025		mg/L		10/28/24 15:40	10/29/24 13:11	1
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 13:11	1
Silver	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 13:11	1
Vanadium	**0.039**		0.025		mg/L		10/28/24 15:40	10/29/24 13:11	1
Zinc	**0.60**		0.10		mg/L		10/28/24 15:40	10/29/24 13:11	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.11**	**B**	0.025	0.010	mg/L		01/10/25 14:51	01/13/25 16:38	1
Nickel	<0.010		0.025	0.010	mg/L		01/10/25 14:51	01/13/25 16:38	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		10/28/24 15:40	10/29/24 16:41	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB109 (5-7.5)
Lab Sample ID: 500-257105-3
Date Collected: 09/19/24 10:51
Matrix: Solid
Date Received: 09/20/24 12:45

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**9.0**		0.20	0.20	mg/L		01/10/25 14:51	01/14/25 11:21	1
Manganese	**1.2**	**B**	0.025	0.010	mg/L		01/10/25 14:51	01/13/25 16:42	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:51	01/13/25 16:42	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.8**		0.10	0.047	mg/L		01/27/25 08:09	01/28/25 17:52	1
Manganese	**18**	**B**	0.013	0.0040	mg/L		01/27/25 08:09	01/29/25 13:03	5

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:51	01/13/25 20:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB110 (0-3)
Lab Sample ID: 500-257105-4
Date Collected: 09/19/24 12:04
Matrix: Solid
Date Received: 09/20/24 12:45

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.047**		0.025		mg/L		10/28/24 15:40	10/29/24 13:16	1
Copper	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 13:16	1
Iron	**11**		0.20		mg/L		10/28/24 15:40	10/29/24 13:16	1
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 13:16	1
Silver	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 13:16	1
Vanadium	**0.083**		0.025		mg/L		10/28/24 15:40	10/29/24 13:16	1
Zinc	**0.34**		0.10		mg/L		10/28/24 15:40	10/29/24 13:16	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050		mg/L		11/06/24 08:43	11/07/24 00:02	1
Iron	<0.20		0.20		mg/L		11/06/24 08:43	11/07/24 00:02	1
Manganese	<0.025		0.025		mg/L		11/06/24 08:43	11/07/24 00:02	1
Nickel	<0.025		0.025		mg/L		11/06/24 08:43	11/07/24 00:02	1
Vanadium	**0.21**		0.025		mg/L		11/06/24 08:43	11/07/24 00:02	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 19:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB110 (5-7.5)
Lab Sample ID: 500-257105-5
Date Collected: 09/19/24 12:25
Matrix: Solid
Date Received: 09/20/24 12:45

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.093**	**B**	0.025	0.010	mg/L		01/10/25 14:51	01/13/25 16:47	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:51	01/13/25 16:47	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:51	01/13/25 20:25	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB111 (0-3)
Lab Sample ID: 500-257105-6

Date Collected: 09/19/24 13:27
Matrix: Solid
Date Received: 09/20/24 12:45

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		11/26/24 09:26	11/27/24 00:17	1
Lead	<0.0075		0.0075		mg/L		11/26/24 09:26	11/27/24 00:17	1
Zinc	<0.10		0.10		mg/L		11/26/24 09:26	11/27/24 00:17	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:51	01/13/25 16:51	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:51	01/13/25 20:29	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB111 (3-5)
Lab Sample ID: 500-257105-7
Date Collected: 09/19/24 13:34
Matrix: Solid
Date Received: 09/20/24 12:45

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.54**	**B**	0.025	0.010	mg/L		01/10/25 14:51	01/13/25 17:00	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:51	01/13/25 17:00	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:51	01/13/25 20:33	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB112 (0-3)
Lab Sample ID: 500-257105-8
Date Collected: 09/19/24 14:42
Matrix: Solid
Date Received: 09/20/24 12:45

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:51	01/13/25 16:55	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 792414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	TCLP	Solid	1311	
500-257105-2	SB109 (0-3)	TCLP	Solid	1311	
500-257105-4	SB110 (0-3)	TCLP	Solid	1311	
LB2 500-792414/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 792712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	TCLP	Solid	3010A	792414
500-257105-2	SB109 (0-3)	TCLP	Solid	3010A	792414
500-257105-4	SB110 (0-3)	TCLP	Solid	3010A	792414
LB2 500-792414/1-B	Method Blank	TCLP	Solid	3010A	792414
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 792920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	TCLP	Solid	6010D	792712
500-257105-2	SB109 (0-3)	TCLP	Solid	6010D	792712
500-257105-4	SB110 (0-3)	TCLP	Solid	6010D	792712
LB2 500-792414/1-B	Method Blank	TCLP	Solid	6010D	792712
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	6010D	792712

Analysis Batch: 793041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	TCLP	Solid	6010D	792712

Analysis Batch: 793046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	TCLP	Solid	6020B	792712
500-257105-2	SB109 (0-3)	TCLP	Solid	6020B	792712
LB2 500-792414/1-B	Method Blank	TCLP	Solid	6020B	792712
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	6020B	792712

Leach Batch: 793820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	SPLP East	Solid	1312	
500-257105-4	SB110 (0-3)	SPLP East	Solid	1312	
LB 500-793820/1-B	Method Blank	SPLP East	Solid	1312	
500-257105-1 MS	SB108 (0-3)	SPLP East	Solid	1312	
500-257105-1 DU	SB108 (0-3)	SPLP East	Solid	1312	

Prep Batch: 794087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	SPLP East	Solid	3010A	793820
500-257105-4	SB110 (0-3)	SPLP East	Solid	3010A	793820
LB 500-793820/1-B	Method Blank	SPLP East	Solid	3010A	793820
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-257105-1 MS	SB108 (0-3)	SPLP East	Solid	3010A	793820
500-257105-1 DU	SB108 (0-3)	SPLP East	Solid	3010A	793820

Metals

Analysis Batch: 794312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	SPLP East	Solid	6010D	794087
500-257105-4	SB110 (0-3)	SPLP East	Solid	6010D	794087
LB 500-793820/1-B	Method Blank	SPLP East	Solid	6010D	794087
LCS 500-794087/2-A	Lab Control Sample	Total/NA	Solid	6010D	794087
500-257105-1 MS	SB108 (0-3)	SPLP East	Solid	6010D	794087
500-257105-1 DU	SB108 (0-3)	SPLP East	Solid	6010D	794087

Leach Batch: 796654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-6	SB111 (0-3)	TCLP	Solid	1311	
LB 500-796654/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 797105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-6	SB111 (0-3)	TCLP	Solid	3010A	796654
LB 500-796654/1-B	Method Blank	TCLP	Solid	3010A	796654
LCS 500-797105/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 797315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-6	SB111 (0-3)	TCLP	Solid	6010D	797105
LB 500-796654/1-B	Method Blank	TCLP	Solid	6010D	797105
LCS 500-797105/2-A	Lab Control Sample	Total/NA	Solid	6010D	797105

Analysis Batch: 801390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-1	SB108 (0-3)	TCLP	Solid	6010D	792712
500-257105-2	SB109 (0-3)	TCLP	Solid	6010D	792712
LB2 500-792414/1-B	Method Blank	TCLP	Solid	6010D	792712
LCS 500-792712/2-A	Lab Control Sample	Total/NA	Solid	6010D	792712

Leach Batch: 802316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-2	SB109 (0-3)	SPLP East	Solid	1312	
500-257105-3	SB109 (5-7.5)	SPLP East	Solid	1312	
500-257105-5	SB110 (5-7.5)	SPLP East	Solid	1312	
500-257105-6	SB111 (0-3)	SPLP East	Solid	1312	
500-257105-7	SB111 (3-5)	SPLP East	Solid	1312	
500-257105-8	SB112 (0-3)	SPLP East	Solid	1312	
LB 500-802316/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 802342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-4	SB110 (0-3)	TCLP	Solid	1311	
LB2 500-802342/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 802498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-2	SB109 (0-3)	SPLP East	Solid	3010A	802316
500-257105-3	SB109 (5-7.5)	SPLP East	Solid	3010A	802316
500-257105-5	SB110 (5-7.5)	SPLP East	Solid	3010A	802316

Metals (Continued)

Prep Batch: 802498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-6	SB111 (0-3)	SPLP East	Solid	3010A	802316
500-257105-7	SB111 (3-5)	SPLP East	Solid	3010A	802316
500-257105-8	SB112 (0-3)	SPLP East	Solid	3010A	802316
LB 500-802316/1-B	Method Blank	SPLP East	Solid	3010A	802316
LCS 500-802498/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 802500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-4	SB110 (0-3)	TCLP	Solid	3010A	802342
LB2 500-802342/1-B	Method Blank	TCLP	Solid	3010A	802342
LCS 500-802500/19-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 802745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-3	SB109 (5-7.5)	SPLP East	Solid	6020B	802498
500-257105-4	SB110 (0-3)	TCLP	Solid	6020B	802500
500-257105-5	SB110 (5-7.5)	SPLP East	Solid	6020B	802498
500-257105-6	SB111 (0-3)	SPLP East	Solid	6020B	802498
500-257105-7	SB111 (3-5)	SPLP East	Solid	6020B	802498
LB 500-802316/1-B	Method Blank	SPLP East	Solid	6020B	802498
LB2 500-802342/1-B	Method Blank	TCLP	Solid	6020B	802500
LCS 500-802498/2-A	Lab Control Sample	Total/NA	Solid	6020B	802498
LCS 500-802500/19-A	Lab Control Sample	Total/NA	Solid	6020B	802500

Analysis Batch: 802752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-2	SB109 (0-3)	SPLP East	Solid	6010D	802498
500-257105-3	SB109 (5-7.5)	SPLP East	Solid	6010D	802498
500-257105-5	SB110 (5-7.5)	SPLP East	Solid	6010D	802498
500-257105-6	SB111 (0-3)	SPLP East	Solid	6010D	802498
500-257105-7	SB111 (3-5)	SPLP East	Solid	6010D	802498
500-257105-8	SB112 (0-3)	SPLP East	Solid	6010D	802498
LB 500-802316/1-B	Method Blank	SPLP East	Solid	6010D	802498
LCS 500-802498/2-A	Lab Control Sample	Total/NA	Solid	6010D	802498

Analysis Batch: 802866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-3	SB109 (5-7.5)	SPLP East	Solid	6010D	802498

Leach Batch: 804074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-3	SB109 (5-7.5)	TCLP	Solid	1311	
LB 500-804074/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 804225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-3	SB109 (5-7.5)	TCLP	Solid	3010A	804074
LB 500-804074/1-B	Method Blank	TCLP	Solid	3010A	804074
LCS 500-804225/2-A	Lab Control Sample	Total/NA	Solid	3010A	

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Metals

Analysis Batch: 804522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-3	SB109 (5-7.5)	TCLP	Solid	6020B	804225
LB 500-804074/1-B	Method Blank	TCLP	Solid	6020B	804225
LCS 500-804225/2-A	Lab Control Sample	Total/NA	Solid	6020B	804225

Analysis Batch: 804683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257105-3	SB109 (5-7.5)	TCLP	Solid	6020B	804225

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 500-792712/2-A
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Beryllium	0.0500	0.0507		mg/L		101	80 - 120
Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Chromium	0.200	0.215		mg/L		107	80 - 120
Copper	0.250	0.258		mg/L		103	80 - 120
Iron	1.00	1.08		mg/L		108	80 - 120
Manganese	0.500	0.522		mg/L		104	80 - 120
Lead	0.100	0.111		mg/L		111	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Silver	0.0500	0.0492		mg/L		98	80 - 120
Vanadium	0.500	0.544		mg/L		109	80 - 120
Zinc	0.500	0.488		mg/L		98	80 - 120

Lab Sample ID: LCS 500-792712/2-A
Matrix: Solid
Analysis Batch: 801390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.108		mg/L		108	80 - 120
Beryllium	0.0500	0.0529		mg/L		106	80 - 120
Cadmium	0.0500	0.0519		mg/L		104	80 - 120
Chromium	0.200	0.216		mg/L		108	80 - 120
Copper	0.250	0.263		mg/L		105	80 - 120
Iron	1.00	0.802		mg/L		80	80 - 120
Manganese	0.500	0.520		mg/L		104	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120
Nickel	0.500	0.561		mg/L		112	80 - 120
Selenium	0.100	0.111		mg/L		111	80 - 120
Silver	0.0500	0.0500		mg/L		100	80 - 120
Vanadium	0.500	0.568		mg/L		114	80 - 120
Zinc	0.500	0.465		mg/L		93	80 - 120

Lab Sample ID: LCS 500-794087/2-A
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 794087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0500	0.0494		mg/L		99	80 - 120
Iron	1.00	1.19		mg/L		119	80 - 120
Nickel	0.500	0.513		mg/L		103	80 - 120
Manganese	0.500	0.512		mg/L		102	80 - 120
Vanadium	0.500	0.522		mg/L		104	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-797105/2-A
Matrix: Solid
Analysis Batch: 797315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 797105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.110		mg/L		110	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Zinc	0.500	0.558		mg/L		112	80 - 120

Lab Sample ID: LCS 500-802498/2-A
Matrix: Solid
Analysis Batch: 802752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.909		mg/L		91	80 - 120
Manganese	0.500	0.404		mg/L		81	80 - 120
Nickel	0.500	0.517		mg/L		103	80 - 120
Selenium	0.100	0.0942		mg/L		94	80 - 120

Lab Sample ID: LB2 500-792414/1-B
Matrix: Solid
Analysis Batch: 792920

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792712

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 12:05	1
Beryllium	<0.0040		0.0040		mg/L		10/28/24 15:40	10/29/24 12:05	1
Cadmium	<0.0050		0.0050		mg/L		10/28/24 15:40	10/29/24 12:05	1
Chromium	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Copper	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Iron	<0.20		0.20		mg/L		10/28/24 15:40	10/29/24 12:05	1
Manganese	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Lead	<0.0075		0.0075		mg/L		10/28/24 15:40	10/29/24 12:05	1
Nickel	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	10/29/24 12:05	1
Silver	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Vanadium	<0.025		0.025		mg/L		10/28/24 15:40	10/29/24 12:05	1
Zinc	<0.10		0.10		mg/L		10/28/24 15:40	10/29/24 12:05	1

Lab Sample ID: LB2 500-792414/1-B
Matrix: Solid
Analysis Batch: 801390

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792712

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		10/28/24 15:40	01/01/25 00:14	1
Beryllium	<0.0040		0.0040		mg/L		10/28/24 15:40	01/01/25 00:14	1
Cadmium	<0.0050		0.0050		mg/L		10/28/24 15:40	01/01/25 00:14	1
Chromium	<0.025		0.025		mg/L		10/28/24 15:40	01/01/25 00:14	1
Copper	<0.025		0.025		mg/L		10/28/24 15:40	01/01/25 00:14	1
Iron	0.264		0.20		mg/L		10/28/24 15:40	01/01/25 00:14	1
Manganese	<0.025		0.025		mg/L		10/28/24 15:40	01/01/25 00:14	1
Lead	<0.0075		0.0075		mg/L		10/28/24 15:40	01/01/25 00:14	1
Nickel	<0.025		0.025		mg/L		10/28/24 15:40	01/01/25 00:14	1
Selenium	<0.050		0.050		mg/L		10/28/24 15:40	01/01/25 00:14	1
Silver	<0.025		0.025		mg/L		10/28/24 15:40	01/01/25 00:14	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB2 500-792414/1-B
Matrix: Solid
Analysis Batch: 801390

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792712

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.025		0.025		mg/L		10/28/24 15:40	01/01/25 00:14	1
Zinc	<0.10		0.10		mg/L		10/28/24 15:40	01/01/25 00:14	1

Lab Sample ID: LB 500-796654/1-B
Matrix: Solid
Analysis Batch: 797315

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 797105

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050		mg/L		11/26/24 09:26	11/26/24 23:40	1
Lead	<0.0075		0.0075		mg/L		11/26/24 09:26	11/26/24 23:40	1
Zinc	<0.10		0.10		mg/L		11/26/24 09:26	11/26/24 23:40	1

Lab Sample ID: LB 500-793820/1-B
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 794087

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050		mg/L		11/06/24 08:43	11/06/24 23:27	1
Iron	0.250		0.20		mg/L		11/06/24 08:43	11/06/24 23:27	1
Nickel	<0.025		0.025		mg/L		11/06/24 08:43	11/06/24 23:27	1
Manganese	<0.025		0.025		mg/L		11/06/24 08:43	11/06/24 23:27	1
Vanadium	<0.025		0.025		mg/L		11/06/24 08:43	11/06/24 23:27	1

Lab Sample ID: 500-257105-1 MS
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: SB108 (0-3)
Prep Type: SPLP East
Prep Batch: 794087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cadmium	<0.0050	H	0.0500	0.0496		mg/L		99	75 - 125		
Nickel	<0.025		0.500	0.518		mg/L		104	75 - 125		
Manganese	<0.025		0.500	0.502		mg/L		100	75 - 125		
Vanadium	0.12		0.500	0.652		mg/L		106	75 - 125		

Lab Sample ID: 500-257105-1 DU
Matrix: Solid
Analysis Batch: 794312

Client Sample ID: SB108 (0-3)
Prep Type: SPLP East
Prep Batch: 794087

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cadmium	<0.0050	H		<0.0050		mg/L				NC	20
Iron	<0.20	H		<0.20		mg/L				NC	20
Nickel	<0.025			<0.025		mg/L				NC	20
Manganese	<0.025			<0.025		mg/L				NC	20
Vanadium	0.12			0.123		mg/L				2	20

Lab Sample ID: LB 500-802316/1-B
Matrix: Solid
Analysis Batch: 802752

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802498

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/10/25 14:51	01/13/25 15:28	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802316/1-B
Matrix: Solid
Analysis Batch: 802752

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802498

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0118	J	0.025	0.010	mg/L		01/10/25 14:51	01/13/25 15:28	1
Nickel	<0.010		0.025	0.010	mg/L		01/10/25 14:51	01/13/25 15:28	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:51	01/13/25 15:28	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCS 500-792712/2-A
Matrix: Solid
Analysis Batch: 793046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LCS 500-802498/2-A
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: LCS 500-802500/19-A
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.112		mg/L		112	80 - 120

Lab Sample ID: LCS 500-804225/2-A
Matrix: Solid
Analysis Batch: 804522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 804225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.05		mg/L		105	80 - 120
Manganese	0.500	0.519		mg/L		104	80 - 120

Lab Sample ID: LB2 500-792414/1-B
Matrix: Solid
Analysis Batch: 793046

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792712

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		10/28/24 15:40	10/29/24 16:30	1

Lab Sample ID: LB2 500-802342/1-B
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802500

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/13/25 19:27	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-804074/1-B
Matrix: Solid
Analysis Batch: 804522

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 804225

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.047		0.10	0.047	mg/L		01/27/25 08:09	01/28/25 17:47	1
Manganese	0.000907	J	0.0025	0.00079	mg/L		01/27/25 08:09	01/28/25 17:47	1

Lab Sample ID: LB 500-802316/1-B
Matrix: Solid
Analysis Batch: 802745

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802498

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:51	01/13/25 19:39	1

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB108 (0-3)
Lab Sample ID: 500-257105-1
Date Collected: 09/19/24 09:47
Matrix: Solid
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6010D		1	794312	SJ	EET CHI	11/06/24 23:36
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6010D		5	801390	RB	EET CHI	01/01/25 00:48
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6010D		1	792920	SJ	EET CHI	10/29/24 13:07
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6010D		10	793041	SJ	EET CHI	10/29/24 21:00
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6020B		1	793046	RN	EET CHI	10/29/24 16:37

Client Sample ID: SB109 (0-3)
Lab Sample ID: 500-257105-2
Date Collected: 09/19/24 10:29
Matrix: Solid
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 16:38
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6010D		5	801390	RB	EET CHI	01/01/25 00:53
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6010D		1	792920	SJ	EET CHI	10/29/24 13:11
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6020B		1	793046	RN	EET CHI	10/29/24 16:41

Client Sample ID: SB109 (5-7.5)
Lab Sample ID: 500-257105-3
Date Collected: 09/19/24 10:51
Matrix: Solid
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 11:21
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 16:42

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257105-3

Client Sample ID: SB109 (5-7.5)

Lab Sample ID: 500-257105-3
Matrix: Solid
Date Collected: 09/19/24 10:51
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 20:21
TCLP	Leach	1311			804074	TJ	EET CHI	01/24/25 14:26 - 01/25/25 08:26 [1]
TCLP	Prep	3010A			804225	BDE	EET CHI	01/27/25 08:09 - 01/27/25 14:09 [1]
TCLP	Analysis	6020B		5	804683	RN	EET CHI	01/29/25 13:03
TCLP	Leach	1311			804074	TJ	EET CHI	01/24/25 14:26 - 01/25/25 08:26 [1]
TCLP	Prep	3010A			804225	BDE	EET CHI	01/27/25 08:09 - 01/27/25 14:09 [1]
TCLP	Analysis	6020B		1	804522	RN	EET CHI	01/28/25 17:52

Client Sample ID: SB110 (0-3)

Lab Sample ID: 500-257105-4
Matrix: Solid
Date Collected: 09/19/24 12:04
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			793820	JL	EET CHI	11/04/24 17:28 - 11/05/24 11:28 [1]
SPLP East	Prep	3010A			794087	BDE	EET CHI	11/06/24 08:43 - 11/06/24 14:43 [1]
SPLP East	Analysis	6010D		1	794312	SJ	EET CHI	11/07/24 00:02
TCLP	Leach	1311			792414	PA	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792712	S1Z	EET CHI	10/28/24 15:40 - 10/28/24 21:40 [1]
TCLP	Analysis	6010D		1	792920	SJ	EET CHI	10/29/24 13:16
TCLP	Leach	1311			802342	JL	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 19:35

Client Sample ID: SB110 (5-7.5)

Lab Sample ID: 500-257105-5
Matrix: Solid
Date Collected: 09/19/24 12:25
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 16:47
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 20:25

Client Sample ID: SB111 (0-3)

Lab Sample ID: 500-257105-6
Matrix: Solid
Date Collected: 09/19/24 13:27
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 16:51

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB111 (0-3)
Lab Sample ID: 500-257105-6
Date Collected: 09/19/24 13:27
Matrix: Solid
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			796654	PA	EET CHI	11/22/24 16:45 - 11/23/24 10:45 [1]
TCLP	Prep	3010A			797105	BDE	EET CHI	11/26/24 09:26 - 11/26/24 15:26 [1]
TCLP	Analysis	6010D		1	797315	SJ	EET CHI	11/27/24 00:17
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 20:29

Client Sample ID: SB111 (3-5)
Lab Sample ID: 500-257105-7
Date Collected: 09/19/24 13:34
Matrix: Solid
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 17:00
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6020B		1	802745	RN	EET CHI	01/13/25 20:33

Client Sample ID: SB112 (0-3)
Lab Sample ID: 500-257105-8
Date Collected: 09/19/24 14:42
Matrix: Solid
Date Received: 09/20/24 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802316	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
SPLP East	Prep	3010A			802498	S1Z	EET CHI	01/10/25 14:51 - 01/10/25 20:51 [1]
SPLP East	Analysis	6010D		1	802752	RB	EET CHI	01/13/25 16:55

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257105-3
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	02-13-25

Chain of Custody Record

670144

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARRISON	Site Contact:	Date:	COC No: 1 of 1 COCs
Company Name: PIONEER	Tel/Email: JHARRISON@PIONEERNA.COM	Lab Contact:	Carrier:	Sampler
Address	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
City/State/Zip	TAT if different from Below: ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Walk-in Client
Phone				Lab Sampling
Fax				
Project Name: 5080 S LAKE SHORE				Job / SDG No: 500-257105
Site				
PO #: 24-0124-103				

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TPH		5080 LAKE SHORE	Sample Specific Notes
1	SB108 (0-3)	9/19/24	947	G	SO	4			X	X	X	
2	SB109 (0-3)		1029								X	
3	SB109 (5-7.5)		1057								X	
4	SB110 (0-3)		1204						X	X		
5	SB110 (5-7.5)		1225									
6	SB111 (0-3)		127								X	
7	SB111 (3-5)		134									
8	SB112 (0-3)		242									

500-257105 COC

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 3.6 Corr'd 3.5 | Therm ID No

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	9/20/24	Received by	EETA	9/20/24 1130
Relinquished by	EETA 9/20/24	1245	Received by:	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by: Stephanie Hernandez	Company: EETA	Date/Time: 9/20/24 1245

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-257105-3

Login Number: 257105
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 1/29/2025 5:50:41 PM Revision 1

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-257169-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
1/29/2025 5:50:41 PM
Revision 1

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-257169-2 — Eurofins Chicago

Job Narrative
500-257169-2

Receipt
The samples were received on 09/23/24 12:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-257169-3 Eurofins Chicago

Job Narrative
500-257169-3

Revision
The report being provided is a revision of the original report sent on 1/17/2025. The report (revision 1) is being revised due to: Add additional SPLP analytes per client request.

Receipt
The samples were received on 9/23/2024 12:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-257169-4 — Eurofins Chicago

Job Narrative
500-257169-4

Receipt
The samples were received on 9/23/2024 12:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB113 (0-3) — Lab Sample ID: 500-257169-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.40		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.089		0.025	0.010	mg/L	1		6010D	SPLP East
Vanadium	0.015	J	0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0019	J	0.0060	0.0013	mg/L	1		6020B	SPLP East

Client Sample ID: SB113 (10-12.5) — Lab Sample ID: 500-257169-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0037	J B	0.0060	0.0013	mg/L	1		6020B	SPLP East

Client Sample ID: SB114 (0-3) — Lab Sample ID: 500-257169-3

No Detections.

Client Sample ID: SB114 (7.5-12) — Lab Sample ID: 500-257169-4

No Detections.

Client Sample ID: SB115 (0-3) — Lab Sample ID: 500-257169-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.32		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.093		0.025	0.010	mg/L	1		6010D	SPLP East

Client Sample ID: SB115 (5-7.5) — Lab Sample ID: 500-257169-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.019	J	0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0029	J	0.0060	0.0013	mg/L	1		6020B	SPLP East

Client Sample ID: SB116 (0-3) — Lab Sample ID: 500-257169-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.013	J	0.025	0.010	mg/L	1		6010D	TCLP
Iron	4.9		0.20	0.20	mg/L	1		6010D	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010D	TCLP
Silver	0.033		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.061	J	0.10	0.020	mg/L	1		6010D	TCLP
Iron	0.39		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.038		0.025	0.010	mg/L	1		6010D	SPLP East
Vanadium	0.014	J	0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0032	J	0.0060	0.0013	mg/L	1		6020B	SPLP East

Client Sample ID: SB116 (12.5-15) — Lab Sample ID: 500-257169-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.019		0.0060	0.0013	mg/L	1		6020B	SPLP East

Client Sample ID: SB117 (0-3) — Lab Sample ID: 500-257169-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.025		0.025	0.010	mg/L	1		6010D	SPLP East
Antimony	0.0020	J	0.0060	0.0013	mg/L	1		6020B	SPLP East

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB117 (5-7.5)
Lab Sample ID: 500-257169-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.41		0.20	0.20	mg/L	1		6010D	SPLP East
Manganese	0.039		0.025	0.010	mg/L	1		6010D	SPLP East

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-257169-1	SB113 (0-3)	Solid	09/20/24 08:17	09/23/24 12:50
500-257169-2	SB113 (10-12.5)	Solid	09/20/24 08:42	09/23/24 12:50
500-257169-3	SB114 (0-3)	Solid	09/20/24 09:27	09/23/24 12:50
500-257169-4	SB114 (7.5-12)	Solid	09/20/24 09:43	09/23/24 12:50
500-257169-5	SB115 (0-3)	Solid	09/20/24 10:14	09/23/24 12:50
500-257169-6	SB115 (5-7.5)	Solid	09/20/24 10:26	09/23/24 12:50
500-257169-7	SB116 (0-3)	Solid	09/20/24 11:37	09/23/24 12:50
500-257169-8	SB116 (12.5-15)	Solid	09/20/24 11:59	09/23/24 12:50
500-257169-9	SB117 (0-3)	Solid	09/20/24 13:00	09/23/24 12:50
500-257169-10	SB117 (5-7.5)	Solid	09/20/24 13:09	09/23/24 12:50

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB113 (0-3)
Lab Sample ID: 500-257169-1
Date Collected: 09/20/24 08:17
Matrix: Solid
Date Received: 09/23/24 12:50

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:27	01/13/25 17:38	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:38	1
Iron	**0.40**		0.20	0.20	mg/L		01/12/25 16:27	01/13/25 17:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/12/25 16:27	01/13/25 17:38	1
Manganese	**0.089**		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:38	1
Silver	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:38	1
Vanadium	**0.015**	**J**	0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:38	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0019**	**J**	0.0060	0.0013	mg/L		01/12/25 16:27	01/13/25 16:51	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:27	01/13/25 16:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB113 (10-12.5)
Lab Sample ID: 500-257169-2
Date Collected: 09/20/24 08:42
Matrix: Solid
Date Received: 09/23/24 12:50

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/16/25 14:21	01/17/25 14:11	1
Iron	<0.20		0.20	0.20	mg/L		01/16/25 14:21	01/17/25 14:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/16/25 14:21	01/17/25 14:11	1
Manganese	<0.010		0.025	0.010	mg/L		01/16/25 14:21	01/17/25 14:11	1
Vanadium	<0.010		0.025	0.010	mg/L		01/16/25 14:21	01/17/25 14:11	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0037	J B	0.0060	0.0013	mg/L		01/16/25 14:21	01/24/25 14:53	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB114 (0-3)
Lab Sample ID: 500-257169-3
Date Collected: 09/20/24 09:27
Matrix: Solid
Date Received: 09/23/24 12:50

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 12:35	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:27	01/13/25 17:55	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:55	1
Iron	<0.20		0.20	0.20	mg/L		01/12/25 16:27	01/13/25 17:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/12/25 16:27	01/13/25 17:55	1
Manganese	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:55	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:27	01/13/25 17:55	1
Silver	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:55	1
Vanadium	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:55	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/12/25 16:27	01/13/25 17:01	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:27	01/13/25 17:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB114 (7.5-12)
Lab Sample ID: 500-257169-4

Date Collected: 09/20/24 09:43
Matrix: Solid
Date Received: 09/23/24 12:50

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:27	01/13/25 17:59	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:59	1
Iron	<0.20		0.20	0.20	mg/L		01/12/25 16:27	01/13/25 17:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/12/25 16:27	01/13/25 17:59	1
Manganese	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:59	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:27	01/13/25 17:59	1
Silver	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:59	1
Vanadium	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:59	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/12/25 16:27	01/13/25 17:03	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:27	01/13/25 17:03	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB115 (0-3)
Lab Sample ID: 500-257169-5
Date Collected: 09/20/24 10:14
Matrix: Solid
Date Received: 09/23/24 12:50

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/12/25 16:27	01/13/25 18:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:27	01/13/25 18:04	1
Iron	**0.32**		0.20	0.20	mg/L		01/12/25 16:27	01/13/25 18:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/12/25 16:27	01/13/25 18:04	1
Manganese	**0.093**		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 18:04	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:27	01/13/25 18:04	1
Silver	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 18:04	1
Zinc	<0.020		0.10	0.020	mg/L		01/12/25 16:27	01/13/25 18:04	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:27	01/13/25 17:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB115 (5-7.5)
Lab Sample ID: 500-257169-6
Date Collected: 09/20/24 10:26
Matrix: Solid
Date Received: 09/23/24 12:50

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:20	01/14/25 12:36	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:36	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:20	01/14/25 12:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:20	01/14/25 12:36	1
Manganese	**0.019**	**J**	0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:36	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:20	01/14/25 12:36	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:36	1
Vanadium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:36	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0029**	**J**	0.0060	0.0013	mg/L		01/13/25 14:20	01/14/25 17:30	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:20	01/14/25 17:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB116 (0-3)
Lab Sample ID: 500-257169-7
Date Collected: 09/20/24 11:37
Matrix: Solid
Date Received: 09/23/24 12:50

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 17:16	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 17:16	1
Chromium	**0.013**	**J**	0.025	0.010	mg/L		01/10/25 14:52	01/13/25 17:16	1
Iron	**4.9**		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 17:16	1
Lead	<0.038		0.038	0.038	mg/L		01/10/25 14:52	01/14/25 12:53	5
Nickel	**0.017**	**J**	0.025	0.010	mg/L		01/10/25 14:52	01/13/25 17:16	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 17:16	1
Silver	**0.033**		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 17:16	1
Zinc	**0.061**	**J**	0.10	0.020	mg/L		01/10/25 14:52	01/13/25 17:16	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:41	1
Iron	**0.39**		0.20	0.20	mg/L		01/13/25 14:20	01/14/25 12:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:20	01/14/25 12:41	1
Manganese	**0.038**		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:41	1
Vanadium	**0.014**	**J**	0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:41	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/14/25 17:20	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0032**	**J**	0.0060	0.0013	mg/L		01/13/25 14:20	01/24/25 15:04	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB116 (12.5-15)
Lab Sample ID: 500-257169-8
Date Collected: 09/20/24 11:59
Matrix: Solid
Date Received: 09/23/24 12:50

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:45	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:20	01/14/25 12:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:20	01/14/25 12:45	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:20	01/14/25 12:45	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:45	1
Vanadium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:45	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.019**		0.0060	0.0013	mg/L		01/13/25 14:20	01/14/25 17:32	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:20	01/14/25 17:32	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB117 (0-3)
Lab Sample ID: 500-257169-9

Date Collected: 09/20/24 13:00
Matrix: Solid
Date Received: 09/23/24 12:50

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:58	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:20	01/14/25 12:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:20	01/14/25 12:58	1
Manganese	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:58	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:20	01/14/25 12:58	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:58	1
Vanadium	**0.025**		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:58	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0020**	**J**	0.0060	0.0013	mg/L		01/13/25 14:20	01/14/25 17:40	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:20	01/14/25 17:40	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB117 (5-7.5)
Lab Sample ID: 500-257169-10
Date Collected: 09/20/24 13:09
Matrix: Solid
Date Received: 09/23/24 12:50

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:02	1
Iron	**0.41**		0.20	0.20	mg/L		01/13/25 14:20	01/14/25 13:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:20	01/14/25 13:02	1
Manganese	**0.039**		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:02	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:20	01/14/25 13:02	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:02	1
Vanadium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 13:02	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/13/25 14:20	01/14/25 17:42	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:20	01/14/25 17:42	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 792373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-3	SB114 (0-3)	TCLP	Solid	1311	
LB 500-792373/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 792710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-3	SB114 (0-3)	TCLP	Solid	3010A	792373
LB 500-792373/1-C	Method Blank	TCLP	Solid	3010A	792373
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 793149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-3	SB114 (0-3)	TCLP	Solid	6010D	792710
LB 500-792373/1-C	Method Blank	TCLP	Solid	6010D	792710
LCS 500-792710/2-A	Lab Control Sample	Total/NA	Solid	6010D	792710

Leach Batch: 802305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-7	SB116 (0-3)	TCLP	Solid	1311	
LB 500-802305/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 802448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	SPLP East	Solid	1312	
500-257169-3	SB114 (0-3)	SPLP East	Solid	1312	
500-257169-4	SB114 (7.5-12)	SPLP East	Solid	1312	
500-257169-5	SB115 (0-3)	SPLP East	Solid	1312	
LB 500-802448/1-B	Method Blank	SPLP East	Solid	1312	
500-257169-1 MS	SB113 (0-3)	SPLP East	Solid	1312	
500-257169-1 DU	SB113 (0-3)	SPLP East	Solid	1312	

Prep Batch: 802500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-7	SB116 (0-3)	TCLP	Solid	3010A	802305
LB 500-802305/1-B	Method Blank	TCLP	Solid	3010A	802305
LCS 500-802500/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Leach Batch: 802544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-6	SB115 (5-7.5)	SPLP East	Solid	1312	
500-257169-7	SB116 (0-3)	SPLP East	Solid	1312	
500-257169-8	SB116 (12.5-15)	SPLP East	Solid	1312	
500-257169-9	SB117 (0-3)	SPLP East	Solid	1312	
500-257169-10	SB117 (5-7.5)	SPLP East	Solid	1312	
LB 500-802544/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 802548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	SPLP East	Solid	3010A	802448
500-257169-3	SB114 (0-3)	SPLP East	Solid	3010A	802448
500-257169-4	SB114 (7.5-12)	SPLP East	Solid	3010A	802448
500-257169-5	SB115 (0-3)	SPLP East	Solid	3010A	802448

Metals (Continued)

Prep Batch: 802548 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-802448/1-B	Method Blank	SPLP East	Solid	3010A	802448
LCS 500-802548/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-257169-1 MS	SB113 (0-3)	SPLP East	Solid	3010A	802448
500-257169-1 DU	SB113 (0-3)	SPLP East	Solid	3010A	802448

Prep Batch: 802681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-6	SB115 (5-7.5)	SPLP East	Solid	3010A	802544
500-257169-7	SB116 (0-3)	SPLP East	Solid	3010A	802544
500-257169-7	SB116 (0-3)	SPLP East	Solid	3010A	802544
500-257169-8	SB116 (12.5-15)	SPLP East	Solid	3010A	802544
500-257169-9	SB117 (0-3)	SPLP East	Solid	3010A	802544
500-257169-10	SB117 (5-7.5)	SPLP East	Solid	3010A	802544
LB 500-802544/1-B	Method Blank	SPLP East	Solid	3010A	802544
LCS 500-802681/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 802739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	SPLP East	Solid	6020B	802548
500-257169-3	SB114 (0-3)	SPLP East	Solid	6020B	802548
500-257169-4	SB114 (7.5-12)	SPLP East	Solid	6020B	802548
500-257169-5	SB115 (0-3)	SPLP East	Solid	6020B	802548
LB 500-802448/1-B	Method Blank	SPLP East	Solid	6020B	802548
LCS 500-802548/2-A	Lab Control Sample	Total/NA	Solid	6020B	802548
500-257169-1 MS	SB113 (0-3)	SPLP East	Solid	6020B	802548
500-257169-1 DU	SB113 (0-3)	SPLP East	Solid	6020B	802548

Analysis Batch: 802753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-1	SB113 (0-3)	SPLP East	Solid	6010D	802548
500-257169-3	SB114 (0-3)	SPLP East	Solid	6010D	802548
500-257169-4	SB114 (7.5-12)	SPLP East	Solid	6010D	802548
500-257169-5	SB115 (0-3)	SPLP East	Solid	6010D	802548
500-257169-7	SB116 (0-3)	TCLP	Solid	6010D	802500
LB 500-802305/1-B	Method Blank	TCLP	Solid	6010D	802500
LB 500-802448/1-B	Method Blank	SPLP East	Solid	6010D	802548
LCS 500-802500/2-A	Lab Control Sample	Total/NA	Solid	6010D	802500
LCS 500-802548/2-A	Lab Control Sample	Total/NA	Solid	6010D	802548
500-257169-1 MS	SB113 (0-3)	SPLP East	Solid	6010D	802548
500-257169-1 DU	SB113 (0-3)	SPLP East	Solid	6010D	802548

Analysis Batch: 802866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-6	SB115 (5-7.5)	SPLP East	Solid	6010D	802681
500-257169-7	SB116 (0-3)	SPLP East	Solid	6010D	802681
500-257169-8	SB116 (12.5-15)	SPLP East	Solid	6010D	802681
500-257169-9	SB117 (0-3)	SPLP East	Solid	6010D	802681
500-257169-10	SB117 (5-7.5)	SPLP East	Solid	6010D	802681
LB 500-802544/1-B	Method Blank	SPLP East	Solid	6010D	802681
LCS 500-802681/2-A	Lab Control Sample	Total/NA	Solid	6010D	802681

Metals

Analysis Batch: 802870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-7	SB116 (0-3)	TCLP	Solid	6010D	802500

Analysis Batch: 802934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-6	SB115 (5-7.5)	SPLP East	Solid	6020B	802681
500-257169-7	SB116 (0-3)	TCLP	Solid	6020B	802500
500-257169-8	SB116 (12.5-15)	SPLP East	Solid	6020B	802681
500-257169-9	SB117 (0-3)	SPLP East	Solid	6020B	802681
500-257169-10	SB117 (5-7.5)	SPLP East	Solid	6020B	802681
LB 500-802305/1-B	Method Blank	TCLP	Solid	6020B	802500
LB 500-802544/1-B	Method Blank	SPLP East	Solid	6020B	802681
LCS 500-802500/2-A	Lab Control Sample	Total/NA	Solid	6020B	802500
LCS 500-802681/2-A	Lab Control Sample	Total/NA	Solid	6020B	802681

Leach Batch: 802980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-2	SB113 (10-12.5)	SPLP East	Solid	1312	
LB 500-802980/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 803176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-2	SB113 (10-12.5)	SPLP East	Solid	3010A	802980
LB 500-802980/1-B	Method Blank	SPLP East	Solid	3010A	802980
LCS 500-803176/5-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 803427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-2	SB113 (10-12.5)	SPLP East	Solid	6010D	803176
LB 500-802980/1-B	Method Blank	SPLP East	Solid	6010D	803176
LCS 500-803176/5-A	Lab Control Sample	Total/NA	Solid	6010D	803176

Analysis Batch: 804283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257169-2	SB113 (10-12.5)	SPLP East	Solid	6020B	803176
500-257169-7	SB116 (0-3)	SPLP East	Solid	6020B	802681
LB 500-802544/1-B	Method Blank	SPLP East	Solid	6020B	802681
LB 500-802980/1-B	Method Blank	SPLP East	Solid	6020B	803176
LCS 500-802681/2-A	Lab Control Sample	Total/NA	Solid	6020B	802681
LCS 500-803176/5-A	Lab Control Sample	Total/NA	Solid	6020B	803176

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 500-792710/2-A
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0509		mg/L		102	80 - 120

Lab Sample ID: LCS 500-802500/2-A
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0501		mg/L		100	80 - 120
Cadmium	0.0500	0.0500		mg/L		100	80 - 120
Chromium	0.200	0.212		mg/L		106	80 - 120
Iron	1.00	0.921		mg/L		92	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Nickel	0.500	0.540		mg/L		108	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0489		mg/L		98	80 - 120
Zinc	0.500	0.558		mg/L		112	80 - 120

Lab Sample ID: LCS 500-802548/2-A
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.101		mg/L		101	80 - 120
Beryllium	0.0500	0.0495		mg/L		99	80 - 120
Chromium	0.200	0.205		mg/L		102	80 - 120
Iron	1.00	0.931		mg/L		93	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Manganese	0.500	0.496		mg/L		99	80 - 120
Selenium	0.100	0.0958		mg/L		96	80 - 120
Silver	0.0500	0.0466		mg/L		93	80 - 120
Vanadium	0.500	0.501		mg/L		100	80 - 120
Zinc	0.500	0.470		mg/L		94	80 - 120

Lab Sample ID: LCS 500-802681/2-A
Matrix: Solid
Analysis Batch: 802866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0994		mg/L		99	80 - 120
Beryllium	0.0500	0.0492		mg/L		98	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0995		mg/L		99	80 - 120
Manganese	0.500	0.518		mg/L		104	80 - 120
Selenium	0.100	0.0931		mg/L		93	80 - 120
Silver	0.0500	0.0575		mg/L		115	80 - 120
Vanadium	0.500	0.460		mg/L		92	80 - 120
Zinc	0.500	0.469		mg/L		94	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-803176/5-A
Matrix: Solid
Analysis Batch: 803427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803176

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.196		mg/L		98	80 - 120
Iron	1.00	0.981		mg/L		98	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Vanadium	0.500	0.497		mg/L		99	80 - 120

Lab Sample ID: LB 500-792373/1-C
Matrix: Solid
Analysis Batch: 793149

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 792710

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040		mg/L		10/29/24 14:15	10/30/24 11:55	1

Lab Sample ID: LB 500-802305/1-B
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802500

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/10/25 14:52	01/13/25 15:49	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		01/10/25 14:52	01/13/25 15:49	1
Chromium	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Iron	<0.20		0.20	0.20	mg/L		01/10/25 14:52	01/13/25 15:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/10/25 14:52	01/13/25 15:49	1
Nickel	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Selenium	<0.020		0.050	0.020	mg/L		01/10/25 14:52	01/13/25 15:49	1
Silver	<0.010		0.025	0.010	mg/L		01/10/25 14:52	01/13/25 15:49	1
Zinc	<0.020		0.10	0.020	mg/L		01/10/25 14:52	01/13/25 15:49	1

Lab Sample ID: LB 500-802448/1-B
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802548

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/12/25 16:27	01/13/25 17:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/25 16:27	01/13/25 17:29	1
Chromium	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:29	1
Iron	<0.20		0.20	0.20	mg/L		01/12/25 16:27	01/13/25 17:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/12/25 16:27	01/13/25 17:29	1
Manganese	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:29	1
Selenium	<0.020		0.050	0.020	mg/L		01/12/25 16:27	01/13/25 17:29	1
Silver	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:29	1
Vanadium	<0.010		0.025	0.010	mg/L		01/12/25 16:27	01/13/25 17:29	1
Zinc	<0.020		0.10	0.020	mg/L		01/12/25 16:27	01/13/25 17:29	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-257169-1 MS
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: SB113 (0-3)
Prep Type: SPLP East
Prep Batch: 802548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.010		0.100	0.104		mg/L		104	75 - 125
Beryllium	<0.0040		0.0500	0.0505		mg/L		101	75 - 125
Chromium	<0.010		0.200	0.209		mg/L		104	75 - 125
Iron	0.40		1.00	1.19		mg/L		79	75 - 125
Lead	<0.0075		0.100	0.108		mg/L		108	75 - 125
Manganese	0.089		0.500	0.536		mg/L		89	75 - 125
Selenium	<0.020		0.100	0.0987		mg/L		99	75 - 125
Silver	<0.010		0.0500	0.0475		mg/L		95	75 - 125
Vanadium	0.015	J	0.500	0.521		mg/L		101	75 - 125
Zinc	<0.020		0.500	0.487		mg/L		97	75 - 125

Lab Sample ID: 500-257169-1 DU
Matrix: Solid
Analysis Batch: 802753

Client Sample ID: SB113 (0-3)
Prep Type: SPLP East
Prep Batch: 802548

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<0.010		<0.010		mg/L		NC	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Chromium	<0.010		<0.010		mg/L		NC	20
Iron	0.40		0.475		mg/L		18	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	0.089		0.0889		mg/L		0.3	20
Selenium	<0.020		<0.020		mg/L		NC	20
Silver	<0.010		<0.010		mg/L		NC	20
Vanadium	0.015	J	0.0146	J	mg/L		3	20
Zinc	<0.020		<0.020		mg/L		NC	20

Lab Sample ID: LB 500-802544/1-B
Matrix: Solid
Analysis Batch: 802866

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802681

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		01/13/25 14:20	01/14/25 12:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/25 14:20	01/14/25 12:06	1
Chromium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:06	1
Iron	<0.20		0.20	0.20	mg/L		01/13/25 14:20	01/14/25 12:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/25 14:20	01/14/25 12:06	1
Manganese	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:06	1
Selenium	<0.020		0.050	0.020	mg/L		01/13/25 14:20	01/14/25 12:06	1
Silver	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:06	1
Vanadium	<0.010		0.025	0.010	mg/L		01/13/25 14:20	01/14/25 12:06	1
Zinc	<0.020		0.10	0.020	mg/L		01/13/25 14:20	01/14/25 12:06	1

Lab Sample ID: LB 500-802980/1-B
Matrix: Solid
Analysis Batch: 803427

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803176

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.025	0.010	mg/L		01/16/25 14:21	01/17/25 13:18	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 500-802980/1-B
Matrix: Solid
Analysis Batch: 803427

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803176

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/16/25 14:21	01/17/25 13:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/16/25 14:21	01/17/25 13:18	1
Manganese	<0.010		0.025	0.010	mg/L		01/16/25 14:21	01/17/25 13:18	1
Vanadium	<0.010		0.025	0.010	mg/L		01/16/25 14:21	01/17/25 13:18	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCS 500-802500/2-A
Matrix: Solid
Analysis Batch: 802934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.0946		mg/L		95	80 - 120

Lab Sample ID: LCS 500-802548/2-A
Matrix: Solid
Analysis Batch: 802739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.466		mg/L		93	80 - 120
Thallium	0.100	0.0995		mg/L		100	80 - 120

Lab Sample ID: LCS 500-802681/2-A
Matrix: Solid
Analysis Batch: 802934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.483		mg/L		97	80 - 120
Thallium	0.100	0.0985		mg/L		99	80 - 120

Lab Sample ID: LCS 500-802681/2-A
Matrix: Solid
Analysis Batch: 804283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.480		mg/L		96	80 - 120

Lab Sample ID: LCS 500-803176/5-A
Matrix: Solid
Analysis Batch: 804283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 803176

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.477		mg/L		95	80 - 120

Lab Sample ID: LB 500-802305/1-B
Matrix: Solid
Analysis Batch: 802934

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 802500

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00057		0.0020	0.00057	mg/L		01/10/25 14:52	01/14/25 17:15	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-802448/1-B
Matrix: Solid
Analysis Batch: 802739

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802548

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/12/25 16:27	01/13/25 16:46	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/12/25 16:27	01/13/25 16:46	1

Lab Sample ID: 500-257169-1 MS
Matrix: Solid
Analysis Batch: 802739

Client Sample ID: SB113 (0-3)
Prep Type: SPLP East
Prep Batch: 802548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0019	J	0.500	0.477		mg/L		95	75 - 125
Thallium	<0.00057		0.100	0.101		mg/L		101	75 - 125

Lab Sample ID: 500-257169-1 DU
Matrix: Solid
Analysis Batch: 802739

Client Sample ID: SB113 (0-3)
Prep Type: SPLP East
Prep Batch: 802548

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.0019	J	<0.0013		mg/L		NC	20
Thallium	<0.00057		<0.00057		mg/L		NC	20

Lab Sample ID: LB 500-802544/1-B
Matrix: Solid
Analysis Batch: 802934

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802681

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/13/25 14:20	01/14/25 17:25	1
Thallium	<0.00057		0.0020	0.00057	mg/L		01/13/25 14:20	01/14/25 17:25	1

Lab Sample ID: LB 500-802544/1-B
Matrix: Solid
Analysis Batch: 804283

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 802681

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0013		0.0060	0.0013	mg/L		01/13/25 14:20	01/24/25 14:57	1

Lab Sample ID: LB 500-802980/1-B
Matrix: Solid
Analysis Batch: 804283

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 803176

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00191	J	0.0060	0.0013	mg/L		01/16/25 14:21	01/24/25 14:45	1

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-257169-2

Client Sample ID: SB113 (0-3)
Date Collected: 09/20/24 08:17
Date Received: 09/23/24 12:50

Lab Sample ID: 500-257169-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802448	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802548	S1Z	EET CHI	01/12/25 16:27 - 01/12/25 22:27 [1]
SPLP East	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 17:38
SPLP East	Leach	1312			802448	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802548	S1Z	EET CHI	01/12/25 16:27 - 01/12/25 22:27 [1]
SPLP East	Analysis	6020B		1	802739	RN	EET CHI	01/13/25 16:51

Client Sample ID: SB113 (10-12.5)
Date Collected: 09/20/24 08:42
Date Received: 09/23/24 12:50

Lab Sample ID: 500-257169-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802980	RJ	EET CHI	01/15/25 13:38 - 01/16/25 07:38 [1]
SPLP East	Prep	3010A			803176	S1Z	EET CHI	01/16/25 14:21 - 01/16/25 20:21 [1]
SPLP East	Analysis	6010D		1	803427	RB	EET CHI	01/17/25 14:11
SPLP East	Leach	1312			802980	RJ	EET CHI	01/15/25 13:38 - 01/16/25 07:38 [1]
SPLP East	Prep	3010A			803176	S1Z	EET CHI	01/16/25 14:21 - 01/16/25 20:21 [1]
SPLP East	Analysis	6020B		1	804283	RN	EET CHI	01/24/25 14:53

Client Sample ID: SB114 (0-3)
Date Collected: 09/20/24 09:27
Date Received: 09/23/24 12:50

Lab Sample ID: 500-257169-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802448	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802548	S1Z	EET CHI	01/12/25 16:27 - 01/12/25 22:27 [1]
SPLP East	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 17:55
TCLP	Leach	1311			792373	RJ	EET CHI	10/25/24 17:49 - 10/26/24 11:49 [1]
TCLP	Prep	3010A			792710	S1Z	EET CHI	10/29/24 14:15 - 10/29/24 20:15 [1]
TCLP	Analysis	6010D		1	793149	SJ	EET CHI	10/30/24 12:35
SPLP East	Leach	1312			802448	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802548	S1Z	EET CHI	01/12/25 16:27 - 01/12/25 22:27 [1]
SPLP East	Analysis	6020B		1	802739	RN	EET CHI	01/13/25 17:01

Client Sample ID: SB114 (7.5-12)
Date Collected: 09/20/24 09:43
Date Received: 09/23/24 12:50

Lab Sample ID: 500-257169-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802448	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802548	S1Z	EET CHI	01/12/25 16:27 - 01/12/25 22:27 [1]
SPLP East	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 17:59
SPLP East	Leach	1312			802448	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802548	S1Z	EET CHI	01/12/25 16:27 - 01/12/25 22:27 [1]
SPLP East	Analysis	6020B		1	802739	RN	EET CHI	01/13/25 17:03

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB115 (0-3)
Lab Sample ID: 500-257169-5
Date Collected: 09/20/24 10:14
Matrix: Solid
Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802448	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802548	S1Z	EET CHI	01/12/25 16:27 - 01/12/25 22:27 [1]
SPLP East	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 18:04
SPLP East	Leach	1312			802448	JL	EET CHI	01/10/25 14:06 - 01/11/25 08:06 [1]
SPLP East	Prep	3010A			802548	S1Z	EET CHI	01/12/25 16:27 - 01/12/25 22:27 [1]
SPLP East	Analysis	6020B		1	802739	RN	EET CHI	01/13/25 17:06

Client Sample ID: SB115 (5-7.5)
Lab Sample ID: 500-257169-6
Date Collected: 09/20/24 10:26
Matrix: Solid
Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 12:36
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6020B		1	802934	RN	EET CHI	01/14/25 17:30

Client Sample ID: SB116 (0-3)
Lab Sample ID: 500-257169-7
Date Collected: 09/20/24 11:37
Matrix: Solid
Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 12:41
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		1	802753	RB	EET CHI	01/13/25 17:16
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6010D		5	802870	SJ	EET CHI	01/14/25 12:53
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6020B		1	804283	RN	EET CHI	01/24/25 15:04
TCLP	Leach	1311			802305	PA	EET CHI	01/09/25 15:37 - 01/10/25 09:37 [1]
TCLP	Prep	3010A			802500	S1Z	EET CHI	01/10/25 14:52 - 01/10/25 20:52 [1]
TCLP	Analysis	6020B		1	802934	RN	EET CHI	01/14/25 17:20

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB116 (12.5-15)
Lab Sample ID: 500-257169-8
Date Collected: 09/20/24 11:59
Matrix: Solid
Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 12:45
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6020B		1	802934	RN	EET CHI	01/14/25 17:32

Client Sample ID: SB117 (0-3)
Lab Sample ID: 500-257169-9
Date Collected: 09/20/24 13:00
Matrix: Solid
Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 12:58
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6020B		1	802934	RN	EET CHI	01/14/25 17:40

Client Sample ID: SB117 (5-7.5)
Lab Sample ID: 500-257169-10
Date Collected: 09/20/24 13:09
Matrix: Solid
Date Received: 09/23/24 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6010D		1	802866	SJ	EET CHI	01/14/25 13:02
SPLP East	Leach	1312			802544	RJ	EET CHI	01/12/25 14:23 - 01/13/25 08:23 [1]
SPLP East	Prep	3010A			802681	S1Z	EET CHI	01/13/25 14:20 - 01/13/25 20:20 [1]
SPLP East	Analysis	6020B		1	802934	RN	EET CHI	01/14/25 17:42

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-257169-2
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

Chain of Custody Record

670149 eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☒ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JACOB HARTSOCK	Site Contact:	Date:	COC No
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier:	1 of 1 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☒ 2 weeks			Lab Sampling
Project Name: 8080 S LAKE SHORE	☐ 1 week			
Site	☐ 2 days			Job / SDG No: 500-257169
PO# 24-0124-103	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL TAL	SUL FIDE	500-257169 COC	Sample Specific Notes
1	SB113 (0-3)	9/20/24	817	G	SO	4			X			
2	SB 113 (10-12.5)		842						X			
3	SB114 (0-3)		927									
4	SB114 (7.5-10)		943									
5	SB115 (0-3)		1014									
6	SB115 (5-7.5)		1026									
7	SB116 (0-3)		1137									
8	SB116 (12.5-15)		1159									
9	SB117 (0-3)		100									
10	SB117 (5-7.5)		109						X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: STIRS IN FREEZER 9/20 @ 4:43

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd 1.9 Corr'd 1.6 Therm ID No _____		
Relinquished by	Company: PIONEER	Date/Time: 9/20/24	Received by: Tristan Bryant	Company: EETA	Date/Time: 9/23/24 1030
Relinquished by: Tristan Bryant	Company: EETA	Date/Time: 9/23/24 1250	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received at Laboratory by: [illegible]	Company: EETA	Date/Time: 9/23/24 1250

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-257169-3

Login Number: 257169
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 4/8/2025 3:45:26 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-266122-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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4/8/2025 3:45:26 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-266122-1 — Eurofins Chicago

Job Narrative
500-266122-1

Receipt
The samples were received on 04/02/25 11:35. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266122-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB143 (0-3) — Lab Sample ID: 500-266122-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.030		0.010		mg/L	1		6010D	SPLP East

Client Sample ID: SB143 (15-17.5) — Lab Sample ID: 500-266122-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	67		0.20		mg/L	1		6010D	SPLP East
Manganese	3.4		0.010		mg/L	1		6010D	SPLP East

Client Sample ID: SB144 (12.5-15) — Lab Sample ID: 500-266122-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266122-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CHI
1312	Synthetic Precipitation Leaching Procedure -East	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266122-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-266122-1	SB143 (0-3)	Solid	04/01/25 14:33	04/02/25 11:35
500-266122-2	SB143 (15-17.5)	Solid	04/01/25 14:40	04/02/25 11:35
500-266122-3	SB144 (12.5-15)	Solid	04/01/25 15:31	04/02/25 11:35

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266122-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB143 (0-3)
Lab Sample ID: 500-266122-1
Date Collected: 04/01/25 14:33
Matrix: Solid
Date Received: 04/02/25 11:35

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.030		0.010		mg/L		04/04/25 14:27	04/08/25 00:09	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266122-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB143 (15-17.5)
Lab Sample ID: 500-266122-2
Date Collected: 04/01/25 14:40
Matrix: Solid
Date Received: 04/02/25 11:35

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	67		0.20		mg/L		04/04/25 14:27	04/08/25 00:26	1
Manganese	3.4		0.010		mg/L		04/04/25 14:27	04/08/25 00:26	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		04/04/25 14:27	04/07/25 17:06	1

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266122-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB144 (12.5-15)
Lab Sample ID: 500-266122-3
Date Collected: 04/01/25 15:31
Matrix: Solid
Date Received: 04/02/25 11:35

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20		mg/L		04/04/25 14:25	04/08/25 04:31	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266122-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 812097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266122-3	SB144 (12.5-15)	TCLP	Solid	1311	
LB 500-812097/1-C	Method Blank	TCLP	Solid	1311	
500-266122-3 MS	SB144 (12.5-15)	TCLP	Solid	1311	
500-266122-3 DU	SB144 (12.5-15)	TCLP	Solid	1311	

Leach Batch: 812328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266122-1	SB143 (0-3)	SPLP East	Solid	1312	
500-266122-2	SB143 (15-17.5)	SPLP East	Solid	1312	
LB 500-812328/1-B	Method Blank	SPLP East	Solid	1312	
500-266122-1 MS	SB143 (0-3)	SPLP East	Solid	1312	
500-266122-1 DU	SB143 (0-3)	SPLP East	Solid	1312	

Prep Batch: 812582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266122-3	SB144 (12.5-15)	TCLP	Solid	3010A	812097
LB 500-812097/1-C	Method Blank	TCLP	Solid	3010A	812097
LCS 500-812582/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-266122-3 MS	SB144 (12.5-15)	TCLP	Solid	3010A	812097
500-266122-3 DU	SB144 (12.5-15)	TCLP	Solid	3010A	812097

Prep Batch: 812584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266122-1	SB143 (0-3)	SPLP East	Solid	3010A	812328
500-266122-2	SB143 (15-17.5)	SPLP East	Solid	3010A	812328
LB 500-812328/1-B	Method Blank	SPLP East	Solid	3010A	812328
LCS 500-812584/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-266122-1 MS	SB143 (0-3)	SPLP East	Solid	3010A	812328
500-266122-1 DU	SB143 (0-3)	SPLP East	Solid	3010A	812328

Analysis Batch: 812821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266122-3	SB144 (12.5-15)	TCLP	Solid	6010D	812582
LB 500-812097/1-C	Method Blank	TCLP	Solid	6010D	812582
LCS 500-812582/2-A	Lab Control Sample	Total/NA	Solid	6010D	812582
500-266122-3 MS	SB144 (12.5-15)	TCLP	Solid	6010D	812582
500-266122-3 DU	SB144 (12.5-15)	TCLP	Solid	6010D	812582

Analysis Batch: 812822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266122-1	SB143 (0-3)	SPLP East	Solid	6010D	812584
500-266122-2	SB143 (15-17.5)	SPLP East	Solid	6010D	812584
LB 500-812328/1-B	Method Blank	SPLP East	Solid	6010D	812584
LCS 500-812584/2-A	Lab Control Sample	Total/NA	Solid	6010D	812584
500-266122-1 MS	SB143 (0-3)	SPLP East	Solid	6010D	812584
500-266122-1 DU	SB143 (0-3)	SPLP East	Solid	6010D	812584

Analysis Batch: 812827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266122-2	SB143 (15-17.5)	SPLP East	Solid	6020B	812584
LB 500-812328/1-B	Method Blank	SPLP East	Solid	6020B	812584

Metals (Continued)

Analysis Batch: 812827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-812584/2-A	Lab Control Sample	Total/NA	Solid	6020B	812584

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 500-812582/2-A
Matrix: Solid
Analysis Batch: 812821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 812582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.985		mg/L		99	80 - 120

Lab Sample ID: LCS 500-812584/2-A
Matrix: Solid
Analysis Batch: 812822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 812584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.09		mg/L		109	80 - 120
Manganese	0.500	0.516		mg/L		103	80 - 120

Lab Sample ID: LB 500-812097/1-C
Matrix: Solid
Analysis Batch: 812821

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 812582

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20		mg/L		04/04/25 14:25	04/08/25 04:22	1

Lab Sample ID: 500-266122-3 MS
Matrix: Solid
Analysis Batch: 812821

Client Sample ID: SB144 (12.5-15)
Prep Type: TCLP
Prep Batch: 812582

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	<0.20		1.00	0.883		mg/L		88	75 - 125

Lab Sample ID: 500-266122-3 DU
Matrix: Solid
Analysis Batch: 812821

Client Sample ID: SB144 (12.5-15)
Prep Type: TCLP
Prep Batch: 812582

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	<0.20		<0.20		mg/L		NC	20

Lab Sample ID: LB 500-812328/1-B
Matrix: Solid
Analysis Batch: 812822

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 812584

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20		mg/L		04/04/25 14:27	04/08/25 00:00	1
Manganese	<0.010		0.010		mg/L		04/04/25 14:27	04/08/25 00:00	1

Lab Sample ID: 500-266122-1 MS
Matrix: Solid
Analysis Batch: 812822

Client Sample ID: SB143 (0-3)
Prep Type: SPLP East
Prep Batch: 812584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.71	F1	1.00	2.02	F1	mg/L		131	75 - 125
Manganese	0.030		0.500	0.558		mg/L		106	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-266122-1 DU
Matrix: Solid
Analysis Batch: 812822

Client Sample ID: SB143 (0-3)
Prep Type: SPLP East
Prep Batch: 812584

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	0.71	F1	0.711		mg/L		0.2	20
Manganese	0.030		0.0293		mg/L		1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCS 500-812584/2-A
Matrix: Solid
Analysis Batch: 812827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 812584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.0999		mg/L		100	80 - 120

Lab Sample ID: LB 500-812328/1-B
Matrix: Solid
Analysis Batch: 812827

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 812584

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		04/04/25 14:27	04/07/25 17:01	1

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266122-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB143 (0-3)
Lab Sample ID: 500-266122-1
Date Collected: 04/01/25 14:33
Matrix: Solid
Date Received: 04/02/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			812328	JL	EET CHI	04/03/25 15:07 - 04/04/25 09:07 [1]
SPLP East	Prep	3010A			812584	S1Z	EET CHI	04/04/25 14:27 - 04/04/25 20:27 [1]
SPLP East	Analysis	6010D		1	812822	RB	EET CHI	04/08/25 00:09

Client Sample ID: SB143 (15-17.5)
Lab Sample ID: 500-266122-2
Date Collected: 04/01/25 14:40
Matrix: Solid
Date Received: 04/02/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			812328	JL	EET CHI	04/03/25 15:07 - 04/04/25 09:07 [1]
SPLP East	Prep	3010A			812584	S1Z	EET CHI	04/04/25 14:27 - 04/04/25 20:27 [1]
SPLP East	Analysis	6010D		1	812822	RB	EET CHI	04/08/25 00:26
SPLP East	Leach	1312			812328	JL	EET CHI	04/03/25 15:07 - 04/04/25 09:07 [1]
SPLP East	Prep	3010A			812584	S1Z	EET CHI	04/04/25 14:27 - 04/04/25 20:27 [1]
SPLP East	Analysis	6020B		1	812827	RN	EET CHI	04/07/25 17:06

Client Sample ID: SB144 (12.5-15)
Lab Sample ID: 500-266122-3
Date Collected: 04/01/25 15:31
Matrix: Solid
Date Received: 04/02/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			812097	JL	EET CHI	04/03/25 15:07 - 04/04/25 09:07 [1]
TCLP	Prep	3010A			812582	S1Z	EET CHI	04/04/25 14:25 - 04/04/25 20:25 [1]
TCLP	Analysis	6010D		1	812821	RB	EET CHI	04/08/25 04:31

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266122-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

Chain of Custody Record 734267

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Address _____

Regulatory Program: ☐ DW ☑ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARBOCK	Site Contact.	Date:	COC No 1
Company Name PIONEER	Tel/Email:	Lab Contact:	Carrier.	1 of 1 COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below			Walk-in Client
Fax	☐ 2 weeks STAND			Lab Sampling
Project Name	☐ 1 week			
Site 8080 S LAKE SHORE DR	☐ 2 days			Job / SDG No
P O #	☐ 1 day			500-266122

500-266122 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SPLP Mn	SPLP Fe, Mn, Th	TCLP Fe	Sample Specific Notes
1	SB143 (0-3)	4/1/25	233	G	SO	1			X			
2	SB143 (15-17.5)	↓	240	↓	↓	↓				X		
3	SB144 (12.5-15)	↓	331	↓	↓	↓					X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

26+22

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	4/2/25	[signature]	EETA	4/2/25 1025
[signature]	EETA 4/2/25	1135			
			Received in Laboratory by Stephanie Hernandez	EETA	4/2/25 1135

4/8/2025

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-266122-1

Login Number: 266122
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 5/5/2025 4:28:06 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-266534-3

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
5/5/2025 4:28:06 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-266534-3 — Eurofins Chicago

Job Narrative
500-266534-3

Receipt
The sample was received on 4/9/2025 3:12 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB145 (0-3)
Lab Sample ID: 500-266534-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0021		0.0020	0.00043	mg/L	1		6010D	TCLP
Chromium	0.0064	J	0.010	0.0017	mg/L	1		6010D	TCLP
Manganese	1.0		0.010	0.0023	mg/L	1		6010D	TCLP
Zinc	0.066		0.020	0.0050	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-3
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-3
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-266534-1	SB145 (0-3)	Solid	04/08/25 10:04	04/09/25 15:12

Client Sample Results

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB145 (0-3)
Lab Sample ID: 500-266534-1

Date Collected: 04/08/25 10:04
Matrix: Solid
Date Received: 04/09/25 15:12

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0021**		0.0020	0.00043	mg/L		05/05/25 08:41	05/05/25 13:41	1
Chromium	**0.0064**	**J**	0.010	0.0017	mg/L		05/05/25 08:41	05/05/25 13:41	1
Iron	<0.082		0.20	0.082	mg/L		05/05/25 08:41	05/05/25 13:41	1
Manganese	**1.0**		0.010	0.0023	mg/L		05/05/25 08:41	05/05/25 13:41	1
Zinc	**0.066**		0.020	0.0050	mg/L		05/05/25 08:41	05/05/25 13:41	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-3
Project/Site: 8080 District (24-0124-103)

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-3
Project/Site: 8080 District (24-0124-103)

Metals

Leach Batch: 813351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	TCLP	Solid	1311	
LB 500-813351/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 816317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	TCLP	Solid	3010A	813351
LB 500-813351/1-D	Method Blank	TCLP	Solid	3010A	813351
LCS 500-816317/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 816391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-266534-1	SB145 (0-3)	TCLP	Solid	6010D	816317
LB 500-813351/1-D	Method Blank	TCLP	Solid	6010D	816317
LCS 500-816317/2-A	Lab Control Sample	Total/NA	Solid	6010D	816317

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-3
Project/Site: 8080 District (24-0124-103)

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 500-816317/2-A
Matrix: Solid
Analysis Batch: 816391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 816317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0500	0.0469		mg/L		94	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Iron	1.00	0.983		mg/L		98	80 - 120
Manganese	0.500	0.465		mg/L		93	80 - 120
Zinc	0.500	0.422		mg/L		84	80 - 120

Lab Sample ID: LB 500-813351/1-D
Matrix: Solid
Analysis Batch: 816391

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 816317

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.00043		0.0020	0.00043	mg/L		05/05/25 08:41	05/05/25 13:32	1
Chromium	<0.0017		0.010	0.0017	mg/L		05/05/25 08:41	05/05/25 13:32	1
Iron	<0.082		0.20	0.082	mg/L		05/05/25 08:41	05/05/25 13:32	1
Manganese	<0.0023		0.010	0.0023	mg/L		05/05/25 08:41	05/05/25 13:32	1
Zinc	<0.0050		0.020	0.0050	mg/L		05/05/25 08:41	05/05/25 13:32	1

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-3
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB145 (0-3)
Lab Sample ID: 500-266534-1

Date Collected: 04/08/25 10:04
Matrix: Solid

Date Received: 04/09/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			813351	JL	EET CHI	04/11/25 12:13 - 04/12/25 06:13 [1]
TCLP	Prep	3010A			816317	BDE	EET CHI	05/05/25 08:41 - 05/05/25 14:41 [1]
TCLP	Analysis	6010D		1	816391	SJ	EET CHI	05/05/25 13:41

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-266534-3
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-26

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-266534-3

Login Number: 266534
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 11/18/2024 5:40:10 PM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-258873-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

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Job Notes

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Authorization

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Revision 2

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Job Narrative
500-258873-1

REVISION

The report being provided is a revision of the original report sent on 11/13/2024. The report (revision 2) is being revised due to The report and EDD have been revised to include all results. There was an error with last revision..

Report revision history
Revision 1 - 11/13/2024 - Reason - The report and EDD have been revised to remove results for method 8270E as samples were prepared past the holdtime.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/22/2024 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-792563 was outside the method criteria for the following analyte(s): 1,2-Dibromo-3-Chloropropane, Benzene and Naphthalene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The following analyte(s) recovered outside control limits for the LCS associated with analytical batch 500-792563: Benzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
Method 8082A: The laboratory control sample duplicate (LCSD) for preparation batch 500-792182 and analytical batch 500-792336 recovered outside control limits for the following analytes: PCB-1016 and PCB-1260. All analytes were within the QC limits in the LCS; therefore, the data have been reported.

Method 8082A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-792182 and analytical batch 500-792336 recovered outside control limits for the following analytes: PCB-1016 and PCB-1260.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: The laboratory control sample duplicate (LCSD) for preparation batch 500-792182 and analytical batch 500-792323 recovered outside control limits for the following analytes: gamma-Chlordane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8081B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-792182 and analytical batch 500-792323 recovered outside control limits for the following analytes: gamma-Chlordane.

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No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: NMW-4
Lab Sample ID: 500-258873-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	21		0.10		mg/L	1		6020B	Total Recoverable
Antimony	0.011		0.0030		mg/L	1		6020B	Total Recoverable
Arsenic	0.062		0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.32		0.0025		mg/L	1		6020B	Total Recoverable
Beryllium	0.0029		0.0010		mg/L	1		6020B	Total Recoverable
Cadmium	0.0045		0.00050		mg/L	1		6020B	Total Recoverable
Calcium	210		0.20		mg/L	1		6020B	Total Recoverable
Chromium	0.12		0.0050		mg/L	1		6020B	Total Recoverable
Cobalt	0.022		0.0010		mg/L	1		6020B	Total Recoverable
Copper	0.22		0.0020		mg/L	1		6020B	Total Recoverable
Iron	86		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.56		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	76		0.20		mg/L	1		6020B	Total Recoverable
Manganese	4.9		0.0025		mg/L	1		6020B	Total Recoverable
Nickel	0.061		0.0020		mg/L	1		6020B	Total Recoverable
Potassium	13		0.50		mg/L	1		6020B	Total Recoverable
Selenium	0.0080		0.0025		mg/L	1		6020B	Total Recoverable
Silver	0.00056		0.00050		mg/L	1		6020B	Total Recoverable
Sodium	140		0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.084		0.0050		mg/L	1		6020B	Total Recoverable
Zinc	1.1		0.020		mg/L	1		6020B	Total Recoverable
Aluminum	0.41		0.10		mg/L	1		6020B	Dissolved
Arsenic	0.0023		0.0010		mg/L	1		6020B	Dissolved
Barium	0.022		0.0025		mg/L	1		6020B	Dissolved
Calcium	37		0.20		mg/L	1		6020B	Dissolved
Copper	0.0029		0.0020		mg/L	1		6020B	Dissolved
Iron	1.7		0.10		mg/L	1		6020B	Dissolved
Lead	0.0059		0.00050		mg/L	1		6020B	Dissolved
Magnesium	9.8		0.20		mg/L	1		6020B	Dissolved
Manganese	0.17		0.0025		mg/L	1		6020B	Dissolved
Potassium	1.6		0.50		mg/L	1		6020B	Dissolved
Sodium	2.4		0.20		mg/L	1		6020B	Dissolved
Mercury	0.00049		0.00020		mg/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: NMW-2
Lab Sample ID: 500-258873-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	0.0010		0.0010		mg/L	1		8260D	Total/NA
Xylenes, Total	0.0011		0.0010		mg/L	1		8260D	Total/NA
Aluminum	17		0.10		mg/L	1		6020B	Total Recoverable
Antimony	0.0053		0.0030		mg/L	1		6020B	Total Recoverable
Arsenic	0.012		0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.15		0.0025		mg/L	1		6020B	Total Recoverable
Cadmium	0.00080		0.00050		mg/L	1		6020B	Total Recoverable
Calcium	130		0.20		mg/L	1		6020B	Total Recoverable
Chromium	0.036		0.0050		mg/L	1		6020B	Total Recoverable
Cobalt	0.0091		0.0010		mg/L	1		6020B	Total Recoverable
Copper	0.085		0.0020		mg/L	1		6020B	Total Recoverable
Iron	39		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.19		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	34		0.20		mg/L	1		6020B	Total Recoverable
Manganese	1.0		0.0025		mg/L	1		6020B	Total Recoverable
Nickel	0.023		0.0020		mg/L	1		6020B	Total Recoverable
Potassium	7.0		0.50		mg/L	1		6020B	Total Recoverable
Sodium	130		0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.034		0.0050		mg/L	1		6020B	Total Recoverable
Zinc	0.25		0.020		mg/L	1		6020B	Total Recoverable
Aluminum	0.18		0.10		mg/L	1		6020B	Dissolved
Barium	0.035		0.0025		mg/L	1		6020B	Dissolved
Calcium	89		0.20		mg/L	1		6020B	Dissolved
Iron	1.3		0.10		mg/L	1		6020B	Dissolved
Lead	0.0023		0.00050		mg/L	1		6020B	Dissolved
Magnesium	22		0.20		mg/L	1		6020B	Dissolved
Manganese	0.33		0.0025		mg/L	1		6020B	Dissolved
Potassium	3.4		0.50		mg/L	1		6020B	Dissolved
Sodium	5.1		0.20		mg/L	1		6020B	Dissolved

Client Sample ID: MW-301
Lab Sample ID: 500-258873-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.79		0.10		mg/L	1		6020B	Total Recoverable
Arsenic	0.0013		0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.042		0.0025		mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-301 (Continued)
Lab Sample ID: 500-258873-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	130		0.20		mg/L	1		6020B	Total Recoverable
Copper	0.0056		0.0020		mg/L	1		6020B	Total Recoverable
Iron	3.3		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.021		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	15		0.20		mg/L	1		6020B	Total Recoverable
Manganese	0.28		0.0025		mg/L	1		6020B	Total Recoverable
Potassium	60		0.50		mg/L	1		6020B	Total Recoverable
Sodium	49		0.20		mg/L	1		6020B	Total Recoverable
Zinc	0.067		0.020		mg/L	1		6020B	Total Recoverable
Arsenic	0.0051		0.0010		mg/L	1		6020B	Dissolved
Barium	0.067		0.0025		mg/L	1		6020B	Dissolved
Calcium	88		0.20		mg/L	1		6020B	Dissolved
Iron	0.29		0.10		mg/L	1		6020B	Dissolved
Lead	0.0015		0.00050		mg/L	1		6020B	Dissolved
Magnesium	38		0.20		mg/L	1		6020B	Dissolved
Manganese	1.5		0.0025		mg/L	1		6020B	Dissolved
Potassium	7.3		0.50		mg/L	1		6020B	Dissolved
Sodium	100		0.20		mg/L	1		6020B	Dissolved
Cyanide, Total	0.12		0.0050		mg/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-258873-1	NMW-4	Water	10/21/24 12:59	10/22/24 14:00
500-258873-2	NMW-2	Water	10/21/24 12:50	10/22/24 14:00
500-258873-3	MW-301	Water	10/21/24 13:12	10/22/24 14:00

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: NMW-4
Lab Sample ID: 500-258873-1
Date Collected: 10/21/24 12:59
Matrix: Water
Date Received: 10/22/24 14:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			10/28/24 12:32	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			10/28/24 12:32	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			10/28/24 12:32	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			10/28/24 12:32	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			10/28/24 12:32	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			10/28/24 12:32	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			10/28/24 12:32	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			10/28/24 12:32	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			10/28/24 12:32	1
p-Dioxane	<0.10		0.10		mg/L			10/28/24 12:32	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			10/28/24 12:32	1
2-Hexanone	<0.0050		0.0050		mg/L			10/28/24 12:32	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			10/28/24 12:32	1
Acetone	<0.010		0.010		mg/L			10/28/24 12:32	1
Benzene	<0.00050	*+	0.00050		mg/L			10/28/24 12:32	1
Bromodichloromethane	<0.0010		0.0010		mg/L			10/28/24 12:32	1
Bromoform	<0.0010		0.0010		mg/L			10/28/24 12:32	1
Bromomethane	<0.0030		0.0030		mg/L			10/28/24 12:32	1
Carbon disulfide	<0.0020		0.0020		mg/L			10/28/24 12:32	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			10/28/24 12:32	1
Chlorobenzene	<0.0010		0.0010		mg/L			10/28/24 12:32	1
Chloroethane	<0.0050		0.0050		mg/L			10/28/24 12:32	1
Chloroform	<0.0020		0.0020		mg/L			10/28/24 12:32	1
Chloromethane	<0.0050		0.0050		mg/L			10/28/24 12:32	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			10/28/24 12:32	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			10/28/24 12:32	1
Dibromochloromethane	<0.0010		0.0010		mg/L			10/28/24 12:32	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			10/28/24 12:32	1
Ethylbenzene	<0.00050		0.00050		mg/L			10/28/24 12:32	1
Isopropylbenzene	<0.0010		0.0010		mg/L			10/28/24 12:32	1
m&p-Xylene	<0.0010		0.0010		mg/L			10/28/24 12:32	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			10/28/24 12:32	1
Methylene Chloride	<0.0050		0.0050		mg/L			10/28/24 12:32	1
Naphthalene	<0.0010		0.0010		mg/L			10/28/24 12:32	1
n-Butyl alcohol	<0.13		0.13		mg/L			10/28/24 12:32	1
o-Xylene	<0.00050		0.00050		mg/L			10/28/24 12:32	1
Styrene	<0.0010		0.0010		mg/L			10/28/24 12:32	1
Tetrachloroethene	<0.0010		0.0010		mg/L			10/28/24 12:32	1
Toluene	<0.00050		0.00050		mg/L			10/28/24 12:32	1
Xylenes, Total	<0.0010		0.0010		mg/L			10/28/24 12:32	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			10/28/24 12:32	1
Trichloroethene	<0.00050		0.00050		mg/L			10/28/24 12:32	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			10/28/24 12:32	1
Vinyl acetate	<0.0020		0.0020		mg/L			10/28/24 12:32	1
Vinyl chloride	<0.0010		0.0010		mg/L			10/28/24 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*10/28/24 12:32*	*1*
4-Bromofluorobenzene (Surr)	*84*		*72 - 124*		*10/28/24 12:32*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*10/28/24 12:32*	*1*

Client Sample ID: NMW-4
Lab Sample ID: 500-258873-1
Date Collected: 10/21/24 12:59
Matrix: Water
Date Received: 10/22/24 14:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*83*		*75 - 120*		*10/28/24 12:32*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
4,4'-DDE	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
4,4'-DDT	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
Aldrin	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
alpha-BHC	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
alpha-Chlordane	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
beta-BHC	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
Chlordane (technical)	<0.00021		0.00021		mg/L		10/24/24 10:14	10/25/24 14:54	1
delta-BHC	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
Dieldrin	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
Endosulfan I	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
Endosulfan II	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
Endosulfan sulfate	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
Endrin	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
Endrin aldehyde	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
Endrin ketone	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
gamma-BHC (Lindane)	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
gamma-Chlordane	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
Heptachlor	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
Heptachlor epoxide	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:54	1
Methoxychlor	<0.00021		0.00021		mg/L		10/24/24 10:14	10/25/24 14:54	1
Toxaphene	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*44*		*30 - 130*	*10/24/24 10:14*	*10/25/24 14:54*	*1*
Tetrachloro-m-xylene	*55*		*30 - 120*	*10/24/24 10:14*	*10/25/24 14:54*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0010	*- *1	0.0010		mg/L		10/24/24 10:14	10/25/24 13:28	1
PCB-1221	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 13:28	1
PCB-1232	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 13:28	1
PCB-1242	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 13:28	1
PCB-1248	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 13:28	1
PCB-1254	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 13:28	1
PCB-1260	<0.0010	*- *1	0.0010		mg/L		10/24/24 10:14	10/25/24 13:28	1
Polychlorinated biphenyls, Total	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*46*		*30 - 120*	*10/24/24 10:14*	*10/25/24 13:28*	*1*
DCB Decachlorobiphenyl	*42*		*30 - 140*	*10/24/24 10:14*	*10/25/24 13:28*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21**		0.10		mg/L		10/29/24 08:17	10/30/24 17:34	1
Antimony	**0.011**		0.0030		mg/L		10/29/24 08:17	10/30/24 17:34	1

Client Sample ID: NMW-4
Date Collected: 10/21/24 12:59
Date Received: 10/22/24 14:00

Lab Sample ID: 500-258873-1
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.062		0.0010		mg/L		10/29/24 08:17	10/30/24 17:34	1
Barium	0.32		0.0025		mg/L		10/29/24 08:17	10/30/24 17:34	1
Beryllium	0.0029		0.0010		mg/L		10/29/24 08:17	10/30/24 17:34	1
Cadmium	0.0045		0.00050		mg/L		10/29/24 08:17	10/30/24 17:34	1
Calcium	210		0.20		mg/L		10/29/24 08:17	10/30/24 17:34	1
Chromium	0.12		0.0050		mg/L		10/29/24 08:17	10/30/24 17:34	1
Cobalt	0.022		0.0010		mg/L		10/29/24 08:17	10/31/24 11:19	1
Copper	0.22		0.0020		mg/L		10/29/24 08:17	10/30/24 17:34	1
Iron	86		0.10		mg/L		10/29/24 08:17	10/30/24 17:34	1
Lead	0.56		0.00050		mg/L		10/29/24 08:17	10/30/24 17:34	1
Magnesium	76		0.20		mg/L		10/29/24 08:17	10/30/24 17:34	1
Manganese	4.9		0.0025		mg/L		10/29/24 08:17	10/30/24 17:34	1
Nickel	0.061		0.0020		mg/L		10/29/24 08:17	10/30/24 17:34	1
Potassium	13		0.50		mg/L		10/29/24 08:17	10/30/24 17:34	1
Selenium	0.0080		0.0025		mg/L		10/29/24 08:17	10/30/24 17:34	1
Silver	0.00056		0.00050		mg/L		10/29/24 08:17	10/31/24 11:19	1
Sodium	140		0.20		mg/L		10/29/24 08:17	10/30/24 17:34	1
Thallium	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 17:34	1
Vanadium	0.084		0.0050		mg/L		10/29/24 08:17	10/30/24 17:34	1
Zinc	1.1		0.020		mg/L		10/29/24 08:17	10/30/24 17:34	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.41		0.10		mg/L		10/29/24 08:17	10/30/24 17:41	1
Antimony	<0.0030		0.0030		mg/L		10/29/24 08:17	10/30/24 17:41	1
Arsenic	0.0023		0.0010		mg/L		10/29/24 08:17	10/30/24 17:41	1
Barium	0.022		0.0025		mg/L		10/29/24 08:17	10/30/24 17:41	1
Beryllium	<0.0010		0.0010		mg/L		10/29/24 08:17	10/30/24 17:41	1
Cadmium	<0.00050		0.00050		mg/L		10/29/24 08:17	10/30/24 17:41	1
Calcium	37		0.20		mg/L		10/29/24 08:17	10/30/24 17:41	1
Chromium	<0.0050		0.0050		mg/L		10/29/24 08:17	10/30/24 17:41	1
Cobalt	<0.0010		0.0010		mg/L		10/29/24 08:17	10/31/24 11:31	1
Copper	0.0029		0.0020		mg/L		10/29/24 08:17	10/30/24 17:41	1
Iron	1.7		0.10		mg/L		10/29/24 08:17	10/30/24 17:41	1
Lead	0.0059		0.00050		mg/L		10/29/24 08:17	10/30/24 17:41	1
Magnesium	9.8		0.20		mg/L		10/29/24 08:17	10/30/24 17:41	1
Manganese	0.17		0.0025		mg/L		10/29/24 08:17	10/30/24 17:41	1
Nickel	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 17:41	1
Potassium	1.6		0.50		mg/L		10/29/24 08:17	10/30/24 17:41	1
Selenium	<0.0025		0.0025		mg/L		10/29/24 08:17	10/30/24 17:41	1
Silver	<0.00050		0.00050		mg/L		10/29/24 08:17	10/31/24 11:31	1
Sodium	2.4		0.20		mg/L		10/29/24 08:17	10/30/24 17:41	1
Thallium	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 17:41	1
Vanadium	<0.0050		0.0050		mg/L		10/29/24 08:17	10/30/24 17:41	1
Zinc	<0.020		0.020		mg/L		10/29/24 08:17	10/30/24 17:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00049		0.00020		mg/L		10/28/24 11:05	10/29/24 08:31	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: NMW-4
Lab Sample ID: 500-258873-1
Date Collected: 10/21/24 12:59
Matrix: Water
Date Received: 10/22/24 14:00

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/28/24 11:05	10/29/24 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0050		0.0050		mg/L		10/31/24 14:00	10/31/24 15:44	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: NMW-2
Lab Sample ID: 500-258873-2
Date Collected: 10/21/24 12:50
Matrix: Water
Date Received: 10/22/24 14:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			10/28/24 12:58	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			10/28/24 12:58	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			10/28/24 12:58	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			10/28/24 12:58	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			10/28/24 12:58	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			10/28/24 12:58	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			10/28/24 12:58	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			10/28/24 12:58	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			10/28/24 12:58	1
p-Dioxane	<0.10		0.10		mg/L			10/28/24 12:58	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			10/28/24 12:58	1
2-Hexanone	<0.0050		0.0050		mg/L			10/28/24 12:58	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			10/28/24 12:58	1
Acetone	<0.010		0.010		mg/L			10/28/24 12:58	1
Benzene	<0.00050	*+	0.00050		mg/L			10/28/24 12:58	1
Bromodichloromethane	<0.0010		0.0010		mg/L			10/28/24 12:58	1
Bromoform	<0.0010		0.0010		mg/L			10/28/24 12:58	1
Bromomethane	<0.0030		0.0030		mg/L			10/28/24 12:58	1
Carbon disulfide	<0.0020		0.0020		mg/L			10/28/24 12:58	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			10/28/24 12:58	1
Chlorobenzene	<0.0010		0.0010		mg/L			10/28/24 12:58	1
Chloroethane	<0.0050		0.0050		mg/L			10/28/24 12:58	1
Chloroform	<0.0020		0.0020		mg/L			10/28/24 12:58	1
Chloromethane	<0.0050		0.0050		mg/L			10/28/24 12:58	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			10/28/24 12:58	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			10/28/24 12:58	1
Dibromochloromethane	<0.0010		0.0010		mg/L			10/28/24 12:58	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			10/28/24 12:58	1
Ethylbenzene	<0.00050		0.00050		mg/L			10/28/24 12:58	1
Isopropylbenzene	**0.0010**		0.0010		mg/L			10/28/24 12:58	1
m&p-Xylene	<0.0010		0.0010		mg/L			10/28/24 12:58	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			10/28/24 12:58	1
Methylene Chloride	<0.0050		0.0050		mg/L			10/28/24 12:58	1
Naphthalene	<0.0010		0.0010		mg/L			10/28/24 12:58	1
n-Butyl alcohol	<0.13		0.13		mg/L			10/28/24 12:58	1
o-Xylene	<0.00050		0.00050		mg/L			10/28/24 12:58	1
Styrene	<0.0010		0.0010		mg/L			10/28/24 12:58	1
Tetrachloroethene	<0.0010		0.0010		mg/L			10/28/24 12:58	1
Toluene	<0.00050		0.00050		mg/L			10/28/24 12:58	1
Xylenes, Total	**0.0011**		0.0010		mg/L			10/28/24 12:58	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			10/28/24 12:58	1
Trichloroethene	<0.00050		0.00050		mg/L			10/28/24 12:58	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			10/28/24 12:58	1
Vinyl acetate	<0.0020		0.0020		mg/L			10/28/24 12:58	1
Vinyl chloride	<0.0010		0.0010		mg/L			10/28/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*		*10/28/24 12:58*	*1*
4-Bromofluorobenzene (Surr)	*86*		*72 - 124*		*10/28/24 12:58*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*10/28/24 12:58*	*1*

Client Sample ID: NMW-2
Lab Sample ID: 500-258873-2
Date Collected: 10/21/24 12:50
Matrix: Water
Date Received: 10/22/24 14:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*83*		*75 - 120*		*10/28/24 12:58*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
4,4'-DDE	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
4,4'-DDT	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
Aldrin	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
alpha-BHC	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
alpha-Chlordane	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
beta-BHC	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
Chlordane (technical)	<0.00019		0.00019		mg/L		10/24/24 10:14	10/25/24 13:53	1
delta-BHC	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
Dieldrin	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
Endosulfan I	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
Endosulfan II	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
Endosulfan sulfate	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
Endrin	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
Endrin aldehyde	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
Endrin ketone	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
gamma-BHC (Lindane)	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
gamma-Chlordane	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
Heptachlor	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
Heptachlor epoxide	<0.000095		0.000095		mg/L		10/24/24 10:14	10/25/24 13:53	1
Methoxychlor	<0.00019		0.00019		mg/L		10/24/24 10:14	10/25/24 13:53	1
Toxaphene	<0.00095		0.00095		mg/L		10/24/24 10:14	10/25/24 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*48*		*30 - 130*	*10/24/24 10:14*	*10/25/24 13:53*	*1*
Tetrachloro-m-xylene	*52*		*30 - 120*	*10/24/24 10:14*	*10/25/24 13:53*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00095	*- *1	0.00095		mg/L		10/24/24 10:14	10/25/24 13:41	1
PCB-1221	<0.00095		0.00095		mg/L		10/24/24 10:14	10/25/24 13:41	1
PCB-1232	<0.00095		0.00095		mg/L		10/24/24 10:14	10/25/24 13:41	1
PCB-1242	<0.00095		0.00095		mg/L		10/24/24 10:14	10/25/24 13:41	1
PCB-1248	<0.00095		0.00095		mg/L		10/24/24 10:14	10/25/24 13:41	1
PCB-1254	<0.00095		0.00095		mg/L		10/24/24 10:14	10/25/24 13:41	1
PCB-1260	<0.00095	*- *1	0.00095		mg/L		10/24/24 10:14	10/25/24 13:41	1
Polychlorinated biphenyls, Total	<0.00095		0.00095		mg/L		10/24/24 10:14	10/25/24 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*47*		*30 - 120*	*10/24/24 10:14*	*10/25/24 13:41*	*1*
DCB Decachlorobiphenyl	*49*		*30 - 140*	*10/24/24 10:14*	*10/25/24 13:41*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17**		0.10		mg/L		10/29/24 08:17	10/30/24 17:37	1
Antimony	**0.0053**		0.0030		mg/L		10/29/24 08:17	10/30/24 17:37	1

Client Sample ID: NMW-2
Date Collected: 10/21/24 12:50
Date Received: 10/22/24 14:00

Lab Sample ID: 500-258873-2
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**		0.0010		mg/L		10/29/24 08:17	10/30/24 17:37	1
Barium	**0.15**		0.0025		mg/L		10/29/24 08:17	10/30/24 17:37	1
Beryllium	<0.0010		0.0010		mg/L		10/29/24 08:17	10/30/24 17:37	1
Cadmium	**0.00080**		0.00050		mg/L		10/29/24 08:17	10/30/24 17:37	1
Calcium	**130**		0.20		mg/L		10/29/24 08:17	10/30/24 17:37	1
Chromium	**0.036**		0.0050		mg/L		10/29/24 08:17	10/30/24 17:37	1
Cobalt	**0.0091**		0.0010		mg/L		10/29/24 08:17	10/31/24 11:21	1
Copper	**0.085**		0.0020		mg/L		10/29/24 08:17	10/30/24 17:37	1
Iron	**39**		0.10		mg/L		10/29/24 08:17	10/30/24 17:37	1
Lead	**0.19**		0.00050		mg/L		10/29/24 08:17	10/30/24 17:37	1
Magnesium	**34**		0.20		mg/L		10/29/24 08:17	10/30/24 17:37	1
Manganese	**1.0**		0.0025		mg/L		10/29/24 08:17	10/30/24 17:37	1
Nickel	**0.023**		0.0020		mg/L		10/29/24 08:17	10/30/24 17:37	1
Potassium	**7.0**		0.50		mg/L		10/29/24 08:17	10/30/24 17:37	1
Selenium	<0.0025		0.0025		mg/L		10/29/24 08:17	10/30/24 17:37	1
Silver	<0.00050		0.00050		mg/L		10/29/24 08:17	10/31/24 11:21	1
Sodium	**130**		0.20		mg/L		10/29/24 08:17	10/30/24 17:37	1
Thallium	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 17:37	1
Vanadium	**0.034**		0.0050		mg/L		10/29/24 08:17	10/30/24 17:37	1
Zinc	**0.25**		0.020		mg/L		10/29/24 08:17	10/30/24 17:37	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.18**		0.10		mg/L		10/29/24 08:17	10/30/24 17:44	1
Antimony	<0.0030		0.0030		mg/L		10/29/24 08:17	10/30/24 17:44	1
Arsenic	<0.0010		0.0010		mg/L		10/29/24 08:17	10/30/24 17:44	1
Barium	**0.035**		0.0025		mg/L		10/29/24 08:17	10/30/24 17:44	1
Beryllium	<0.0010		0.0010		mg/L		10/29/24 08:17	10/30/24 17:44	1
Cadmium	<0.00050		0.00050		mg/L		10/29/24 08:17	10/30/24 17:44	1
Calcium	**89**		0.20		mg/L		10/29/24 08:17	10/30/24 17:44	1
Chromium	<0.0050		0.0050		mg/L		10/29/24 08:17	10/30/24 17:44	1
Cobalt	<0.0010		0.0010		mg/L		10/29/24 08:17	10/31/24 11:33	1
Copper	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 17:44	1
Iron	**1.3**		0.10		mg/L		10/29/24 08:17	10/30/24 17:44	1
Lead	**0.0023**		0.00050		mg/L		10/29/24 08:17	10/30/24 17:44	1
Magnesium	**22**		0.20		mg/L		10/29/24 08:17	10/30/24 17:44	1
Manganese	**0.33**		0.0025		mg/L		10/29/24 08:17	10/30/24 17:44	1
Nickel	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 17:44	1
Potassium	**3.4**		0.50		mg/L		10/29/24 08:17	10/30/24 17:44	1
Selenium	<0.0025		0.0025		mg/L		10/29/24 08:17	10/30/24 17:44	1
Silver	<0.00050		0.00050		mg/L		10/29/24 08:17	10/31/24 11:33	1
Sodium	**5.1**		0.20		mg/L		10/29/24 08:17	10/30/24 17:44	1
Thallium	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 17:44	1
Vanadium	<0.0050		0.0050		mg/L		10/29/24 08:17	10/30/24 17:44	1
Zinc	<0.020		0.020		mg/L		10/29/24 08:17	10/30/24 17:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/28/24 11:05	10/29/24 08:33	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: NMW-2
Lab Sample ID: 500-258873-2
Date Collected: 10/21/24 12:50
Matrix: Water
Date Received: 10/22/24 14:00

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/28/24 11:05	10/29/24 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0050		0.0050		mg/L		10/31/24 14:00	10/31/24 15:46	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-301
Lab Sample ID: 500-258873-3
Date Collected: 10/21/24 13:12
Matrix: Water
Date Received: 10/22/24 14:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			10/28/24 13:24	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			10/28/24 13:24	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			10/28/24 13:24	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			10/28/24 13:24	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			10/28/24 13:24	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			10/28/24 13:24	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			10/28/24 13:24	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			10/28/24 13:24	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			10/28/24 13:24	1
p-Dioxane	<0.10		0.10		mg/L			10/28/24 13:24	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			10/28/24 13:24	1
2-Hexanone	<0.0050		0.0050		mg/L			10/28/24 13:24	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			10/28/24 13:24	1
Acetone	<0.010		0.010		mg/L			10/28/24 13:24	1
Benzene	<0.00050	*+	0.00050		mg/L			10/28/24 13:24	1
Bromodichloromethane	<0.0010		0.0010		mg/L			10/28/24 13:24	1
Bromoform	<0.0010		0.0010		mg/L			10/28/24 13:24	1
Bromomethane	<0.0030		0.0030		mg/L			10/28/24 13:24	1
Carbon disulfide	<0.0020		0.0020		mg/L			10/28/24 13:24	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			10/28/24 13:24	1
Chlorobenzene	<0.0010		0.0010		mg/L			10/28/24 13:24	1
Chloroethane	<0.0050		0.0050		mg/L			10/28/24 13:24	1
Chloroform	<0.0020		0.0020		mg/L			10/28/24 13:24	1
Chloromethane	<0.0050		0.0050		mg/L			10/28/24 13:24	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			10/28/24 13:24	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			10/28/24 13:24	1
Dibromochloromethane	<0.0010		0.0010		mg/L			10/28/24 13:24	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			10/28/24 13:24	1
Ethylbenzene	<0.00050		0.00050		mg/L			10/28/24 13:24	1
Isopropylbenzene	<0.0010		0.0010		mg/L			10/28/24 13:24	1
m&p-Xylene	<0.0010		0.0010		mg/L			10/28/24 13:24	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			10/28/24 13:24	1
Methylene Chloride	<0.0050		0.0050		mg/L			10/28/24 13:24	1
Naphthalene	<0.0010		0.0010		mg/L			10/28/24 13:24	1
n-Butyl alcohol	<0.13		0.13		mg/L			10/28/24 13:24	1
o-Xylene	<0.00050		0.00050		mg/L			10/28/24 13:24	1
Styrene	<0.0010		0.0010		mg/L			10/28/24 13:24	1
Tetrachloroethene	<0.0010		0.0010		mg/L			10/28/24 13:24	1
Toluene	<0.00050		0.00050		mg/L			10/28/24 13:24	1
Xylenes, Total	<0.0010		0.0010		mg/L			10/28/24 13:24	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			10/28/24 13:24	1
Trichloroethene	<0.00050		0.00050		mg/L			10/28/24 13:24	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			10/28/24 13:24	1
Vinyl acetate	<0.0020		0.0020		mg/L			10/28/24 13:24	1
Vinyl chloride	<0.0010		0.0010		mg/L			10/28/24 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*10/28/24 13:24*	*1*
4-Bromofluorobenzene (Surr)	*86*		*72 - 124*		*10/28/24 13:24*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*10/28/24 13:24*	*1*

Client Sample ID: MW-301
Lab Sample ID: 500-258873-3
Date Collected: 10/21/24 13:12
Matrix: Water
Date Received: 10/22/24 14:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*82*		*75 - 120*		*10/28/24 13:24*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
4,4'-DDE	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
4,4'-DDT	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
Aldrin	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
alpha-BHC	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
alpha-Chlordane	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
beta-BHC	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
Chlordane (technical)	<0.00021		0.00021		mg/L		10/24/24 10:14	10/25/24 14:05	1
delta-BHC	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
Dieldrin	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
Endosulfan I	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
Endosulfan II	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
Endosulfan sulfate	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
Endrin	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
Endrin aldehyde	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
Endrin ketone	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
gamma-BHC (Lindane)	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
gamma-Chlordane	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
Heptachlor	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
Heptachlor epoxide	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 14:05	1
Methoxychlor	<0.00021		0.00021		mg/L		10/24/24 10:14	10/25/24 14:05	1
Toxaphene	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*72*		*30 - 130*	*10/24/24 10:14*	*10/25/24 14:05*	*1*
Tetrachloro-m-xylene	*64*		*30 - 120*	*10/24/24 10:14*	*10/25/24 14:05*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0010	*- *1	0.0010		mg/L		10/24/24 10:14	10/25/24 13:54	1
PCB-1221	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 13:54	1
PCB-1232	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 13:54	1
PCB-1242	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 13:54	1
PCB-1248	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 13:54	1
PCB-1254	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 13:54	1
PCB-1260	<0.0010	*- *1	0.0010		mg/L		10/24/24 10:14	10/25/24 13:54	1
Polychlorinated biphenyls, Total	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*54*		*30 - 120*	*10/24/24 10:14*	*10/25/24 13:54*	*1*
DCB Decachlorobiphenyl	*59*		*30 - 140*	*10/24/24 10:14*	*10/25/24 13:54*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.79**		0.10		mg/L		10/29/24 08:17	10/30/24 17:39	1
Antimony	<0.0030		0.0030		mg/L		10/29/24 08:17	10/30/24 17:39	1

Client Sample ID: MW-301
Lab Sample ID: 500-258873-3
Date Collected: 10/21/24 13:12
Matrix: Water
Date Received: 10/22/24 14:00

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0013**		0.0010		mg/L		10/29/24 08:17	10/30/24 17:39	1
Barium	**0.042**		0.0025		mg/L		10/29/24 08:17	10/30/24 17:39	1
Beryllium	<0.0010		0.0010		mg/L		10/29/24 08:17	10/30/24 17:39	1
Cadmium	<0.00050		0.00050		mg/L		10/29/24 08:17	10/30/24 17:39	1
Calcium	**130**		0.20		mg/L		10/29/24 08:17	10/30/24 17:39	1
Chromium	<0.0050		0.0050		mg/L		10/29/24 08:17	10/30/24 17:39	1
Cobalt	<0.0010		0.0010		mg/L		10/29/24 08:17	10/31/24 11:28	1
Copper	**0.0056**		0.0020		mg/L		10/29/24 08:17	10/30/24 17:39	1
Iron	**3.3**		0.10		mg/L		10/29/24 08:17	10/30/24 17:39	1
Lead	**0.021**		0.00050		mg/L		10/29/24 08:17	10/30/24 17:39	1
Magnesium	**15**		0.20		mg/L		10/29/24 08:17	10/30/24 17:39	1
Manganese	**0.28**		0.0025		mg/L		10/29/24 08:17	10/30/24 17:39	1
Nickel	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 17:39	1
Potassium	**60**		0.50		mg/L		10/29/24 08:17	10/30/24 17:39	1
Selenium	<0.0025		0.0025		mg/L		10/29/24 08:17	10/30/24 17:39	1
Silver	<0.00050		0.00050		mg/L		10/29/24 08:17	10/31/24 11:28	1
Sodium	**49**		0.20		mg/L		10/29/24 08:17	10/30/24 17:39	1
Thallium	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 17:39	1
Vanadium	<0.0050		0.0050		mg/L		10/29/24 08:17	10/30/24 17:39	1
Zinc	**0.067**		0.020		mg/L		10/29/24 08:17	10/30/24 17:39	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		10/29/24 08:17	10/30/24 17:46	1
Antimony	<0.0030		0.0030		mg/L		10/29/24 08:17	10/30/24 17:46	1
Arsenic	**0.0051**		0.0010		mg/L		10/29/24 08:17	10/30/24 17:46	1
Barium	**0.067**		0.0025		mg/L		10/29/24 08:17	10/30/24 17:46	1
Beryllium	<0.0010		0.0010		mg/L		10/29/24 08:17	10/30/24 17:46	1
Cadmium	<0.00050		0.00050		mg/L		10/29/24 08:17	10/30/24 17:46	1
Calcium	**88**		0.20		mg/L		10/29/24 08:17	10/30/24 17:46	1
Chromium	<0.0050		0.0050		mg/L		10/29/24 08:17	10/30/24 17:46	1
Cobalt	<0.0010		0.0010		mg/L		10/29/24 08:17	10/31/24 11:35	1
Copper	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 17:46	1
Iron	**0.29**		0.10		mg/L		10/29/24 08:17	10/30/24 17:46	1
Lead	**0.0015**		0.00050		mg/L		10/29/24 08:17	10/30/24 17:46	1
Magnesium	**38**		0.20		mg/L		10/29/24 08:17	10/30/24 17:46	1
Manganese	**1.5**		0.0025		mg/L		10/29/24 08:17	10/30/24 17:46	1
Nickel	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 17:46	1
Potassium	**7.3**		0.50		mg/L		10/29/24 08:17	10/30/24 17:46	1
Selenium	<0.0025		0.0025		mg/L		10/29/24 08:17	10/30/24 17:46	1
Silver	<0.00050		0.00050		mg/L		10/29/24 08:17	10/31/24 11:35	1
Sodium	**100**		0.20		mg/L		10/29/24 08:17	10/30/24 17:46	1
Thallium	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 17:46	1
Vanadium	<0.0050		0.0050		mg/L		10/29/24 08:17	10/30/24 17:46	1
Zinc	<0.020		0.020		mg/L		10/29/24 08:17	10/30/24 17:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/28/24 11:05	10/29/24 08:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-301
Lab Sample ID: 500-258873-3
Date Collected: 10/21/24 13:12
Matrix: Water
Date Received: 10/22/24 14:00

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/28/24 11:05	10/29/24 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12		0.0050		mg/L		10/31/24 14:00	10/31/24 15:47	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 792563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-1	NMW-4	Total/NA	Water	8260D	
500-258873-2	NMW-2	Total/NA	Water	8260D	
500-258873-3	MW-301	Total/NA	Water	8260D	
MB 500-792563/7	Method Blank	Total/NA	Water	8260D	
LCS 500-792563/4	Lab Control Sample	Total/NA	Water	8260D	

GC Semi VOA

Prep Batch: 792182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-1	NMW-4	Total/NA	Water	3510C	
500-258873-2	NMW-2	Total/NA	Water	3510C	
500-258873-3	MW-301	Total/NA	Water	3510C	
MB 500-792182/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-792182/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 500-792182/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-792182/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 500-792182/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 792323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-1	NMW-4	Total/NA	Water	8081B	792182
500-258873-2	NMW-2	Total/NA	Water	8081B	792182
500-258873-3	MW-301	Total/NA	Water	8081B	792182
MB 500-792182/1-A	Method Blank	Total/NA	Water	8081B	792182
LCS 500-792182/2-A	Lab Control Sample	Total/NA	Water	8081B	792182
LCSD 500-792182/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	792182

Analysis Batch: 792336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-1	NMW-4	Total/NA	Water	8082A	792182
500-258873-2	NMW-2	Total/NA	Water	8082A	792182
500-258873-3	MW-301	Total/NA	Water	8082A	792182
MB 500-792182/1-A	Method Blank	Total/NA	Water	8082A	792182
LCS 500-792182/4-A	Lab Control Sample	Total/NA	Water	8082A	792182
LCSD 500-792182/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	792182

Metals

Prep Batch: 792652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-1	NMW-4	Total/NA	Water	7470A	
500-258873-2	NMW-2	Total/NA	Water	7470A	
500-258873-3	MW-301	Total/NA	Water	7470A	
MB 500-792652/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-792652/13-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 500-792652/31-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Prep Batch: 792653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-1	NMW-4	Dissolved	Water	7470A	
500-258873-2	NMW-2	Dissolved	Water	7470A	

Metals (Continued)

Prep Batch: 792653 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-3	MW-301	Dissolved	Water	7470A	
MB 500-792653/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-792653/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 792805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-1	NMW-4	Dissolved	Water	3005A	
500-258873-1	NMW-4	Total Recoverable	Water	3005A	
500-258873-2	NMW-2	Dissolved	Water	3005A	
500-258873-2	NMW-2	Total Recoverable	Water	3005A	
500-258873-3	MW-301	Dissolved	Water	3005A	
500-258873-3	MW-301	Total Recoverable	Water	3005A	
MB 500-792805/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-792805/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 792892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-1	NMW-4	Dissolved	Water	7470A	792653
500-258873-1	NMW-4	Total/NA	Water	7470A	792652
500-258873-2	NMW-2	Dissolved	Water	7470A	792653
500-258873-2	NMW-2	Total/NA	Water	7470A	792652
500-258873-3	MW-301	Dissolved	Water	7470A	792653
500-258873-3	MW-301	Total/NA	Water	7470A	792652
MB 500-792652/12-A	Method Blank	Total/NA	Water	7470A	792652
MB 500-792653/12-A	Method Blank	Total/NA	Water	7470A	792653
LCS 500-792652/13-A	Lab Control Sample	Total/NA	Water	7470A	792652
LCS 500-792653/13-A	Lab Control Sample	Total/NA	Water	7470A	792653
LCSD 500-792652/31-A	Lab Control Sample Dup	Total/NA	Water	7470A	792652

Analysis Batch: 793228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-1	NMW-4	Dissolved	Water	6020B	792805
500-258873-1	NMW-4	Total Recoverable	Water	6020B	792805
500-258873-2	NMW-2	Dissolved	Water	6020B	792805
500-258873-2	NMW-2	Total Recoverable	Water	6020B	792805
500-258873-3	MW-301	Dissolved	Water	6020B	792805
500-258873-3	MW-301	Total Recoverable	Water	6020B	792805
MB 500-792805/1-A	Method Blank	Total Recoverable	Water	6020B	792805
LCS 500-792805/2-A	Lab Control Sample	Total Recoverable	Water	6020B	792805

Analysis Batch: 793305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-1	NMW-4	Dissolved	Water	6020B	792805
500-258873-1	NMW-4	Total Recoverable	Water	6020B	792805
500-258873-2	NMW-2	Dissolved	Water	6020B	792805
500-258873-2	NMW-2	Total Recoverable	Water	6020B	792805
500-258873-3	MW-301	Dissolved	Water	6020B	792805
500-258873-3	MW-301	Total Recoverable	Water	6020B	792805
MB 500-792805/1-A	Method Blank	Total Recoverable	Water	6020B	792805
LCS 500-792805/2-A	Lab Control Sample	Total Recoverable	Water	6020B	792805

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

General Chemistry

Prep Batch: 793172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-1	NMW-4	Total/NA	Water	9010C	
500-258873-2	NMW-2	Total/NA	Water	9010C	
500-258873-3	MW-301	Total/NA	Water	9010C	
MB 500-793172/1-A	Method Blank	Total/NA	Water	9010C	
LCS 500-793172/2-A	Lab Control Sample	Total/NA	Water	9010C	

Analysis Batch: 793365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258873-1	NMW-4	Total/NA	Water	9012B	793172
500-258873-2	NMW-2	Total/NA	Water	9012B	793172
500-258873-3	MW-301	Total/NA	Water	9012B	793172
MB 500-793172/1-A	Method Blank	Total/NA	Water	9012B	793172
LCS 500-793172/2-A	Lab Control Sample	Total/NA	Water	9012B	793172

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-258873-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-258873-1	NMW-4	85	84	98	83
500-258873-2	NMW-2	84	86	95	83
500-258873-3	MW-301	86	86	95	82
LCS 500-792563/4	Lab Control Sample	82	87	90	85
MB 500-792563/7	Method Blank	85	85	98	84

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(30-130)	(30-120)
500-258873-1	NMW-4	44	55
500-258873-2	NMW-2	48	52
500-258873-3	MW-301	72	64
LCS 500-792182/2-A	Lab Control Sample	108	88
LCSD 500-792182/3-A	Lab Control Sample Dup	95	71
MB 500-792182/1-A	Method Blank	118	102

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(30-120)	(30-140)
500-258873-1	NMW-4	46	42
500-258873-2	NMW-2	47	49
500-258873-3	MW-301	54	59
LCS 500-792182/4-A	Lab Control Sample	48	69
LCSD 500-792182/5-A	Lab Control Sample Dup	34	48
MB 500-792182/1-A	Method Blank	61	62

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-792563/7
Matrix: Water
Analysis Batch: 792563

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			10/28/24 11:15	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			10/28/24 11:15	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			10/28/24 11:15	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			10/28/24 11:15	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			10/28/24 11:15	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			10/28/24 11:15	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			10/28/24 11:15	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			10/28/24 11:15	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			10/28/24 11:15	1
p-Dioxane	<0.10		0.10		mg/L			10/28/24 11:15	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			10/28/24 11:15	1
2-Hexanone	<0.0050		0.0050		mg/L			10/28/24 11:15	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			10/28/24 11:15	1
Acetone	<0.010		0.010		mg/L			10/28/24 11:15	1
Benzene	<0.00050		0.00050		mg/L			10/28/24 11:15	1
Bromodichloromethane	<0.0010		0.0010		mg/L			10/28/24 11:15	1
Bromoform	<0.0010		0.0010		mg/L			10/28/24 11:15	1
Bromomethane	<0.0030		0.0030		mg/L			10/28/24 11:15	1
Carbon disulfide	<0.0020		0.0020		mg/L			10/28/24 11:15	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			10/28/24 11:15	1
Chlorobenzene	<0.0010		0.0010		mg/L			10/28/24 11:15	1
Chloroethane	<0.0050		0.0050		mg/L			10/28/24 11:15	1
Chloroform	<0.0020		0.0020		mg/L			10/28/24 11:15	1
Chloromethane	<0.0050		0.0050		mg/L			10/28/24 11:15	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			10/28/24 11:15	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			10/28/24 11:15	1
Dibromochloromethane	<0.0010		0.0010		mg/L			10/28/24 11:15	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			10/28/24 11:15	1
Ethylbenzene	<0.00050		0.00050		mg/L			10/28/24 11:15	1
Isopropylbenzene	<0.0010		0.0010		mg/L			10/28/24 11:15	1
m&p-Xylene	<0.0010		0.0010		mg/L			10/28/24 11:15	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			10/28/24 11:15	1
Methylene Chloride	0.00627		0.0050		mg/L			10/28/24 11:15	1
Naphthalene	<0.0010		0.0010		mg/L			10/28/24 11:15	1
n-Butyl alcohol	<0.13		0.13		mg/L			10/28/24 11:15	1
o-Xylene	<0.00050		0.00050		mg/L			10/28/24 11:15	1
Styrene	<0.0010		0.0010		mg/L			10/28/24 11:15	1
Tetrachloroethene	<0.0010		0.0010		mg/L			10/28/24 11:15	1
Toluene	<0.00050		0.00050		mg/L			10/28/24 11:15	1
Xylenes, Total	<0.0010		0.0010		mg/L			10/28/24 11:15	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			10/28/24 11:15	1
Trichloroethene	<0.00050		0.00050		mg/L			10/28/24 11:15	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			10/28/24 11:15	1
Vinyl acetate	<0.0020		0.0020		mg/L			10/28/24 11:15	1
Vinyl chloride	<0.0010		0.0010		mg/L			10/28/24 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*10/28/24 11:15*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-792563/7
Matrix: Water
Analysis Batch: 792563

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*85*		*72 - 124*		*10/28/24 11:15*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*10/28/24 11:15*	*1*
Toluene-d8 (Surr)	*84*		*75 - 120*		*10/28/24 11:15*	*1*

Lab Sample ID: LCS 500-792563/4
Matrix: Water
Analysis Batch: 792563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0558		mg/L		112	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0469		mg/L		94	62 - 140
1,1,2-Trichloroethane	0.0500	0.0418		mg/L		84	71 - 130
1,1-Dichloroethane	0.0500	0.0531		mg/L		106	70 - 125
1,1-Dichloroethene	0.0500	0.0549		mg/L		110	67 - 122
1,2-Dibromo-3-Chloropropane	0.0500	0.0387		mg/L		77	56 - 123
1,2-Dibromoethane	0.0500	0.0492		mg/L		98	70 - 125
1,2-Dichloroethane	0.0500	0.0530		mg/L		106	68 - 127
1,2-Dichloropropane	0.0500	0.0546		mg/L		109	67 - 130
p-Dioxane	1.00	1.04		mg/L		104	70 - 129
2-Butanone (MEK)	0.0500	0.0562		mg/L		112	46 - 144
2-Hexanone	0.0500	0.0556		mg/L		111	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0492		mg/L		98	55 - 139
Acetone	0.0500	0.0462		mg/L		92	40 - 143
Benzene	0.0500	0.0604	*+	mg/L		121	70 - 120
Bromodichloromethane	0.0500	0.0545		mg/L		109	69 - 120
Bromoform	0.0500	0.0409		mg/L		82	56 - 132
Bromomethane	0.0500	0.0641		mg/L		128	40 - 152
Carbon disulfide	0.0500	0.0542		mg/L		108	66 - 120
Carbon tetrachloride	0.0500	0.0562		mg/L		112	59 - 133
Chlorobenzene	0.0500	0.0484		mg/L		97	70 - 120
Chloroethane	0.0500	0.0480		mg/L		96	48 - 136
Chloroform	0.0500	0.0559		mg/L		112	70 - 120
Chloromethane	0.0500	0.0487		mg/L		97	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0541		mg/L		108	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0442		mg/L		88	64 - 127
Dibromochloromethane	0.0500	0.0431		mg/L		86	68 - 125
Dichlorodifluoromethane	0.0500	0.0440		mg/L		88	40 - 159
Ethylbenzene	0.0500	0.0456		mg/L		91	70 - 123
Isopropylbenzene	0.0500	0.0433		mg/L		87	70 - 126
Methyl tert-butyl ether	0.0500	0.0458		mg/L		92	55 - 123
Methylene Chloride	0.0500	0.0557		mg/L		111	69 - 125
Naphthalene	0.0500	0.0375		mg/L		75	53 - 144
Styrene	0.0500	0.0452		mg/L		90	70 - 120
Tetrachloroethene	0.0500	0.0462		mg/L		92	70 - 128
Toluene	0.0500	0.0466		mg/L		93	70 - 125
Xylenes, Total	0.100	0.0966		mg/L		97	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0564		mg/L		113	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0427		mg/L		85	62 - 128

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-792563/4
Matrix: Water
Analysis Batch: 792563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	0.0500	0.0573		mg/L		115	70 - 125
Trichlorofluoromethane	0.0500	0.0579		mg/L		116	55 - 128
Vinyl acetate	0.0500	0.0466		mg/L		93	43 - 133
Vinyl chloride	0.0500	0.0466		mg/L		93	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 126*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*
Dibromofluoromethane	*90*		*75 - 120*
Toluene-d8 (Surr)	*85*		*75 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-792182/1-A
Matrix: Water
Analysis Batch: 792323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
4,4'-DDE	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
4,4'-DDT	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
Aldrin	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
alpha-BHC	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
alpha-Chlordane	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
beta-BHC	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
Chlordane (technical)	<0.00020		0.00020		mg/L		10/24/24 10:14	10/25/24 10:51	1
delta-BHC	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
Dieldrin	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
Endosulfan I	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
Endosulfan II	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
Endosulfan sulfate	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
Endrin	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
Endrin aldehyde	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
Endrin ketone	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
gamma-BHC (Lindane)	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
gamma-Chlordane	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
Heptachlor	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
Heptachlor epoxide	<0.00010		0.00010		mg/L		10/24/24 10:14	10/25/24 10:51	1
Methoxychlor	<0.00020		0.00020		mg/L		10/24/24 10:14	10/25/24 10:51	1
Toxaphene	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 10:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*118*		*30 - 130*	*10/24/24 10:14*	*10/25/24 10:51*	*1*
Tetrachloro-m-xylene	*102*		*30 - 120*	*10/24/24 10:14*	*10/25/24 10:51*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-792182/2-A
Matrix: Water
Analysis Batch: 792323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792182

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			0.000320	0.000305		mg/L		95	69 - 124		
4,4'-DDE			0.000320	0.000291		mg/L		91	58 - 122		
4,4'-DDT			0.000320	0.000317		mg/L		99	62 - 127		
Aldrin			0.000320	0.000248		mg/L		77	34 - 120		
alpha-BHC			0.000320	0.000309		mg/L		97	65 - 120		
beta-BHC			0.000320	0.000312		mg/L		97	65 - 120		
delta-BHC			0.000320	0.000296		mg/L		92	70 - 122		
Dieldrin			0.000320	0.000288		mg/L		90	68 - 120		
Endosulfan I			0.000320	0.000263		mg/L		82	35 - 110		
Endosulfan II			0.000320	0.000280		mg/L		87	53 - 110		
Endosulfan sulfate			0.000320	0.000283		mg/L		88	70 - 133		
Endrin			0.000320	0.000287		mg/L		90	60 - 132		
Endrin aldehyde			0.000320	0.000278		mg/L		87	66 - 120		
Endrin ketone			0.000320	0.000302		mg/L		94	63 - 130		
gamma-BHC (Lindane)			0.000320	0.000312		mg/L		97	68 - 120		
Heptachlor			0.000320	0.000245		mg/L		77	40 - 120		
Heptachlor epoxide			0.000320	0.000283		mg/L		89	64 - 120		
Methoxychlor			0.000320	0.000305		mg/L		95	63 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*108*		*30 - 130*
Tetrachloro-m-xylene	*88*		*30 - 120*

Lab Sample ID: LCSD 500-792182/3-A
Matrix: Water
Analysis Batch: 792323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 792182

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.000320	0.000284		mg/L		89	69 - 124	7	20
4,4'-DDE			0.000320	0.000260		mg/L		81	58 - 122	11	20
4,4'-DDT			0.000320	0.000295		mg/L		92	62 - 127	7	20
Aldrin			0.000320	0.000212		mg/L		66	34 - 120	15	20
alpha-BHC			0.000320	0.000279		mg/L		87	65 - 120	10	20
beta-BHC			0.000320	0.000282		mg/L		88	65 - 120	10	20
delta-BHC			0.000320	0.000265		mg/L		83	70 - 122	11	20
Dieldrin			0.000320	0.000263		mg/L		82	68 - 120	9	20
Endosulfan I			0.000320	0.000244		mg/L		76	35 - 110	8	20
Endosulfan II			0.000320	0.000260		mg/L		81	53 - 110	7	20
Endosulfan sulfate			0.000320	0.000267		mg/L		83	70 - 133	6	20
Endrin			0.000320	0.000269		mg/L		84	60 - 132	7	20
Endrin aldehyde			0.000320	0.000260		mg/L		81	66 - 120	6	20
Endrin ketone			0.000320	0.000288		mg/L		90	63 - 130	5	20
gamma-BHC (Lindane)			0.000320	0.000283		mg/L		88	68 - 120	10	20
Heptachlor			0.000320	0.000219		mg/L		68	40 - 120	11	20
Heptachlor epoxide			0.000320	0.000259		mg/L		81	64 - 120	9	20
Methoxychlor			0.000320	0.000293		mg/L		91	63 - 135	4	20

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 500-792182/3-A
Matrix: Water
Analysis Batch: 792323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 792182

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	95		30 - 130
Tetrachloro-m-xylene	71		30 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-792182/1-A
Matrix: Water
Analysis Batch: 792336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 12:49	1
PCB-1221	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 12:49	1
PCB-1232	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 12:49	1
PCB-1242	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 12:49	1
PCB-1248	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 12:49	1
PCB-1254	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 12:49	1
PCB-1260	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 12:49	1
Polychlorinated biphenyls, Total	<0.0010		0.0010		mg/L		10/24/24 10:14	10/25/24 12:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		30 - 120	10/24/24 10:14	10/25/24 12:49	1
DCB Decachlorobiphenyl	62		30 - 140	10/24/24 10:14	10/25/24 12:49	1

Lab Sample ID: LCS 500-792182/4-A
Matrix: Water
Analysis Batch: 792336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792182

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.00400	0.00266		mg/L		67	56 - 120		
PCB-1260			0.00400	0.00289		mg/L		72	53 - 137		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	48		30 - 120
DCB Decachlorobiphenyl	69		30 - 140

Lab Sample ID: LCSD 500-792182/5-A
Matrix: Water
Analysis Batch: 792336

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 792182

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.00400	0.00179	*- *1	mg/L		45	56 - 120	39	20
PCB-1260			0.00400	0.00190	*- *1	mg/L		48	53 - 137	41	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	34		30 - 120
DCB Decachlorobiphenyl	48		30 - 140

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-792805/1-A
Matrix: Water
Analysis Batch: 793228

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 792805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		10/29/24 08:17	10/30/24 16:40	1
Antimony	<0.0030		0.0030		mg/L		10/29/24 08:17	10/30/24 16:40	1
Arsenic	<0.0010		0.0010		mg/L		10/29/24 08:17	10/30/24 16:40	1
Barium	<0.0025		0.0025		mg/L		10/29/24 08:17	10/30/24 16:40	1
Beryllium	<0.0010		0.0010		mg/L		10/29/24 08:17	10/30/24 16:40	1
Cadmium	<0.00050		0.00050		mg/L		10/29/24 08:17	10/30/24 16:40	1
Calcium	<0.20		0.20		mg/L		10/29/24 08:17	10/30/24 16:40	1
Chromium	<0.0050		0.0050		mg/L		10/29/24 08:17	10/30/24 16:40	1
Copper	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 16:40	1
Iron	<0.10		0.10		mg/L		10/29/24 08:17	10/30/24 16:40	1
Lead	<0.00050		0.00050		mg/L		10/29/24 08:17	10/30/24 16:40	1
Magnesium	<0.20		0.20		mg/L		10/29/24 08:17	10/30/24 16:40	1
Manganese	<0.0025		0.0025		mg/L		10/29/24 08:17	10/30/24 16:40	1
Nickel	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 16:40	1
Potassium	<0.50		0.50		mg/L		10/29/24 08:17	10/30/24 16:40	1
Selenium	<0.0025		0.0025		mg/L		10/29/24 08:17	10/30/24 16:40	1
Sodium	<0.20		0.20		mg/L		10/29/24 08:17	10/30/24 16:40	1
Thallium	<0.0020		0.0020		mg/L		10/29/24 08:17	10/30/24 16:40	1
Vanadium	<0.0050		0.0050		mg/L		10/29/24 08:17	10/30/24 16:40	1
Zinc	<0.020		0.020		mg/L		10/29/24 08:17	10/30/24 16:40	1

Lab Sample ID: MB 500-792805/1-A
Matrix: Water
Analysis Batch: 793305

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 792805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		10/29/24 08:17	10/31/24 11:02	1
Silver	<0.00050		0.00050		mg/L		10/29/24 08:17	10/31/24 11:02	1

Lab Sample ID: LCS 500-792805/2-A
Matrix: Water
Analysis Batch: 793228

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 792805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2.00	2.04		mg/L		102	80 - 120
Antimony	0.500	0.513		mg/L		103	80 - 120
Arsenic	0.100	0.0977		mg/L		98	80 - 120
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0529		mg/L		106	80 - 120
Cadmium	0.0500	0.0518		mg/L		104	80 - 120
Calcium	10.0	9.18		mg/L		92	80 - 120
Chromium	0.200	0.215		mg/L		108	80 - 120
Copper	0.250	0.259		mg/L		104	80 - 120
Iron	1.00	1.09		mg/L		109	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Magnesium	10.0	11.0		mg/L		110	80 - 120
Manganese	0.500	0.536		mg/L		107	80 - 120
Nickel	0.500	0.532		mg/L		106	80 - 120
Potassium	10.0	10.7		mg/L		107	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-792805/2-A
Matrix: Water
Analysis Batch: 793228

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 792805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.100	0.0983		mg/L		98	80 - 120
Sodium	10.0	10.9		mg/L		109	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120
Vanadium	0.500	0.528		mg/L		106	80 - 120
Zinc	0.500	0.516		mg/L		103	80 - 120

Lab Sample ID: LCS 500-792805/2-A
Matrix: Water
Analysis Batch: 793305

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 792805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.500	0.558		mg/L		112	80 - 120
Silver	0.0500	0.0509		mg/L		102	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-792652/12-A
Matrix: Water
Analysis Batch: 792892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/28/24 11:05	10/29/24 07:37	1

Lab Sample ID: LCS 500-792652/13-A
Matrix: Water
Analysis Batch: 792892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792652

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00207		mg/L		104	80 - 120

Lab Sample ID: LCSD 500-792652/31-A
Matrix: Water
Analysis Batch: 792892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 792652

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00200	0.00201		mg/L		101	80 - 120	3	20

Lab Sample ID: MB 500-792653/12-A
Matrix: Water
Analysis Batch: 792892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792653

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/28/24 11:05	10/29/24 08:43	1

Lab Sample ID: LCS 500-792653/13-A
Matrix: Water
Analysis Batch: 792892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792653

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00205		mg/L		103	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-793172/1-A
Matrix: Water
Analysis Batch: 793365

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 793172

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0050		0.0050		mg/L		10/31/24 14:00	10/31/24 15:21	1

Lab Sample ID: LCS 500-793172/2-A
Matrix: Water
Analysis Batch: 793365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 793172

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.100	0.0954		mg/L		95	85 - 115		

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: NMW-4
Lab Sample ID: 500-258873-1
Date Collected: 10/21/24 12:59
Matrix: Water
Date Received: 10/22/24 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	792563	W1T	EET CHI	10/28/24 12:32
Total/NA	Prep	3510C			792182	AC	EET CHI	10/24/24 10:14
Total/NA	Analysis	8081B		1	792323	H7CM	EET CHI	10/25/24 14:54
Total/NA	Prep	3510C			792182	AC	EET CHI	10/24/24 10:14
Total/NA	Analysis	8082A		1	792336	H7CM	EET CHI	10/25/24 13:28
Dissolved	Prep	3005A			792805	BDE	EET CHI	10/29/24 08:17 - 10/29/24 14:17 [1]
Dissolved	Analysis	6020B		1	793228	RN	EET CHI	10/30/24 17:41
Dissolved	Prep	3005A			792805	BDE	EET CHI	10/29/24 08:17 - 10/29/24 14:17 [1]
Dissolved	Analysis	6020B		1	793305	RN	EET CHI	10/31/24 11:31
Total Recoverable	Prep	3005A			792805	BDE	EET CHI	10/29/24 08:17 - 10/29/24 14:17 [1]
Total Recoverable	Analysis	6020B		1	793228	RN	EET CHI	10/30/24 17:34
Total Recoverable	Prep	3005A			792805	BDE	EET CHI	10/29/24 08:17 - 10/29/24 14:17 [1]
Total Recoverable	Analysis	6020B		1	793305	RN	EET CHI	10/31/24 11:19
Dissolved	Prep	7470A			792653	MJG	EET CHI	10/28/24 11:05 - 10/28/24 13:05 [1]
Dissolved	Analysis	7470A		1	792892	MJG	EET CHI	10/29/24 09:26
Total/NA	Prep	7470A			792652	MJG	EET CHI	10/28/24 11:05 - 10/28/24 13:05 [1]
Total/NA	Analysis	7470A		1	792892	MJG	EET CHI	10/29/24 08:31
Total/NA	Prep	9010C			793172	AC	EET CHI	10/31/24 14:00 - 10/31/24 14:30 [1]
Total/NA	Analysis	9012B		1	793365	AC	EET CHI	10/31/24 15:44

Client Sample ID: NMW-2
Lab Sample ID: 500-258873-2
Date Collected: 10/21/24 12:50
Matrix: Water
Date Received: 10/22/24 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	792563	W1T	EET CHI	10/28/24 12:58
Total/NA	Prep	3510C			792182	AC	EET CHI	10/24/24 10:14
Total/NA	Analysis	8081B		1	792323	H7CM	EET CHI	10/25/24 13:53
Total/NA	Prep	3510C			792182	AC	EET CHI	10/24/24 10:14
Total/NA	Analysis	8082A		1	792336	H7CM	EET CHI	10/25/24 13:41
Dissolved	Prep	3005A			792805	BDE	EET CHI	10/29/24 08:17 - 10/29/24 14:17 [1]
Dissolved	Analysis	6020B		1	793228	RN	EET CHI	10/30/24 17:44
Dissolved	Prep	3005A			792805	BDE	EET CHI	10/29/24 08:17 - 10/29/24 14:17 [1]
Dissolved	Analysis	6020B		1	793305	RN	EET CHI	10/31/24 11:33
Total Recoverable	Prep	3005A			792805	BDE	EET CHI	10/29/24 08:17 - 10/29/24 14:17 [1]
Total Recoverable	Analysis	6020B		1	793228	RN	EET CHI	10/30/24 17:37
Total Recoverable	Prep	3005A			792805	BDE	EET CHI	10/29/24 08:17 - 10/29/24 14:17 [1]
Total Recoverable	Analysis	6020B		1	793305	RN	EET CHI	10/31/24 11:21
Dissolved	Prep	7470A			792653	MJG	EET CHI	10/28/24 11:05 - 10/28/24 13:05 [1]
Dissolved	Analysis	7470A		1	792892	MJG	EET CHI	10/29/24 09:28
Total/NA	Prep	7470A			792652	MJG	EET CHI	10/28/24 11:05 - 10/28/24 13:05 [1]
Total/NA	Analysis	7470A		1	792892	MJG	EET CHI	10/29/24 08:33
Total/NA	Prep	9010C			793172	AC	EET CHI	10/31/24 14:00 - 10/31/24 14:30 [1]
Total/NA	Analysis	9012B		1	793365	AC	EET CHI	10/31/24 15:46

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-301
Lab Sample ID: 500-258873-3

Date Collected: 10/21/24 13:12
Matrix: Water

Date Received: 10/22/24 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	792563	W1T	EET CHI	10/28/24 13:24
Total/NA	Prep	3510C			792182	AC	EET CHI	10/24/24 10:14
Total/NA	Analysis	8081B		1	792323	H7CM	EET CHI	10/25/24 14:05
Total/NA	Prep	3510C			792182	AC	EET CHI	10/24/24 10:14
Total/NA	Analysis	8082A		1	792336	H7CM	EET CHI	10/25/24 13:54
Dissolved	Prep	3005A			792805	BDE	EET CHI	10/29/24 08:17 - 10/29/24 14:17 [1]
Dissolved	Analysis	6020B		1	793228	RN	EET CHI	10/30/24 17:46
Dissolved	Prep	3005A			792805	BDE	EET CHI	10/29/24 08:17 - 10/29/24 14:17 [1]
Dissolved	Analysis	6020B		1	793305	RN	EET CHI	10/31/24 11:35
Total Recoverable	Prep	3005A			792805	BDE	EET CHI	10/29/24 08:17 - 10/29/24 14:17 [1]
Total Recoverable	Analysis	6020B		1	793228	RN	EET CHI	10/30/24 17:39
Total Recoverable	Prep	3005A			792805	BDE	EET CHI	10/29/24 08:17 - 10/29/24 14:17 [1]
Total Recoverable	Analysis	6020B		1	793305	RN	EET CHI	10/31/24 11:28
Dissolved	Prep	7470A			792653	MJG	EET CHI	10/28/24 11:05 - 10/28/24 13:05 [1]
Dissolved	Analysis	7470A		1	792892	MJG	EET CHI	10/29/24 09:30
Total/NA	Prep	7470A			792652	MJG	EET CHI	10/28/24 11:05 - 10/28/24 13:05 [1]
Total/NA	Analysis	7470A		1	792892	MJG	EET CHI	10/29/24 08:35
Total/NA	Prep	9010C			793172	AC	EET CHI	10/31/24 14:00 - 10/31/24 14:30 [1]
Total/NA	Analysis	9012B		1	793365	AC	EET CHI	10/31/24 15:47

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-258873-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Water	Polychlorinated biphenyls, Total
8260D		Water	1,3-Dichloropropene, Total

Chain of Custody Record 734829

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	**Project Manager:** Jake Hartsock	**Site Contact:**	**Date:**	COC No 1 of 1 COCs
Company Name Pioneer	**Tel/Email:** Jhartsock@pioneeresi.com	**Lab Contact:**	**Carrier:**	Sampler
Address 2753 W. 31st St	**Analysis Turnaround Time**			**For Lab Use Only:**
City/State/Zip Chanute, KS, 66720	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below Total			Lab Sampling
Fax	☐ 2 weeks			
Project Name 8080 S Lake Shore Drive	☐ 1 week			Job / SDG No 500-258873
Site	☐ 2 days			
PO# 24-0124-103	☐ 1 day			

500-258873 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL	Dissolved TCL Metals	Dissolved PFAS	Sample Specific Notes
1	NMW-4	10/21/24	12:57pm	G	GW	11	N	N	X	X	X	
2	NMW-2		12:29pm				N	N	X	X	X	
3	MW-301		1:12pm				N	N	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp. (°C) Obs'd. 1.1 Corr'd 1.1 | Therm ID No

	Company	Date/Time		Company	Date/Time
Relinquished by	Pioneer	10/22/24	Received by	EETA	10/22/24 0930
Relinquished by	EETA	10/22/24 1400	Received by		
Relinquished by			Received in Laboratory by	EETA	10/22/24 1400

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-258873-1

Login Number: 258873
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 12/5/2024 2:12:13 PM Revision 2

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-259032-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
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Revision 2

Authorized for release by
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Job ID: 500-259032-1 — Eurofins Chicago

Job Narrative
500-259032-1

Revision
The report being provided is a revision of the original report sent on 11/6/2024. The report (revision 2) is being revised due to: The report and EDD have been revised to remove the dissolved PAH results for the following samples as the lab extracted unfiltered samples for these:
MW-302
MW-303

Report revision history
Revision 1 - 11/13/2024 - Reason - The report and EDD have been revised to removed the dissolved PAH results for samples MW-304 and MW-306 as these samples were prepared from an unfiltered sample..

Receipt
The samples were received on 10/24/2024 12:18 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4º C and 3.8º C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-793591 was outside the method criteria for the following analyte(s): 1,2-Dibromo-3-Chloropropane, Bromomethane, Chloroform, Chloromethane and Dichlorodifluoromethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 500-793591 recovered outside control limits for the following analytes: 1,1,1-Trichloroethane, 2-Butanone (MEK), 2-Hexanone and Carbon tetrachloride.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) associated with batch 500-792826 recovered above the upper control limit for 2,6-Dinitrotoluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside limits when using this list of analytes. The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-792654 and analytical batch 500-792826 recovered outside limits for the following analytes: 3 & 4 Methylphenol. These results have been reported and qualified.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-792542 recovered above the upper control limit for the following analyte(s): Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Indeno[1,2,3-cd]pyrene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, Hexachlorobenzene and Hexachlorocyclopentadiene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-792824 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-792539 and analytical batch 500-792912 recovered outside control limits for the following analytes: Methoxychlor.

Method 8081B: The continuing calibration verification (CCV) associated with batch 500-792912 recovered above the upper control limit for DCB Decachlorobiphenyl. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 500-792912/4).

Job ID: 500-259032-1 (Continued) Eurofins Chicago

Method 8081B: Tetrachloro-m-xylene surrogate recovery for the following samples were outside control limits: MW-102 (500-259032-5), MW-303 (500-259032-7) and (LCS 500-792539/2-A). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside control limits: MW-306 (500-259032-2). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6020B: The method blank for preparation batch 500-793260 and analytical batch 500-793543 contained Sodium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-305
Lab Sample ID: 500-259032-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1.9		0.10		mg/L	1		6020B	Total Recoverable
Arsenic	0.0028		0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.077		0.0025		mg/L	1		6020B	Total Recoverable
Calcium	150		0.20		mg/L	1		6020B	Total Recoverable
Cobalt	0.0013		0.0010		mg/L	1		6020B	Total Recoverable
Iron	2.4		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.0037		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	25		0.20		mg/L	1		6020B	Total Recoverable
Manganese	0.22		0.0025		mg/L	1		6020B	Total Recoverable
Potassium	33		0.50		mg/L	1		6020B	Total Recoverable
Selenium	0.0044		0.0025		mg/L	1		6020B	Total Recoverable
Sodium	15	B	0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.0051		0.0050		mg/L	1		6020B	Total Recoverable
Aluminum	0.14		0.10		mg/L	1		6020B	Dissolved
Arsenic	0.0019		0.0010		mg/L	1		6020B	Dissolved
Barium	0.057		0.0025		mg/L	1		6020B	Dissolved
Calcium	100		0.20		mg/L	1		6020B	Dissolved
Magnesium	3.7		0.20		mg/L	1		6020B	Dissolved
Manganese	0.011		0.0025		mg/L	1		6020B	Dissolved
Potassium	31		0.50		mg/L	1		6020B	Dissolved
Selenium	0.0032		0.0025		mg/L	1		6020B	Dissolved
Sodium	15	B	0.20		mg/L	1		6020B	Dissolved

Client Sample ID: MW-306
Lab Sample ID: 500-259032-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0014		0.00018		mg/L	1		8270E	Total/NA
Benzo[a]pyrene	0.0026		0.00022		mg/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.0034		0.00022		mg/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	0.0026		0.0011		mg/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.0014		0.00022		mg/L	1		8270E	Total/NA
Chrysene	0.0020		0.00022		mg/L	1		8270E	Total/NA
Dibenz(a,h)anthracene	0.00057		0.00033		mg/L	1		8270E	Total/NA
Fluoranthene	0.0020		0.0011		mg/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.0027		0.00022		mg/L	1		8270E	Total/NA
Pyrene	0.0020		0.0011		mg/L	1		8270E	Total/NA
Aluminum	6.1		0.10		mg/L	1		6020B	Total Recoverable
Antimony	0.0057		0.0030		mg/L	1		6020B	Total Recoverable
Arsenic	0.0064		0.0010		mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-306 (Continued) — Lab Sample ID: 500-259032-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.13		0.0025		mg/L	1		6020B	Total Recoverable
Beryllium	0.0026		0.0010		mg/L	1		6020B	Total Recoverable
Cadmium	0.0014		0.00050		mg/L	1		6020B	Total Recoverable
Calcium	400		0.20		mg/L	1		6020B	Total Recoverable
Chromium	0.035		0.0050		mg/L	1		6020B	Total Recoverable
Cobalt	0.0031		0.0010		mg/L	1		6020B	Total Recoverable
Copper	0.48		0.0020		mg/L	1		6020B	Total Recoverable
Iron	38		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.18		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	18		0.20		mg/L	1		6020B	Total Recoverable
Manganese	1.5		0.0025		mg/L	1		6020B	Total Recoverable
Nickel	0.019		0.0020		mg/L	1		6020B	Total Recoverable
Potassium	39		0.50		mg/L	1		6020B	Total Recoverable
Selenium	0.0079		0.0025		mg/L	1		6020B	Total Recoverable
Sodium	14	B	0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.019		0.0050		mg/L	1		6020B	Total Recoverable
Zinc	0.42		0.020		mg/L	1		6020B	Total Recoverable
Arsenic	0.0011		0.0010		mg/L	1		6020B	Dissolved
Barium	0.030		0.0025		mg/L	1		6020B	Dissolved
Calcium	180		0.20		mg/L	1		6020B	Dissolved
Magnesium	3.9		0.20		mg/L	1		6020B	Dissolved
Manganese	0.0032		0.0025		mg/L	1		6020B	Dissolved
Potassium	27		0.50		mg/L	1		6020B	Dissolved
Selenium	0.0034		0.0025		mg/L	1		6020B	Dissolved
Sodium	11	B	0.20		mg/L	1		6020B	Dissolved
Cyanide, Total	0.13		0.0050		mg/L	1		9012B	Total/NA

Client Sample ID: MW-204 — Lab Sample ID: 500-259032-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.14		0.10		mg/L	1		6020B	Total Recoverable
Arsenic	0.0035		0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.046		0.0025		mg/L	1		6020B	Total Recoverable
Calcium	94		0.20		mg/L	1		6020B	Total Recoverable
Cobalt	0.0016		0.0010		mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-204 (Continued) — Lab Sample ID: 500-259032-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.023		0.0020		mg/L	1		6020B	Total Recoverable
Iron	1.5		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.00059		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	52		0.20		mg/L	1		6020B	Total Recoverable
Manganese	0.056		0.0025		mg/L	1		6020B	Total Recoverable
Nickel	0.0020		0.0020		mg/L	1		6020B	Total Recoverable
Potassium	12		0.50		mg/L	1		6020B	Total Recoverable
Sodium	13	B	0.20		mg/L	1		6020B	Total Recoverable
Arsenic	0.0011		0.0010		mg/L	1		6020B	Dissolved
Barium	0.041		0.0025		mg/L	1		6020B	Dissolved
Calcium	86		0.20		mg/L	1		6020B	Dissolved
Cobalt	0.0013		0.0010		mg/L	1		6020B	Dissolved
Copper	0.0046		0.0020		mg/L	1		6020B	Dissolved
Magnesium	48		0.20		mg/L	1		6020B	Dissolved
Manganese	0.040		0.0025		mg/L	1		6020B	Dissolved
Potassium	11		0.50		mg/L	1		6020B	Dissolved
Sodium	12	B	0.20		mg/L	1		6020B	Dissolved

Client Sample ID: MW-102D — Lab Sample ID: 500-259032-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride - DL	0.21		0.010		mg/L	10		8260D	Total/NA
Aluminum	3.6		0.10		mg/L	1		6020B	Total Recoverable
Arsenic	0.0057		0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.073		0.0025		mg/L	1		6020B	Total Recoverable
Calcium	150		0.20		mg/L	1		6020B	Total Recoverable
Chromium	0.0083		0.0050		mg/L	1		6020B	Total Recoverable
Cobalt	0.0039		0.0010		mg/L	1		6020B	Total Recoverable
Copper	0.013		0.0020		mg/L	1		6020B	Total Recoverable
Iron	9.9		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.0033		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	99		0.20		mg/L	1		6020B	Total Recoverable
Manganese	0.98		0.0025		mg/L	1		6020B	Total Recoverable
Nickel	0.0066		0.0020		mg/L	1		6020B	Total Recoverable
Potassium	8.3		0.50		mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-102D (Continued) — Lab Sample ID: 500-259032-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	16	B	0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.0089		0.0050		mg/L	1		6020B	Total Recoverable
Arsenic	0.0020		0.0010		mg/L	1		6020B	Dissolved
Barium	0.049		0.0025		mg/L	1		6020B	Dissolved
Calcium	120		0.20		mg/L	1		6020B	Dissolved
Iron	0.13		0.10		mg/L	1		6020B	Dissolved
Magnesium	83		0.20		mg/L	1		6020B	Dissolved
Manganese	0.57		0.0025		mg/L	1		6020B	Dissolved
Potassium	6.9		0.50		mg/L	1		6020B	Dissolved
Sodium	16	B	0.20		mg/L	1		6020B	Dissolved

Client Sample ID: MW-102 — Lab Sample ID: 500-259032-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride - RA	0.0020		0.0010		mg/L	1		8260D	Total/NA
Aluminum	3.7		0.10		mg/L	1		6020B	Total Recoverable
Arsenic	0.0030		0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.081		0.0025		mg/L	1		6020B	Total Recoverable
Calcium	150		0.20		mg/L	1		6020B	Total Recoverable
Chromium	0.013		0.0050		mg/L	1		6020B	Total Recoverable
Cobalt	0.0051		0.0010		mg/L	1		6020B	Total Recoverable
Copper	0.075		0.0020		mg/L	1		6020B	Total Recoverable
Iron	8.1		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.0061		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	98		0.20		mg/L	1		6020B	Total Recoverable
Manganese	0.56		0.0025		mg/L	1		6020B	Total Recoverable
Nickel	0.012		0.0020		mg/L	1		6020B	Total Recoverable
Potassium	8.6		0.50		mg/L	1		6020B	Total Recoverable
Sodium	13	B	0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.0080		0.0050		mg/L	1		6020B	Total Recoverable
Zinc	0.034		0.020		mg/L	1		6020B	Total Recoverable
Barium	0.056		0.0025		mg/L	1		6020B	Dissolved
Calcium	120		0.20		mg/L	1		6020B	Dissolved
Cobalt	0.0015		0.0010		mg/L	1		6020B	Dissolved
Copper	0.028		0.0020		mg/L	1		6020B	Dissolved
Magnesium	86		0.20		mg/L	1		6020B	Dissolved
Manganese	0.26		0.0025		mg/L	1		6020B	Dissolved
Nickel	0.0031		0.0020		mg/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-102 (Continued) — Lab Sample ID: 500-259032-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	7.6		0.50		mg/L	1		6020B	Dissolved
Sodium	13	B	0.20		mg/L	1		6020B	Dissolved

Client Sample ID: MW-302 — Lab Sample ID: 500-259032-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0020		0.00078		mg/L	1		8270E	Total/NA
Acenaphthylene	0.0020		0.00078		mg/L	1		8270E	Total/NA
Fluorene	0.0020		0.00078		mg/L	1		8270E	Total/NA
Aluminum	1.8		0.10		mg/L	1		6020B	Total Recoverable
Arsenic	0.0029		0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.10		0.0025		mg/L	1		6020B	Total Recoverable
Calcium	34		0.20		mg/L	1		6020B	Total Recoverable
Cobalt	0.0011		0.0010		mg/L	1		6020B	Total Recoverable
Copper	0.0020		0.0020		mg/L	1		6020B	Total Recoverable
Iron	2.5		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.032		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	53		0.20		mg/L	1		6020B	Total Recoverable
Manganese	0.24		0.0025		mg/L	1		6020B	Total Recoverable
Potassium	12		0.50		mg/L	1		6020B	Total Recoverable
Sodium	35	B	0.20		mg/L	1		6020B	Total Recoverable
Arsenic	0.0019		0.0010		mg/L	1		6020B	Dissolved
Barium	0.057		0.0025		mg/L	1		6020B	Dissolved
Calcium	29		0.20		mg/L	1		6020B	Dissolved
Magnesium	50		0.20		mg/L	1		6020B	Dissolved
Manganese	0.084		0.0025		mg/L	1		6020B	Dissolved
Potassium	11		0.50		mg/L	1		6020B	Dissolved
Sodium	34	B	0.20		mg/L	1		6020B	Dissolved
Cyanide, Total	0.0079		0.0050		mg/L	1		9012B	Total/NA

Client Sample ID: MW-303 — Lab Sample ID: 500-259032-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0013		0.00014		mg/L	1		8270E	Total/NA
Benzo[a]pyrene	0.0018		0.00018		mg/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.0032		0.00018		mg/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	0.0021		0.00089		mg/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.0013		0.00018		mg/L	1		8270E	Total/NA
Chrysene	0.0019		0.00018		mg/L	1		8270E	Total/NA
Dibenz(a,h)anthracene	0.00095		0.00027		mg/L	1		8270E	Total/NA
Fluoranthene	0.0014		0.00089		mg/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.0023		0.00018		mg/L	1		8270E	Total/NA
Pyrene	0.0015		0.00089		mg/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-303 (Continued)
Lab Sample ID: 500-259032-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	61		0.10		mg/L	1		6020B	Total Recoverable
Antimony	0.014		0.0030		mg/L	1		6020B	Total Recoverable
Arsenic	0.10		0.0010		mg/L	1		6020B	Total Recoverable
Barium	2.1		0.0025		mg/L	1		6020B	Total Recoverable
Beryllium	0.015		0.0010		mg/L	1		6020B	Total Recoverable
Cadmium	0.018		0.00050		mg/L	1		6020B	Total Recoverable
Calcium	300		0.20		mg/L	1		6020B	Total Recoverable
Chromium	0.32		0.0050		mg/L	1		6020B	Total Recoverable
Cobalt	0.041		0.0010		mg/L	1		6020B	Total Recoverable
Copper	0.29		0.0020		mg/L	1		6020B	Total Recoverable
Iron	360		0.10		mg/L	1		6020B	Total Recoverable
Lead	1.5		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	72		0.20		mg/L	1		6020B	Total Recoverable
Manganese	16		0.0025		mg/L	1		6020B	Total Recoverable
Nickel	0.32		0.0020		mg/L	1		6020B	Total Recoverable
Potassium	24		0.50		mg/L	1		6020B	Total Recoverable
Selenium	0.013		0.0025		mg/L	1		6020B	Total Recoverable
Silver	0.0034		0.00050		mg/L	1		6020B	Total Recoverable
Sodium	16	B	0.20		mg/L	1		6020B	Total Recoverable
Thallium	0.0066		0.0020		mg/L	1		6020B	Total Recoverable
Vanadium	0.24		0.0050		mg/L	1		6020B	Total Recoverable
Zinc	2.5		0.020		mg/L	1		6020B	Total Recoverable
Arsenic	0.0011		0.0010		mg/L	1		6020B	Dissolved
Barium	0.040		0.0025		mg/L	1		6020B	Dissolved
Calcium	180		0.20		mg/L	1		6020B	Dissolved
Iron	0.43		0.10		mg/L	1		6020B	Dissolved
Lead	0.0016		0.00050		mg/L	1		6020B	Dissolved
Magnesium	51		0.20		mg/L	1		6020B	Dissolved
Manganese	2.0		0.0025		mg/L	1		6020B	Dissolved
Nickel	0.0046		0.0020		mg/L	1		6020B	Dissolved
Potassium	20		0.50		mg/L	1		6020B	Dissolved
Sodium	16	B	0.20		mg/L	1		6020B	Dissolved
Mercury	0.0011		0.00020		mg/L	1		7470A	Total/NA
Cyanide, Total	0.49		0.050		mg/L	10		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-304
Lab Sample ID: 500-259032-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.00055		0.00013		mg/L	1		8270E	Total/NA
Benzo[a]pyrene	0.00063		0.00016		mg/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.00093		0.00016		mg/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.00035		0.00016		mg/L	1		8270E	Total/NA
Chrysene	0.00069		0.00016		mg/L	1		8270E	Total/NA
Fluoranthene	0.00085		0.00078		mg/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.00062		0.00016		mg/L	1		8270E	Total/NA
Aluminum	51		0.10		mg/L	1		6020B	Total Recoverable
Antimony	0.015		0.0030		mg/L	1		6020B	Total Recoverable
Arsenic	0.051		0.0010		mg/L	1		6020B	Total Recoverable
Barium	1.2		0.0025		mg/L	1		6020B	Total Recoverable
Beryllium	0.0072		0.0010		mg/L	1		6020B	Total Recoverable
Cadmium	0.0057		0.00050		mg/L	1		6020B	Total Recoverable
Calcium	230		0.20		mg/L	1		6020B	Total Recoverable
Chromium	0.14		0.0050		mg/L	1		6020B	Total Recoverable
Cobalt	0.027		0.0010		mg/L	1		6020B	Total Recoverable
Copper	0.39		0.0020		mg/L	1		6020B	Total Recoverable
Iron	310		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.44		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	44		0.20		mg/L	1		6020B	Total Recoverable
Manganese	14		0.0025		mg/L	1		6020B	Total Recoverable
Nickel	0.28		0.0020		mg/L	1		6020B	Total Recoverable
Potassium	19		0.50		mg/L	1		6020B	Total Recoverable
Selenium	0.0095		0.0025		mg/L	1		6020B	Total Recoverable
Silver	0.0016		0.00050		mg/L	1		6020B	Total Recoverable
Sodium	12	B	0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.15		0.0050		mg/L	1		6020B	Total Recoverable
Zinc	0.69		0.020		mg/L	1		6020B	Total Recoverable
Arsenic	0.0012		0.0010		mg/L	1		6020B	Dissolved
Barium	0.031		0.0025		mg/L	1		6020B	Dissolved
Calcium	170		0.20		mg/L	1		6020B	Dissolved
Iron	0.26		0.10		mg/L	1		6020B	Dissolved
Magnesium	32		0.20		mg/L	1		6020B	Dissolved
Manganese	1.3		0.0025		mg/L	1		6020B	Dissolved
Nickel	0.0059		0.0020		mg/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-304 (Continued)
Lab Sample ID: 500-259032-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	18		0.50		mg/L	1		6020B	Dissolved
Sodium	13	B	0.20		mg/L	1		6020B	Dissolved
Mercury	0.00095		0.00020		mg/L	1		7470A	Total/NA
Cyanide, Total	0.033		0.0050		mg/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-259032-1	MW-305	Water	10/23/24 11:30	10/24/24 12:18
500-259032-2	MW-306	Water	10/23/24 12:01	10/24/24 12:18
500-259032-3	MW-204	Water	10/23/24 12:27	10/24/24 12:18
500-259032-4	MW-102D	Water	10/23/24 13:12	10/24/24 12:18
500-259032-5	MW-102	Water	10/23/24 13:36	10/24/24 12:18
500-259032-6	MW-302	Water	10/22/24 12:59	10/24/24 12:18
500-259032-7	MW-303	Water	10/22/24 13:15	10/24/24 12:18
500-259032-8	MW-304	Water	10/22/24 13:37	10/24/24 12:18

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-305
Lab Sample ID: 500-259032-1
Date Collected: 10/23/24 11:30
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010	*1	0.0010		mg/L			11/02/24 22:01	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			11/02/24 22:01	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			11/02/24 22:01	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			11/02/24 22:01	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 22:01	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			11/02/24 22:01	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			11/02/24 22:01	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			11/02/24 22:01	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			11/02/24 22:01	1
p-Dioxane	<0.10		0.10		mg/L			11/02/24 22:01	1
2-Butanone (MEK)	<0.0050	*1	0.0050		mg/L			11/02/24 22:01	1
2-Hexanone	<0.0050	*1	0.0050		mg/L			11/02/24 22:01	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			11/02/24 22:01	1
Acetone	<0.010		0.010		mg/L			11/02/24 22:01	1
Benzene	<0.00050		0.00050		mg/L			11/02/24 22:01	1
Bromodichloromethane	<0.0010		0.0010		mg/L			11/02/24 22:01	1
Bromoform	<0.0010		0.0010		mg/L			11/02/24 22:01	1
Bromomethane	<0.0030		0.0030		mg/L			11/02/24 22:01	1
Carbon disulfide	<0.0020		0.0020		mg/L			11/02/24 22:01	1
Carbon tetrachloride	<0.0010	*1	0.0010		mg/L			11/02/24 22:01	1
Chlorobenzene	<0.0010		0.0010		mg/L			11/02/24 22:01	1
Chloroethane	<0.0050		0.0050		mg/L			11/02/24 22:01	1
Chloroform	<0.0020		0.0020		mg/L			11/02/24 22:01	1
Chloromethane	<0.0050		0.0050		mg/L			11/02/24 22:01	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 22:01	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			11/02/24 22:01	1
Dibromochloromethane	<0.0010		0.0010		mg/L			11/02/24 22:01	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			11/02/24 22:01	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/02/24 22:01	1
Isopropylbenzene	<0.0010		0.0010		mg/L			11/02/24 22:01	1
m&p-Xylene	<0.0010		0.0010		mg/L			11/02/24 22:01	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			11/02/24 22:01	1
Methylene Chloride	<0.0050		0.0050		mg/L			11/02/24 22:01	1
Naphthalene	<0.0010		0.0010		mg/L			11/02/24 22:01	1
n-Butyl alcohol	<0.13		0.13		mg/L			11/02/24 22:01	1
o-Xylene	<0.00050		0.00050		mg/L			11/02/24 22:01	1
Styrene	<0.0010		0.0010		mg/L			11/02/24 22:01	1
Tetrachloroethene	<0.0010		0.0010		mg/L			11/02/24 22:01	1
Toluene	<0.00050		0.00050		mg/L			11/02/24 22:01	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/02/24 22:01	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 22:01	1
Trichloroethene	<0.00050		0.00050		mg/L			11/02/24 22:01	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			11/02/24 22:01	1
Vinyl acetate	<0.0020		0.0020		mg/L			11/02/24 22:01	1
Vinyl chloride	<0.0010		0.0010		mg/L			11/02/24 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*11/02/24 22:01*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*11/02/24 22:01*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*11/02/24 22:01*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-305
Lab Sample ID: 500-259032-1
Date Collected: 10/23/24 11:30
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*75 - 120*		*11/02/24 22:01*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 17:36	1
Acenaphthylene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 17:36	1
Anthracene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 17:36	1
Benzo[a]anthracene	<0.00012		0.00012		mg/L		10/28/24 11:27	10/28/24 17:36	1
Benzo[a]pyrene	<0.00015		0.00015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Benzo[b]fluoranthene	<0.00015		0.00015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Benzo[g,h,i]perylene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 17:36	1
Benzo[k]fluoranthene	<0.00015		0.00015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Chrysene	<0.00015		0.00015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Dibenz(a,h)anthracene	<0.00023		0.00023		mg/L		10/28/24 11:27	10/28/24 17:36	1
Fluoranthene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 17:36	1
Fluorene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 17:36	1
Indeno[1,2,3-cd]pyrene	<0.00015		0.00015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Naphthalene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 17:36	1
Phenanthrene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 17:36	1
Pyrene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 17:36	1
1,2,4-Trichlorobenzene	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
1,2-Dichlorobenzene	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
1,3-Dichlorobenzene	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
1,4-Dichlorobenzene	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
2,4,5-Trichlorophenol	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 17:36	1
2,4,6-Trichlorophenol	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1
2,4-Dichlorophenol	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 17:36	1
2,4-Dimethylphenol	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 17:36	1
2,4-Dinitrophenol	<0.015		0.015		mg/L		10/28/24 11:27	10/28/24 17:36	1
2,4-Dinitrotoluene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 17:36	1
2,6-Dinitrotoluene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 17:36	1
2-Chloronaphthalene	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
2-Chlorophenol	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1
2-Methylnaphthalene	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
2-Methylphenol	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
2-Nitroaniline	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1
2-Nitrophenol	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 17:36	1
3,3'-Dichlorobenzidine	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1
3 & 4 Methylphenol	<0.0015	*-	0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
3-Nitroaniline	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 17:36	1
4,6-Dinitro-2-methylphenol	<0.015		0.015		mg/L		10/28/24 11:27	10/28/24 17:36	1
4-Bromophenyl phenyl ether	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1
4-Chloro-3-methylphenol	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 17:36	1
4-Chloroaniline	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 17:36	1
4-Chlorophenyl phenyl ether	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1
4-Nitroaniline	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 17:36	1
4-Nitrophenol	<0.015		0.015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Bis(2-chloroethoxy)methane	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Bis(2-chloroethyl)ether	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1

Client Sample ID: MW-305
Lab Sample ID: 500-259032-1
Date Collected: 10/23/24 11:30
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis(chloroisopropyl) ether	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Bis(2-ethylhexyl) phthalate	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 17:36	1
Butyl benzyl phthalate	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Carbazole	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1
Dibenzofuran	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Diethyl phthalate	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1
Dimethyl phthalate	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1
Di-n-butyl phthalate	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1
Di-n-octyl phthalate	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 17:36	1
Hexachlorobenzene	<0.00038		0.00038		mg/L		10/28/24 11:27	10/28/24 17:36	1
Hexachlorobutadiene	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1
Hexachlorocyclopentadiene	<0.015		0.015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Hexachloroethane	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1
Isophorone	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Nitrobenzene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 17:36	1
N-Nitrosodi-n-propylamine	<0.00038		0.00038		mg/L		10/28/24 11:27	10/28/24 17:36	1
N-Nitrosodiphenylamine	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Pentachlorophenol	<0.015		0.015		mg/L		10/28/24 11:27	10/28/24 17:36	1
Phenol	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*109*		*40 - 145*	*10/28/24 11:27*	*10/28/24 17:36*	*1*
2-Fluorobiphenyl (Surr)	*78*		*34 - 110*	*10/28/24 11:27*	*10/28/24 17:36*	*1*
2-Fluorophenol (Surr)	*53*		*27 - 110*	*10/28/24 11:27*	*10/28/24 17:36*	*1*
Nitrobenzene-d5 (Surr)	*93*		*36 - 120*	*10/28/24 11:27*	*10/28/24 17:36*	*1*
Phenol-d5 (Surr)	*38*		*20 - 110*	*10/28/24 11:27*	*10/28/24 17:36*	*1*
Terphenyl-d14 (Surr)	*109*		*40 - 145*	*10/28/24 11:27*	*10/28/24 17:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 16:04	1
Acenaphthylene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 16:04	1
Anthracene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 16:04	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		10/29/24 09:09	10/29/24 16:04	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 16:04	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 16:04	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 16:04	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 16:04	1
Chrysene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 16:04	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		10/29/24 09:09	10/29/24 16:04	1
Fluoranthene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 16:04	1
Fluorene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 16:04	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 16:04	1
Naphthalene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 16:04	1
Phenanthrene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 16:04	1
Pyrene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*70*		*36 - 120*	*10/29/24 09:09*	*10/29/24 16:04*	*1*
2-Fluorobiphenyl (Surr)	*68*		*34 - 110*	*10/29/24 09:09*	*10/29/24 16:04*	*1*

Client Sample ID: MW-305
Date Collected: 10/23/24 11:30
Date Received: 10/24/24 12:18

Lab Sample ID: 500-259032-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*93*		*40 - 145*	*10/29/24 09:09*	*10/29/24 16:04*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
4,4'-DDE	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
4,4'-DDT	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
Aldrin	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
alpha-BHC	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
alpha-Chlordane	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
beta-BHC	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
Chlordane (technical)	<0.00023		0.00023		mg/L		10/28/24 07:14	10/29/24 17:18	1
delta-BHC	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
Dieldrin	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
Endosulfan I	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
Endosulfan II	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
Endosulfan sulfate	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
Endrin	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
Endrin aldehyde	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
Endrin ketone	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
gamma-BHC (Lindane)	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
gamma-Chlordane	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
Heptachlor	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
Heptachlor epoxide	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:18	1
Methoxychlor	<0.00023	*1	0.00023		mg/L		10/28/24 07:14	10/29/24 17:18	1
Toxaphene	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*30 - 130*	*10/28/24 07:14*	*10/29/24 17:18*	*1*
Tetrachloro-m-xylene	*48*		*30 - 120*	*10/28/24 07:14*	*10/29/24 17:18*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 13:52	1
PCB-1221	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 13:52	1
PCB-1232	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 13:52	1
PCB-1242	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 13:52	1
PCB-1248	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 13:52	1
PCB-1254	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 13:52	1
PCB-1260	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 13:52	1
Polychlorinated biphenyls, Total	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*46*		*30 - 120*	*10/28/24 07:14*	*10/29/24 13:52*	*1*
DCB Decachlorobiphenyl	*48*		*30 - 140*	*10/28/24 07:14*	*10/29/24 13:52*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.9**		0.10		mg/L		10/31/24 09:10	11/01/24 13:37	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 13:37	1

Client Sample ID: MW-305
Lab Sample ID: 500-259032-1
Date Collected: 10/23/24 11:30
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0028**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:24	1
Barium	**0.077**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:37	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 13:37	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:37	1
Calcium	**150**		0.20		mg/L		10/31/24 09:10	11/01/24 13:37	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 13:37	1
Cobalt	**0.0013**		0.0010		mg/L		10/31/24 09:10	11/01/24 13:37	1
Copper	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:37	1
Iron	**2.4**		0.10		mg/L		10/31/24 09:10	11/01/24 13:37	1
Lead	**0.0037**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:37	1
Magnesium	**25**		0.20		mg/L		10/31/24 09:10	11/01/24 13:37	1
Manganese	**0.22**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:37	1
Nickel	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:37	1
Potassium	**33**		0.50		mg/L		10/31/24 09:10	11/01/24 13:37	1
Selenium	**0.0044**		0.0025		mg/L		10/31/24 09:10	11/01/24 16:24	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:37	1
Sodium	**15**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 13:37	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:37	1
Vanadium	**0.0051**		0.0050		mg/L		10/31/24 09:10	11/01/24 13:37	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 13:37	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.14**		0.10		mg/L		10/31/24 09:10	11/01/24 14:00	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 14:00	1
Arsenic	**0.0019**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:47	1
Barium	**0.057**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:00	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:00	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:00	1
Calcium	**100**		0.20		mg/L		10/31/24 09:10	11/01/24 14:00	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:00	1
Cobalt	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:00	1
Copper	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:00	1
Iron	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 14:00	1
Lead	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:00	1
Magnesium	**3.7**		0.20		mg/L		10/31/24 09:10	11/01/24 14:00	1
Manganese	**0.011**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:00	1
Nickel	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:00	1
Potassium	**31**		0.50		mg/L		10/31/24 09:10	11/01/24 14:00	1
Selenium	**0.0032**		0.0025		mg/L		10/31/24 09:10	11/01/24 16:47	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:00	1
Sodium	**15**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 14:00	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:00	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:00	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 14:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/29/24 14:40	10/30/24 12:07	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-305
Lab Sample ID: 500-259032-1
Date Collected: 10/23/24 11:30
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/30/24 11:15	10/31/24 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0050		0.0050		mg/L		11/05/24 13:42	11/05/24 15:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-306
Lab Sample ID: 500-259032-2
Date Collected: 10/23/24 12:01
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010	*1	0.0010		mg/L			11/02/24 22:25	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			11/02/24 22:25	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			11/02/24 22:25	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			11/02/24 22:25	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 22:25	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			11/02/24 22:25	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			11/02/24 22:25	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			11/02/24 22:25	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			11/02/24 22:25	1
p-Dioxane	<0.10		0.10		mg/L			11/02/24 22:25	1
2-Butanone (MEK)	<0.0050	*1	0.0050		mg/L			11/02/24 22:25	1
2-Hexanone	<0.0050	*1	0.0050		mg/L			11/02/24 22:25	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			11/02/24 22:25	1
Acetone	<0.010		0.010		mg/L			11/02/24 22:25	1
Benzene	<0.00050		0.00050		mg/L			11/02/24 22:25	1
Bromodichloromethane	<0.0010		0.0010		mg/L			11/02/24 22:25	1
Bromoform	<0.0010		0.0010		mg/L			11/02/24 22:25	1
Bromomethane	<0.0030		0.0030		mg/L			11/02/24 22:25	1
Carbon disulfide	<0.0020		0.0020		mg/L			11/02/24 22:25	1
Carbon tetrachloride	<0.0010	*1	0.0010		mg/L			11/02/24 22:25	1
Chlorobenzene	<0.0010		0.0010		mg/L			11/02/24 22:25	1
Chloroethane	<0.0050		0.0050		mg/L			11/02/24 22:25	1
Chloroform	<0.0020		0.0020		mg/L			11/02/24 22:25	1
Chloromethane	<0.0050		0.0050		mg/L			11/02/24 22:25	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 22:25	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			11/02/24 22:25	1
Dibromochloromethane	<0.0010		0.0010		mg/L			11/02/24 22:25	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			11/02/24 22:25	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/02/24 22:25	1
Isopropylbenzene	<0.0010		0.0010		mg/L			11/02/24 22:25	1
m&p-Xylene	<0.0010		0.0010		mg/L			11/02/24 22:25	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			11/02/24 22:25	1
Methylene Chloride	<0.0050		0.0050		mg/L			11/02/24 22:25	1
Naphthalene	<0.0010		0.0010		mg/L			11/02/24 22:25	1
n-Butyl alcohol	<0.13		0.13		mg/L			11/02/24 22:25	1
o-Xylene	<0.00050		0.00050		mg/L			11/02/24 22:25	1
Styrene	<0.0010		0.0010		mg/L			11/02/24 22:25	1
Tetrachloroethene	<0.0010		0.0010		mg/L			11/02/24 22:25	1
Toluene	<0.00050		0.00050		mg/L			11/02/24 22:25	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/02/24 22:25	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 22:25	1
Trichloroethene	<0.00050		0.00050		mg/L			11/02/24 22:25	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			11/02/24 22:25	1
Vinyl acetate	<0.0020		0.0020		mg/L			11/02/24 22:25	1
Vinyl chloride	<0.0010		0.0010		mg/L			11/02/24 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*11/02/24 22:25*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*11/02/24 22:25*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*11/02/24 22:25*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-306
Lab Sample ID: 500-259032-2
Date Collected: 10/23/24 12:01
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*75 - 120*		*11/02/24 22:25*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0011		0.0011		mg/L		10/28/24 11:27	10/28/24 18:01	1
Acenaphthylene	<0.0011		0.0011		mg/L		10/28/24 11:27	10/28/24 18:01	1
Anthracene	<0.0011		0.0011		mg/L		10/28/24 11:27	10/28/24 18:01	1
Benzo[a]anthracene	**0.0014**		0.00018		mg/L		10/28/24 11:27	10/28/24 18:01	1
Benzo[a]pyrene	**0.0026**		0.00022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Benzo[b]fluoranthene	**0.0034**		0.00022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Benzo[g,h,i]perylene	**0.0026**		0.0011		mg/L		10/28/24 11:27	10/28/24 18:01	1
Benzo[k]fluoranthene	**0.0014**		0.00022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Chrysene	**0.0020**		0.00022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Dibenz(a,h)anthracene	**0.00057**		0.00033		mg/L		10/28/24 11:27	10/28/24 18:01	1
Fluoranthene	**0.0020**		0.0011		mg/L		10/28/24 11:27	10/28/24 18:01	1
Fluorene	<0.0011		0.0011		mg/L		10/28/24 11:27	10/28/24 18:01	1
Indeno[1,2,3-cd]pyrene	**0.0027**		0.00022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Naphthalene	<0.0011		0.0011		mg/L		10/28/24 11:27	10/28/24 18:01	1
Phenanthrene	<0.0011		0.0011		mg/L		10/28/24 11:27	10/28/24 18:01	1
Pyrene	**0.0020**		0.0011		mg/L		10/28/24 11:27	10/28/24 18:01	1
1,2,4-Trichlorobenzene	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
1,2-Dichlorobenzene	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
1,3-Dichlorobenzene	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
1,4-Dichlorobenzene	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
2,4,5-Trichlorophenol	<0.011		0.011		mg/L		10/28/24 11:27	10/28/24 18:01	1
2,4,6-Trichlorophenol	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1
2,4-Dichlorophenol	<0.011		0.011		mg/L		10/28/24 11:27	10/28/24 18:01	1
2,4-Dimethylphenol	<0.011		0.011		mg/L		10/28/24 11:27	10/28/24 18:01	1
2,4-Dinitrophenol	<0.022		0.022		mg/L		10/28/24 11:27	10/28/24 18:01	1
2,4-Dinitrotoluene	<0.0011		0.0011		mg/L		10/28/24 11:27	10/28/24 18:01	1
2,6-Dinitrotoluene	<0.0011		0.0011		mg/L		10/28/24 11:27	10/28/24 18:01	1
2-Chloronaphthalene	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
2-Chlorophenol	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1
2-Methylnaphthalene	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
2-Methylphenol	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
2-Nitroaniline	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1
2-Nitrophenol	<0.011		0.011		mg/L		10/28/24 11:27	10/28/24 18:01	1
3,3'-Dichlorobenzidine	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1
3 & 4 Methylphenol	<0.0022	*-	0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
3-Nitroaniline	<0.011		0.011		mg/L		10/28/24 11:27	10/28/24 18:01	1
4,6-Dinitro-2-methylphenol	<0.022		0.022		mg/L		10/28/24 11:27	10/28/24 18:01	1
4-Bromophenyl phenyl ether	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1
4-Chloro-3-methylphenol	<0.011		0.011		mg/L		10/28/24 11:27	10/28/24 18:01	1
4-Chloroaniline	<0.011		0.011		mg/L		10/28/24 11:27	10/28/24 18:01	1
4-Chlorophenyl phenyl ether	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1
4-Nitroaniline	<0.011		0.011		mg/L		10/28/24 11:27	10/28/24 18:01	1
4-Nitrophenol	<0.022		0.022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Bis(2-chloroethoxy)methane	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Bis(2-chloroethyl)ether	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-306
Lab Sample ID: 500-259032-2
Date Collected: 10/23/24 12:01
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis(chloroisopropyl) ether	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Bis(2-ethylhexyl) phthalate	<0.011		0.011		mg/L		10/28/24 11:27	10/28/24 18:01	1
Butyl benzyl phthalate	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Carbazole	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1
Dibenzofuran	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Diethyl phthalate	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1
Dimethyl phthalate	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1
Di-n-butyl phthalate	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1
Di-n-octyl phthalate	<0.011		0.011		mg/L		10/28/24 11:27	10/28/24 18:01	1
Hexachlorobenzene	<0.00056		0.00056		mg/L		10/28/24 11:27	10/28/24 18:01	1
Hexachlorobutadiene	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1
Hexachlorocyclopentadiene	<0.022		0.022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Hexachloroethane	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1
Isophorone	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Nitrobenzene	<0.0011		0.0011		mg/L		10/28/24 11:27	10/28/24 18:01	1
N-Nitrosodi-n-propylamine	<0.00056		0.00056		mg/L		10/28/24 11:27	10/28/24 18:01	1
N-Nitrosodiphenylamine	<0.0022		0.0022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Pentachlorophenol	<0.022		0.022		mg/L		10/28/24 11:27	10/28/24 18:01	1
Phenol	<0.0056		0.0056		mg/L		10/28/24 11:27	10/28/24 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*40 - 145*	*10/28/24 11:27*	*10/28/24 18:01*	*1*
2-Fluorobiphenyl (Surr)	*66*		*34 - 110*	*10/28/24 11:27*	*10/28/24 18:01*	*1*
2-Fluorophenol (Surr)	*54*		*27 - 110*	*10/28/24 11:27*	*10/28/24 18:01*	*1*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*	*10/28/24 11:27*	*10/28/24 18:01*	*1*
Phenol-d5 (Surr)	*44*		*20 - 110*	*10/28/24 11:27*	*10/28/24 18:01*	*1*
Terphenyl-d14 (Surr)	*90*		*40 - 145*	*10/28/24 11:27*	*10/28/24 18:01*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
4,4'-DDE	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
4,4'-DDT	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
Aldrin	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
alpha-BHC	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
alpha-Chlordane	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
beta-BHC	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
Chlordane (technical)	<0.00025		0.00025		mg/L		10/28/24 07:14	10/29/24 17:30	1
delta-BHC	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
Dieldrin	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
Endosulfan I	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
Endosulfan II	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
Endosulfan sulfate	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
Endrin	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
Endrin aldehyde	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
Endrin ketone	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
gamma-BHC (Lindane)	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
gamma-Chlordane	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
Heptachlor	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1
Heptachlor epoxide	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 17:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-306
Lab Sample ID: 500-259032-2
Date Collected: 10/23/24 12:01
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.00025		0.00025		mg/L		10/28/24 07:14	10/29/24 17:30	1
Toxaphene	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*55*		*30 - 130*	*10/28/24 07:14*	*10/29/24 17:30*	*1*
Tetrachloro-m-xylene	*58*		*30 - 120*	*10/28/24 07:14*	*10/29/24 17:30*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 14:05	1
PCB-1221	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 14:05	1
PCB-1232	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 14:05	1
PCB-1242	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 14:05	1
PCB-1248	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 14:05	1
PCB-1254	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 14:05	1
PCB-1260	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 14:05	1
Polychlorinated biphenyls, Total	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*31*		*30 - 120*	*10/28/24 07:14*	*10/29/24 14:05*	*1*
DCB Decachlorobiphenyl	*23*	*S1-*	*30 - 140*	*10/28/24 07:14*	*10/29/24 14:05*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6.1**		0.10		mg/L		10/31/24 09:10	11/01/24 13:39	1
Antimony	**0.0057**		0.0030		mg/L		10/31/24 09:10	11/01/24 13:39	1
Arsenic	**0.0064**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:26	1
Barium	**0.13**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:39	1
Beryllium	**0.0026**		0.0010		mg/L		10/31/24 09:10	11/01/24 13:39	1
Cadmium	**0.0014**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:39	1
Calcium	**400**		0.20		mg/L		10/31/24 09:10	11/01/24 13:39	1
Chromium	**0.035**		0.0050		mg/L		10/31/24 09:10	11/01/24 13:39	1
Cobalt	**0.0031**		0.0010		mg/L		10/31/24 09:10	11/01/24 13:39	1
Copper	**0.48**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:39	1
Iron	**38**		0.10		mg/L		10/31/24 09:10	11/01/24 13:39	1
Lead	**0.18**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:39	1
Magnesium	**18**		0.20		mg/L		10/31/24 09:10	11/01/24 13:39	1
Manganese	**1.5**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:39	1
Nickel	**0.019**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:39	1
Potassium	**39**		0.50		mg/L		10/31/24 09:10	11/01/24 13:39	1
Selenium	**0.0079**		0.0025		mg/L		10/31/24 09:10	11/01/24 16:26	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:39	1
Sodium	**14**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 13:39	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:39	1
Vanadium	**0.019**		0.0050		mg/L		10/31/24 09:10	11/01/24 13:39	1
Zinc	**0.42**		0.020		mg/L		10/31/24 09:10	11/01/24 13:39	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 14:03	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 14:03	1

Client Sample ID: MW-306
Lab Sample ID: 500-259032-2

Date Collected: 10/23/24 12:01
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0011**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:49	1
Barium	**0.030**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:03	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:03	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:03	1
Calcium	**180**		0.20		mg/L		10/31/24 09:10	11/01/24 14:03	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:03	1
Cobalt	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:03	1
Copper	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:03	1
Iron	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 14:03	1
Lead	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:03	1
Magnesium	**3.9**		0.20		mg/L		10/31/24 09:10	11/01/24 14:03	1
Manganese	**0.0032**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:03	1
Nickel	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:03	1
Potassium	**27**		0.50		mg/L		10/31/24 09:10	11/01/24 14:03	1
Selenium	**0.0034**		0.0025		mg/L		10/31/24 09:10	11/01/24 16:49	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:03	1
Sodium	**11**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 14:03	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:03	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:03	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 14:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/29/24 14:40	10/30/24 12:09	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/30/24 11:15	10/31/24 07:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.13**		0.0050		mg/L		11/05/24 13:42	11/05/24 15:49	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-204
Lab Sample ID: 500-259032-3
Date Collected: 10/23/24 12:27
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010	*1	0.0010		mg/L			11/02/24 22:49	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			11/02/24 22:49	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			11/02/24 22:49	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			11/02/24 22:49	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 22:49	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			11/02/24 22:49	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			11/02/24 22:49	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			11/02/24 22:49	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			11/02/24 22:49	1
p-Dioxane	<0.10		0.10		mg/L			11/02/24 22:49	1
2-Butanone (MEK)	<0.0050	*1	0.0050		mg/L			11/02/24 22:49	1
2-Hexanone	<0.0050	*1	0.0050		mg/L			11/02/24 22:49	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			11/02/24 22:49	1
Acetone	<0.010		0.010		mg/L			11/02/24 22:49	1
Benzene	<0.00050		0.00050		mg/L			11/02/24 22:49	1
Bromodichloromethane	<0.0010		0.0010		mg/L			11/02/24 22:49	1
Bromoform	<0.0010		0.0010		mg/L			11/02/24 22:49	1
Bromomethane	<0.0030		0.0030		mg/L			11/02/24 22:49	1
Carbon disulfide	<0.0020		0.0020		mg/L			11/02/24 22:49	1
Carbon tetrachloride	<0.0010	*1	0.0010		mg/L			11/02/24 22:49	1
Chlorobenzene	<0.0010		0.0010		mg/L			11/02/24 22:49	1
Chloroethane	<0.0050		0.0050		mg/L			11/02/24 22:49	1
Chloroform	<0.0020		0.0020		mg/L			11/02/24 22:49	1
Chloromethane	<0.0050		0.0050		mg/L			11/02/24 22:49	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 22:49	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			11/02/24 22:49	1
Dibromochloromethane	<0.0010		0.0010		mg/L			11/02/24 22:49	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			11/02/24 22:49	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/02/24 22:49	1
Isopropylbenzene	<0.0010		0.0010		mg/L			11/02/24 22:49	1
m&p-Xylene	<0.0010		0.0010		mg/L			11/02/24 22:49	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			11/02/24 22:49	1
Methylene Chloride	<0.0050		0.0050		mg/L			11/02/24 22:49	1
Naphthalene	<0.0010		0.0010		mg/L			11/02/24 22:49	1
n-Butyl alcohol	<0.13		0.13		mg/L			11/02/24 22:49	1
o-Xylene	<0.00050		0.00050		mg/L			11/02/24 22:49	1
Styrene	<0.0010		0.0010		mg/L			11/02/24 22:49	1
Tetrachloroethene	<0.0010		0.0010		mg/L			11/02/24 22:49	1
Toluene	<0.00050		0.00050		mg/L			11/02/24 22:49	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/02/24 22:49	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 22:49	1
Trichloroethene	<0.00050		0.00050		mg/L			11/02/24 22:49	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			11/02/24 22:49	1
Vinyl acetate	<0.0020		0.0020		mg/L			11/02/24 22:49	1
Vinyl chloride	<0.0010		0.0010		mg/L			11/02/24 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*11/02/24 22:49*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*11/02/24 22:49*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*11/02/24 22:49*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-204
Lab Sample ID: 500-259032-3
Date Collected: 10/23/24 12:27
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*75 - 120*		*11/02/24 22:49*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:26	1
Acenaphthylene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:26	1
Anthracene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:26	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		10/28/24 11:27	10/28/24 18:26	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Benzo[g,h,i]perylene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:26	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Chrysene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Dibenz(a,h)anthracene	<0.00023		0.00023		mg/L		10/28/24 11:27	10/28/24 18:26	1
Fluoranthene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:26	1
Fluorene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:26	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Naphthalene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:26	1
Phenanthrene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:26	1
Pyrene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:26	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
2,4,5-Trichlorophenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:26	1
2,4,6-Trichlorophenol	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1
2,4-Dichlorophenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:26	1
2,4-Dimethylphenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:26	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 18:26	1
2,4-Dinitrotoluene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:26	1
2,6-Dinitrotoluene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:26	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
2-Chlorophenol	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
2-Methylphenol	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
2-Nitroaniline	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1
2-Nitrophenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:26	1
3,3'-Dichlorobenzidine	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1
3 & 4 Methylphenol	<0.0016	*-	0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
3-Nitroaniline	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:26	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 18:26	1
4-Bromophenyl phenyl ether	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1
4-Chloro-3-methylphenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:26	1
4-Chloroaniline	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:26	1
4-Chlorophenyl phenyl ether	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1
4-Nitroaniline	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:26	1
4-Nitrophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1

Client Sample ID: MW-204
Lab Sample ID: 500-259032-3
Date Collected: 10/23/24 12:27
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Bis(2-ethylhexyl) phthalate	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:26	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Carbazole	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1
Dibenzofuran	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Diethyl phthalate	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1
Dimethyl phthalate	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1
Di-n-butyl phthalate	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1
Di-n-octyl phthalate	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:26	1
Hexachlorobenzene	<0.00039		0.00039		mg/L		10/28/24 11:27	10/28/24 18:26	1
Hexachlorobutadiene	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Hexachloroethane	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1
Isophorone	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Nitrobenzene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:26	1
N-Nitrosodi-n-propylamine	<0.00039		0.00039		mg/L		10/28/24 11:27	10/28/24 18:26	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Pentachlorophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 18:26	1
Phenol	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*130*		*40 - 145*	*10/28/24 11:27*	*10/28/24 18:26*	*1*
2-Fluorobiphenyl (Surr)	*90*		*34 - 110*	*10/28/24 11:27*	*10/28/24 18:26*	*1*
2-Fluorophenol (Surr)	*57*		*27 - 110*	*10/28/24 11:27*	*10/28/24 18:26*	*1*
Nitrobenzene-d5 (Surr)	*102*		*36 - 120*	*10/28/24 11:27*	*10/28/24 18:26*	*1*
Phenol-d5 (Surr)	*43*		*20 - 110*	*10/28/24 11:27*	*10/28/24 18:26*	*1*
Terphenyl-d14 (Surr)	*133*		*40 - 145*	*10/28/24 11:27*	*10/28/24 18:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00076		0.00076		mg/L		10/29/24 09:09	10/29/24 16:48	1
Acenaphthylene	<0.00076		0.00076		mg/L		10/29/24 09:09	10/29/24 16:48	1
Anthracene	<0.00076		0.00076		mg/L		10/29/24 09:09	10/29/24 16:48	1
Benzo[a]anthracene	<0.00012		0.00012		mg/L		10/29/24 09:09	10/29/24 16:48	1
Benzo[a]pyrene	<0.00015		0.00015		mg/L		10/29/24 09:09	10/29/24 16:48	1
Benzo[b]fluoranthene	<0.00015		0.00015		mg/L		10/29/24 09:09	10/29/24 16:48	1
Benzo[g,h,i]perylene	<0.00076		0.00076		mg/L		10/29/24 09:09	10/29/24 16:48	1
Benzo[k]fluoranthene	<0.00015		0.00015		mg/L		10/29/24 09:09	10/29/24 16:48	1
Chrysene	<0.00015		0.00015		mg/L		10/29/24 09:09	10/29/24 16:48	1
Dibenz(a,h)anthracene	<0.00023		0.00023		mg/L		10/29/24 09:09	10/29/24 16:48	1
Fluoranthene	<0.00076		0.00076		mg/L		10/29/24 09:09	10/29/24 16:48	1
Fluorene	<0.00076		0.00076		mg/L		10/29/24 09:09	10/29/24 16:48	1
Indeno[1,2,3-cd]pyrene	<0.00015		0.00015		mg/L		10/29/24 09:09	10/29/24 16:48	1
Naphthalene	<0.00076		0.00076		mg/L		10/29/24 09:09	10/29/24 16:48	1
Phenanthrene	<0.00076		0.00076		mg/L		10/29/24 09:09	10/29/24 16:48	1
Pyrene	<0.00076		0.00076		mg/L		10/29/24 09:09	10/29/24 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*76*		*36 - 120*	*10/29/24 09:09*	*10/29/24 16:48*	*1*
2-Fluorobiphenyl (Surr)	*76*		*34 - 110*	*10/29/24 09:09*	*10/29/24 16:48*	*1*

Client Sample ID: MW-204
Lab Sample ID: 500-259032-3
Date Collected: 10/23/24 12:27
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*92*		*40 - 145*	*10/29/24 09:09*	*10/29/24 16:48*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
4,4'-DDE	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
4,4'-DDT	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
Aldrin	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
alpha-BHC	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
alpha-Chlordane	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
beta-BHC	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
Chlordane (technical)	<0.00020		0.00020		mg/L		10/28/24 07:14	10/29/24 17:42	1
delta-BHC	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
Dieldrin	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
Endosulfan I	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
Endosulfan II	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
Endosulfan sulfate	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
Endrin	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
Endrin aldehyde	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
Endrin ketone	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
gamma-BHC (Lindane)	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
gamma-Chlordane	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
Heptachlor	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
Heptachlor epoxide	<0.000098		0.000098		mg/L		10/28/24 07:14	10/29/24 17:42	1
Methoxychlor	<0.00020	*1	0.00020		mg/L		10/28/24 07:14	10/29/24 17:42	1
Toxaphene	<0.00098		0.00098		mg/L		10/28/24 07:14	10/29/24 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*71*		*30 - 130*	*10/28/24 07:14*	*10/29/24 17:42*	*1*
Tetrachloro-m-xylene	*39*		*30 - 120*	*10/28/24 07:14*	*10/29/24 17:42*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00098		0.00098		mg/L		10/28/24 07:14	10/29/24 14:18	1
PCB-1221	<0.00098		0.00098		mg/L		10/28/24 07:14	10/29/24 14:18	1
PCB-1232	<0.00098		0.00098		mg/L		10/28/24 07:14	10/29/24 14:18	1
PCB-1242	<0.00098		0.00098		mg/L		10/28/24 07:14	10/29/24 14:18	1
PCB-1248	<0.00098		0.00098		mg/L		10/28/24 07:14	10/29/24 14:18	1
PCB-1254	<0.00098		0.00098		mg/L		10/28/24 07:14	10/29/24 14:18	1
PCB-1260	<0.00098		0.00098		mg/L		10/28/24 07:14	10/29/24 14:18	1
Polychlorinated biphenyls, Total	<0.00098		0.00098		mg/L		10/28/24 07:14	10/29/24 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*43*		*30 - 120*	*10/28/24 07:14*	*10/29/24 14:18*	*1*
DCB Decachlorobiphenyl	*57*		*30 - 140*	*10/28/24 07:14*	*10/29/24 14:18*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.14**		0.10		mg/L		10/31/24 09:10	11/01/24 13:46	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 13:46	1

Client Sample ID: MW-204
Lab Sample ID: 500-259032-3
Date Collected: 10/23/24 12:27
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0035**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:28	1
Barium	**0.046**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:46	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 13:46	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:46	1
Calcium	**94**		0.20		mg/L		10/31/24 09:10	11/01/24 13:46	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 13:46	1
Cobalt	**0.0016**		0.0010		mg/L		10/31/24 09:10	11/01/24 13:46	1
Copper	**0.023**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:46	1
Iron	**1.5**		0.10		mg/L		10/31/24 09:10	11/01/24 13:46	1
Lead	**0.00059**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:46	1
Magnesium	**52**		0.20		mg/L		10/31/24 09:10	11/01/24 13:46	1
Manganese	**0.056**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:46	1
Nickel	**0.0020**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:46	1
Potassium	**12**		0.50		mg/L		10/31/24 09:10	11/01/24 13:46	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 16:28	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:46	1
Sodium	**13**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 13:46	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:46	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 13:46	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 13:46	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 14:10	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 14:10	1
Arsenic	**0.0011**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:51	1
Barium	**0.041**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:10	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:10	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:10	1
Calcium	**86**		0.20		mg/L		10/31/24 09:10	11/01/24 14:10	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:10	1
Cobalt	**0.0013**		0.0010		mg/L		10/31/24 09:10	11/01/24 14:10	1
Copper	**0.0046**		0.0020		mg/L		10/31/24 09:10	11/01/24 14:10	1
Iron	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 14:10	1
Lead	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:10	1
Magnesium	**48**		0.20		mg/L		10/31/24 09:10	11/01/24 14:10	1
Manganese	**0.040**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:10	1
Nickel	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:10	1
Potassium	**11**		0.50		mg/L		10/31/24 09:10	11/01/24 14:10	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 16:51	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:10	1
Sodium	**12**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 14:10	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:10	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:10	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 14:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/29/24 14:40	10/30/24 12:16	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-204
Lab Sample ID: 500-259032-3
Date Collected: 10/23/24 12:27
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/30/24 11:15	10/31/24 07:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0050		0.0050		mg/L		11/05/24 13:42	11/05/24 15:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-102D
Lab Sample ID: 500-259032-4

Date Collected: 10/23/24 13:12
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010	*1	0.0010		mg/L			11/02/24 23:13	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			11/02/24 23:13	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			11/02/24 23:13	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			11/02/24 23:13	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 23:13	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			11/02/24 23:13	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			11/02/24 23:13	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			11/02/24 23:13	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			11/02/24 23:13	1
p-Dioxane	<0.10		0.10		mg/L			11/02/24 23:13	1
2-Butanone (MEK)	<0.0050	*1	0.0050		mg/L			11/02/24 23:13	1
2-Hexanone	<0.0050	*1	0.0050		mg/L			11/02/24 23:13	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			11/02/24 23:13	1
Acetone	<0.010		0.010		mg/L			11/02/24 23:13	1
Benzene	<0.00050		0.00050		mg/L			11/02/24 23:13	1
Bromodichloromethane	<0.0010		0.0010		mg/L			11/02/24 23:13	1
Bromoform	<0.0010		0.0010		mg/L			11/02/24 23:13	1
Bromomethane	<0.0030		0.0030		mg/L			11/02/24 23:13	1
Carbon disulfide	<0.0020		0.0020		mg/L			11/02/24 23:13	1
Carbon tetrachloride	<0.0010	*1	0.0010		mg/L			11/02/24 23:13	1
Chlorobenzene	<0.0010		0.0010		mg/L			11/02/24 23:13	1
Chloroethane	<0.0050		0.0050		mg/L			11/02/24 23:13	1
Chloroform	<0.0020		0.0020		mg/L			11/02/24 23:13	1
Chloromethane	<0.0050		0.0050		mg/L			11/02/24 23:13	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 23:13	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			11/02/24 23:13	1
Dibromochloromethane	<0.0010		0.0010		mg/L			11/02/24 23:13	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			11/02/24 23:13	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/02/24 23:13	1
Isopropylbenzene	<0.0010		0.0010		mg/L			11/02/24 23:13	1
m&p-Xylene	<0.0010		0.0010		mg/L			11/02/24 23:13	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			11/02/24 23:13	1
Methylene Chloride	<0.0050		0.0050		mg/L			11/02/24 23:13	1
Naphthalene	<0.0010		0.0010		mg/L			11/02/24 23:13	1
n-Butyl alcohol	<0.13		0.13		mg/L			11/02/24 23:13	1
o-Xylene	<0.00050		0.00050		mg/L			11/02/24 23:13	1
Styrene	<0.0010		0.0010		mg/L			11/02/24 23:13	1
Tetrachloroethene	<0.0010		0.0010		mg/L			11/02/24 23:13	1
Toluene	<0.00050		0.00050		mg/L			11/02/24 23:13	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/02/24 23:13	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 23:13	1
Trichloroethene	<0.00050		0.00050		mg/L			11/02/24 23:13	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			11/02/24 23:13	1
Vinyl acetate	<0.0020		0.0020		mg/L			11/02/24 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*11/02/24 23:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*11/02/24 23:13*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*11/02/24 23:13*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*11/02/24 23:13*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-102D
Lab Sample ID: 500-259032-4

Date Collected: 10/23/24 13:12
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.21		0.010		mg/L			11/05/24 11:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*		*11/05/24 11:45*	*10*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*11/05/24 11:45*	*10*
Dibromofluoromethane	*96*		*75 - 120*		*11/05/24 11:45*	*10*
Toluene-d8 (Surr)	*107*		*75 - 120*		*11/05/24 11:45*	*10*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:51	1
Acenaphthylene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:51	1
Anthracene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:51	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		10/28/24 11:27	10/28/24 18:51	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Benzo[g,h,i]perylene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:51	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Chrysene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Dibenz(a,h)anthracene	<0.00023		0.00023		mg/L		10/28/24 11:27	10/28/24 18:51	1
Fluoranthene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:51	1
Fluorene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:51	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Naphthalene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:51	1
Phenanthrene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:51	1
Pyrene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:51	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
2,4,5-Trichlorophenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:51	1
2,4,6-Trichlorophenol	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1
2,4-Dichlorophenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:51	1
2,4-Dimethylphenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:51	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 18:51	1
2,4-Dinitrotoluene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:51	1
2,6-Dinitrotoluene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:51	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
2-Chlorophenol	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
2-Methylphenol	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
2-Nitroaniline	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1
2-Nitrophenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:51	1
3,3'-Dichlorobenzidine	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1
3 & 4 Methylphenol	<0.0016	*-	0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
3-Nitroaniline	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:51	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 18:51	1
4-Bromophenyl phenyl ether	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1
4-Chloro-3-methylphenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:51	1
4-Chloroaniline	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-102D
Lab Sample ID: 500-259032-4
Date Collected: 10/23/24 13:12
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1
4-Nitroaniline	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:51	1
4-Nitrophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Bis(2-ethylhexyl) phthalate	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:51	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Carbazole	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1
Dibenzofuran	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Diethyl phthalate	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1
Dimethyl phthalate	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1
Di-n-butyl phthalate	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1
Di-n-octyl phthalate	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 18:51	1
Hexachlorobenzene	<0.00039		0.00039		mg/L		10/28/24 11:27	10/28/24 18:51	1
Hexachlorobutadiene	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Hexachloroethane	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1
Isophorone	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Nitrobenzene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 18:51	1
N-Nitrosodi-n-propylamine	<0.00039		0.00039		mg/L		10/28/24 11:27	10/28/24 18:51	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Pentachlorophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 18:51	1
Phenol	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*129*		*40 - 145*	*10/28/24 11:27*	*10/28/24 18:51*	*1*
2-Fluorobiphenyl (Surr)	*101*		*34 - 110*	*10/28/24 11:27*	*10/28/24 18:51*	*1*
2-Fluorophenol (Surr)	*66*		*27 - 110*	*10/28/24 11:27*	*10/28/24 18:51*	*1*
Nitrobenzene-d5 (Surr)	*115*		*36 - 120*	*10/28/24 11:27*	*10/28/24 18:51*	*1*
Phenol-d5 (Surr)	*47*		*20 - 110*	*10/28/24 11:27*	*10/28/24 18:51*	*1*
Terphenyl-d14 (Surr)	*124*		*40 - 145*	*10/28/24 11:27*	*10/28/24 18:51*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00078		0.00078		mg/L		10/29/24 09:09	10/29/24 17:10	1
Acenaphthylene	<0.00078		0.00078		mg/L		10/29/24 09:09	10/29/24 17:10	1
Anthracene	<0.00078		0.00078		mg/L		10/29/24 09:09	10/29/24 17:10	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		10/29/24 09:09	10/29/24 17:10	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 17:10	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 17:10	1
Benzo[g,h,i]perylene	<0.00078		0.00078		mg/L		10/29/24 09:09	10/29/24 17:10	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 17:10	1
Chrysene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 17:10	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		10/29/24 09:09	10/29/24 17:10	1
Fluoranthene	<0.00078		0.00078		mg/L		10/29/24 09:09	10/29/24 17:10	1
Fluorene	<0.00078		0.00078		mg/L		10/29/24 09:09	10/29/24 17:10	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 17:10	1
Naphthalene	<0.00078		0.00078		mg/L		10/29/24 09:09	10/29/24 17:10	1
Phenanthrene	<0.00078		0.00078		mg/L		10/29/24 09:09	10/29/24 17:10	1

Client Sample ID: MW-102D
Lab Sample ID: 500-259032-4
Date Collected: 10/23/24 13:12
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.00078		0.00078		mg/L		10/29/24 09:09	10/29/24 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*79*		*36 - 120*	*10/29/24 09:09*	*10/29/24 17:10*	*1*
2-Fluorobiphenyl (Surr)	*83*		*34 - 110*	*10/29/24 09:09*	*10/29/24 17:10*	*1*
Terphenyl-d14 (Surr)	*104*		*40 - 145*	*10/29/24 09:09*	*10/29/24 17:10*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
4,4'-DDE	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
4,4'-DDT	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
Aldrin	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
alpha-BHC	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
alpha-Chlordane	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
beta-BHC	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
Chlordane (technical)	<0.00019		0.00019		mg/L		10/28/24 07:14	10/29/24 17:54	1
delta-BHC	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
Dieldrin	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
Endosulfan I	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
Endosulfan II	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
Endosulfan sulfate	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
Endrin	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
Endrin aldehyde	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
Endrin ketone	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
gamma-BHC (Lindane)	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
gamma-Chlordane	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
Heptachlor	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
Heptachlor epoxide	<0.000095		0.000095		mg/L		10/28/24 07:14	10/29/24 17:54	1
Methoxychlor	<0.00019	*1	0.00019		mg/L		10/28/24 07:14	10/29/24 17:54	1
Toxaphene	<0.00095		0.00095		mg/L		10/28/24 07:14	10/29/24 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*30 - 130*	*10/28/24 07:14*	*10/29/24 17:54*	*1*
Tetrachloro-m-xylene	*46*		*30 - 120*	*10/28/24 07:14*	*10/29/24 17:54*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00095		0.00095		mg/L		10/28/24 07:14	10/29/24 14:31	1
PCB-1221	<0.00095		0.00095		mg/L		10/28/24 07:14	10/29/24 14:31	1
PCB-1232	<0.00095		0.00095		mg/L		10/28/24 07:14	10/29/24 14:31	1
PCB-1242	<0.00095		0.00095		mg/L		10/28/24 07:14	10/29/24 14:31	1
PCB-1248	<0.00095		0.00095		mg/L		10/28/24 07:14	10/29/24 14:31	1
PCB-1254	<0.00095		0.00095		mg/L		10/28/24 07:14	10/29/24 14:31	1
PCB-1260	<0.00095		0.00095		mg/L		10/28/24 07:14	10/29/24 14:31	1
Polychlorinated biphenyls, Total	<0.00095		0.00095		mg/L		10/28/24 07:14	10/29/24 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*30 - 120*	*10/28/24 07:14*	*10/29/24 14:31*	*1*
DCB Decachlorobiphenyl	*44*		*30 - 140*	*10/28/24 07:14*	*10/29/24 14:31*	*1*

Client Sample ID: MW-102D
Lab Sample ID: 500-259032-4

Date Collected: 10/23/24 13:12
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3.6**		0.10		mg/L		10/31/24 09:10	11/01/24 13:49	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 13:49	1
Arsenic	**0.0057**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:31	1
Barium	**0.073**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:49	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 13:49	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:49	1
Calcium	**150**		0.20		mg/L		10/31/24 09:10	11/01/24 13:49	1
Chromium	**0.0083**		0.0050		mg/L		10/31/24 09:10	11/01/24 13:49	1
Cobalt	**0.0039**		0.0010		mg/L		10/31/24 09:10	11/01/24 13:49	1
Copper	**0.013**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:49	1
Iron	**9.9**		0.10		mg/L		10/31/24 09:10	11/01/24 13:49	1
Lead	**0.0033**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:49	1
Magnesium	**99**		0.20		mg/L		10/31/24 09:10	11/01/24 13:49	1
Manganese	**0.98**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:49	1
Nickel	**0.0066**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:49	1
Potassium	**8.3**		0.50		mg/L		10/31/24 09:10	11/01/24 13:49	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 16:31	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:49	1
Sodium	**16**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 13:49	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:49	1
Vanadium	**0.0089**		0.0050		mg/L		10/31/24 09:10	11/01/24 13:49	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 13:49	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 14:12	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 14:12	1
Arsenic	**0.0020**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:53	1
Barium	**0.049**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:12	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:12	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:12	1
Calcium	**120**		0.20		mg/L		10/31/24 09:10	11/01/24 14:12	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:12	1
Cobalt	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:12	1
Copper	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:12	1
Iron	**0.13**		0.10		mg/L		10/31/24 09:10	11/01/24 14:12	1
Lead	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:12	1
Magnesium	**83**		0.20		mg/L		10/31/24 09:10	11/01/24 14:12	1
Manganese	**0.57**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:12	1
Nickel	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:12	1
Potassium	**6.9**		0.50		mg/L		10/31/24 09:10	11/01/24 14:12	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 16:53	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:12	1
Sodium	**16**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 14:12	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:12	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:12	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 14:12	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-102D
Lab Sample ID: 500-259032-4
Date Collected: 10/23/24 13:12
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/29/24 14:40	10/30/24 12:18	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/30/24 11:15	10/31/24 07:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0050		0.0050		mg/L		11/05/24 13:42	11/05/24 15:53	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-102
Lab Sample ID: 500-259032-5

Date Collected: 10/23/24 13:36
Matrix: Water

Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010	*1	0.0010		mg/L			11/02/24 23:37	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			11/02/24 23:37	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			11/02/24 23:37	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			11/02/24 23:37	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 23:37	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			11/02/24 23:37	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			11/02/24 23:37	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			11/02/24 23:37	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			11/02/24 23:37	1
p-Dioxane	<0.10		0.10		mg/L			11/02/24 23:37	1
2-Butanone (MEK)	<0.0050	*1	0.0050		mg/L			11/02/24 23:37	1
2-Hexanone	<0.0050	*1	0.0050		mg/L			11/02/24 23:37	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			11/02/24 23:37	1
Acetone	<0.010		0.010		mg/L			11/02/24 23:37	1
Benzene	<0.00050		0.00050		mg/L			11/02/24 23:37	1
Bromodichloromethane	<0.0010		0.0010		mg/L			11/02/24 23:37	1
Bromoform	<0.0010		0.0010		mg/L			11/02/24 23:37	1
Bromomethane	<0.0030		0.0030		mg/L			11/02/24 23:37	1
Carbon disulfide	<0.0020		0.0020		mg/L			11/02/24 23:37	1
Carbon tetrachloride	<0.0010	*1	0.0010		mg/L			11/02/24 23:37	1
Chlorobenzene	<0.0010		0.0010		mg/L			11/02/24 23:37	1
Chloroethane	<0.0050		0.0050		mg/L			11/02/24 23:37	1
Chloroform	<0.0020		0.0020		mg/L			11/02/24 23:37	1
Chloromethane	<0.0050		0.0050		mg/L			11/02/24 23:37	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 23:37	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			11/02/24 23:37	1
Dibromochloromethane	<0.0010		0.0010		mg/L			11/02/24 23:37	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			11/02/24 23:37	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/02/24 23:37	1
Isopropylbenzene	<0.0010		0.0010		mg/L			11/02/24 23:37	1
m&p-Xylene	<0.0010		0.0010		mg/L			11/02/24 23:37	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			11/02/24 23:37	1
Methylene Chloride	<0.0050		0.0050		mg/L			11/02/24 23:37	1
Naphthalene	<0.0010		0.0010		mg/L			11/02/24 23:37	1
n-Butyl alcohol	<0.13		0.13		mg/L			11/02/24 23:37	1
o-Xylene	<0.00050		0.00050		mg/L			11/02/24 23:37	1
Styrene	<0.0010		0.0010		mg/L			11/02/24 23:37	1
Tetrachloroethene	<0.0010		0.0010		mg/L			11/02/24 23:37	1
Toluene	<0.00050		0.00050		mg/L			11/02/24 23:37	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/02/24 23:37	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 23:37	1
Trichloroethene	<0.00050		0.00050		mg/L			11/02/24 23:37	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			11/02/24 23:37	1
Vinyl acetate	<0.0020		0.0020		mg/L			11/02/24 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*11/02/24 23:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*11/02/24 23:37*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*11/02/24 23:37*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*11/02/24 23:37*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-102
Lab Sample ID: 500-259032-5
Date Collected: 10/23/24 13:36
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.0020		0.0010		mg/L			11/05/24 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*		*11/05/24 12:10*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*11/05/24 12:10*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*11/05/24 12:10*	*1*
Toluene-d8 (Surr)	*108*		*75 - 120*		*11/05/24 12:10*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 19:16	1
Acenaphthylene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 19:16	1
Anthracene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 19:16	1
Benzo[a]anthracene	<0.00012		0.00012		mg/L		10/28/24 11:27	10/28/24 19:16	1
Benzo[a]pyrene	<0.00015		0.00015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Benzo[b]fluoranthene	<0.00015		0.00015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Benzo[g,h,i]perylene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 19:16	1
Benzo[k]fluoranthene	<0.00015		0.00015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Chrysene	<0.00015		0.00015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Dibenz(a,h)anthracene	<0.00023		0.00023		mg/L		10/28/24 11:27	10/28/24 19:16	1
Fluoranthene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 19:16	1
Fluorene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 19:16	1
Indeno[1,2,3-cd]pyrene	<0.00015		0.00015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Naphthalene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 19:16	1
Phenanthrene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 19:16	1
Pyrene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 19:16	1
1,2,4-Trichlorobenzene	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
1,2-Dichlorobenzene	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
1,3-Dichlorobenzene	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
1,4-Dichlorobenzene	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
2,4,5-Trichlorophenol	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 19:16	1
2,4,6-Trichlorophenol	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1
2,4-Dichlorophenol	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 19:16	1
2,4-Dimethylphenol	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 19:16	1
2,4-Dinitrophenol	<0.015		0.015		mg/L		10/28/24 11:27	10/28/24 19:16	1
2,4-Dinitrotoluene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 19:16	1
2,6-Dinitrotoluene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 19:16	1
2-Chloronaphthalene	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
2-Chlorophenol	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1
2-Methylnaphthalene	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
2-Methylphenol	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
2-Nitroaniline	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1
2-Nitrophenol	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 19:16	1
3,3'-Dichlorobenzidine	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1
3 & 4 Methylphenol	<0.0015	*-	0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
3-Nitroaniline	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 19:16	1
4,6-Dinitro-2-methylphenol	<0.015		0.015		mg/L		10/28/24 11:27	10/28/24 19:16	1
4-Bromophenyl phenyl ether	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1
4-Chloro-3-methylphenol	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 19:16	1
4-Chloroaniline	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 19:16	1

Client Sample ID: MW-102
Lab Sample ID: 500-259032-5
Date Collected: 10/23/24 13:36
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1
4-Nitroaniline	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 19:16	1
4-Nitrophenol	<0.015		0.015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Bis(2-chloroethoxy)methane	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Bis(2-chloroethyl)ether	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
bis(chloroisopropyl) ether	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Bis(2-ethylhexyl) phthalate	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 19:16	1
Butyl benzyl phthalate	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Carbazole	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1
Dibenzofuran	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Diethyl phthalate	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1
Dimethyl phthalate	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1
Di-n-butyl phthalate	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1
Di-n-octyl phthalate	<0.0076		0.0076		mg/L		10/28/24 11:27	10/28/24 19:16	1
Hexachlorobenzene	<0.00038		0.00038		mg/L		10/28/24 11:27	10/28/24 19:16	1
Hexachlorobutadiene	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1
Hexachlorocyclopentadiene	<0.015		0.015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Hexachloroethane	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1
Isophorone	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Nitrobenzene	<0.00076		0.00076		mg/L		10/28/24 11:27	10/28/24 19:16	1
N-Nitrosodi-n-propylamine	<0.00038		0.00038		mg/L		10/28/24 11:27	10/28/24 19:16	1
N-Nitrosodiphenylamine	<0.0015		0.0015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Pentachlorophenol	<0.015		0.015		mg/L		10/28/24 11:27	10/28/24 19:16	1
Phenol	<0.0038		0.0038		mg/L		10/28/24 11:27	10/28/24 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*40 - 145*	*10/28/24 11:27*	*10/28/24 19:16*	*1*
2-Fluorobiphenyl (Surr)	*73*		*34 - 110*	*10/28/24 11:27*	*10/28/24 19:16*	*1*
2-Fluorophenol (Surr)	*48*		*27 - 110*	*10/28/24 11:27*	*10/28/24 19:16*	*1*
Nitrobenzene-d5 (Surr)	*84*		*36 - 120*	*10/28/24 11:27*	*10/28/24 19:16*	*1*
Phenol-d5 (Surr)	*35*		*20 - 110*	*10/28/24 11:27*	*10/28/24 19:16*	*1*
Terphenyl-d14 (Surr)	*100*		*40 - 145*	*10/28/24 11:27*	*10/28/24 19:16*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00081		0.00081		mg/L		10/29/24 09:09	10/29/24 17:31	1
Acenaphthylene	<0.00081		0.00081		mg/L		10/29/24 09:09	10/29/24 17:31	1
Anthracene	<0.00081		0.00081		mg/L		10/29/24 09:09	10/29/24 17:31	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		10/29/24 09:09	10/29/24 17:31	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 17:31	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 17:31	1
Benzo[g,h,i]perylene	<0.00081		0.00081		mg/L		10/29/24 09:09	10/29/24 17:31	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 17:31	1
Chrysene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 17:31	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		10/29/24 09:09	10/29/24 17:31	1
Fluoranthene	<0.00081		0.00081		mg/L		10/29/24 09:09	10/29/24 17:31	1
Fluorene	<0.00081		0.00081		mg/L		10/29/24 09:09	10/29/24 17:31	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 17:31	1
Naphthalene	<0.00081		0.00081		mg/L		10/29/24 09:09	10/29/24 17:31	1
Phenanthrene	<0.00081		0.00081		mg/L		10/29/24 09:09	10/29/24 17:31	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-102
Lab Sample ID: 500-259032-5
Date Collected: 10/23/24 13:36
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.00081		0.00081		mg/L		10/29/24 09:09	10/29/24 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*72*		*36 - 120*	*10/29/24 09:09*	*10/29/24 17:31*	*1*
2-Fluorobiphenyl (Surr)	*75*		*34 - 110*	*10/29/24 09:09*	*10/29/24 17:31*	*1*
Terphenyl-d14 (Surr)	*91*		*40 - 145*	*10/29/24 09:09*	*10/29/24 17:31*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
4,4'-DDE	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
4,4'-DDT	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
Aldrin	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
alpha-BHC	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
alpha-Chlordane	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
beta-BHC	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
Chlordane (technical)	<0.00019		0.00019		mg/L		10/28/24 07:14	10/29/24 18:06	1
delta-BHC	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
Dieldrin	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
Endosulfan I	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
Endosulfan II	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
Endosulfan sulfate	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
Endrin	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
Endrin aldehyde	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
Endrin ketone	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
gamma-BHC (Lindane)	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
gamma-Chlordane	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
Heptachlor	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
Heptachlor epoxide	<0.000096		0.000096		mg/L		10/28/24 07:14	10/29/24 18:06	1
Methoxychlor	<0.00019	*1	0.00019		mg/L		10/28/24 07:14	10/29/24 18:06	1
Toxaphene	<0.00096		0.00096		mg/L		10/28/24 07:14	10/29/24 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*30 - 130*	*10/28/24 07:14*	*10/29/24 18:06*	*1*
Tetrachloro-m-xylene	*29*	*S1-*	*30 - 120*	*10/28/24 07:14*	*10/29/24 18:06*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00096		0.00096		mg/L		10/28/24 07:14	10/29/24 14:45	1
PCB-1221	<0.00096		0.00096		mg/L		10/28/24 07:14	10/29/24 14:45	1
PCB-1232	<0.00096		0.00096		mg/L		10/28/24 07:14	10/29/24 14:45	1
PCB-1242	<0.00096		0.00096		mg/L		10/28/24 07:14	10/29/24 14:45	1
PCB-1248	<0.00096		0.00096		mg/L		10/28/24 07:14	10/29/24 14:45	1
PCB-1254	<0.00096		0.00096		mg/L		10/28/24 07:14	10/29/24 14:45	1
PCB-1260	<0.00096		0.00096		mg/L		10/28/24 07:14	10/29/24 14:45	1
Polychlorinated biphenyls, Total	<0.00096		0.00096		mg/L		10/28/24 07:14	10/29/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*32*		*30 - 120*	*10/28/24 07:14*	*10/29/24 14:45*	*1*
DCB Decachlorobiphenyl	*48*		*30 - 140*	*10/28/24 07:14*	*10/29/24 14:45*	*1*

Client Sample ID: MW-102
Date Collected: 10/23/24 13:36
Date Received: 10/24/24 12:18

Lab Sample ID: 500-259032-5
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3.7**		0.10		mg/L		10/31/24 09:10	11/01/24 13:51	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 13:51	1
Arsenic	**0.0030**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:33	1
Barium	**0.081**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:51	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 13:51	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:51	1
Calcium	**150**		0.20		mg/L		10/31/24 09:10	11/01/24 13:51	1
Chromium	**0.013**		0.0050		mg/L		10/31/24 09:10	11/01/24 13:51	1
Cobalt	**0.0051**		0.0010		mg/L		10/31/24 09:10	11/01/24 13:51	1
Copper	**0.075**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:51	1
Iron	**8.1**		0.10		mg/L		10/31/24 09:10	11/01/24 13:51	1
Lead	**0.0061**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:51	1
Magnesium	**98**		0.20		mg/L		10/31/24 09:10	11/01/24 13:51	1
Manganese	**0.56**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:51	1
Nickel	**0.012**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:51	1
Potassium	**8.6**		0.50		mg/L		10/31/24 09:10	11/01/24 13:51	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 16:33	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:51	1
Sodium	**13**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 13:51	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:51	1
Vanadium	**0.0080**		0.0050		mg/L		10/31/24 09:10	11/01/24 13:51	1
Zinc	**0.034**		0.020		mg/L		10/31/24 09:10	11/01/24 13:51	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 14:14	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 14:14	1
Arsenic	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 16:56	1
Barium	**0.056**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:14	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:14	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:14	1
Calcium	**120**		0.20		mg/L		10/31/24 09:10	11/01/24 14:14	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:14	1
Cobalt	**0.0015**		0.0010		mg/L		10/31/24 09:10	11/01/24 14:14	1
Copper	**0.028**		0.0020		mg/L		10/31/24 09:10	11/01/24 14:14	1
Iron	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 14:14	1
Lead	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:14	1
Magnesium	**86**		0.20		mg/L		10/31/24 09:10	11/01/24 14:14	1
Manganese	**0.26**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:14	1
Nickel	**0.0031**		0.0020		mg/L		10/31/24 09:10	11/01/24 14:14	1
Potassium	**7.6**		0.50		mg/L		10/31/24 09:10	11/01/24 14:14	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 16:56	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:14	1
Sodium	**13**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 14:14	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:14	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:14	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 14:14	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-102
Lab Sample ID: 500-259032-5
Date Collected: 10/23/24 13:36
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/29/24 14:40	10/30/24 12:20	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/30/24 11:15	10/31/24 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0050		0.0050		mg/L		11/05/24 13:42	11/05/24 15:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-302
Date Collected: 10/22/24 12:59
Date Received: 10/24/24 12:18

Lab Sample ID: 500-259032-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010	*1	0.0010		mg/L			11/03/24 00:01	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			11/03/24 00:01	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			11/03/24 00:01	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			11/03/24 00:01	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			11/03/24 00:01	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			11/03/24 00:01	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			11/03/24 00:01	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			11/03/24 00:01	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			11/03/24 00:01	1
p-Dioxane	<0.10		0.10		mg/L			11/03/24 00:01	1
2-Butanone (MEK)	<0.0050	*1	0.0050		mg/L			11/03/24 00:01	1
2-Hexanone	<0.0050	*1	0.0050		mg/L			11/03/24 00:01	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			11/03/24 00:01	1
Acetone	<0.010		0.010		mg/L			11/03/24 00:01	1
Benzene	<0.00050		0.00050		mg/L			11/03/24 00:01	1
Bromodichloromethane	<0.0010		0.0010		mg/L			11/03/24 00:01	1
Bromoform	<0.0010		0.0010		mg/L			11/03/24 00:01	1
Bromomethane	<0.0030		0.0030		mg/L			11/03/24 00:01	1
Carbon disulfide	<0.0020		0.0020		mg/L			11/03/24 00:01	1
Carbon tetrachloride	<0.0010	*1	0.0010		mg/L			11/03/24 00:01	1
Chlorobenzene	<0.0010		0.0010		mg/L			11/03/24 00:01	1
Chloroethane	<0.0050		0.0050		mg/L			11/03/24 00:01	1
Chloroform	<0.0020		0.0020		mg/L			11/03/24 00:01	1
Chloromethane	<0.0050		0.0050		mg/L			11/03/24 00:01	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/03/24 00:01	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			11/03/24 00:01	1
Dibromochloromethane	<0.0010		0.0010		mg/L			11/03/24 00:01	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			11/03/24 00:01	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/03/24 00:01	1
Isopropylbenzene	<0.0010		0.0010		mg/L			11/03/24 00:01	1
m&p-Xylene	<0.0010		0.0010		mg/L			11/03/24 00:01	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			11/03/24 00:01	1
Methylene Chloride	<0.0050		0.0050		mg/L			11/03/24 00:01	1
Naphthalene	<0.0010		0.0010		mg/L			11/03/24 00:01	1
n-Butyl alcohol	<0.13		0.13		mg/L			11/03/24 00:01	1
o-Xylene	<0.00050		0.00050		mg/L			11/03/24 00:01	1
Styrene	<0.0010		0.0010		mg/L			11/03/24 00:01	1
Tetrachloroethene	<0.0010		0.0010		mg/L			11/03/24 00:01	1
Toluene	<0.00050		0.00050		mg/L			11/03/24 00:01	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/03/24 00:01	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/03/24 00:01	1
Trichloroethene	<0.00050		0.00050		mg/L			11/03/24 00:01	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			11/03/24 00:01	1
Vinyl acetate	<0.0020		0.0020		mg/L			11/03/24 00:01	1
Vinyl chloride	<0.0010		0.0010		mg/L			11/03/24 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*11/03/24 00:01*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*11/03/24 00:01*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*11/03/24 00:01*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-302
Lab Sample ID: 500-259032-6
Date Collected: 10/22/24 12:59
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*75 - 120*		*11/03/24 00:01*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0020**		0.00078		mg/L		10/28/24 11:27	10/28/24 19:41	1
Acenaphthylene	**0.0020**		0.00078		mg/L		10/28/24 11:27	10/28/24 19:41	1
Anthracene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 19:41	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		10/28/24 11:27	10/28/24 19:41	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Benzo[g,h,i]perylene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 19:41	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Chrysene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		10/28/24 11:27	10/28/24 19:41	1
Fluoranthene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 19:41	1
Fluorene	**0.0020**		0.00078		mg/L		10/28/24 11:27	10/28/24 19:41	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Naphthalene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 19:41	1
Phenanthrene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 19:41	1
Pyrene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 19:41	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
2,4,5-Trichlorophenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 19:41	1
2,4,6-Trichlorophenol	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1
2,4-Dichlorophenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 19:41	1
2,4-Dimethylphenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 19:41	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 19:41	1
2,4-Dinitrotoluene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 19:41	1
2,6-Dinitrotoluene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 19:41	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
2-Chlorophenol	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
2-Methylphenol	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
2-Nitroaniline	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1
2-Nitrophenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 19:41	1
3,3'-Dichlorobenzidine	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1
3 & 4 Methylphenol	<0.0016	*-	0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
3-Nitroaniline	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 19:41	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 19:41	1
4-Bromophenyl phenyl ether	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1
4-Chloro-3-methylphenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 19:41	1
4-Chloroaniline	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 19:41	1
4-Chlorophenyl phenyl ether	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1
4-Nitroaniline	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 19:41	1
4-Nitrophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1

Client Sample ID: MW-302
Lab Sample ID: 500-259032-6
Date Collected: 10/22/24 12:59
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Bis(2-ethylhexyl) phthalate	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 19:41	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Carbazole	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1
Dibenzofuran	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Diethyl phthalate	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1
Dimethyl phthalate	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1
Di-n-butyl phthalate	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1
Di-n-octyl phthalate	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 19:41	1
Hexachlorobenzene	<0.00039		0.00039		mg/L		10/28/24 11:27	10/28/24 19:41	1
Hexachlorobutadiene	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Hexachloroethane	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1
Isophorone	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Nitrobenzene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 19:41	1
N-Nitrosodi-n-propylamine	<0.00039		0.00039		mg/L		10/28/24 11:27	10/28/24 19:41	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Pentachlorophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 19:41	1
Phenol	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*101*		*40 - 145*	*10/28/24 11:27*	*10/28/24 19:41*	*1*
2-Fluorobiphenyl (Surr)	*75*		*34 - 110*	*10/28/24 11:27*	*10/28/24 19:41*	*1*
2-Fluorophenol (Surr)	*52*		*27 - 110*	*10/28/24 11:27*	*10/28/24 19:41*	*1*
Nitrobenzene-d5 (Surr)	*90*		*36 - 120*	*10/28/24 11:27*	*10/28/24 19:41*	*1*
Phenol-d5 (Surr)	*37*		*20 - 110*	*10/28/24 11:27*	*10/28/24 19:41*	*1*
Terphenyl-d14 (Surr)	*95*		*40 - 145*	*10/28/24 11:27*	*10/28/24 19:41*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
4,4'-DDE	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
4,4'-DDT	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
Aldrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
alpha-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
alpha-Chlordane	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
beta-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
Chlordane (technical)	<0.00020		0.00020		mg/L		10/28/24 07:14	10/29/24 18:18	1
delta-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
Dieldrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
Endosulfan I	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
Endosulfan II	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
Endosulfan sulfate	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
Endrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
Endrin aldehyde	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
Endrin ketone	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
gamma-BHC (Lindane)	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
gamma-Chlordane	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
Heptachlor	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1
Heptachlor epoxide	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:18	1

Client Sample ID: MW-302
Lab Sample ID: 500-259032-6
Date Collected: 10/22/24 12:59
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.00020	*1	0.00020		mg/L		10/28/24 07:14	10/29/24 18:18	1
Toxaphene	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*30 - 130*	*10/28/24 07:14*	*10/29/24 18:18*	*1*
Tetrachloro-m-xylene	*32*		*30 - 120*	*10/28/24 07:14*	*10/29/24 18:18*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 14:58	1
PCB-1221	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 14:58	1
PCB-1232	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 14:58	1
PCB-1242	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 14:58	1
PCB-1248	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 14:58	1
PCB-1254	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 14:58	1
PCB-1260	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 14:58	1
Polychlorinated biphenyls, Total	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*32*		*30 - 120*	*10/28/24 07:14*	*10/29/24 14:58*	*1*
DCB Decachlorobiphenyl	*39*		*30 - 140*	*10/28/24 07:14*	*10/29/24 14:58*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.8**		0.10		mg/L		10/31/24 09:10	11/01/24 13:53	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 13:53	1
Arsenic	**0.0029**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:35	1
Barium	**0.10**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:53	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 13:53	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:53	1
Calcium	**34**		0.20		mg/L		10/31/24 09:10	11/01/24 13:53	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 13:53	1
Cobalt	**0.0011**		0.0010		mg/L		10/31/24 09:10	11/01/24 13:53	1
Copper	**0.0020**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:53	1
Iron	**2.5**		0.10		mg/L		10/31/24 09:10	11/01/24 13:53	1
Lead	**0.032**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:53	1
Magnesium	**53**		0.20		mg/L		10/31/24 09:10	11/01/24 13:53	1
Manganese	**0.24**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:53	1
Nickel	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:53	1
Potassium	**12**		0.50		mg/L		10/31/24 09:10	11/01/24 13:53	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 16:35	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:53	1
Sodium	**35**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 13:53	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:53	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 13:53	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 13:53	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 14:17	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 14:17	1

Client Sample ID: MW-302
Lab Sample ID: 500-259032-6

Date Collected: 10/22/24 12:59
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0019**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:58	1
Barium	**0.057**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:17	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:17	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:17	1
Calcium	**29**		0.20		mg/L		10/31/24 09:10	11/01/24 14:17	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:17	1
Cobalt	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:17	1
Copper	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:17	1
Iron	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 14:17	1
Lead	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:17	1
Magnesium	**50**		0.20		mg/L		10/31/24 09:10	11/01/24 14:17	1
Manganese	**0.084**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:17	1
Nickel	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:17	1
Potassium	**11**		0.50		mg/L		10/31/24 09:10	11/01/24 14:17	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 16:58	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:17	1
Sodium	**34**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 14:17	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:17	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:17	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 14:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/29/24 14:40	10/30/24 12:22	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/30/24 11:15	10/31/24 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.0079**		0.0050		mg/L		11/03/24 10:17	11/03/24 13:35	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-303
Lab Sample ID: 500-259032-7

Date Collected: 10/22/24 13:15
Matrix: Water

Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010	*1	0.0010		mg/L			11/03/24 00:25	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			11/03/24 00:25	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			11/03/24 00:25	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			11/03/24 00:25	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			11/03/24 00:25	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			11/03/24 00:25	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			11/03/24 00:25	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			11/03/24 00:25	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			11/03/24 00:25	1
p-Dioxane	<0.10		0.10		mg/L			11/03/24 00:25	1
2-Butanone (MEK)	<0.0050	*1	0.0050		mg/L			11/03/24 00:25	1
2-Hexanone	<0.0050	*1	0.0050		mg/L			11/03/24 00:25	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			11/03/24 00:25	1
Acetone	<0.010		0.010		mg/L			11/03/24 00:25	1
Benzene	<0.00050		0.00050		mg/L			11/03/24 00:25	1
Bromodichloromethane	<0.0010		0.0010		mg/L			11/03/24 00:25	1
Bromoform	<0.0010		0.0010		mg/L			11/03/24 00:25	1
Bromomethane	<0.0030		0.0030		mg/L			11/03/24 00:25	1
Carbon disulfide	<0.0020		0.0020		mg/L			11/03/24 00:25	1
Carbon tetrachloride	<0.0010	*1	0.0010		mg/L			11/03/24 00:25	1
Chlorobenzene	<0.0010		0.0010		mg/L			11/03/24 00:25	1
Chloroethane	<0.0050		0.0050		mg/L			11/03/24 00:25	1
Chloroform	<0.0020		0.0020		mg/L			11/03/24 00:25	1
Chloromethane	<0.0050		0.0050		mg/L			11/03/24 00:25	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/03/24 00:25	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			11/03/24 00:25	1
Dibromochloromethane	<0.0010		0.0010		mg/L			11/03/24 00:25	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			11/03/24 00:25	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/03/24 00:25	1
Isopropylbenzene	<0.0010		0.0010		mg/L			11/03/24 00:25	1
m&p-Xylene	<0.0010		0.0010		mg/L			11/03/24 00:25	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			11/03/24 00:25	1
Methylene Chloride	<0.0050		0.0050		mg/L			11/03/24 00:25	1
Naphthalene	<0.0010		0.0010		mg/L			11/03/24 00:25	1
n-Butyl alcohol	<0.13		0.13		mg/L			11/03/24 00:25	1
o-Xylene	<0.00050		0.00050		mg/L			11/03/24 00:25	1
Styrene	<0.0010		0.0010		mg/L			11/03/24 00:25	1
Tetrachloroethene	<0.0010		0.0010		mg/L			11/03/24 00:25	1
Toluene	<0.00050		0.00050		mg/L			11/03/24 00:25	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/03/24 00:25	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/03/24 00:25	1
Trichloroethene	<0.00050		0.00050		mg/L			11/03/24 00:25	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			11/03/24 00:25	1
Vinyl acetate	<0.0020		0.0020		mg/L			11/03/24 00:25	1
Vinyl chloride	<0.0010		0.0010		mg/L			11/03/24 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*11/03/24 00:25*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*11/03/24 00:25*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*11/03/24 00:25*	*1*

Client Sample ID: MW-303
Lab Sample ID: 500-259032-7

Date Collected: 10/22/24 13:15
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*75 - 120*		*11/03/24 00:25*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00089		0.00089		mg/L		10/28/24 11:27	10/28/24 20:06	1
Acenaphthylene	<0.00089		0.00089		mg/L		10/28/24 11:27	10/28/24 20:06	1
Anthracene	<0.00089		0.00089		mg/L		10/28/24 11:27	10/28/24 20:06	1
Benzo[a]anthracene	**0.0013**		0.00014		mg/L		10/28/24 11:27	10/28/24 20:06	1
Benzo[a]pyrene	**0.0018**		0.00018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Benzo[b]fluoranthene	**0.0032**		0.00018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Benzo[g,h,i]perylene	**0.0021**		0.00089		mg/L		10/28/24 11:27	10/28/24 20:06	1
Benzo[k]fluoranthene	**0.0013**		0.00018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Chrysene	**0.0019**		0.00018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Dibenz(a,h)anthracene	**0.00095**		0.00027		mg/L		10/28/24 11:27	10/28/24 20:06	1
Fluoranthene	**0.0014**		0.00089		mg/L		10/28/24 11:27	10/28/24 20:06	1
Fluorene	<0.00089		0.00089		mg/L		10/28/24 11:27	10/28/24 20:06	1
Indeno[1,2,3-cd]pyrene	**0.0023**		0.00018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Naphthalene	<0.00089		0.00089		mg/L		10/28/24 11:27	10/28/24 20:06	1
Phenanthrene	<0.00089		0.00089		mg/L		10/28/24 11:27	10/28/24 20:06	1
Pyrene	**0.0015**		0.00089		mg/L		10/28/24 11:27	10/28/24 20:06	1
1,2,4-Trichlorobenzene	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
1,2-Dichlorobenzene	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
1,3-Dichlorobenzene	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
1,4-Dichlorobenzene	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
2,4,5-Trichlorophenol	<0.0089		0.0089		mg/L		10/28/24 11:27	10/28/24 20:06	1
2,4,6-Trichlorophenol	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1
2,4-Dichlorophenol	<0.0089		0.0089		mg/L		10/28/24 11:27	10/28/24 20:06	1
2,4-Dimethylphenol	<0.0089		0.0089		mg/L		10/28/24 11:27	10/28/24 20:06	1
2,4-Dinitrophenol	<0.018		0.018		mg/L		10/28/24 11:27	10/28/24 20:06	1
2,4-Dinitrotoluene	<0.00089		0.00089		mg/L		10/28/24 11:27	10/28/24 20:06	1
2,6-Dinitrotoluene	<0.00089		0.00089		mg/L		10/28/24 11:27	10/28/24 20:06	1
2-Chloronaphthalene	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
2-Chlorophenol	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1
2-Methylnaphthalene	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
2-Methylphenol	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
2-Nitroaniline	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1
2-Nitrophenol	<0.0089		0.0089		mg/L		10/28/24 11:27	10/28/24 20:06	1
3,3'-Dichlorobenzidine	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1
3 & 4 Methylphenol	<0.0018	*-	0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
3-Nitroaniline	<0.0089		0.0089		mg/L		10/28/24 11:27	10/28/24 20:06	1
4,6-Dinitro-2-methylphenol	<0.018		0.018		mg/L		10/28/24 11:27	10/28/24 20:06	1
4-Bromophenyl phenyl ether	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1
4-Chloro-3-methylphenol	<0.0089		0.0089		mg/L		10/28/24 11:27	10/28/24 20:06	1
4-Chloroaniline	<0.0089		0.0089		mg/L		10/28/24 11:27	10/28/24 20:06	1
4-Chlorophenyl phenyl ether	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1
4-Nitroaniline	<0.0089		0.0089		mg/L		10/28/24 11:27	10/28/24 20:06	1
4-Nitrophenol	<0.018		0.018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Bis(2-chloroethoxy)methane	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Bis(2-chloroethyl)ether	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1

Client Sample ID: MW-303
Lab Sample ID: 500-259032-7
Date Collected: 10/22/24 13:15
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis(chloroisopropyl) ether	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Bis(2-ethylhexyl) phthalate	<0.0089		0.0089		mg/L		10/28/24 11:27	10/28/24 20:06	1
Butyl benzyl phthalate	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Carbazole	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1
Dibenzofuran	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Diethyl phthalate	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1
Dimethyl phthalate	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1
Di-n-butyl phthalate	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1
Di-n-octyl phthalate	<0.0089		0.0089		mg/L		10/28/24 11:27	10/28/24 20:06	1
Hexachlorobenzene	<0.00044		0.00044		mg/L		10/28/24 11:27	10/28/24 20:06	1
Hexachlorobutadiene	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1
Hexachlorocyclopentadiene	<0.018		0.018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Hexachloroethane	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1
Isophorone	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Nitrobenzene	<0.00089		0.00089		mg/L		10/28/24 11:27	10/28/24 20:06	1
N-Nitrosodi-n-propylamine	<0.00044		0.00044		mg/L		10/28/24 11:27	10/28/24 20:06	1
N-Nitrosodiphenylamine	<0.0018		0.0018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Pentachlorophenol	<0.018		0.018		mg/L		10/28/24 11:27	10/28/24 20:06	1
Phenol	<0.0044		0.0044		mg/L		10/28/24 11:27	10/28/24 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*101*		*40 - 145*	*10/28/24 11:27*	*10/28/24 20:06*	*1*
2-Fluorobiphenyl (Surr)	*73*		*34 - 110*	*10/28/24 11:27*	*10/28/24 20:06*	*1*
2-Fluorophenol (Surr)	*49*		*27 - 110*	*10/28/24 11:27*	*10/28/24 20:06*	*1*
Nitrobenzene-d5 (Surr)	*85*		*36 - 120*	*10/28/24 11:27*	*10/28/24 20:06*	*1*
Phenol-d5 (Surr)	*36*		*20 - 110*	*10/28/24 11:27*	*10/28/24 20:06*	*1*
Terphenyl-d14 (Surr)	*99*		*40 - 145*	*10/28/24 11:27*	*10/28/24 20:06*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
4,4'-DDE	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
4,4'-DDT	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
Aldrin	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
alpha-BHC	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
alpha-Chlordane	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
beta-BHC	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
Chlordane (technical)	<0.00024		0.00024		mg/L		10/28/24 07:14	10/29/24 18:30	1
delta-BHC	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
Dieldrin	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
Endosulfan I	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
Endosulfan II	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
Endosulfan sulfate	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
Endrin	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
Endrin aldehyde	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
Endrin ketone	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
gamma-BHC (Lindane)	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
gamma-Chlordane	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
Heptachlor	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1
Heptachlor epoxide	<0.00012		0.00012		mg/L		10/28/24 07:14	10/29/24 18:30	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-303
Lab Sample ID: 500-259032-7
Date Collected: 10/22/24 13:15
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.00024	*1	0.00024		mg/L		10/28/24 07:14	10/29/24 18:30	1
Toxaphene	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*		*30 - 130*	*10/28/24 07:14*	*10/29/24 18:30*	*1*
Tetrachloro-m-xylene	*29*	*S1-*	*30 - 120*	*10/28/24 07:14*	*10/29/24 18:30*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 15:11	1
PCB-1221	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 15:11	1
PCB-1232	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 15:11	1
PCB-1242	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 15:11	1
PCB-1248	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 15:11	1
PCB-1254	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 15:11	1
PCB-1260	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 15:11	1
Polychlorinated biphenyls, Total	<0.0012		0.0012		mg/L		10/28/24 07:14	10/29/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*31*		*30 - 120*	*10/28/24 07:14*	*10/29/24 15:11*	*1*
DCB Decachlorobiphenyl	*38*		*30 - 140*	*10/28/24 07:14*	*10/29/24 15:11*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**61**		0.10		mg/L		10/31/24 09:10	11/01/24 13:56	1
Antimony	**0.014**		0.0030		mg/L		10/31/24 09:10	11/01/24 13:56	1
Arsenic	**0.10**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:42	1
Barium	**2.1**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:56	1
Beryllium	**0.015**		0.0010		mg/L		10/31/24 09:10	11/01/24 13:56	1
Cadmium	**0.018**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:56	1
Calcium	**300**		0.20		mg/L		10/31/24 09:10	11/01/24 13:56	1
Chromium	**0.32**		0.0050		mg/L		10/31/24 09:10	11/01/24 13:56	1
Cobalt	**0.041**		0.0010		mg/L		10/31/24 09:10	11/01/24 13:56	1
Copper	**0.29**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:56	1
Iron	**360**		0.10		mg/L		10/31/24 09:10	11/01/24 13:56	1
Lead	**1.5**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:56	1
Magnesium	**72**		0.20		mg/L		10/31/24 09:10	11/01/24 13:56	1
Manganese	**16**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:56	1
Nickel	**0.32**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:56	1
Potassium	**24**		0.50		mg/L		10/31/24 09:10	11/01/24 13:56	1
Selenium	**0.013**		0.0025		mg/L		10/31/24 09:10	11/01/24 16:42	1
Silver	**0.0034**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:56	1
Sodium	**16**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 13:56	1
Thallium	**0.0066**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:56	1
Vanadium	**0.24**		0.0050		mg/L		10/31/24 09:10	11/01/24 13:56	1
Zinc	**2.5**		0.020		mg/L		10/31/24 09:10	11/01/24 13:56	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 14:19	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 14:19	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-303
Lab Sample ID: 500-259032-7
Date Collected: 10/22/24 13:15
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0011**		0.0010		mg/L		10/31/24 09:10	11/01/24 17:00	1
Barium	**0.040**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:19	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:19	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:19	1
Calcium	**180**		0.20		mg/L		10/31/24 09:10	11/01/24 14:19	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:19	1
Cobalt	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:19	1
Copper	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:19	1
Iron	**0.43**		0.10		mg/L		10/31/24 09:10	11/01/24 14:19	1
Lead	**0.0016**		0.00050		mg/L		10/31/24 09:10	11/01/24 14:19	1
Magnesium	**51**		0.20		mg/L		10/31/24 09:10	11/01/24 14:19	1
Manganese	**2.0**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:19	1
Nickel	**0.0046**		0.0020		mg/L		10/31/24 09:10	11/01/24 14:19	1
Potassium	**20**		0.50		mg/L		10/31/24 09:10	11/01/24 14:19	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 17:00	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:19	1
Sodium	**16**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 14:19	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:19	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:19	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 14:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0011**		0.00020		mg/L		10/29/24 14:40	10/30/24 12:24	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/30/24 11:15	10/31/24 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.49**		0.050		mg/L		11/03/24 10:17	11/04/24 11:56	10

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-304
Lab Sample ID: 500-259032-8
Date Collected: 10/22/24 13:37
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010	*1	0.0010		mg/L			11/03/24 00:49	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			11/03/24 00:49	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			11/03/24 00:49	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			11/03/24 00:49	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			11/03/24 00:49	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			11/03/24 00:49	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			11/03/24 00:49	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			11/03/24 00:49	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			11/03/24 00:49	1
p-Dioxane	<0.10		0.10		mg/L			11/03/24 00:49	1
2-Butanone (MEK)	<0.0050	*1	0.0050		mg/L			11/03/24 00:49	1
2-Hexanone	<0.0050	*1	0.0050		mg/L			11/03/24 00:49	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			11/03/24 00:49	1
Acetone	<0.010		0.010		mg/L			11/03/24 00:49	1
Benzene	<0.00050		0.00050		mg/L			11/03/24 00:49	1
Bromodichloromethane	<0.0010		0.0010		mg/L			11/03/24 00:49	1
Bromoform	<0.0010		0.0010		mg/L			11/03/24 00:49	1
Bromomethane	<0.0030		0.0030		mg/L			11/03/24 00:49	1
Carbon disulfide	<0.0020		0.0020		mg/L			11/03/24 00:49	1
Carbon tetrachloride	<0.0010	*1	0.0010		mg/L			11/03/24 00:49	1
Chlorobenzene	<0.0010		0.0010		mg/L			11/03/24 00:49	1
Chloroethane	<0.0050		0.0050		mg/L			11/03/24 00:49	1
Chloroform	<0.0020		0.0020		mg/L			11/03/24 00:49	1
Chloromethane	<0.0050		0.0050		mg/L			11/03/24 00:49	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/03/24 00:49	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			11/03/24 00:49	1
Dibromochloromethane	<0.0010		0.0010		mg/L			11/03/24 00:49	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			11/03/24 00:49	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/03/24 00:49	1
Isopropylbenzene	<0.0010		0.0010		mg/L			11/03/24 00:49	1
m&p-Xylene	<0.0010		0.0010		mg/L			11/03/24 00:49	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			11/03/24 00:49	1
Methylene Chloride	<0.0050		0.0050		mg/L			11/03/24 00:49	1
Naphthalene	<0.0010		0.0010		mg/L			11/03/24 00:49	1
n-Butyl alcohol	<0.13		0.13		mg/L			11/03/24 00:49	1
o-Xylene	<0.00050		0.00050		mg/L			11/03/24 00:49	1
Styrene	<0.0010		0.0010		mg/L			11/03/24 00:49	1
Tetrachloroethene	<0.0010		0.0010		mg/L			11/03/24 00:49	1
Toluene	<0.00050		0.00050		mg/L			11/03/24 00:49	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/03/24 00:49	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/03/24 00:49	1
Trichloroethene	<0.00050		0.00050		mg/L			11/03/24 00:49	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			11/03/24 00:49	1
Vinyl acetate	<0.0020		0.0020		mg/L			11/03/24 00:49	1
Vinyl chloride	<0.0010		0.0010		mg/L			11/03/24 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*11/03/24 00:49*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*11/03/24 00:49*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*11/03/24 00:49*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-304
Lab Sample ID: 500-259032-8
Date Collected: 10/22/24 13:37
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*75 - 120*		*11/03/24 00:49*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 20:31	1
Acenaphthylene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 20:31	1
Anthracene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 20:31	1
Benzo[a]anthracene	**0.00055**		0.00013		mg/L		10/28/24 11:27	10/28/24 20:31	1
Benzo[a]pyrene	**0.00063**		0.00016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Benzo[b]fluoranthene	**0.00093**		0.00016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Benzo[g,h,i]perylene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 20:31	1
Benzo[k]fluoranthene	**0.00035**		0.00016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Chrysene	**0.00069**		0.00016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Dibenz(a,h)anthracene	<0.00023		0.00023		mg/L		10/28/24 11:27	10/28/24 20:31	1
Fluoranthene	**0.00085**		0.00078		mg/L		10/28/24 11:27	10/28/24 20:31	1
Fluorene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 20:31	1
Indeno[1,2,3-cd]pyrene	**0.00062**		0.00016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Naphthalene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 20:31	1
Phenanthrene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 20:31	1
Pyrene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 20:31	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
2,4,5-Trichlorophenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 20:31	1
2,4,6-Trichlorophenol	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1
2,4-Dichlorophenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 20:31	1
2,4-Dimethylphenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 20:31	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 20:31	1
2,4-Dinitrotoluene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 20:31	1
2,6-Dinitrotoluene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 20:31	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
2-Chlorophenol	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
2-Methylphenol	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
2-Nitroaniline	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1
2-Nitrophenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 20:31	1
3,3'-Dichlorobenzidine	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1
3 & 4 Methylphenol	<0.0016	*-	0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
3-Nitroaniline	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 20:31	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 20:31	1
4-Bromophenyl phenyl ether	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1
4-Chloro-3-methylphenol	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 20:31	1
4-Chloroaniline	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 20:31	1
4-Chlorophenyl phenyl ether	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1
4-Nitroaniline	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 20:31	1
4-Nitrophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1

Client Sample ID: MW-304
Lab Sample ID: 500-259032-8
Date Collected: 10/22/24 13:37
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Bis(2-ethylhexyl) phthalate	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 20:31	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Carbazole	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1
Dibenzofuran	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Diethyl phthalate	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1
Dimethyl phthalate	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1
Di-n-butyl phthalate	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1
Di-n-octyl phthalate	<0.0078		0.0078		mg/L		10/28/24 11:27	10/28/24 20:31	1
Hexachlorobenzene	<0.00039		0.00039		mg/L		10/28/24 11:27	10/28/24 20:31	1
Hexachlorobutadiene	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Hexachloroethane	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1
Isophorone	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Nitrobenzene	<0.00078		0.00078		mg/L		10/28/24 11:27	10/28/24 20:31	1
N-Nitrosodi-n-propylamine	<0.00039		0.00039		mg/L		10/28/24 11:27	10/28/24 20:31	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Pentachlorophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/28/24 20:31	1
Phenol	<0.0039		0.0039		mg/L		10/28/24 11:27	10/28/24 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*40 - 145*	*10/28/24 11:27*	*10/28/24 20:31*	*1*
2-Fluorobiphenyl (Surr)	*62*		*34 - 110*	*10/28/24 11:27*	*10/28/24 20:31*	*1*
2-Fluorophenol (Surr)	*38*		*27 - 110*	*10/28/24 11:27*	*10/28/24 20:31*	*1*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*	*10/28/24 11:27*	*10/28/24 20:31*	*1*
Phenol-d5 (Surr)	*27*		*20 - 110*	*10/28/24 11:27*	*10/28/24 20:31*	*1*
Terphenyl-d14 (Surr)	*87*		*40 - 145*	*10/28/24 11:27*	*10/28/24 20:31*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
4,4'-DDE	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
4,4'-DDT	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
Aldrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
alpha-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
alpha-Chlordane	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
beta-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
Chlordane (technical)	<0.00020		0.00020		mg/L		10/28/24 07:14	10/29/24 18:43	1
delta-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
Dieldrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
Endosulfan I	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
Endosulfan II	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
Endosulfan sulfate	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
Endrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
Endrin aldehyde	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
Endrin ketone	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
gamma-BHC (Lindane)	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
gamma-Chlordane	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
Heptachlor	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1
Heptachlor epoxide	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 18:43	1

Client Sample ID: MW-304
Lab Sample ID: 500-259032-8
Date Collected: 10/22/24 13:37
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.00020	*1	0.00020		mg/L		10/28/24 07:14	10/29/24 18:43	1
Toxaphene	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*30 - 130*	*10/28/24 07:14*	*10/29/24 18:43*	*1*
Tetrachloro-m-xylene	*44*		*30 - 120*	*10/28/24 07:14*	*10/29/24 18:43*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 15:24	1
PCB-1221	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 15:24	1
PCB-1232	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 15:24	1
PCB-1242	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 15:24	1
PCB-1248	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 15:24	1
PCB-1254	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 15:24	1
PCB-1260	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 15:24	1
Polychlorinated biphenyls, Total	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*44*		*30 - 120*	*10/28/24 07:14*	*10/29/24 15:24*	*1*
DCB Decachlorobiphenyl	*37*		*30 - 140*	*10/28/24 07:14*	*10/29/24 15:24*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**51**		0.10		mg/L		10/31/24 09:10	11/01/24 13:58	1
Antimony	**0.015**		0.0030		mg/L		10/31/24 09:10	11/01/24 13:58	1
Arsenic	**0.051**		0.0010		mg/L		10/31/24 09:10	11/01/24 16:44	1
Barium	**1.2**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:58	1
Beryllium	**0.0072**		0.0010		mg/L		10/31/24 09:10	11/01/24 13:58	1
Cadmium	**0.0057**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:58	1
Calcium	**230**		0.20		mg/L		10/31/24 09:10	11/01/24 13:58	1
Chromium	**0.14**		0.0050		mg/L		10/31/24 09:10	11/01/24 13:58	1
Cobalt	**0.027**		0.0010		mg/L		10/31/24 09:10	11/01/24 13:58	1
Copper	**0.39**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:58	1
Iron	**310**		0.10		mg/L		10/31/24 09:10	11/01/24 13:58	1
Lead	**0.44**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:58	1
Magnesium	**44**		0.20		mg/L		10/31/24 09:10	11/01/24 13:58	1
Manganese	**14**		0.0025		mg/L		10/31/24 09:10	11/01/24 13:58	1
Nickel	**0.28**		0.0020		mg/L		10/31/24 09:10	11/01/24 13:58	1
Potassium	**19**		0.50		mg/L		10/31/24 09:10	11/01/24 13:58	1
Selenium	**0.0095**		0.0025		mg/L		10/31/24 09:10	11/01/24 16:44	1
Silver	**0.0016**		0.00050		mg/L		10/31/24 09:10	11/01/24 13:58	1
Sodium	**12**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 13:58	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:58	1
Vanadium	**0.15**		0.0050		mg/L		10/31/24 09:10	11/01/24 13:58	1
Zinc	**0.69**		0.020		mg/L		10/31/24 09:10	11/01/24 13:58	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 14:21	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 14:21	1

Client Sample ID: MW-304
Lab Sample ID: 500-259032-8

Date Collected: 10/22/24 13:37
Matrix: Water
Date Received: 10/24/24 12:18

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0012**		0.0010		mg/L		10/31/24 09:10	11/01/24 17:02	1
Barium	**0.031**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:21	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:21	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:21	1
Calcium	**170**		0.20		mg/L		10/31/24 09:10	11/01/24 14:21	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:21	1
Cobalt	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 14:21	1
Copper	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:21	1
Iron	**0.26**		0.10		mg/L		10/31/24 09:10	11/01/24 14:21	1
Lead	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:21	1
Magnesium	**32**		0.20		mg/L		10/31/24 09:10	11/01/24 14:21	1
Manganese	**1.3**		0.0025		mg/L		10/31/24 09:10	11/01/24 14:21	1
Nickel	**0.0059**		0.0020		mg/L		10/31/24 09:10	11/01/24 14:21	1
Potassium	**18**		0.50		mg/L		10/31/24 09:10	11/01/24 14:21	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 17:02	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 14:21	1
Sodium	**13**	**B**	0.20		mg/L		10/31/24 09:10	11/01/24 14:21	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 14:21	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 14:21	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 14:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00095**		0.00020		mg/L		10/29/24 14:40	10/30/24 12:26	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/30/24 11:15	10/31/24 07:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.033**		0.0050		mg/L		11/03/24 10:17	11/03/24 13:39	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 793591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Total/NA	Water	8260D	
500-259032-2	MW-306	Total/NA	Water	8260D	
500-259032-3	MW-204	Total/NA	Water	8260D	
500-259032-4	MW-102D	Total/NA	Water	8260D	
500-259032-5	MW-102	Total/NA	Water	8260D	
500-259032-6	MW-302	Total/NA	Water	8260D	
500-259032-7	MW-303	Total/NA	Water	8260D	
500-259032-8	MW-304	Total/NA	Water	8260D	
MB 500-793591/7	Method Blank	Total/NA	Water	8260D	
LCS 500-793591/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 500-793591/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 793869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-4 - DL	MW-102D	Total/NA	Water	8260D	
500-259032-5 - RA	MW-102	Total/NA	Water	8260D	
MB 500-793869/7	Method Blank	Total/NA	Water	8260D	
LCS 500-793869/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Analysis Batch: 792542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Total/NA	Water	8270E	792654
500-259032-2	MW-306	Total/NA	Water	8270E	792654
500-259032-3	MW-204	Total/NA	Water	8270E	792654
500-259032-4	MW-102D	Total/NA	Water	8270E	792654
500-259032-5	MW-102	Total/NA	Water	8270E	792654
500-259032-6	MW-302	Total/NA	Water	8270E	792654
500-259032-7	MW-303	Total/NA	Water	8270E	792654
500-259032-8	MW-304	Total/NA	Water	8270E	792654

Prep Batch: 792654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Total/NA	Water	3510C	
500-259032-2	MW-306	Total/NA	Water	3510C	
500-259032-3	MW-204	Total/NA	Water	3510C	
500-259032-4	MW-102D	Total/NA	Water	3510C	
500-259032-5	MW-102	Total/NA	Water	3510C	
500-259032-6	MW-302	Total/NA	Water	3510C	
500-259032-7	MW-303	Total/NA	Water	3510C	
500-259032-8	MW-304	Total/NA	Water	3510C	
MB 500-792654/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-792654/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-792654/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 792824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Dissolved	Water	8270E	792831
500-259032-3	MW-204	Dissolved	Water	8270E	792831
500-259032-4	MW-102D	Dissolved	Water	8270E	792831

GC/MS Semi VOA (Continued)

Analysis Batch: 792824 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-5	MW-102	Dissolved	Water	8270E	792831
MB 500-792831/1-A	Method Blank	Total/NA	Water	8270E	792831
LCS 500-792831/2-A	Lab Control Sample	Total/NA	Water	8270E	792831
LCSD 500-792831/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	792831

Analysis Batch: 792826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-792654/1-A	Method Blank	Total/NA	Water	8270E	792654
LCS 500-792654/2-A	Lab Control Sample	Total/NA	Water	8270E	792654
LCSD 500-792654/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	792654

Prep Batch: 792831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Dissolved	Water	3510C	
500-259032-3	MW-204	Dissolved	Water	3510C	
500-259032-4	MW-102D	Dissolved	Water	3510C	
500-259032-5	MW-102	Dissolved	Water	3510C	
MB 500-792831/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-792831/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-792831/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA

Prep Batch: 792539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Total/NA	Water	3510C	
500-259032-2	MW-306	Total/NA	Water	3510C	
500-259032-3	MW-204	Total/NA	Water	3510C	
500-259032-4	MW-102D	Total/NA	Water	3510C	
500-259032-5	MW-102	Total/NA	Water	3510C	
500-259032-6	MW-302	Total/NA	Water	3510C	
500-259032-7	MW-303	Total/NA	Water	3510C	
500-259032-8	MW-304	Total/NA	Water	3510C	
MB 500-792539/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-792539/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 500-792539/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-792539/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 500-792539/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 792879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Total/NA	Water	8082A	792539
500-259032-2	MW-306	Total/NA	Water	8082A	792539
500-259032-3	MW-204	Total/NA	Water	8082A	792539
500-259032-4	MW-102D	Total/NA	Water	8082A	792539
500-259032-5	MW-102	Total/NA	Water	8082A	792539
500-259032-6	MW-302	Total/NA	Water	8082A	792539
500-259032-7	MW-303	Total/NA	Water	8082A	792539
500-259032-8	MW-304	Total/NA	Water	8082A	792539
MB 500-792539/1-A	Method Blank	Total/NA	Water	8082A	792539
LCS 500-792539/4-A	Lab Control Sample	Total/NA	Water	8082A	792539

GC Semi VOA (Continued)

Analysis Batch: 792879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-792539/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	792539

Analysis Batch: 792912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Total/NA	Water	8081B	792539
500-259032-2	MW-306	Total/NA	Water	8081B	792539
500-259032-3	MW-204	Total/NA	Water	8081B	792539
500-259032-4	MW-102D	Total/NA	Water	8081B	792539
500-259032-5	MW-102	Total/NA	Water	8081B	792539
500-259032-6	MW-302	Total/NA	Water	8081B	792539
500-259032-7	MW-303	Total/NA	Water	8081B	792539
500-259032-8	MW-304	Total/NA	Water	8081B	792539
MB 500-792539/1-A	Method Blank	Total/NA	Water	8081B	792539
LCS 500-792539/2-A	Lab Control Sample	Total/NA	Water	8081B	792539
LCSD 500-792539/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	792539

Metals

Prep Batch: 792935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Total/NA	Water	7470A	
500-259032-2	MW-306	Total/NA	Water	7470A	
500-259032-3	MW-204	Total/NA	Water	7470A	
500-259032-4	MW-102D	Total/NA	Water	7470A	
500-259032-5	MW-102	Total/NA	Water	7470A	
500-259032-6	MW-302	Total/NA	Water	7470A	
500-259032-7	MW-303	Total/NA	Water	7470A	
500-259032-8	MW-304	Total/NA	Water	7470A	
MB 500-792935/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-792935/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 793108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Dissolved	Water	7470A	
500-259032-2	MW-306	Dissolved	Water	7470A	
500-259032-3	MW-204	Dissolved	Water	7470A	
500-259032-4	MW-102D	Dissolved	Water	7470A	
500-259032-5	MW-102	Dissolved	Water	7470A	
500-259032-6	MW-302	Dissolved	Water	7470A	
500-259032-7	MW-303	Dissolved	Water	7470A	
500-259032-8	MW-304	Dissolved	Water	7470A	
MB 500-793108/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-793108/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 793156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Total/NA	Water	7470A	792935
500-259032-2	MW-306	Total/NA	Water	7470A	792935
500-259032-3	MW-204	Total/NA	Water	7470A	792935
500-259032-4	MW-102D	Total/NA	Water	7470A	792935
500-259032-5	MW-102	Total/NA	Water	7470A	792935

Metals (Continued)

Analysis Batch: 793156 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-6	MW-302	Total/NA	Water	7470A	792935
500-259032-7	MW-303	Total/NA	Water	7470A	792935
500-259032-8	MW-304	Total/NA	Water	7470A	792935
MB 500-792935/12-A	Method Blank	Total/NA	Water	7470A	792935
LCS 500-792935/13-A	Lab Control Sample	Total/NA	Water	7470A	792935

Prep Batch: 793260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Dissolved	Water	3005A	
500-259032-1	MW-305	Total Recoverable	Water	3005A	
500-259032-2	MW-306	Dissolved	Water	3005A	
500-259032-2	MW-306	Total Recoverable	Water	3005A	
500-259032-3	MW-204	Dissolved	Water	3005A	
500-259032-3	MW-204	Total Recoverable	Water	3005A	
500-259032-4	MW-102D	Dissolved	Water	3005A	
500-259032-4	MW-102D	Total Recoverable	Water	3005A	
500-259032-5	MW-102	Dissolved	Water	3005A	
500-259032-5	MW-102	Total Recoverable	Water	3005A	
500-259032-6	MW-302	Dissolved	Water	3005A	
500-259032-6	MW-302	Total Recoverable	Water	3005A	
500-259032-7	MW-303	Dissolved	Water	3005A	
500-259032-7	MW-303	Total Recoverable	Water	3005A	
500-259032-8	MW-304	Dissolved	Water	3005A	
500-259032-8	MW-304	Total Recoverable	Water	3005A	
MB 500-793260/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-793260/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 793319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Dissolved	Water	7470A	793108
500-259032-2	MW-306	Dissolved	Water	7470A	793108
500-259032-3	MW-204	Dissolved	Water	7470A	793108
500-259032-4	MW-102D	Dissolved	Water	7470A	793108
500-259032-5	MW-102	Dissolved	Water	7470A	793108
500-259032-6	MW-302	Dissolved	Water	7470A	793108
500-259032-7	MW-303	Dissolved	Water	7470A	793108
500-259032-8	MW-304	Dissolved	Water	7470A	793108
MB 500-793108/12-A	Method Blank	Total/NA	Water	7470A	793108
LCS 500-793108/13-A	Lab Control Sample	Total/NA	Water	7470A	793108

Analysis Batch: 793543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Dissolved	Water	6020B	793260
500-259032-1	MW-305	Total Recoverable	Water	6020B	793260
500-259032-2	MW-306	Dissolved	Water	6020B	793260
500-259032-2	MW-306	Total Recoverable	Water	6020B	793260
500-259032-3	MW-204	Dissolved	Water	6020B	793260
500-259032-3	MW-204	Total Recoverable	Water	6020B	793260
500-259032-4	MW-102D	Dissolved	Water	6020B	793260
500-259032-4	MW-102D	Total Recoverable	Water	6020B	793260
500-259032-5	MW-102	Dissolved	Water	6020B	793260

Metals (Continued)

Analysis Batch: 793543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-5	MW-102	Total Recoverable	Water	6020B	793260
500-259032-6	MW-302	Dissolved	Water	6020B	793260
500-259032-6	MW-302	Total Recoverable	Water	6020B	793260
500-259032-7	MW-303	Dissolved	Water	6020B	793260
500-259032-7	MW-303	Total Recoverable	Water	6020B	793260
500-259032-8	MW-304	Dissolved	Water	6020B	793260
500-259032-8	MW-304	Total Recoverable	Water	6020B	793260
MB 500-793260/1-A	Method Blank	Total Recoverable	Water	6020B	793260
LCS 500-793260/2-A	Lab Control Sample	Total Recoverable	Water	6020B	793260

Analysis Batch: 793687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Dissolved	Water	6020B	793260
500-259032-1	MW-305	Total Recoverable	Water	6020B	793260
500-259032-2	MW-306	Dissolved	Water	6020B	793260
500-259032-2	MW-306	Total Recoverable	Water	6020B	793260
500-259032-3	MW-204	Dissolved	Water	6020B	793260
500-259032-3	MW-204	Total Recoverable	Water	6020B	793260
500-259032-4	MW-102D	Dissolved	Water	6020B	793260
500-259032-4	MW-102D	Total Recoverable	Water	6020B	793260
500-259032-5	MW-102	Dissolved	Water	6020B	793260
500-259032-5	MW-102	Total Recoverable	Water	6020B	793260
500-259032-6	MW-302	Dissolved	Water	6020B	793260
500-259032-6	MW-302	Total Recoverable	Water	6020B	793260
500-259032-7	MW-303	Dissolved	Water	6020B	793260
500-259032-7	MW-303	Total Recoverable	Water	6020B	793260
500-259032-8	MW-304	Dissolved	Water	6020B	793260
500-259032-8	MW-304	Total Recoverable	Water	6020B	793260
MB 500-793260/1-A	Method Blank	Total Recoverable	Water	6020B	793260
LCS 500-793260/2-A	Lab Control Sample	Total Recoverable	Water	6020B	793260

General Chemistry

Prep Batch: 793620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-6	MW-302	Total/NA	Water	9010C	
500-259032-7	MW-303	Total/NA	Water	9010C	
500-259032-8	MW-304	Total/NA	Water	9010C	
MB 500-793620/1-A	Method Blank	Total/NA	Water	9010C	
LCS 500-793620/2-A	Lab Control Sample	Total/NA	Water	9010C	

Analysis Batch: 793648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-6	MW-302	Total/NA	Water	9012B	793620
500-259032-8	MW-304	Total/NA	Water	9012B	793620
MB 500-793620/1-A	Method Blank	Total/NA	Water	9012B	793620
LCS 500-793620/2-A	Lab Control Sample	Total/NA	Water	9012B	793620

Analysis Batch: 793754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-7	MW-303	Total/NA	Water	9012B	793620

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

General Chemistry

Prep Batch: 793971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Total/NA	Water	9010C	
500-259032-2	MW-306	Total/NA	Water	9010C	
500-259032-3	MW-204	Total/NA	Water	9010C	
500-259032-4	MW-102D	Total/NA	Water	9010C	
500-259032-5	MW-102	Total/NA	Water	9010C	
MB 500-793971/1-A	Method Blank	Total/NA	Water	9010C	
LCS 500-793971/2-A	Lab Control Sample	Total/NA	Water	9010C	

Analysis Batch: 794013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259032-1	MW-305	Total/NA	Water	9012B	793971
500-259032-2	MW-306	Total/NA	Water	9012B	793971
500-259032-3	MW-204	Total/NA	Water	9012B	793971
500-259032-4	MW-102D	Total/NA	Water	9012B	793971
500-259032-5	MW-102	Total/NA	Water	9012B	793971
MB 500-793971/1-A	Method Blank	Total/NA	Water	9012B	793971
LCS 500-793971/2-A	Lab Control Sample	Total/NA	Water	9012B	793971

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-259032-1	MW-305	100	96	101	98
500-259032-2	MW-306	102	96	102	98
500-259032-3	MW-204	100	98	102	99
500-259032-4	MW-102D	101	97	101	99
500-259032-4 - DL	MW-102D	112	100	96	107
500-259032-5	MW-102	99	96	101	99
500-259032-5 - RA	MW-102	113	102	95	108
500-259032-6	MW-302	99	95	102	99
500-259032-7	MW-303	99	97	102	99
500-259032-8	MW-304	100	96	102	98
LCS 500-793591/4	Lab Control Sample	97	94	101	99
LCS 500-793869/4	Lab Control Sample	115	94	100	107
LCSD 500-793591/5	Lab Control Sample Dup	96	96	100	99
MB 500-793591/7	Method Blank	98	96	100	99
MB 500-793869/7	Method Blank	113	102	95	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-110)	(40-145)
500-259032-1	MW-305	109	78	53	93	38	109
500-259032-2	MW-306	90	66	54	78	44	90
500-259032-3	MW-204	130	90	57	102	43	133
500-259032-4	MW-102D	129	101	66	115	47	124
500-259032-5	MW-102	97	73	48	84	35	100
500-259032-6	MW-302	101	75	52	90	37	95
500-259032-7	MW-303	101	73	49	85	36	99
500-259032-8	MW-304	85	62	38	68	27	87
LCS 500-792654/2-A	Lab Control Sample	76	56	39	61	28	76
LCS 500-792831/2-A	Lab Control Sample		80		79		93
LCSD 500-792654/3-A	Lab Control Sample Dup	79	54	39	62	28	74
LCSD 500-792831/3-A	Lab Control Sample Dup		78		75		95
MB 500-792654/1-A	Method Blank	109	77	60	87	43	111
MB 500-792831/1-A	Method Blank		68		70		92

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(36-120)	(34-110)	(40-145)
500-259032-1	MW-305	70	68	93
500-259032-3	MW-204	76	76	92
500-259032-4	MW-102D	79	83	104
500-259032-5	MW-102	72	75	91

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(30-130)	(30-120)
500-259032-1	MW-305	67	48
500-259032-3	MW-204	71	39
500-259032-4	MW-102D	63	46
500-259032-5	MW-102	61	29 S1-
500-259032-6	MW-302	47	32
500-259032-7	MW-303	45	29 S1-
500-259032-8	MW-304	48	44
LCS 500-792539/2-A	Lab Control Sample	50	29 S1-
LCSD 500-792539/3-A	Lab Control Sample Dup	89	43
MB 500-792539/1-A	Method Blank	86	50

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(30-130)	(30-120)
500-259032-2	MW-306	55	58

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(30-120)	(30-140)
500-259032-1	MW-305	46	48
500-259032-2	MW-306	31	23 S1-
500-259032-3	MW-204	43	57
500-259032-4	MW-102D	45	44

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(30-120)	(30-140)
500-259032-5	MW-102	32	48
500-259032-6	MW-302	32	39
500-259032-7	MW-303	31	38
500-259032-8	MW-304	44	37
LCS 500-792539/4-A	Lab Control Sample	44	61
LCSD 500-792539/5-A	Lab Control Sample Dup	54	72
MB 500-792539/1-A	Method Blank	50	65

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-259032-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-793591/7
Matrix: Water
Analysis Batch: 793591

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			11/02/24 20:49	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			11/02/24 20:49	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			11/02/24 20:49	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			11/02/24 20:49	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 20:49	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			11/02/24 20:49	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			11/02/24 20:49	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			11/02/24 20:49	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			11/02/24 20:49	1
p-Dioxane	<0.10		0.10		mg/L			11/02/24 20:49	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			11/02/24 20:49	1
2-Hexanone	<0.0050		0.0050		mg/L			11/02/24 20:49	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			11/02/24 20:49	1
Acetone	<0.010		0.010		mg/L			11/02/24 20:49	1
Benzene	<0.00050		0.00050		mg/L			11/02/24 20:49	1
Bromodichloromethane	<0.0010		0.0010		mg/L			11/02/24 20:49	1
Bromoform	<0.0010		0.0010		mg/L			11/02/24 20:49	1
Bromomethane	<0.0030		0.0030		mg/L			11/02/24 20:49	1
Carbon disulfide	<0.0020		0.0020		mg/L			11/02/24 20:49	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			11/02/24 20:49	1
Chlorobenzene	<0.0010		0.0010		mg/L			11/02/24 20:49	1
Chloroethane	<0.0050		0.0050		mg/L			11/02/24 20:49	1
Chloroform	<0.0020		0.0020		mg/L			11/02/24 20:49	1
Chloromethane	<0.0050		0.0050		mg/L			11/02/24 20:49	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 20:49	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			11/02/24 20:49	1
Dibromochloromethane	<0.0010		0.0010		mg/L			11/02/24 20:49	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			11/02/24 20:49	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/02/24 20:49	1
Isopropylbenzene	<0.0010		0.0010		mg/L			11/02/24 20:49	1
m&p-Xylene	<0.0010		0.0010		mg/L			11/02/24 20:49	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			11/02/24 20:49	1
Methylene Chloride	<0.0050		0.0050		mg/L			11/02/24 20:49	1
Naphthalene	<0.0010		0.0010		mg/L			11/02/24 20:49	1
n-Butyl alcohol	<0.13		0.13		mg/L			11/02/24 20:49	1
o-Xylene	<0.00050		0.00050		mg/L			11/02/24 20:49	1
Styrene	<0.0010		0.0010		mg/L			11/02/24 20:49	1
Tetrachloroethene	<0.0010		0.0010		mg/L			11/02/24 20:49	1
Toluene	<0.00050		0.00050		mg/L			11/02/24 20:49	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/02/24 20:49	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/02/24 20:49	1
Trichloroethene	<0.00050		0.00050		mg/L			11/02/24 20:49	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			11/02/24 20:49	1
Vinyl acetate	<0.0020		0.0020		mg/L			11/02/24 20:49	1
Vinyl chloride	<0.0010		0.0010		mg/L			11/02/24 20:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*11/02/24 20:49*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-793591/7
Matrix: Water
Analysis Batch: 793591

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*11/02/24 20:49*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*11/02/24 20:49*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*11/02/24 20:49*	*1*

Lab Sample ID: LCS 500-793591/4
Matrix: Water
Analysis Batch: 793591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0544		mg/L		109	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0500		mg/L		100	62 - 140
1,1,2-Trichloroethane	0.0500	0.0535		mg/L		107	71 - 130
1,1-Dichloroethane	0.0500	0.0552		mg/L		110	70 - 125
1,1-Dichloroethene	0.0500	0.0552		mg/L		110	67 - 122
1,2-Dibromo-3-Chloropropane	0.0500	0.0499		mg/L		100	56 - 123
1,2-Dibromoethane	0.0500	0.0531		mg/L		106	70 - 125
1,2-Dichloroethane	0.0500	0.0517		mg/L		103	68 - 127
1,2-Dichloropropane	0.0500	0.0552		mg/L		110	67 - 130
p-Dioxane	1.00	1.09		mg/L		109	70 - 129
2-Butanone (MEK)	0.0500	0.0575		mg/L		115	46 - 144
2-Hexanone	0.0500	0.0545		mg/L		109	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0534		mg/L		107	55 - 139
Acetone	0.0500	0.0547		mg/L		109	40 - 143
Benzene	0.0500	0.0533		mg/L		107	70 - 120
Bromodichloromethane	0.0500	0.0508		mg/L		102	69 - 120
Bromoform	0.0500	0.0565		mg/L		113	56 - 132
Bromomethane	0.0500	0.0425		mg/L		85	40 - 152
Carbon disulfide	0.0500	0.0539		mg/L		108	66 - 120
Carbon tetrachloride	0.0500	0.0588		mg/L		118	59 - 133
Chlorobenzene	0.0500	0.0530		mg/L		106	70 - 120
Chloroethane	0.0500	0.0477		mg/L		95	48 - 136
Chloroform	0.0500	0.0496		mg/L		99	70 - 120
Chloromethane	0.0500	0.0448		mg/L		90	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0530		mg/L		106	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0519		mg/L		104	64 - 127
Dibromochloromethane	0.0500	0.0546		mg/L		109	68 - 125
Dichlorodifluoromethane	0.0500	0.0445		mg/L		89	40 - 159
Ethylbenzene	0.0500	0.0547		mg/L		109	70 - 123
Isopropylbenzene	0.0500	0.0510		mg/L		102	70 - 126
Methyl tert-butyl ether	0.0500	0.0549		mg/L		110	55 - 123
Methylene Chloride	0.0500	0.0551		mg/L		110	69 - 125
Naphthalene	0.0500	0.0529		mg/L		106	53 - 144
Styrene	0.0500	0.0528		mg/L		106	70 - 120
Tetrachloroethene	0.0500	0.0569		mg/L		114	70 - 128
Toluene	0.0500	0.0520		mg/L		104	70 - 125
Xylenes, Total	0.100	0.107		mg/L		107	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0541		mg/L		108	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0518		mg/L		104	62 - 128

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-793591/4
Matrix: Water
Analysis Batch: 793591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			0.0500	0.0559		mg/L		112	70 - 125		
Trichlorofluoromethane			0.0500	0.0474		mg/L		95	55 - 128		
Vinyl acetate			0.0500	0.0661		mg/L		132	43 - 133		
Vinyl chloride			0.0500	0.0492		mg/L		98	64 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*101*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: LCSD 500-793591/5
Matrix: Water
Analysis Batch: 793591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0500	0.0442	*1	mg/L		88	70 - 125	21	20
1,1,2,2-Tetrachloroethane			0.0500	0.0415		mg/L		83	62 - 140	19	20
1,1,2-Trichloroethane			0.0500	0.0437		mg/L		87	71 - 130	20	20
1,1-Dichloroethane			0.0500	0.0451		mg/L		90	70 - 125	20	20
1,1-Dichloroethene			0.0500	0.0453		mg/L		91	67 - 122	20	20
1,2-Dibromo-3-Chloropropane			0.0500	0.0407		mg/L		81	56 - 123	20	20
1,2-Dibromoethane			0.0500	0.0437		mg/L		87	70 - 125	19	20
1,2-Dichloroethane			0.0500	0.0425		mg/L		85	68 - 127	20	20
1,2-Dichloropropane			0.0500	0.0461		mg/L		92	67 - 130	18	20
p-Dioxane			1.00	0.906		mg/L		91	70 - 129	19	20
2-Butanone (MEK)			0.0500	0.0455	*1	mg/L		91	46 - 144	23	20
2-Hexanone			0.0500	0.0439	*1	mg/L		88	54 - 146	22	20
4-Methyl-2-pentanone (MIBK)			0.0500	0.0436		mg/L		87	55 - 139	20	20
Acetone			0.0500	0.0451		mg/L		90	40 - 143	19	20
Benzene			0.0500	0.0441		mg/L		88	70 - 120	19	20
Bromodichloromethane			0.0500	0.0418		mg/L		84	69 - 120	19	20
Bromoform			0.0500	0.0471		mg/L		94	56 - 132	18	20
Bromomethane			0.0500	0.0369		mg/L		74	40 - 152	14	20
Carbon disulfide			0.0500	0.0448		mg/L		90	66 - 120	19	20
Carbon tetrachloride			0.0500	0.0471	*1	mg/L		94	59 - 133	22	20
Chlorobenzene			0.0500	0.0446		mg/L		89	70 - 120	17	20
Chloroethane			0.0500	0.0408		mg/L		82	48 - 136	16	20
Chloroform			0.0500	0.0408		mg/L		82	70 - 120	19	20
Chloromethane			0.0500	0.0387		mg/L		77	56 - 152	15	20
cis-1,2-Dichloroethene			0.0500	0.0444		mg/L		89	70 - 125	18	20
cis-1,3-Dichloropropene			0.0500	0.0435		mg/L		87	64 - 127	18	20
Dibromochloromethane			0.0500	0.0450		mg/L		90	68 - 125	19	20
Dichlorodifluoromethane			0.0500	0.0371		mg/L		74	40 - 159	18	20
Ethylbenzene			0.0500	0.0455		mg/L		91	70 - 123	19	20
Isopropylbenzene			0.0500	0.0432		mg/L		86	70 - 126	16	20
Methyl tert-butyl ether			0.0500	0.0448		mg/L		90	55 - 123	20	20
Methylene Chloride			0.0500	0.0459		mg/L		92	69 - 125	18	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-793591/5
Matrix: Water
Analysis Batch: 793591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			0.0500	0.0446		mg/L		89	53 - 144	17	20
Styrene			0.0500	0.0439		mg/L		88	70 - 120	18	20
Tetrachloroethene			0.0500	0.0469		mg/L		94	70 - 128	19	20
Toluene			0.0500	0.0437		mg/L		87	70 - 125	17	20
Xylenes, Total			0.100	0.0892		mg/L		89	70 - 125	18	20
trans-1,2-Dichloroethene			0.0500	0.0444		mg/L		89	70 - 125	20	20
trans-1,3-Dichloropropene			0.0500	0.0432		mg/L		86	62 - 128	18	20
Trichloroethene			0.0500	0.0462		mg/L		92	70 - 125	19	20
Trichlorofluoromethane			0.0500	0.0392		mg/L		78	55 - 128	19	20
Vinyl acetate			0.0500	0.0542		mg/L		108	43 - 133	20	20
Vinyl chloride			0.0500	0.0412		mg/L		82	64 - 126	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: MB 500-793869/7
Matrix: Water
Analysis Batch: 793869

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.0010		0.0010		mg/L			11/05/24 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*		*11/05/24 10:31*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*11/05/24 10:31*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*11/05/24 10:31*	*1*
Toluene-d8 (Surr)	*108*		*75 - 120*		*11/05/24 10:31*	*1*

Lab Sample ID: LCS 500-793869/4
Matrix: Water
Analysis Batch: 793869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride			0.0500	0.0489		mg/L		98	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*75 - 126*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*107*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-792654/1-A
Matrix: Water
Analysis Batch: 792826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		10/28/24 11:27	10/29/24 11:33	1
Acenaphthylene	<0.00080		0.00080		mg/L		10/28/24 11:27	10/29/24 11:33	1
Anthracene	<0.00080		0.00080		mg/L		10/28/24 11:27	10/29/24 11:33	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		10/28/24 11:27	10/29/24 11:33	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		10/28/24 11:27	10/29/24 11:33	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Chrysene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		10/28/24 11:27	10/29/24 11:33	1
Fluoranthene	<0.00080		0.00080		mg/L		10/28/24 11:27	10/29/24 11:33	1
Fluorene	<0.00080		0.00080		mg/L		10/28/24 11:27	10/29/24 11:33	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Naphthalene	<0.00080		0.00080		mg/L		10/28/24 11:27	10/29/24 11:33	1
Phenanthrene	<0.00080		0.00080		mg/L		10/28/24 11:27	10/29/24 11:33	1
Pyrene	<0.00080		0.00080		mg/L		10/28/24 11:27	10/29/24 11:33	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
2,4,5-Trichlorophenol	<0.0080		0.0080		mg/L		10/28/24 11:27	10/29/24 11:33	1
2,4,6-Trichlorophenol	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1
2,4-Dichlorophenol	<0.0080		0.0080		mg/L		10/28/24 11:27	10/29/24 11:33	1
2,4-Dimethylphenol	<0.0080		0.0080		mg/L		10/28/24 11:27	10/29/24 11:33	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/29/24 11:33	1
2,4-Dinitrotoluene	<0.00080		0.00080		mg/L		10/28/24 11:27	10/29/24 11:33	1
2,6-Dinitrotoluene	<0.00080		0.00080		mg/L		10/28/24 11:27	10/29/24 11:33	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
2-Chlorophenol	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
2-Methylphenol	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
2-Nitroaniline	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1
2-Nitrophenol	<0.0080		0.0080		mg/L		10/28/24 11:27	10/29/24 11:33	1
3,3'-Dichlorobenzidine	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1
3 & 4 Methylphenol	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
3-Nitroaniline	<0.0080		0.0080		mg/L		10/28/24 11:27	10/29/24 11:33	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		10/28/24 11:27	10/29/24 11:33	1
4-Bromophenyl phenyl ether	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1
4-Chloro-3-methylphenol	<0.0080		0.0080		mg/L		10/28/24 11:27	10/29/24 11:33	1
4-Chloroaniline	<0.0080		0.0080		mg/L		10/28/24 11:27	10/29/24 11:33	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1
4-Nitroaniline	<0.0080		0.0080		mg/L		10/28/24 11:27	10/29/24 11:33	1
4-Nitrophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080		mg/L		10/28/24 11:27	10/29/24 11:33	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-792654/1-A
Matrix: Water
Analysis Batch: 792826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1
Dibenzofuran	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Diethyl phthalate	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1
Dimethyl phthalate	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1
Di-n-butyl phthalate	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1
Di-n-octyl phthalate	<0.0080		0.0080		mg/L		10/28/24 11:27	10/29/24 11:33	1
Hexachlorobenzene	<0.00040		0.00040		mg/L		10/28/24 11:27	10/29/24 11:33	1
Hexachlorobutadiene	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Hexachloroethane	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1
Isophorone	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Nitrobenzene	<0.00080		0.00080		mg/L		10/28/24 11:27	10/29/24 11:33	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040		mg/L		10/28/24 11:27	10/29/24 11:33	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Pentachlorophenol	<0.016		0.016		mg/L		10/28/24 11:27	10/29/24 11:33	1
Phenol	<0.0040		0.0040		mg/L		10/28/24 11:27	10/29/24 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*109*		*40 - 145*	*10/28/24 11:27*	*10/29/24 11:33*	*1*
2-Fluorobiphenyl (Surr)	*77*		*34 - 110*	*10/28/24 11:27*	*10/29/24 11:33*	*1*
2-Fluorophenol (Surr)	*60*		*27 - 110*	*10/28/24 11:27*	*10/29/24 11:33*	*1*
Nitrobenzene-d5 (Surr)	*87*		*36 - 120*	*10/28/24 11:27*	*10/29/24 11:33*	*1*
Phenol-d5 (Surr)	*43*		*20 - 110*	*10/28/24 11:27*	*10/29/24 11:33*	*1*
Terphenyl-d14 (Surr)	*111*		*40 - 145*	*10/28/24 11:27*	*10/29/24 11:33*	*1*

Lab Sample ID: LCS 500-792654/2-A
Matrix: Water
Analysis Batch: 792826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0238		mg/L		60	46 - 110
Acenaphthylene	0.0400	0.0254		mg/L		63	47 - 113
Anthracene	0.0400	0.0321		mg/L		80	67 - 118
Benzo[a]anthracene	0.0400	0.0345		mg/L		86	70 - 126
Benzo[a]pyrene	0.0400	0.0377		mg/L		94	70 - 135
Benzo[b]fluoranthene	0.0400	0.0391		mg/L		98	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0405		mg/L		101	70 - 135
Benzo[k]fluoranthene	0.0400	0.0411		mg/L		103	70 - 133
Chrysene	0.0400	0.0346		mg/L		86	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0391		mg/L		98	70 - 134
Fluoranthene	0.0400	0.0359		mg/L		90	68 - 126
Fluorene	0.0400	0.0264		mg/L		66	53 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.0383		mg/L		96	65 - 133
Naphthalene	0.0400	0.0177		mg/L		44	36 - 110
Phenanthrene	0.0400	0.0311		mg/L		78	65 - 120
Pyrene	0.0400	0.0334		mg/L		83	70 - 126
1,2,4-Trichlorobenzene	0.0400	0.0150		mg/L		38	26 - 110
1,2-Dichlorobenzene	0.0400	0.0136		mg/L		34	26 - 110

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-259032-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-792654/2-A
Matrix: Water
Analysis Batch: 792826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	0.0400	0.0127		mg/L		32	22 - 110
1,4-Dichlorobenzene	0.0400	0.0124		mg/L		31	23 - 110
2,4,5-Trichlorophenol	0.0400	0.0303		mg/L		76	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0304		mg/L		76	62 - 121
2,4-Dichlorophenol	0.0400	0.0273		mg/L		68	58 - 120
2,4-Dimethylphenol	0.0400	0.0290		mg/L		73	51 - 115
2,4-Dinitrophenol	0.0800	0.0647		mg/L		81	37 - 130
2,4-Dinitrotoluene	0.0400	0.0357		mg/L		89	63 - 129
2,6-Dinitrotoluene	0.0400	0.0323		mg/L		81	63 - 129
2-Chloronaphthalene	0.0400	0.0213		mg/L		53	39 - 110
2-Chlorophenol	0.0400	0.0245		mg/L		61	59 - 110
2-Methylnaphthalene	0.0400	0.0163		mg/L		41	34 - 110
2-Methylphenol	0.0400	0.0231		mg/L		58	53 - 115
2-Nitroaniline	0.0400	0.0267		mg/L		67	59 - 138
2-Nitrophenol	0.0400	0.0290		mg/L		73	59 - 115
3,3'-Dichlorobenzidine	0.0400	0.0353		mg/L		88	60 - 132
3 & 4 Methylphenol	0.0400	0.0192	*-	mg/L		48	50 - 116
3-Nitroaniline	0.0400	0.0261		mg/L		65	47 - 123
4,6-Dinitro-2-methylphenol	0.0800	0.0699		mg/L		87	50 - 129
4-Bromophenyl phenyl ether	0.0400	0.0297		mg/L		74	58 - 120
4-Chloro-3-methylphenol	0.0400	0.0259		mg/L		65	64 - 128
4-Chloroaniline	0.0400	0.0242		mg/L		60	35 - 128
4-Chlorophenyl phenyl ether	0.0400	0.0254		mg/L		63	48 - 116
4-Nitroaniline	0.0400	0.0286		mg/L		71	35 - 110
4-Nitrophenol	0.0800	0.0309		mg/L		39	20 - 110
Bis(2-chloroethoxy)methane	0.0400	0.0261		mg/L		65	59 - 118
Bis(2-chloroethyl)ether	0.0400	0.0252		mg/L		63	54 - 112
bis(chloroisopropyl) ether	0.0400	0.0206		mg/L		52	38 - 140
Bis(2-ethylhexyl) phthalate	0.0400	0.0305		mg/L		76	69 - 136
Butyl benzyl phthalate	0.0400	0.0320		mg/L		80	68 - 135
Carbazole	0.0400	0.0312		mg/L		78	61 - 145
Dibenzofuran	0.0400	0.0252		mg/L		63	51 - 110
Diethyl phthalate	0.0400	0.0318		mg/L		80	62 - 123
Dimethyl phthalate	0.0400	0.0299		mg/L		75	63 - 122
Di-n-butyl phthalate	0.0400	0.0354		mg/L		88	69 - 129
Di-n-octyl phthalate	0.0400	0.0311		mg/L		78	68 - 137
Hexachlorobenzene	0.0400	0.0344		mg/L		86	61 - 126
Hexachlorobutadiene	0.0400	0.0143		mg/L		36	20 - 100
Hexachlorocyclopentadiene	0.0400	0.0167		mg/L		42	10 - 105
Hexachloroethane	0.0400	0.0125		mg/L		31	20 - 100
Isophorone	0.0400	0.0267		mg/L		67	54 - 127
Nitrobenzene	0.0400	0.0259		mg/L		65	54 - 121
N-Nitrosodi-n-propylamine	0.0400	0.0246		mg/L		61	47 - 131
N-Nitrosodiphenylamine	0.0400	0.0291		mg/L		73	66 - 120
Pentachlorophenol	0.0800	0.0625		mg/L		78	42 - 148
Phenol	0.0400	0.0138		mg/L		34	33 - 100

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-792654/2-A
Matrix: Water
Analysis Batch: 792826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792654

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*76*		*40 - 145*
2-Fluorobiphenyl (Surr)	*56*		*34 - 110*
2-Fluorophenol (Surr)	*39*		*27 - 110*
Nitrobenzene-d5 (Surr)	*61*		*36 - 120*
Phenol-d5 (Surr)	*28*		*20 - 110*
Terphenyl-d14 (Surr)	*76*		*40 - 145*

Lab Sample ID: LCSD 500-792654/3-A
Matrix: Water
Analysis Batch: 792826

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 792654

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			0.0400	0.0238		mg/L		60	46 - 110	0	20
Acenaphthylene			0.0400	0.0254		mg/L		63	47 - 113	0	20
Anthracene			0.0400	0.0318		mg/L		80	67 - 118	1	20
Benzo[a]anthracene			0.0400	0.0346		mg/L		87	70 - 126	0	20
Benzo[a]pyrene			0.0400	0.0377		mg/L		94	70 - 135	0	20
Benzo[b]fluoranthene			0.0400	0.0394		mg/L		98	69 - 136	1	20
Benzo[g,h,i]perylene			0.0400	0.0401		mg/L		100	70 - 135	1	20
Benzo[k]fluoranthene			0.0400	0.0395		mg/L		99	70 - 133	4	20
Chrysene			0.0400	0.0340		mg/L		85	68 - 129	2	20
Dibenz(a,h)anthracene			0.0400	0.0385		mg/L		96	70 - 134	2	20
Fluoranthene			0.0400	0.0363		mg/L		91	68 - 126	1	20
Fluorene			0.0400	0.0268		mg/L		67	53 - 120	1	20
Indeno[1,2,3-cd]pyrene			0.0400	0.0388		mg/L		97	65 - 133	1	20
Naphthalene			0.0400	0.0178		mg/L		44	36 - 110	0	20
Phenanthrene			0.0400	0.0308		mg/L		77	65 - 120	1	20
Pyrene			0.0400	0.0320		mg/L		80	70 - 126	4	20
1,2,4-Trichlorobenzene			0.0400	0.0150		mg/L		37	26 - 110	0	20
1,2-Dichlorobenzene			0.0400	0.0134		mg/L		34	26 - 110	1	20
1,3-Dichlorobenzene			0.0400	0.0125		mg/L		31	22 - 110	2	20
1,4-Dichlorobenzene			0.0400	0.0126		mg/L		31	23 - 110	2	20
2,4,5-Trichlorophenol			0.0400	0.0305		mg/L		76	63 - 124	1	20
2,4,6-Trichlorophenol			0.0400	0.0298		mg/L		74	62 - 121	2	20
2,4-Dichlorophenol			0.0400	0.0274		mg/L		68	58 - 120	0	20
2,4-Dimethylphenol			0.0400	0.0293		mg/L		73	51 - 115	1	20
2,4-Dinitrophenol			0.0800	0.0681		mg/L		85	37 - 130	5	20
2,4-Dinitrotoluene			0.0400	0.0369		mg/L		92	63 - 129	3	20
2,6-Dinitrotoluene			0.0400	0.0331		mg/L		83	63 - 129	2	20
2-Chloronaphthalene			0.0400	0.0209		mg/L		52	39 - 110	2	20
2-Chlorophenol			0.0400	0.0242		mg/L		61	59 - 110	1	20
2-Methylnaphthalene			0.0400	0.0165		mg/L		41	34 - 110	1	20
2-Methylphenol			0.0400	0.0231		mg/L		58	53 - 115	0	20
2-Nitroaniline			0.0400	0.0272		mg/L		68	59 - 138	2	20
2-Nitrophenol			0.0400	0.0295		mg/L		74	59 - 115	1	20
3,3'-Dichlorobenzidine			0.0400	0.0356		mg/L		89	60 - 132	1	20
3 & 4 Methylphenol			0.0400	0.0197	*-	mg/L		49	50 - 116	3	20
3-Nitroaniline			0.0400	0.0273		mg/L		68	47 - 123	4	20

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-792654/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 792826
Prep Batch: 792654

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol			0.0800	0.0700		mg/L		87	50 - 129	0	20
4-Bromophenyl phenyl ether			0.0400	0.0288		mg/L		72	58 - 120	3	20
4-Chloro-3-methylphenol			0.0400	0.0267		mg/L		67	64 - 128	3	20
4-Chloroaniline			0.0400	0.0247		mg/L		62	35 - 128	2	20
4-Chlorophenyl phenyl ether			0.0400	0.0257		mg/L		64	48 - 116	1	20
4-Nitroaniline			0.0400	0.0300		mg/L		75	35 - 110	5	20
4-Nitrophenol			0.0800	0.0326		mg/L		41	20 - 110	5	20
Bis(2-chloroethoxy)methane			0.0400	0.0264		mg/L		66	59 - 118	1	20
Bis(2-chloroethyl)ether			0.0400	0.0249		mg/L		62	54 - 112	1	20
bis(chloroisopropyl) ether			0.0400	0.0206		mg/L		52	38 - 140	0	20
Bis(2-ethylhexyl) phthalate			0.0400	0.0304		mg/L		76	69 - 136	0	20
Butyl benzyl phthalate			0.0400	0.0319		mg/L		80	68 - 135	0	20
Carbazole			0.0400	0.0321		mg/L		80	61 - 145	3	20
Dibenzofuran			0.0400	0.0253		mg/L		63	51 - 110	0	20
Diethyl phthalate			0.0400	0.0320		mg/L		80	62 - 123	0	20
Dimethyl phthalate			0.0400	0.0303		mg/L		76	63 - 122	1	20
Di-n-butyl phthalate			0.0400	0.0358		mg/L		90	69 - 129	1	20
Di-n-octyl phthalate			0.0400	0.0318		mg/L		80	68 - 137	2	20
Hexachlorobenzene			0.0400	0.0337		mg/L		84	61 - 126	2	20
Hexachlorobutadiene			0.0400	0.0142		mg/L		35	20 - 100	1	20
Hexachlorocyclopentadiene			0.0400	0.0163		mg/L		41	10 - 105	3	20
Hexachloroethane			0.0400	0.0125		mg/L		31	20 - 100	1	20
Isophorone			0.0400	0.0274		mg/L		69	54 - 127	3	20
Nitrobenzene			0.0400	0.0259		mg/L		65	54 - 121	0	20
N-Nitrosodi-n-propylamine			0.0400	0.0252		mg/L		63	47 - 131	3	20
N-Nitrosodiphenylamine			0.0400	0.0284		mg/L		71	66 - 120	3	20
Pentachlorophenol			0.0800	0.0637		mg/L		80	42 - 148	2	20
Phenol			0.0400	0.0139		mg/L		35	33 - 100	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*79*		*40 - 145*
2-Fluorobiphenyl (Surr)	*54*		*34 - 110*
2-Fluorophenol (Surr)	*39*		*27 - 110*
Nitrobenzene-d5 (Surr)	*62*		*36 - 120*
Phenol-d5 (Surr)	*28*		*20 - 110*
Terphenyl-d14 (Surr)	*74*		*40 - 145*

Lab Sample ID: MB 500-792831/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 792824
Prep Batch: 792831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Acenaphthylene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Anthracene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		10/29/24 09:09	10/29/24 13:32	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 13:32	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 13:32	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-792831/1-A
Matrix: Water
Analysis Batch: 792824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 13:32	1
Chrysene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 13:32	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		10/29/24 09:09	10/29/24 13:32	1
Fluoranthene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Fluorene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 13:32	1
Naphthalene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Phenanthrene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Pyrene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*34 - 110*	*10/29/24 09:09*	*10/29/24 13:32*	*1*
Nitrobenzene-d5 (Surr)	*70*		*36 - 120*	*10/29/24 09:09*	*10/29/24 13:32*	*1*
Terphenyl-d14 (Surr)	*92*		*40 - 145*	*10/29/24 09:09*	*10/29/24 13:32*	*1*

Lab Sample ID: LCS 500-792831/2-A
Matrix: Water
Analysis Batch: 792824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792831

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0338		mg/L		85	46 - 110
Acenaphthylene	0.0400	0.0366		mg/L		91	47 - 113
Anthracene	0.0400	0.0393		mg/L		98	67 - 118
Benzo[a]anthracene	0.0400	0.0363		mg/L		91	70 - 126
Benzo[a]pyrene	0.0400	0.0448		mg/L		112	70 - 135
Benzo[b]fluoranthene	0.0400	0.0437		mg/L		109	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0467		mg/L		117	70 - 135
Benzo[k]fluoranthene	0.0400	0.0443		mg/L		111	70 - 133
Chrysene	0.0400	0.0376		mg/L		94	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0478		mg/L		119	70 - 134
Fluoranthene	0.0400	0.0447		mg/L		112	68 - 126
Fluorene	0.0400	0.0375		mg/L		94	53 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.0485		mg/L		121	65 - 133
Naphthalene	0.0400	0.0296		mg/L		74	36 - 110
Phenanthrene	0.0400	0.0383		mg/L		96	65 - 120
Pyrene	0.0400	0.0358		mg/L		89	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*80*		*34 - 110*
Nitrobenzene-d5 (Surr)	*79*		*36 - 120*
Terphenyl-d14 (Surr)	*93*		*40 - 145*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-792831/3-A
Matrix: Water
Analysis Batch: 792824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 792831

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			0.0400	0.0298		mg/L		75	46 - 110	13	20
Acenaphthylene			0.0400	0.0326		mg/L		81	47 - 113	12	20
Anthracene			0.0400	0.0362		mg/L		91	67 - 118	8	20
Benzo[a]anthracene			0.0400	0.0358		mg/L		89	70 - 126	1	20
Benzo[a]pyrene			0.0400	0.0419		mg/L		105	70 - 135	7	20
Benzo[b]fluoranthene			0.0400	0.0408		mg/L		102	69 - 136	7	20
Benzo[g,h,i]perylene			0.0400	0.0424		mg/L		106	70 - 135	10	20
Benzo[k]fluoranthene			0.0400	0.0408		mg/L		102	70 - 133	8	20
Chrysene			0.0400	0.0372		mg/L		93	68 - 129	1	20
Dibenz(a,h)anthracene			0.0400	0.0405		mg/L		101	70 - 134	17	20
Fluoranthene			0.0400	0.0406		mg/L		102	68 - 126	10	20
Fluorene			0.0400	0.0331		mg/L		83	53 - 120	13	20
Indeno[1,2,3-cd]pyrene			0.0400	0.0438		mg/L		110	65 - 133	10	20
Naphthalene			0.0400	0.0267		mg/L		67	36 - 110	10	20
Phenanthrene			0.0400	0.0347		mg/L		87	65 - 120	10	20
Pyrene			0.0400	0.0366		mg/L		91	70 - 126	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*34 - 110*
Nitrobenzene-d5 (Surr)	*75*		*36 - 120*
Terphenyl-d14 (Surr)	*95*		*40 - 145*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-792539/1-A
Matrix: Water
Analysis Batch: 792912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
4,4'-DDD	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
4,4'-DDE	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
4,4'-DDE	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
4,4'-DDT	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
4,4'-DDT	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Aldrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Aldrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
alpha-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
alpha-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
alpha-Chlordane	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
alpha-Chlordane	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
beta-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
beta-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Chlordane (technical)	<0.00020		0.00020		mg/L		10/28/24 07:14	10/29/24 15:40	1
Chlordane (technical)	<0.00020		0.00020		mg/L		10/28/24 07:14	10/29/24 15:40	1
delta-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
delta-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Dieldrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-792539/1-A
Matrix: Water
Analysis Batch: 792912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endosulfan I	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endosulfan I	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endosulfan II	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endosulfan II	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endosulfan sulfate	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endosulfan sulfate	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endrin aldehyde	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endrin aldehyde	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endrin ketone	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endrin ketone	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
gamma-BHC (Lindane)	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
gamma-BHC (Lindane)	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
gamma-Chlordane	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
gamma-Chlordane	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Heptachlor	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Heptachlor	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Heptachlor epoxide	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Heptachlor epoxide	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Methoxychlor	<0.00020		0.00020		mg/L		10/28/24 07:14	10/29/24 15:40	1
Methoxychlor	<0.00020		0.00020		mg/L		10/28/24 07:14	10/29/24 15:40	1
Toxaphene	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Toxaphene	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 15:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*30 - 130*	*10/28/24 07:14*	*10/29/24 15:40*	*1*
Tetrachloro-m-xylene	*50*		*30 - 120*	*10/28/24 07:14*	*10/29/24 15:40*	*1*

Lab Sample ID: LCS 500-792539/2-A
Matrix: Water
Analysis Batch: 792912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.000320	0.000247		mg/L		77	69 - 124
4,4'-DDD	0.000320	0.000289		mg/L		90	69 - 124
4,4'-DDE	0.000320	0.000226		mg/L		71	58 - 122
4,4'-DDE	0.000320	0.000262		mg/L		82	58 - 122
4,4'-DDT	0.000320	0.000291		mg/L		91	62 - 127
4,4'-DDT	0.000320	0.000285		mg/L		89	62 - 127
Aldrin	0.000320	0.000178		mg/L		55	34 - 120
Aldrin	0.000320	0.000198		mg/L		62	34 - 120
alpha-BHC	0.000320	0.000255		mg/L		80	65 - 120
alpha-BHC	0.000320	0.000283		mg/L		88	65 - 120
beta-BHC	0.000320	0.000240		mg/L		75	65 - 120
beta-BHC	0.000320	0.000288		mg/L		90	65 - 120
delta-BHC	0.000320	0.000247		mg/L		77	70 - 122

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-792539/2-A
Matrix: Water
Analysis Batch: 792912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792539

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
delta-BHC			0.000320	0.000267		mg/L		84	70 - 122		
Dieldrin			0.000320	0.000238		mg/L		75	68 - 120		
Dieldrin			0.000320	0.000270		mg/L		84	68 - 120		
Endosulfan I			0.000320	0.000227		mg/L		71	35 - 110		
Endosulfan I			0.000320	0.000246		mg/L		77	35 - 110		
Endosulfan II			0.000320	0.000233		mg/L		73	53 - 110		
Endosulfan II			0.000320	0.000262		mg/L		82	53 - 110		
Endosulfan sulfate			0.000320	0.000269		mg/L		84	70 - 133		
Endosulfan sulfate			0.000320	0.000268		mg/L		84	70 - 133		
Endrin			0.000320	0.000242		mg/L		76	60 - 132		
Endrin			0.000320	0.000266		mg/L		83	60 - 132		
Endrin aldehyde			0.000320	0.000222		mg/L		69	66 - 120		
Endrin aldehyde			0.000320	0.000244		mg/L		76	66 - 120		
Endrin ketone			0.000320	0.000242		mg/L		76	63 - 130		
Endrin ketone			0.000320	0.000284		mg/L		89	63 - 130		
gamma-BHC (Lindane)			0.000320	0.000257		mg/L		80	68 - 120		
gamma-BHC (Lindane)			0.000320	0.000284		mg/L		89	68 - 120		
Heptachlor			0.000320	0.000204		mg/L		64	40 - 120		
Heptachlor			0.000320	0.000199		mg/L		62	40 - 120		
Heptachlor epoxide			0.000320	0.000236		mg/L		74	64 - 120		
Heptachlor epoxide			0.000320	0.000262		mg/L		82	64 - 120		
Methoxychlor			0.000320	0.000256		mg/L		80	63 - 135		
Methoxychlor			0.000320	0.000275		mg/L		86	63 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*		*30 - 130*
Tetrachloro-m-xylene	*29*	*S1-*	*30 - 120*

Lab Sample ID: LCSD 500-792539/3-A
Matrix: Water
Analysis Batch: 792912

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 792539

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.000320	0.000259		mg/L		81	69 - 124	5	20
4,4'-DDD			0.000320	0.000305		mg/L		95	69 - 124	5	20
4,4'-DDE			0.000320	0.000235		mg/L		73	58 - 122	4	20
4,4'-DDE			0.000320	0.000270		mg/L		84	58 - 122	3	20
4,4'-DDT			0.000320	0.000350		mg/L		109	62 - 127	18	20
4,4'-DDT			0.000320	0.000296		mg/L		93	62 - 127	4	20
Aldrin			0.000320	0.000158		mg/L		49	34 - 120	12	20
Aldrin			0.000320	0.000174		mg/L		54	34 - 120	13	20
alpha-BHC			0.000320	0.000266		mg/L		83	65 - 120	4	20
alpha-BHC			0.000320	0.000291		mg/L		91	65 - 120	3	20
beta-BHC			0.000320	0.000251		mg/L		78	65 - 120	4	20
beta-BHC			0.000320	0.000297		mg/L		93	65 - 120	3	20
delta-BHC			0.000320	0.000260		mg/L		81	70 - 122	5	20
delta-BHC			0.000320	0.000278		mg/L		87	70 - 122	4	20
Dieldrin			0.000320	0.000248		mg/L		78	68 - 120	4	20

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 500-792539/3-A
Matrix: Water
Analysis Batch: 792912

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 792539

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dieldrin			0.000320	0.000283		mg/L		88	68 - 120	4	20
Endosulfan I			0.000320	0.000242		mg/L		76	35 - 110	6	20
Endosulfan I			0.000320	0.000260		mg/L		81	35 - 110	5	20
Endosulfan II			0.000320	0.000247		mg/L		77	53 - 110	5	20
Endosulfan II			0.000320	0.000275		mg/L		86	53 - 110	5	20
Endosulfan sulfate			0.000320	0.000298		mg/L		93	70 - 133	10	20
Endosulfan sulfate			0.000320	0.000284		mg/L		89	70 - 133	6	20
Endrin			0.000320	0.000257		mg/L		80	60 - 132	6	20
Endrin			0.000320	0.000282		mg/L		88	60 - 132	6	20
Endrin aldehyde			0.000320	0.000236		mg/L		74	66 - 120	6	20
Endrin aldehyde			0.000320	0.000272		mg/L		85	66 - 120	11	20
Endrin ketone			0.000320	0.000247		mg/L		77	63 - 130	2	20
Endrin ketone			0.000320	0.000298		mg/L		93	63 - 130	5	20
gamma-BHC (Lindane)			0.000320	0.000269		mg/L		84	68 - 120	4	20
gamma-BHC (Lindane)			0.000320	0.000292		mg/L		91	68 - 120	3	20
Heptachlor			0.000320	0.000200		mg/L		62	40 - 120	2	20
Heptachlor			0.000320	0.000192		mg/L		60	40 - 120	4	20
Heptachlor epoxide			0.000320	0.000251		mg/L		78	64 - 120	6	20
Heptachlor epoxide			0.000320	0.000273		mg/L		85	64 - 120	4	20
Methoxychlor			0.000320	0.000332	*1	mg/L		104	63 - 135	26	20
Methoxychlor			0.000320	0.000288		mg/L		90	63 - 135	5	20

Surrogate			*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl			*89*		*30 - 130*
Tetrachloro-m-xylene			*43*		*30 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-792539/1-A
Matrix: Water
Analysis Batch: 792879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
PCB-1221	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
PCB-1232	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
PCB-1242	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
PCB-1248	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
PCB-1254	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
PCB-1260	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
Polychlorinated biphenyls, Total	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*30 - 120*	*10/28/24 07:14*	*10/29/24 12:31*	*1*
DCB Decachlorobiphenyl	*65*		*30 - 140*	*10/28/24 07:14*	*10/29/24 12:31*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-792539/4-A
Matrix: Water
Analysis Batch: 792879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792539

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.00400	0.00266		mg/L		67	56 - 120		
PCB-1260			0.00400	0.00279		mg/L		70	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*44*		*30 - 120*
DCB Decachlorobiphenyl	*61*		*30 - 140*

Lab Sample ID: LCSD 500-792539/5-A
Matrix: Water
Analysis Batch: 792879

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 792539

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.00400	0.00282		mg/L		70	56 - 120	6	20
PCB-1260			0.00400	0.00309		mg/L		77	53 - 137	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*54*		*30 - 120*
DCB Decachlorobiphenyl	*72*		*30 - 140*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-793260/1-A
Matrix: Water
Analysis Batch: 793543

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 13:09	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 09:10	11/01/24 13:09	1
Barium	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 13:09	1
Beryllium	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 13:09	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:09	1
Calcium	<0.20		0.20		mg/L		10/31/24 09:10	11/01/24 13:09	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 13:09	1
Cobalt	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 13:09	1
Copper	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:09	1
Iron	<0.10		0.10		mg/L		10/31/24 09:10	11/01/24 13:09	1
Lead	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:09	1
Magnesium	<0.20		0.20		mg/L		10/31/24 09:10	11/01/24 13:09	1
Manganese	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 13:09	1
Nickel	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:09	1
Potassium	<0.50		0.50		mg/L		10/31/24 09:10	11/01/24 13:09	1
Silver	<0.00050		0.00050		mg/L		10/31/24 09:10	11/01/24 13:09	1
Sodium	0.257		0.20		mg/L		10/31/24 09:10	11/01/24 13:09	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 09:10	11/01/24 13:09	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 09:10	11/01/24 13:09	1
Zinc	<0.020		0.020		mg/L		10/31/24 09:10	11/01/24 13:09	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-793260/1-A
Matrix: Water
Analysis Batch: 793687

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		10/31/24 09:10	11/01/24 16:15	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 09:10	11/01/24 16:15	1

Lab Sample ID: LCS 500-793260/2-A
Matrix: Water
Analysis Batch: 793543

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 793260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2.00	1.97		mg/L		98	80 - 120
Antimony	0.500	0.542		mg/L		108	80 - 120
Barium	0.500	0.531		mg/L		106	80 - 120
Beryllium	0.0500	0.0517		mg/L		103	80 - 120
Cadmium	0.0500	0.0518		mg/L		104	80 - 120
Calcium	10.0	8.90		mg/L		89	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.494		mg/L		99	80 - 120
Copper	0.250	0.246		mg/L		98	80 - 120
Iron	1.00	1.01		mg/L		101	80 - 120
Lead	0.100	0.0959		mg/L		96	80 - 120
Magnesium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.500	0.498		mg/L		100	80 - 120
Nickel	0.500	0.509		mg/L		102	80 - 120
Potassium	10.0	10.4		mg/L		104	80 - 120
Silver	0.0500	0.0511		mg/L		102	80 - 120
Sodium	10.0	10.2		mg/L		102	80 - 120
Thallium	0.100	0.0956		mg/L		96	80 - 120
Vanadium	0.500	0.495		mg/L		99	80 - 120
Zinc	0.500	0.510		mg/L		102	80 - 120

Lab Sample ID: LCS 500-793260/2-A
Matrix: Water
Analysis Batch: 793687

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 793260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0979		mg/L		98	80 - 120
Selenium	0.100	0.0983		mg/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-792935/12-A
Matrix: Water
Analysis Batch: 793156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/29/24 14:40	10/30/24 11:27	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-792935/13-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 793156
Prep Batch: 792935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00201		mg/L		101	80 - 120

Lab Sample ID: MB 500-793108/12-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 793319
Prep Batch: 793108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/30/24 11:15	10/31/24 07:27	1

Lab Sample ID: LCS 500-793108/13-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 793319
Prep Batch: 793108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00202		mg/L		101	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-793620/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 793648
Prep Batch: 793620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0050		0.0050		mg/L		11/03/24 10:17	11/03/24 12:50	1

Lab Sample ID: LCS 500-793620/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 793648
Prep Batch: 793620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0992		mg/L		99	85 - 115

Lab Sample ID: MB 500-793971/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 794013
Prep Batch: 793971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0050		0.0050		mg/L		11/05/24 13:42	11/05/24 15:03	1

Lab Sample ID: LCS 500-793971/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 794013
Prep Batch: 793971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0952		mg/L		95	85 - 115

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-305
Lab Sample ID: 500-259032-1
Date Collected: 10/23/24 11:30
Matrix: Water
Date Received: 10/24/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	793591	W1T	EET CHI	11/02/24 22:01
Dissolved	Prep	3510C			792831	AC	EET CHI	10/29/24 09:09
Dissolved	Analysis	8270E		1	792824	H7CM	EET CHI	10/29/24 16:04
Total/NA	Prep	3510C			792654	LG	EET CHI	10/28/24 11:27
Total/NA	Analysis	8270E		1	792542	WS	EET CHI	10/28/24 17:36
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8081B		1	792912	H7CM	EET CHI	10/29/24 17:18
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8082A		1	792879	H7CM	EET CHI	10/29/24 13:52
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 14:00
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:47
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 13:37
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:24
Dissolved	Prep	7470A			793108	MJG	EET CHI	10/30/24 11:15 - 10/30/24 13:15 [1]
Dissolved	Analysis	7470A		1	793319	MJG	EET CHI	10/31/24 07:31
Total/NA	Prep	7470A			792935	MJG	EET CHI	10/29/24 14:40 - 10/29/24 16:40 [1]
Total/NA	Analysis	7470A		1	793156	MJG	EET CHI	10/30/24 12:07
Total/NA	Prep	9010C			793971	AC	EET CHI	11/05/24 13:42 - 11/05/24 14:12 [1]
Total/NA	Analysis	9012B		1	794013	AC	EET CHI	11/05/24 15:47

Client Sample ID: MW-306
Lab Sample ID: 500-259032-2
Date Collected: 10/23/24 12:01
Matrix: Water
Date Received: 10/24/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	793591	W1T	EET CHI	11/02/24 22:25
Total/NA	Prep	3510C			792654	LG	EET CHI	10/28/24 11:27
Total/NA	Analysis	8270E		1	792542	WS	EET CHI	10/28/24 18:01
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8081B		1	792912	H7CM	EET CHI	10/29/24 17:30
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8082A		1	792879	H7CM	EET CHI	10/29/24 14:05
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 14:03
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:49
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 13:39
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:26

Client Sample ID: MW-306

Lab Sample ID: 500-259032-2

Date Collected: 10/23/24 12:01

Matrix: Water

Date Received: 10/24/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	7470A			793108	MJG	EET CHI	10/30/24 11:15 - 10/30/24 13:15 [1]
Dissolved	Analysis	7470A		1	793319	MJG	EET CHI	10/31/24 07:33
Total/NA	Prep	7470A			792935	MJG	EET CHI	10/29/24 14:40 - 10/29/24 16:40 [1]
Total/NA	Analysis	7470A		1	793156	MJG	EET CHI	10/30/24 12:09
Total/NA	Prep	9010C			793971	AC	EET CHI	11/05/24 13:42 - 11/05/24 14:12 [1]
Total/NA	Analysis	9012B		1	794013	AC	EET CHI	11/05/24 15:49

Client Sample ID: MW-204

Lab Sample ID: 500-259032-3

Date Collected: 10/23/24 12:27

Matrix: Water

Date Received: 10/24/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	793591	W1T	EET CHI	11/02/24 22:49
Dissolved	Prep	3510C			792831	AC	EET CHI	10/29/24 09:09
Dissolved	Analysis	8270E		1	792824	H7CM	EET CHI	10/29/24 16:48
Total/NA	Prep	3510C			792654	LG	EET CHI	10/28/24 11:27
Total/NA	Analysis	8270E		1	792542	WS	EET CHI	10/28/24 18:26
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8081B		1	792912	H7CM	EET CHI	10/29/24 17:42
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8082A		1	792879	H7CM	EET CHI	10/29/24 14:18
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 14:10
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:51
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 13:46
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:28
Dissolved	Prep	7470A			793108	MJG	EET CHI	10/30/24 11:15 - 10/30/24 13:15 [1]
Dissolved	Analysis	7470A		1	793319	MJG	EET CHI	10/31/24 07:35
Total/NA	Prep	7470A			792935	MJG	EET CHI	10/29/24 14:40 - 10/29/24 16:40 [1]
Total/NA	Analysis	7470A		1	793156	MJG	EET CHI	10/30/24 12:16
Total/NA	Prep	9010C			793971	AC	EET CHI	11/05/24 13:42 - 11/05/24 14:12 [1]
Total/NA	Analysis	9012B		1	794013	AC	EET CHI	11/05/24 15:51

Client Sample ID: MW-102D

Lab Sample ID: 500-259032-4

Date Collected: 10/23/24 13:12

Matrix: Water

Date Received: 10/24/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	793591	W1T	EET CHI	11/02/24 23:13
Total/NA	Analysis	8260D	DL	10	793869	PMF	EET CHI	11/05/24 11:45
Dissolved	Prep	3510C			792831	AC	EET CHI	10/29/24 09:09
Dissolved	Analysis	8270E		1	792824	H7CM	EET CHI	10/29/24 17:10

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-102D
Lab Sample ID: 500-259032-4
Date Collected: 10/23/24 13:12
Matrix: Water
Date Received: 10/24/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			792654	LG	EET CHI	10/28/24 11:27
Total/NA	Analysis	8270E		1	792542	WS	EET CHI	10/28/24 18:51
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8081B		1	792912	H7CM	EET CHI	10/29/24 17:54
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8082A		1	792879	H7CM	EET CHI	10/29/24 14:31
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 14:12
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:53
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 13:49
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:31
Dissolved	Prep	7470A			793108	MJG	EET CHI	10/30/24 11:15 - 10/30/24 13:15 [1]
Dissolved	Analysis	7470A		1	793319	MJG	EET CHI	10/31/24 07:37
Total/NA	Prep	7470A			792935	MJG	EET CHI	10/29/24 14:40 - 10/29/24 16:40 [1]
Total/NA	Analysis	7470A		1	793156	MJG	EET CHI	10/30/24 12:18
Total/NA	Prep	9010C			793971	AC	EET CHI	11/05/24 13:42 - 11/05/24 14:12 [1]
Total/NA	Analysis	9012B		1	794013	AC	EET CHI	11/05/24 15:53

Client Sample ID: MW-102
Lab Sample ID: 500-259032-5
Date Collected: 10/23/24 13:36
Matrix: Water
Date Received: 10/24/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	793591	W1T	EET CHI	11/02/24 23:37
Total/NA	Analysis	8260D	RA	1	793869	PMF	EET CHI	11/05/24 12:10
Dissolved	Prep	3510C			792831	AC	EET CHI	10/29/24 09:09
Dissolved	Analysis	8270E		1	792824	H7CM	EET CHI	10/29/24 17:31
Total/NA	Prep	3510C			792654	LG	EET CHI	10/28/24 11:27
Total/NA	Analysis	8270E		1	792542	WS	EET CHI	10/28/24 19:16
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8081B		1	792912	H7CM	EET CHI	10/29/24 18:06
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8082A		1	792879	H7CM	EET CHI	10/29/24 14:45
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 14:14
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:56
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 13:51
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:33

Client Sample ID: MW-102

Lab Sample ID: 500-259032-5

Date Collected: 10/23/24 13:36

Matrix: Water

Date Received: 10/24/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	7470A			793108	MJG	EET CHI	10/30/24 11:15 - 10/30/24 13:15 [1]
Dissolved	Analysis	7470A		1	793319	MJG	EET CHI	10/31/24 07:39
Total/NA	Prep	7470A			792935	MJG	EET CHI	10/29/24 14:40 - 10/29/24 16:40 [1]
Total/NA	Analysis	7470A		1	793156	MJG	EET CHI	10/30/24 12:20
Total/NA	Prep	9010C			793971	AC	EET CHI	11/05/24 13:42 - 11/05/24 14:12 [1]
Total/NA	Analysis	9012B		1	794013	AC	EET CHI	11/05/24 15:54

Client Sample ID: MW-302

Lab Sample ID: 500-259032-6

Date Collected: 10/22/24 12:59

Matrix: Water

Date Received: 10/24/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	793591	W1T	EET CHI	11/03/24 00:01
Total/NA	Prep	3510C			792654	LG	EET CHI	10/28/24 11:27
Total/NA	Analysis	8270E		1	792542	WS	EET CHI	10/28/24 19:41
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8081B		1	792912	H7CM	EET CHI	10/29/24 18:18
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8082A		1	792879	H7CM	EET CHI	10/29/24 14:58
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 14:17
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:58
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 13:53
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:35
Dissolved	Prep	7470A			793108	MJG	EET CHI	10/30/24 11:15 - 10/30/24 13:15 [1]
Dissolved	Analysis	7470A		1	793319	MJG	EET CHI	10/31/24 07:46
Total/NA	Prep	7470A			792935	MJG	EET CHI	10/29/24 14:40 - 10/29/24 16:40 [1]
Total/NA	Analysis	7470A		1	793156	MJG	EET CHI	10/30/24 12:22
Total/NA	Prep	9010C			793620	AC	EET CHI	11/03/24 10:17 - 11/03/24 10:47 [1]
Total/NA	Analysis	9012B		1	793648	AC	EET CHI	11/03/24 13:35

Client Sample ID: MW-303

Lab Sample ID: 500-259032-7

Date Collected: 10/22/24 13:15

Matrix: Water

Date Received: 10/24/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	793591	W1T	EET CHI	11/03/24 00:25
Total/NA	Prep	3510C			792654	LG	EET CHI	10/28/24 11:27
Total/NA	Analysis	8270E		1	792542	WS	EET CHI	10/28/24 20:06
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8081B		1	792912	H7CM	EET CHI	10/29/24 18:30

Client Sample ID: MW-303

Lab Sample ID: 500-259032-7

Date Collected: 10/22/24 13:15

Matrix: Water

Date Received: 10/24/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8082A		1	792879	H7CM	EET CHI	10/29/24 15:11
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 14:19
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 17:00
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 13:56
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:42
Dissolved	Prep	7470A			793108	MJG	EET CHI	10/30/24 11:15 - 10/30/24 13:15 [1]
Dissolved	Analysis	7470A		1	793319	MJG	EET CHI	10/31/24 07:48
Total/NA	Prep	7470A			792935	MJG	EET CHI	10/29/24 14:40 - 10/29/24 16:40 [1]
Total/NA	Analysis	7470A		1	793156	MJG	EET CHI	10/30/24 12:24
Total/NA	Prep	9010C			793620	AC	EET CHI	11/03/24 10:17 - 11/03/24 10:47 [1]
Total/NA	Analysis	9012B		10	793754	AC	EET CHI	11/04/24 11:56

Client Sample ID: MW-304

Lab Sample ID: 500-259032-8

Date Collected: 10/22/24 13:37

Matrix: Water

Date Received: 10/24/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	793591	W1T	EET CHI	11/03/24 00:49
Total/NA	Prep	3510C			792654	LG	EET CHI	10/28/24 11:27
Total/NA	Analysis	8270E		1	792542	WS	EET CHI	10/28/24 20:31
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8081B		1	792912	H7CM	EET CHI	10/29/24 18:43
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8082A		1	792879	H7CM	EET CHI	10/29/24 15:24
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 14:21
Dissolved	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Dissolved	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 17:02
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793543	RN	EET CHI	11/01/24 13:58
Total Recoverable	Prep	3005A			793260	BDE	EET CHI	10/31/24 09:10 - 10/31/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	793687	RN	EET CHI	11/01/24 16:44
Dissolved	Prep	7470A			793108	MJG	EET CHI	10/30/24 11:15 - 10/30/24 13:15 [1]
Dissolved	Analysis	7470A		1	793319	MJG	EET CHI	10/31/24 07:50
Total/NA	Prep	7470A			792935	MJG	EET CHI	10/29/24 14:40 - 10/29/24 16:40 [1]
Total/NA	Analysis	7470A		1	793156	MJG	EET CHI	10/30/24 12:26
Total/NA	Prep	9010C			793620	AC	EET CHI	11/03/24 10:17 - 11/03/24 10:47 [1]
Total/NA	Analysis	9012B		1	793648	AC	EET CHI	11/03/24 13:39

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-259032-1

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259032-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Water	Polychlorinated biphenyls, Total
8260D		Water	1,3-Dichloropropene, Total

Chain of Custody Record 734831

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact		Project Manager: Dave Mantsock	Site Contact:	Date:	COC No 1
Company Name: Pioneer		Tel/Email: Mantsock@pioneerwa.com	Lab Contact:	Carrier:	1 of 1 COCs
Address: 2753 W 31st St		Analysis Turnaround Time			Sampler
City/State/Zip: Chicago, IL 60608		☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
Phone		TAT if different from Below Idrey			Walk-in Client
Fax		☐ 2 weeks			Lab Sampling
Project Name: 80803 Lakeshore Drive		☐ 1 week			
Site		☐ 2 days			Job / SDG No
PO# 24-0124-103		☐ 1 day			500-259032

500-259032 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL	dissolved TCL metals	dissolved PNAs	Sample Specific Notes
1	MW-305	10/23/24	11:30am	G	GW	11			X	X	X	
2	MW-306	↓	12:01pm	↓	↓	↓			X	X	X	
3	MW-204	↓	12:27pm	↓	↓	↓			X	X	X	
4	MW-102D	↓	1:12pm	↓	↓	↓			X	X	X	
5	MW-102	↓	1:36pm	↓	↓	↓			X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

3.2 → 2.4

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 4.6 Corr'd 3.8 | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pioneer	10/24/24	[signature]	EETA	10/24/24 ~~10~~ 0915
[signature]	EETA 10/24/24	1218			
			Received in Laboratory by [signature]	EETA	10/24/24 1218

12/5/2024 (Rev. 2)

Chain of Custody Record 734830

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsook	Site Contact:	Date:	COC No
Company Name: Pioneer	Tel/Email: jhartsook@pioneereq.com	Lab Contact:	Carrier:	1 of 1 COCs
Address: 2553 W. 31st St	Analysis Turnaround Time			Sampler
City/State/Zip: Chicago, IL, 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below 7 day			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name: 8080 S. Lake Shore Drive	☐ 1 week			
Site	☐ 2 days			Job / SDG No: 500-259032
PO # 24-0124-103	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL	dissolved TCL Metals	dissolved PFAS	Sample Specific Notes
MW-302	10/22/24	12:17 PM	G	GW	11	N	N	X	X	X	
MW-303	↓	1:15 PM	↓	↓	↓	N	N	X	X	X	
MW-304	↓	1:37 PM	↓	↓	↓	N	N	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: 3.2→2.4, 4.6→3.8

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____		
Relinquished by	Company: Pioneer	Date/Time: 10/23/24	Received by	Company: EETA	Date/Time: 10/24/24 0915
Relinquished by	Company: EETA 10/24/24	Date/Time: 1218	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: EETA	Date/Time: 10/24/24 1218

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-259032-1

Login Number: 259032
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 11/6/2024 6:37:30 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-259105-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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11/6/2024 6:37:30 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-259105-1 — Eurofins Chicago

Job Narrative
500-259105-1

Receipt
The sample was received on 10/25/2024 12:25 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1º C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-793568 was outside the method criteria for the following analyte(s): Bromomethane, n-Butyl alcohol and Vinyl acetate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in 500-792824 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 500-793243 recovered above the upper control limit for 2,4-Dinitrotoluene and Phenol-d5 (Surr). The samples associated with this CCV were non-detects for the affected target analytes; therefore, the data have been reported.

Method 8270E: The laboratory control sample (LCS) for preparation batch 500-793202 and analytical batch 500-793243 recovered outside acceptable limits for: Anthracene, Benzo[a]anthracene, Chrysene, Phenanthrene, Pyrene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2-Chlorophenol, 3 & 4 Methylphenol, 4-Bromophenyl phenyl ether, 4-Chloro-3-methylphenol, Bis(2-chloroethoxy)methane, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Dimethyl phthalate, Di-n-octyl phthalate, N-Nitrosodiphenylamine and Phenol. The associated sample was re-extracted past hold-time with acceptable QC and concurring target results. The in-hold data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-792539 and analytical batch 500-792912 recovered outside control limits for the following analytes: Methoxychlor.

Method 8081B: Tetrachloro-m-xylene surrogate recovery for the following sample was outside control limits: (LCS 500-792539/2-A). DCB Decachlorobiphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-793772 was above the upper control limit. The affected analytes are: Beryllium. Sample results were below the reporting limit, and have been reported as qualified data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-307
Lab Sample ID: 500-259105-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.035		0.0010		mg/L	1		8260D	Total/NA
Toluene	0.00083		0.00050		mg/L	1		8260D	Total/NA
Acenaphthene	0.0032		0.00085		mg/L	1		8270E	Total/NA
Fluorene	0.0017		0.00085		mg/L	1		8270E	Total/NA
Naphthalene	0.0086		0.00085		mg/L	1		8270E	Total/NA
Phenanthrene	0.0018	*-	0.00085		mg/L	1		8270E	Total/NA
Phenol	0.0075	*-	0.0042		mg/L	1		8270E	Total/NA
Acenaphthene	0.00096		0.00084		mg/L	1		8270E	Dissolved
Naphthalene	0.015		0.00084		mg/L	1		8270E	Dissolved
Aluminum	0.62		0.10		mg/L	1		6020B	Total Recoverable
Antimony	0.026		0.0030		mg/L	1		6020B	Total Recoverable
Arsenic	0.0014		0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.055		0.0025		mg/L	1		6020B	Total Recoverable
Calcium	63		0.20		mg/L	1		6020B	Total Recoverable
Copper	0.0033		0.0020		mg/L	1		6020B	Total Recoverable
Iron	0.22		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.45		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	0.46		0.20		mg/L	1		6020B	Total Recoverable
Manganese	0.020		0.0025		mg/L	1		6020B	Total Recoverable
Potassium	11		0.50		mg/L	1		6020B	Total Recoverable
Sodium	7.3		0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.0052		0.0050		mg/L	1		6020B	Total Recoverable
Aluminum	0.47		0.10		mg/L	1		6020B	Dissolved
Antimony	0.023		0.0030		mg/L	1		6020B	Dissolved
Arsenic	0.0013		0.0010		mg/L	1		6020B	Dissolved
Barium	0.052		0.0025		mg/L	1		6020B	Dissolved
Calcium	60		0.20		mg/L	1		6020B	Dissolved
Copper	0.0069		0.0020		mg/L	1		6020B	Dissolved
Lead	0.16		0.00050		mg/L	1		6020B	Dissolved
Manganese	0.0039		0.0025		mg/L	1		6020B	Dissolved
Potassium	11		0.50		mg/L	1		6020B	Dissolved
Sodium	7.2		0.20		mg/L	1		6020B	Dissolved
Cyanide, Total	0.010		0.0050		mg/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259105-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259105-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-259105-1	MW-307	Water	10/24/24 11:50	10/25/24 12:25

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-307
Lab Sample ID: 500-259105-1
Date Collected: 10/24/24 11:50
Matrix: Water
Date Received: 10/25/24 12:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			11/01/24 23:59	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			11/01/24 23:59	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			11/01/24 23:59	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			11/01/24 23:59	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			11/01/24 23:59	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			11/01/24 23:59	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			11/01/24 23:59	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			11/01/24 23:59	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			11/01/24 23:59	1
p-Dioxane	<0.10		0.10		mg/L			11/01/24 23:59	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			11/01/24 23:59	1
2-Hexanone	<0.0050		0.0050		mg/L			11/01/24 23:59	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			11/01/24 23:59	1
Acetone	<0.010		0.010		mg/L			11/01/24 23:59	1
Benzene	<0.00050		0.00050		mg/L			11/01/24 23:59	1
Bromodichloromethane	<0.0010		0.0010		mg/L			11/01/24 23:59	1
Bromoform	<0.0010		0.0010		mg/L			11/01/24 23:59	1
Bromomethane	<0.0030		0.0030		mg/L			11/01/24 23:59	1
Carbon disulfide	<0.0020		0.0020		mg/L			11/01/24 23:59	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			11/01/24 23:59	1
Chlorobenzene	<0.0010		0.0010		mg/L			11/01/24 23:59	1
Chloroethane	<0.0050		0.0050		mg/L			11/01/24 23:59	1
Chloroform	<0.0020		0.0020		mg/L			11/01/24 23:59	1
Chloromethane	<0.0050		0.0050		mg/L			11/01/24 23:59	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/01/24 23:59	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			11/01/24 23:59	1
Dibromochloromethane	<0.0010		0.0010		mg/L			11/01/24 23:59	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			11/01/24 23:59	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/01/24 23:59	1
Isopropylbenzene	<0.0010		0.0010		mg/L			11/01/24 23:59	1
m&p-Xylene	<0.0010		0.0010		mg/L			11/01/24 23:59	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			11/01/24 23:59	1
Methylene Chloride	<0.0050		0.0050		mg/L			11/01/24 23:59	1
Naphthalene	**0.035**		0.0010		mg/L			11/01/24 23:59	1
n-Butyl alcohol	<0.13		0.13		mg/L			11/01/24 23:59	1
o-Xylene	<0.00050		0.00050		mg/L			11/01/24 23:59	1
Styrene	<0.0010		0.0010		mg/L			11/01/24 23:59	1
Tetrachloroethene	<0.0010		0.0010		mg/L			11/01/24 23:59	1
Toluene	**0.00083**		0.00050		mg/L			11/01/24 23:59	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/01/24 23:59	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/01/24 23:59	1
Trichloroethene	<0.00050		0.00050		mg/L			11/01/24 23:59	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			11/01/24 23:59	1
Vinyl acetate	<0.0020		0.0020		mg/L			11/01/24 23:59	1
Vinyl chloride	<0.0010		0.0010		mg/L			11/01/24 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*11/01/24 23:59*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*11/01/24 23:59*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*11/01/24 23:59*	*1*

Client Sample ID: MW-307
Lab Sample ID: 500-259105-1

Date Collected: 10/24/24 11:50
Matrix: Water
Date Received: 10/25/24 12:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*		*75 - 120*		*11/01/24 23:59*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0032**		0.00085		mg/L		10/31/24 07:14	10/31/24 21:14	1
Acenaphthylene	<0.00085		0.00085		mg/L		10/31/24 07:14	10/31/24 21:14	1
Anthracene	<0.00085	*-	0.00085		mg/L		10/31/24 07:14	10/31/24 21:14	1
Benzo[a]anthracene	<0.00014	*-	0.00014		mg/L		10/31/24 07:14	10/31/24 21:14	1
Benzo[a]pyrene	<0.00017		0.00017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Benzo[b]fluoranthene	<0.00017		0.00017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Benzo[g,h,i]perylene	<0.00085		0.00085		mg/L		10/31/24 07:14	10/31/24 21:14	1
Benzo[k]fluoranthene	<0.00017		0.00017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Chrysene	<0.00017	*-	0.00017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Dibenz(a,h)anthracene	<0.00025		0.00025		mg/L		10/31/24 07:14	10/31/24 21:14	1
Fluoranthene	<0.00085		0.00085		mg/L		10/31/24 07:14	10/31/24 21:14	1
Fluorene	**0.0017**		0.00085		mg/L		10/31/24 07:14	10/31/24 21:14	1
Indeno[1,2,3-cd]pyrene	<0.00017		0.00017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Naphthalene	**0.0086**		0.00085		mg/L		10/31/24 07:14	10/31/24 21:14	1
Phenanthrene	**0.0018**	*-	0.00085		mg/L		10/31/24 07:14	10/31/24 21:14	1
Pyrene	<0.00085	*-	0.00085		mg/L		10/31/24 07:14	10/31/24 21:14	1
1,2,4-Trichlorobenzene	<0.0017		0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
1,2-Dichlorobenzene	<0.0017		0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
1,3-Dichlorobenzene	<0.0017		0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
1,4-Dichlorobenzene	<0.0017		0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
2,4,5-Trichlorophenol	<0.0085	*-	0.0085		mg/L		10/31/24 07:14	10/31/24 21:14	1
2,4,6-Trichlorophenol	<0.0042	*-	0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1
2,4-Dichlorophenol	<0.0085	*-	0.0085		mg/L		10/31/24 07:14	10/31/24 21:14	1
2,4-Dimethylphenol	<0.0085		0.0085		mg/L		10/31/24 07:14	10/31/24 21:14	1
2,4-Dinitrophenol	<0.017		0.017		mg/L		10/31/24 07:14	10/31/24 21:14	1
2,4-Dinitrotoluene	<0.00085		0.00085		mg/L		10/31/24 07:14	10/31/24 21:14	1
2,6-Dinitrotoluene	<0.00085		0.00085		mg/L		10/31/24 07:14	10/31/24 21:14	1
2-Chloronaphthalene	<0.0017		0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
2-Chlorophenol	<0.0042	*-	0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1
2-Methylnaphthalene	<0.0017		0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
2-Methylphenol	<0.0017		0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
2-Nitroaniline	<0.0042		0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1
2-Nitrophenol	<0.0085		0.0085		mg/L		10/31/24 07:14	10/31/24 21:14	1
3,3'-Dichlorobenzidine	<0.0042		0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1
3 & 4 Methylphenol	<0.0017	*-	0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
3-Nitroaniline	<0.0085		0.0085		mg/L		10/31/24 07:14	10/31/24 21:14	1
4,6-Dinitro-2-methylphenol	<0.017		0.017		mg/L		10/31/24 07:14	10/31/24 21:14	1
4-Bromophenyl phenyl ether	<0.0042	*-	0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1
4-Chloro-3-methylphenol	<0.0085	*-	0.0085		mg/L		10/31/24 07:14	10/31/24 21:14	1
4-Chloroaniline	<0.0085		0.0085		mg/L		10/31/24 07:14	10/31/24 21:14	1
4-Chlorophenyl phenyl ether	<0.0042		0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1
4-Nitroaniline	<0.0085		0.0085		mg/L		10/31/24 07:14	10/31/24 21:14	1
4-Nitrophenol	<0.017		0.017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Bis(2-chloroethoxy)methane	<0.0017	*-	0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Bis(2-chloroethyl)ether	<0.0017		0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1

Client Sample ID: MW-307
Lab Sample ID: 500-259105-1
Date Collected: 10/24/24 11:50
Matrix: Water
Date Received: 10/25/24 12:25

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis(chloroisopropyl) ether	<0.0017		0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Bis(2-ethylhexyl) phthalate	<0.0085	*-	0.0085		mg/L		10/31/24 07:14	10/31/24 21:14	1
Butyl benzyl phthalate	<0.0017	*-	0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Carbazole	<0.0042		0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1
Dibenzofuran	<0.0017		0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Diethyl phthalate	<0.0042		0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1
Dimethyl phthalate	<0.0042	*-	0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1
Di-n-butyl phthalate	<0.0042		0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1
Di-n-octyl phthalate	<0.0085	*-	0.0085		mg/L		10/31/24 07:14	10/31/24 21:14	1
Hexachlorobenzene	<0.00042		0.00042		mg/L		10/31/24 07:14	10/31/24 21:14	1
Hexachlorobutadiene	<0.0042		0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1
Hexachlorocyclopentadiene	<0.017		0.017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Hexachloroethane	<0.0042		0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1
Isophorone	<0.0017		0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Nitrobenzene	<0.00085		0.00085		mg/L		10/31/24 07:14	10/31/24 21:14	1
N-Nitrosodi-n-propylamine	<0.00042		0.00042		mg/L		10/31/24 07:14	10/31/24 21:14	1
N-Nitrosodiphenylamine	<0.0017	*-	0.0017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Pentachlorophenol	<0.017		0.017		mg/L		10/31/24 07:14	10/31/24 21:14	1
Phenol	**0.0075**	*-	0.0042		mg/L		10/31/24 07:14	10/31/24 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*118*		*40 - 145*	*10/31/24 07:14*	*10/31/24 21:14*	*1*
2-Fluorobiphenyl (Surr)	*77*		*34 - 110*	*10/31/24 07:14*	*10/31/24 21:14*	*1*
2-Fluorophenol (Surr)	*59*		*27 - 110*	*10/31/24 07:14*	*10/31/24 21:14*	*1*
Nitrobenzene-d5 (Surr)	*88*		*36 - 120*	*10/31/24 07:14*	*10/31/24 21:14*	*1*
Phenol-d5 (Surr)	*43*		*20 - 110*	*10/31/24 07:14*	*10/31/24 21:14*	*1*
Terphenyl-d14 (Surr)	*101*		*40 - 145*	*10/31/24 07:14*	*10/31/24 21:14*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.00096**		0.00084		mg/L		10/29/24 09:09	10/29/24 18:58	1
Acenaphthylene	<0.00084		0.00084		mg/L		10/29/24 09:09	10/29/24 18:58	1
Anthracene	<0.00084		0.00084		mg/L		10/29/24 09:09	10/29/24 18:58	1
Benzo[a]anthracene	<0.00014		0.00014		mg/L		10/29/24 09:09	10/29/24 18:58	1
Benzo[a]pyrene	<0.00017		0.00017		mg/L		10/29/24 09:09	10/29/24 18:58	1
Benzo[b]fluoranthene	<0.00017		0.00017		mg/L		10/29/24 09:09	10/29/24 18:58	1
Benzo[g,h,i]perylene	<0.00084		0.00084		mg/L		10/29/24 09:09	10/29/24 18:58	1
Benzo[k]fluoranthene	<0.00017		0.00017		mg/L		10/29/24 09:09	10/29/24 18:58	1
Chrysene	<0.00017		0.00017		mg/L		10/29/24 09:09	10/29/24 18:58	1
Dibenz(a,h)anthracene	<0.00025		0.00025		mg/L		10/29/24 09:09	10/29/24 18:58	1
Fluoranthene	<0.00084		0.00084		mg/L		10/29/24 09:09	10/29/24 18:58	1
Fluorene	<0.00084		0.00084		mg/L		10/29/24 09:09	10/29/24 18:58	1
Indeno[1,2,3-cd]pyrene	<0.00017		0.00017		mg/L		10/29/24 09:09	10/29/24 18:58	1
Naphthalene	**0.015**		0.00084		mg/L		10/29/24 09:09	10/29/24 18:58	1
Phenanthrene	<0.00084		0.00084		mg/L		10/29/24 09:09	10/29/24 18:58	1
Pyrene	<0.00084		0.00084		mg/L		10/29/24 09:09	10/29/24 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*72*		*36 - 120*	*10/29/24 09:09*	*10/29/24 18:58*	*1*
2-Fluorobiphenyl (Surr)	*79*		*34 - 110*	*10/29/24 09:09*	*10/29/24 18:58*	*1*

Client Sample ID: MW-307
Date Collected: 10/24/24 11:50
Date Received: 10/25/24 12:25

Lab Sample ID: 500-259105-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*103*		*40 - 145*	*10/29/24 09:09*	*10/29/24 18:58*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
4,4'-DDE	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
4,4'-DDT	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
Aldrin	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
alpha-BHC	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
alpha-Chlordane	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
beta-BHC	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
Chlordane (technical)	<0.00021		0.00021		mg/L		10/28/24 07:14	10/29/24 19:07	1
delta-BHC	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
Dieldrin	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
Endosulfan I	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
Endosulfan II	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
Endosulfan sulfate	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
Endrin	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
Endrin aldehyde	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
Endrin ketone	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
gamma-BHC (Lindane)	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
gamma-Chlordane	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
Heptachlor	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
Heptachlor epoxide	<0.00011		0.00011		mg/L		10/28/24 07:14	10/29/24 19:07	1
Methoxychlor	<0.00021	*1	0.00021		mg/L		10/28/24 07:14	10/29/24 19:07	1
Toxaphene	<0.0011		0.0011		mg/L		10/28/24 07:14	10/29/24 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*30 - 130*	*10/28/24 07:14*	*10/29/24 19:07*	*1*
Tetrachloro-m-xylene	*40*		*30 - 120*	*10/28/24 07:14*	*10/29/24 19:07*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0011		0.0011		mg/L		10/28/24 07:14	10/29/24 15:37	1
PCB-1221	<0.0011		0.0011		mg/L		10/28/24 07:14	10/29/24 15:37	1
PCB-1232	<0.0011		0.0011		mg/L		10/28/24 07:14	10/29/24 15:37	1
PCB-1242	<0.0011		0.0011		mg/L		10/28/24 07:14	10/29/24 15:37	1
PCB-1248	<0.0011		0.0011		mg/L		10/28/24 07:14	10/29/24 15:37	1
PCB-1254	<0.0011		0.0011		mg/L		10/28/24 07:14	10/29/24 15:37	1
PCB-1260	<0.0011		0.0011		mg/L		10/28/24 07:14	10/29/24 15:37	1
Polychlorinated biphenyls, Total	<0.0011		0.0011		mg/L		10/28/24 07:14	10/29/24 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*43*		*30 - 120*	*10/28/24 07:14*	*10/29/24 15:37*	*1*
DCB Decachlorobiphenyl	*50*		*30 - 140*	*10/28/24 07:14*	*10/29/24 15:37*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.62**		0.10		mg/L		10/31/24 15:23	11/04/24 13:51	1
Antimony	**0.026**		0.0030		mg/L		10/31/24 15:23	11/04/24 13:51	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-307
Lab Sample ID: 500-259105-1
Date Collected: 10/24/24 11:50
Matrix: Water
Date Received: 10/25/24 12:25

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0014**		0.0010		mg/L		10/31/24 15:23	11/04/24 13:51	1
Barium	**0.055**		0.0025		mg/L		10/31/24 15:23	11/04/24 13:51	1
Beryllium	<0.0010	^1+	0.0010		mg/L		10/31/24 15:23	11/04/24 13:51	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 15:23	11/04/24 13:51	1
Calcium	**63**		0.20		mg/L		10/31/24 15:23	11/04/24 13:51	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 15:23	11/04/24 13:51	1
Cobalt	<0.0010		0.0010		mg/L		10/31/24 15:23	11/04/24 13:51	1
Copper	**0.0033**		0.0020		mg/L		10/31/24 15:23	11/04/24 13:51	1
Iron	**0.22**		0.10		mg/L		10/31/24 15:23	11/04/24 13:51	1
Lead	**0.45**		0.00050		mg/L		10/31/24 15:23	11/04/24 13:51	1
Magnesium	**0.46**		0.20		mg/L		10/31/24 15:23	11/04/24 13:51	1
Manganese	**0.020**		0.0025		mg/L		10/31/24 15:23	11/04/24 13:51	1
Nickel	<0.0020		0.0020		mg/L		10/31/24 15:23	11/04/24 13:51	1
Potassium	**11**		0.50		mg/L		10/31/24 15:23	11/04/24 13:51	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 15:23	11/04/24 13:51	1
Silver	<0.00050		0.00050		mg/L		10/31/24 15:23	11/04/24 13:51	1
Sodium	**7.3**		0.20		mg/L		10/31/24 15:23	11/04/24 13:51	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 15:23	11/04/24 13:51	1
Vanadium	**0.0052**		0.0050		mg/L		10/31/24 15:23	11/04/24 13:51	1
Zinc	<0.020		0.020		mg/L		10/31/24 15:23	11/04/24 13:51	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.47**		0.10		mg/L		10/31/24 15:23	11/04/24 13:54	1
Antimony	**0.023**		0.0030		mg/L		10/31/24 15:23	11/04/24 13:54	1
Arsenic	**0.0013**		0.0010		mg/L		10/31/24 15:23	11/04/24 13:54	1
Barium	**0.052**		0.0025		mg/L		10/31/24 15:23	11/04/24 13:54	1
Beryllium	<0.0010	^1+	0.0010		mg/L		10/31/24 15:23	11/04/24 13:54	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 15:23	11/04/24 13:54	1
Calcium	**60**		0.20		mg/L		10/31/24 15:23	11/04/24 13:54	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 15:23	11/04/24 13:54	1
Cobalt	<0.0010		0.0010		mg/L		10/31/24 15:23	11/04/24 13:54	1
Copper	**0.0069**		0.0020		mg/L		10/31/24 15:23	11/04/24 13:54	1
Iron	<0.10		0.10		mg/L		10/31/24 15:23	11/04/24 13:54	1
Lead	**0.16**		0.00050		mg/L		10/31/24 15:23	11/04/24 13:54	1
Magnesium	<0.20		0.20		mg/L		10/31/24 15:23	11/04/24 13:54	1
Manganese	**0.0039**		0.0025		mg/L		10/31/24 15:23	11/04/24 13:54	1
Nickel	<0.0020		0.0020		mg/L		10/31/24 15:23	11/04/24 13:54	1
Potassium	**11**		0.50		mg/L		10/31/24 15:23	11/04/24 13:54	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 15:23	11/04/24 13:54	1
Silver	<0.00050		0.00050		mg/L		10/31/24 15:23	11/04/24 13:54	1
Sodium	**7.2**		0.20		mg/L		10/31/24 15:23	11/04/24 13:54	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 15:23	11/04/24 13:54	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 15:23	11/04/24 13:54	1
Zinc	<0.020		0.020		mg/L		10/31/24 15:23	11/04/24 13:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/29/24 10:40	10/30/24 09:06	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-307
Lab Sample ID: 500-259105-1
Date Collected: 10/24/24 11:50
Matrix: Water
Date Received: 10/25/24 12:25

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/29/24 10:40	10/30/24 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.010		0.0050		mg/L		11/05/24 14:40	11/05/24 17:31	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259105-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 793568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Total/NA	Water	8260D	
MB 500-793568/7	Method Blank	Total/NA	Water	8260D	
LCS 500-793568/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 500-793568/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Analysis Batch: 792824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Dissolved	Water	8270E	792831
MB 500-792831/1-A	Method Blank	Total/NA	Water	8270E	792831
LCS 500-792831/2-A	Lab Control Sample	Total/NA	Water	8270E	792831
LCSD 500-792831/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	792831

Prep Batch: 792831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Dissolved	Water	3510C	
MB 500-792831/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-792831/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-792831/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 793202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Total/NA	Water	3510C	
MB 500-793202/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-793202/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 793243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Total/NA	Water	8270E	793202
MB 500-793202/1-A	Method Blank	Total/NA	Water	8270E	793202
LCS 500-793202/2-A	Lab Control Sample	Total/NA	Water	8270E	793202

GC Semi VOA

Prep Batch: 792539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Total/NA	Water	3510C	
MB 500-792539/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-792539/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 500-792539/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-792539/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 500-792539/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 792879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Total/NA	Water	8082A	792539
MB 500-792539/1-A	Method Blank	Total/NA	Water	8082A	792539
LCS 500-792539/4-A	Lab Control Sample	Total/NA	Water	8082A	792539
LCSD 500-792539/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	792539

GC Semi VOA

Analysis Batch: 792912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Total/NA	Water	8081B	792539
MB 500-792539/1-A	Method Blank	Total/NA	Water	8081B	792539
LCS 500-792539/2-A	Lab Control Sample	Total/NA	Water	8081B	792539
LCSD 500-792539/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	792539

Metals

Prep Batch: 792871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Dissolved	Water	7470A	
500-259105-1	MW-307	Total/NA	Water	7470A	
MB 500-792871/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-792871/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 793156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Dissolved	Water	7470A	792871
500-259105-1	MW-307	Total/NA	Water	7470A	792871
MB 500-792871/12-A	Method Blank	Total/NA	Water	7470A	792871
LCS 500-792871/13-A	Lab Control Sample	Total/NA	Water	7470A	792871

Prep Batch: 793348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Dissolved	Water	3005A	
500-259105-1	MW-307	Total Recoverable	Water	3005A	
MB 500-793348/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-793348/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 793772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Dissolved	Water	6020B	793348
500-259105-1	MW-307	Total Recoverable	Water	6020B	793348
MB 500-793348/1-A	Method Blank	Total Recoverable	Water	6020B	793348
LCS 500-793348/2-A	Lab Control Sample	Total Recoverable	Water	6020B	793348

General Chemistry

Prep Batch: 793999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Total/NA	Water	9010C	
MB 500-793999/1-A	Method Blank	Total/NA	Water	9010C	
LCS 500-793999/2-A	Lab Control Sample	Total/NA	Water	9010C	

Analysis Batch: 794037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259105-1	MW-307	Total/NA	Water	9012B	793999
MB 500-793999/1-A	Method Blank	Total/NA	Water	9012B	793999
LCS 500-793999/2-A	Lab Control Sample	Total/NA	Water	9012B	793999

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259105-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-259105-1	MW-307	95	95	100	100
LCS 500-793568/4	Lab Control Sample	93	94	98	100
LCSD 500-793568/5	Lab Control Sample Dup	95	94	99	98
MB 500-793568/7	Method Blank	98	96	101	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-110)	(40-145)
500-259105-1	MW-307	118	77	59	88	43	101
LCS 500-792831/2-A	Lab Control Sample		80		79		93
LCS 500-793202/2-A	Lab Control Sample	69	48	40	59	30	67
LCSD 500-792831/3-A	Lab Control Sample Dup		78		75		95
MB 500-792831/1-A	Method Blank		68		70		92
MB 500-793202/1-A	Method Blank	95	67	48	79	33	82

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(36-120)	(34-110)	(40-145)
500-259105-1	MW-307	72	79	103

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(30-130)	(30-120)
500-259105-1	MW-307	63	40

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259105-1
Project/Site: 8080 District (24-0124-103)

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCBP1	TCX1								
Lab Sample ID	Client Sample ID	(30-130)	(30-120)								
LCS 500-792539/2-A	Lab Control Sample	50	29 S1-								
LCSD 500-792539/3-A	Lab Control Sample Dup	89	43								
MB 500-792539/1-A	Method Blank	86	50								

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX2	DCBP2								
Lab Sample ID	Client Sample ID	(30-120)	(30-140)								
500-259105-1	MW-307	43	50								
LCS 500-792539/4-A	Lab Control Sample	44	61								
LCSD 500-792539/5-A	Lab Control Sample Dup	54	72								
MB 500-792539/1-A	Method Blank	50	65								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-793568/7
Matrix: Water
Analysis Batch: 793568

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			11/01/24 23:12	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			11/01/24 23:12	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			11/01/24 23:12	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			11/01/24 23:12	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			11/01/24 23:12	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			11/01/24 23:12	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			11/01/24 23:12	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			11/01/24 23:12	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			11/01/24 23:12	1
p-Dioxane	<0.10		0.10		mg/L			11/01/24 23:12	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			11/01/24 23:12	1
2-Hexanone	<0.0050		0.0050		mg/L			11/01/24 23:12	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			11/01/24 23:12	1
Acetone	<0.010		0.010		mg/L			11/01/24 23:12	1
Benzene	<0.00050		0.00050		mg/L			11/01/24 23:12	1
Bromodichloromethane	<0.0010		0.0010		mg/L			11/01/24 23:12	1
Bromoform	<0.0010		0.0010		mg/L			11/01/24 23:12	1
Bromomethane	<0.0030		0.0030		mg/L			11/01/24 23:12	1
Carbon disulfide	<0.0020		0.0020		mg/L			11/01/24 23:12	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			11/01/24 23:12	1
Chlorobenzene	<0.0010		0.0010		mg/L			11/01/24 23:12	1
Chloroethane	<0.0050		0.0050		mg/L			11/01/24 23:12	1
Chloroform	<0.0020		0.0020		mg/L			11/01/24 23:12	1
Chloromethane	<0.0050		0.0050		mg/L			11/01/24 23:12	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/01/24 23:12	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			11/01/24 23:12	1
Dibromochloromethane	<0.0010		0.0010		mg/L			11/01/24 23:12	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			11/01/24 23:12	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/01/24 23:12	1
Isopropylbenzene	<0.0010		0.0010		mg/L			11/01/24 23:12	1
m&p-Xylene	<0.0010		0.0010		mg/L			11/01/24 23:12	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			11/01/24 23:12	1
Methylene Chloride	<0.0050		0.0050		mg/L			11/01/24 23:12	1
Naphthalene	<0.0010		0.0010		mg/L			11/01/24 23:12	1
n-Butyl alcohol	<0.13		0.13		mg/L			11/01/24 23:12	1
o-Xylene	<0.00050		0.00050		mg/L			11/01/24 23:12	1
Styrene	<0.0010		0.0010		mg/L			11/01/24 23:12	1
Tetrachloroethene	<0.0010		0.0010		mg/L			11/01/24 23:12	1
Toluene	<0.00050		0.00050		mg/L			11/01/24 23:12	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/01/24 23:12	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			11/01/24 23:12	1
Trichloroethene	<0.00050		0.00050		mg/L			11/01/24 23:12	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			11/01/24 23:12	1
Vinyl acetate	<0.0020		0.0020		mg/L			11/01/24 23:12	1
Vinyl chloride	<0.0010		0.0010		mg/L			11/01/24 23:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*11/01/24 23:12*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-793568/7
Matrix: Water
Analysis Batch: 793568

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124		11/01/24 23:12	1
Dibromofluoromethane	101		75 - 120		11/01/24 23:12	1
Toluene-d8 (Surr)	98		75 - 120		11/01/24 23:12	1

Lab Sample ID: LCS 500-793568/4
Matrix: Water
Analysis Batch: 793568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0525		mg/L		105	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0492		mg/L		98	62 - 140
1,1,2-Trichloroethane	0.0500	0.0516		mg/L		103	71 - 130
1,1-Dichloroethane	0.0500	0.0535		mg/L		107	70 - 125
1,1-Dichloroethene	0.0500	0.0557		mg/L		111	67 - 122
1,2-Dibromo-3-Chloropropane	0.0500	0.0474		mg/L		95	56 - 123
1,2-Dibromoethane	0.0500	0.0517		mg/L		103	70 - 125
1,2-Dichloroethane	0.0500	0.0487		mg/L		97	68 - 127
1,2-Dichloropropane	0.0500	0.0532		mg/L		106	67 - 130
p-Dioxane	1.00	1.05		mg/L		105	70 - 129
2-Butanone (MEK)	0.0500	0.0540		mg/L		108	46 - 144
2-Hexanone	0.0500	0.0525		mg/L		105	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0522		mg/L		104	55 - 139
Acetone	0.0500	0.0508		mg/L		102	40 - 143
Benzene	0.0500	0.0523		mg/L		105	70 - 120
Bromodichloromethane	0.0500	0.0482		mg/L		96	69 - 120
Bromoform	0.0500	0.0534		mg/L		107	56 - 132
Bromomethane	0.0500	0.0403		mg/L		81	40 - 152
Carbon disulfide	0.0500	0.0543		mg/L		109	66 - 120
Carbon tetrachloride	0.0500	0.0565		mg/L		113	59 - 133
Chlorobenzene	0.0500	0.0524		mg/L		105	70 - 120
Chloroethane	0.0500	0.0498		mg/L		100	48 - 136
Chloroform	0.0500	0.0477		mg/L		95	70 - 120
Chloromethane	0.0500	0.0485		mg/L		97	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0513		mg/L		103	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0503		mg/L		101	64 - 127
Dibromochloromethane	0.0500	0.0518		mg/L		104	68 - 125
Dichlorodifluoromethane	0.0500	0.0504		mg/L		101	40 - 159
Ethylbenzene	0.0500	0.0544		mg/L		109	70 - 123
Isopropylbenzene	0.0500	0.0508		mg/L		102	70 - 126
Methyl tert-butyl ether	0.0500	0.0524		mg/L		105	55 - 123
Methylene Chloride	0.0500	0.0539		mg/L		108	69 - 125
Naphthalene	0.0500	0.0528		mg/L		106	53 - 144
Styrene	0.0500	0.0514		mg/L		103	70 - 120
Tetrachloroethene	0.0500	0.0579		mg/L		116	70 - 128
Toluene	0.0500	0.0521		mg/L		104	70 - 125
Xylenes, Total	0.100	0.105		mg/L		105	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0525		mg/L		105	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0496		mg/L		99	62 - 128

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-793568/4
Matrix: Water
Analysis Batch: 793568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			0.0500	0.0550		mg/L		110	70 - 125		
Trichlorofluoromethane			0.0500	0.0470		mg/L		94	55 - 128		
Vinyl acetate			0.0500	0.0627		mg/L		125	43 - 133		
Vinyl chloride			0.0500	0.0513		mg/L		103	64 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*98*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: LCSD 500-793568/5
Matrix: Water
Analysis Batch: 793568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0500	0.0508		mg/L		102	70 - 125	3	20
1,1,2,2-Tetrachloroethane			0.0500	0.0495		mg/L		99	62 - 140	1	20
1,1,2-Trichloroethane			0.0500	0.0514		mg/L		103	71 - 130	0	20
1,1-Dichloroethane			0.0500	0.0529		mg/L		106	70 - 125	1	20
1,1-Dichloroethene			0.0500	0.0523		mg/L		105	67 - 122	6	20
1,2-Dibromo-3-Chloropropane			0.0500	0.0490		mg/L		98	56 - 123	3	20
1,2-Dibromoethane			0.0500	0.0506		mg/L		101	70 - 125	2	20
1,2-Dichloroethane			0.0500	0.0485		mg/L		97	68 - 127	0	20
1,2-Dichloropropane			0.0500	0.0523		mg/L		105	67 - 130	2	20
p-Dioxane			1.00	1.06		mg/L		106	70 - 129	1	20
2-Butanone (MEK)			0.0500	0.0548		mg/L		110	46 - 144	1	20
2-Hexanone			0.0500	0.0524		mg/L		105	54 - 146	0	20
4-Methyl-2-pentanone (MIBK)			0.0500	0.0511		mg/L		102	55 - 139	2	20
Acetone			0.0500	0.0509		mg/L		102	40 - 143	0	20
Benzene			0.0500	0.0510		mg/L		102	70 - 120	3	20
Bromodichloromethane			0.0500	0.0477		mg/L		95	69 - 120	1	20
Bromoform			0.0500	0.0535		mg/L		107	56 - 132	0	20
Bromomethane			0.0500	0.0423		mg/L		85	40 - 152	5	20
Carbon disulfide			0.0500	0.0523		mg/L		105	66 - 120	4	20
Carbon tetrachloride			0.0500	0.0540		mg/L		108	59 - 133	4	20
Chlorobenzene			0.0500	0.0509		mg/L		102	70 - 120	3	20
Chloroethane			0.0500	0.0475		mg/L		95	48 - 136	5	20
Chloroform			0.0500	0.0468		mg/L		94	70 - 120	2	20
Chloromethane			0.0500	0.0474		mg/L		95	56 - 152	2	20
cis-1,2-Dichloroethene			0.0500	0.0513		mg/L		103	70 - 125	0	20
cis-1,3-Dichloropropene			0.0500	0.0501		mg/L		100	64 - 127	0	20
Dibromochloromethane			0.0500	0.0514		mg/L		103	68 - 125	1	20
Dichlorodifluoromethane			0.0500	0.0481		mg/L		96	40 - 159	5	20
Ethylbenzene			0.0500	0.0528		mg/L		106	70 - 123	3	20
Isopropylbenzene			0.0500	0.0493		mg/L		99	70 - 126	3	20
Methyl tert-butyl ether			0.0500	0.0524		mg/L		105	55 - 123	0	20
Methylene Chloride			0.0500	0.0529		mg/L		106	69 - 125	2	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-793568/5
Matrix: Water
Analysis Batch: 793568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			0.0500	0.0532		mg/L		106	53 - 144	1	20
Styrene			0.0500	0.0508		mg/L		102	70 - 120	1	20
Tetrachloroethene			0.0500	0.0551		mg/L		110	70 - 128	5	20
Toluene			0.0500	0.0504		mg/L		101	70 - 125	3	20
Xylenes, Total			0.100	0.102		mg/L		102	70 - 125	3	20
trans-1,2-Dichloroethene			0.0500	0.0518		mg/L		104	70 - 125	1	20
trans-1,3-Dichloropropene			0.0500	0.0495		mg/L		99	62 - 128	0	20
Trichloroethene			0.0500	0.0533		mg/L		107	70 - 125	3	20
Trichlorofluoromethane			0.0500	0.0446		mg/L		89	55 - 128	5	20
Vinyl acetate			0.0500	0.0625		mg/L		125	43 - 133	0	20
Vinyl chloride			0.0500	0.0490		mg/L		98	64 - 126	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*99*		*75 - 120*
Toluene-d8 (Surr)	*98*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-792831/1-A
Matrix: Water
Analysis Batch: 792824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Acenaphthylene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Anthracene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		10/29/24 09:09	10/29/24 13:32	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 13:32	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 13:32	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 13:32	1
Chrysene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 13:32	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		10/29/24 09:09	10/29/24 13:32	1
Fluoranthene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Fluorene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		10/29/24 09:09	10/29/24 13:32	1
Naphthalene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Phenanthrene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1
Pyrene	<0.00080		0.00080		mg/L		10/29/24 09:09	10/29/24 13:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*34 - 110*	*10/29/24 09:09*	*10/29/24 13:32*	*1*
Nitrobenzene-d5 (Surr)	*70*		*36 - 120*	*10/29/24 09:09*	*10/29/24 13:32*	*1*
Terphenyl-d14 (Surr)	*92*		*40 - 145*	*10/29/24 09:09*	*10/29/24 13:32*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-792831/2-A
Matrix: Water
Analysis Batch: 792824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792831

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acenaphthene			0.0400	0.0338		mg/L		85	46 - 110		
Acenaphthylene			0.0400	0.0366		mg/L		91	47 - 113		
Anthracene			0.0400	0.0393		mg/L		98	67 - 118		
Benzo[a]anthracene			0.0400	0.0363		mg/L		91	70 - 126		
Benzo[a]pyrene			0.0400	0.0448		mg/L		112	70 - 135		
Benzo[b]fluoranthene			0.0400	0.0437		mg/L		109	69 - 136		
Benzo[g,h,i]perylene			0.0400	0.0467		mg/L		117	70 - 135		
Benzo[k]fluoranthene			0.0400	0.0443		mg/L		111	70 - 133		
Chrysene			0.0400	0.0376		mg/L		94	68 - 129		
Dibenz(a,h)anthracene			0.0400	0.0478		mg/L		119	70 - 134		
Fluoranthene			0.0400	0.0447		mg/L		112	68 - 126		
Fluorene			0.0400	0.0375		mg/L		94	53 - 120		
Indeno[1,2,3-cd]pyrene			0.0400	0.0485		mg/L		121	65 - 133		
Naphthalene			0.0400	0.0296		mg/L		74	36 - 110		
Phenanthrene			0.0400	0.0383		mg/L		96	65 - 120		
Pyrene			0.0400	0.0358		mg/L		89	70 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*80*		*34 - 110*
Nitrobenzene-d5 (Surr)	*79*		*36 - 120*
Terphenyl-d14 (Surr)	*93*		*40 - 145*

Lab Sample ID: LCSD 500-792831/3-A
Matrix: Water
Analysis Batch: 792824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 792831

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			0.0400	0.0298		mg/L		75	46 - 110	13	20
Acenaphthylene			0.0400	0.0326		mg/L		81	47 - 113	12	20
Anthracene			0.0400	0.0362		mg/L		91	67 - 118	8	20
Benzo[a]anthracene			0.0400	0.0358		mg/L		89	70 - 126	1	20
Benzo[a]pyrene			0.0400	0.0419		mg/L		105	70 - 135	7	20
Benzo[b]fluoranthene			0.0400	0.0408		mg/L		102	69 - 136	7	20
Benzo[g,h,i]perylene			0.0400	0.0424		mg/L		106	70 - 135	10	20
Benzo[k]fluoranthene			0.0400	0.0408		mg/L		102	70 - 133	8	20
Chrysene			0.0400	0.0372		mg/L		93	68 - 129	1	20
Dibenz(a,h)anthracene			0.0400	0.0405		mg/L		101	70 - 134	17	20
Fluoranthene			0.0400	0.0406		mg/L		102	68 - 126	10	20
Fluorene			0.0400	0.0331		mg/L		83	53 - 120	13	20
Indeno[1,2,3-cd]pyrene			0.0400	0.0438		mg/L		110	65 - 133	10	20
Naphthalene			0.0400	0.0267		mg/L		67	36 - 110	10	20
Phenanthrene			0.0400	0.0347		mg/L		87	65 - 120	10	20
Pyrene			0.0400	0.0366		mg/L		91	70 - 126	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*34 - 110*
Nitrobenzene-d5 (Surr)	*75*		*36 - 120*
Terphenyl-d14 (Surr)	*95*		*40 - 145*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-259105-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-793202/1-A
Matrix: Water
Analysis Batch: 793243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 793202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		10/31/24 07:14	10/31/24 14:46	1
Acenaphthylene	<0.00080		0.00080		mg/L		10/31/24 07:14	10/31/24 14:46	1
Anthracene	<0.00080		0.00080		mg/L		10/31/24 07:14	10/31/24 14:46	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		10/31/24 07:14	10/31/24 14:46	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		10/31/24 07:14	10/31/24 14:46	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Chrysene	<0.00016		0.00016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		10/31/24 07:14	10/31/24 14:46	1
Fluoranthene	<0.00080		0.00080		mg/L		10/31/24 07:14	10/31/24 14:46	1
Fluorene	<0.00080		0.00080		mg/L		10/31/24 07:14	10/31/24 14:46	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Naphthalene	<0.00080		0.00080		mg/L		10/31/24 07:14	10/31/24 14:46	1
Phenanthrene	<0.00080		0.00080		mg/L		10/31/24 07:14	10/31/24 14:46	1
Pyrene	<0.00080		0.00080		mg/L		10/31/24 07:14	10/31/24 14:46	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
2,4,5-Trichlorophenol	<0.0080		0.0080		mg/L		10/31/24 07:14	10/31/24 14:46	1
2,4,6-Trichlorophenol	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1
2,4-Dichlorophenol	<0.0080		0.0080		mg/L		10/31/24 07:14	10/31/24 14:46	1
2,4-Dimethylphenol	<0.0080		0.0080		mg/L		10/31/24 07:14	10/31/24 14:46	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		10/31/24 07:14	10/31/24 14:46	1
2,4-Dinitrotoluene	<0.00080		0.00080		mg/L		10/31/24 07:14	10/31/24 14:46	1
2,6-Dinitrotoluene	<0.00080		0.00080		mg/L		10/31/24 07:14	10/31/24 14:46	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
2-Chlorophenol	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
2-Methylphenol	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
2-Nitroaniline	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1
2-Nitrophenol	<0.0080		0.0080		mg/L		10/31/24 07:14	10/31/24 14:46	1
3,3'-Dichlorobenzidine	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1
3 & 4 Methylphenol	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
3-Nitroaniline	<0.0080		0.0080		mg/L		10/31/24 07:14	10/31/24 14:46	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		10/31/24 07:14	10/31/24 14:46	1
4-Bromophenyl phenyl ether	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1
4-Chloro-3-methylphenol	<0.0080		0.0080		mg/L		10/31/24 07:14	10/31/24 14:46	1
4-Chloroaniline	<0.0080		0.0080		mg/L		10/31/24 07:14	10/31/24 14:46	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1
4-Nitroaniline	<0.0080		0.0080		mg/L		10/31/24 07:14	10/31/24 14:46	1
4-Nitrophenol	<0.016		0.016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080		mg/L		10/31/24 07:14	10/31/24 14:46	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-793202/1-A
Matrix: Water
Analysis Batch: 793243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 793202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1
Dibenzofuran	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Diethyl phthalate	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1
Dimethyl phthalate	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1
Di-n-butyl phthalate	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1
Di-n-octyl phthalate	<0.0080		0.0080		mg/L		10/31/24 07:14	10/31/24 14:46	1
Hexachlorobenzene	<0.00040		0.00040		mg/L		10/31/24 07:14	10/31/24 14:46	1
Hexachlorobutadiene	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Hexachloroethane	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1
Isophorone	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Nitrobenzene	<0.00080		0.00080		mg/L		10/31/24 07:14	10/31/24 14:46	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040		mg/L		10/31/24 07:14	10/31/24 14:46	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Pentachlorophenol	<0.016		0.016		mg/L		10/31/24 07:14	10/31/24 14:46	1
Phenol	<0.0040		0.0040		mg/L		10/31/24 07:14	10/31/24 14:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*40 - 145*	*10/31/24 07:14*	*10/31/24 14:46*	*1*
2-Fluorobiphenyl (Surr)	*67*		*34 - 110*	*10/31/24 07:14*	*10/31/24 14:46*	*1*
2-Fluorophenol (Surr)	*48*		*27 - 110*	*10/31/24 07:14*	*10/31/24 14:46*	*1*
Nitrobenzene-d5 (Surr)	*79*		*36 - 120*	*10/31/24 07:14*	*10/31/24 14:46*	*1*
Phenol-d5 (Surr)	*33*		*20 - 110*	*10/31/24 07:14*	*10/31/24 14:46*	*1*
Terphenyl-d14 (Surr)	*82*		*40 - 145*	*10/31/24 07:14*	*10/31/24 14:46*	*1*

Lab Sample ID: LCS 500-793202/2-A
Matrix: Water
Analysis Batch: 793243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 793202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0203		mg/L		51	46 - 110
Acenaphthylene	0.0400	0.0217		mg/L		54	47 - 113
Anthracene	0.0400	0.0245	*-	mg/L		61	67 - 118
Benzo[a]anthracene	0.0400	0.0254	*-	mg/L		63	70 - 126
Benzo[a]pyrene	0.0400	0.0281		mg/L		70	70 - 135
Benzo[b]fluoranthene	0.0400	0.0285		mg/L		71	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0279		mg/L		70	70 - 135
Benzo[k]fluoranthene	0.0400	0.0291		mg/L		73	70 - 133
Chrysene	0.0400	0.0249	*-	mg/L		62	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0282		mg/L		71	70 - 134
Fluoranthene	0.0400	0.0284		mg/L		71	68 - 126
Fluorene	0.0400	0.0223		mg/L		56	53 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.0282		mg/L		71	65 - 133
Naphthalene	0.0400	0.0182		mg/L		45	36 - 110
Phenanthrene	0.0400	0.0239	*-	mg/L		60	65 - 120
Pyrene	0.0400	0.0223	*-	mg/L		56	70 - 126
1,2,4-Trichlorobenzene	0.0400	0.0146		mg/L		37	26 - 110
1,2-Dichlorobenzene	0.0400	0.0142		mg/L		35	26 - 110

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-259105-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-793202/2-A
Matrix: Water
Analysis Batch: 793243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 793202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	0.0400	0.0129		mg/L		32	22 - 110
1,4-Dichlorobenzene	0.0400	0.0133		mg/L		33	23 - 110
2,4,5-Trichlorophenol	0.0400	0.0226	*-	mg/L		57	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0220	*-	mg/L		55	62 - 121
2,4-Dichlorophenol	0.0400	0.0221	*-	mg/L		55	58 - 120
2,4-Dimethylphenol	0.0400	0.0241		mg/L		60	51 - 115
2,4-Dinitrophenol	0.0800	0.0475		mg/L		59	37 - 130
2,4-Dinitrotoluene	0.0400	0.0315		mg/L		79	63 - 129
2,6-Dinitrotoluene	0.0400	0.0264		mg/L		66	63 - 129
2-Chloronaphthalene	0.0400	0.0186		mg/L		47	39 - 110
2-Chlorophenol	0.0400	0.0216	*-	mg/L		54	59 - 110
2-Methylnaphthalene	0.0400	0.0164		mg/L		41	34 - 110
2-Methylphenol	0.0400	0.0215		mg/L		54	53 - 115
2-Nitroaniline	0.0400	0.0238		mg/L		60	59 - 138
2-Nitrophenol	0.0400	0.0242		mg/L		61	59 - 115
3,3'-Dichlorobenzidine	0.0400	0.0272		mg/L		68	60 - 132
3 & 4 Methylphenol	0.0400	0.0190	*-	mg/L		48	50 - 116
3-Nitroaniline	0.0400	0.0253		mg/L		63	47 - 123
4,6-Dinitro-2-methylphenol	0.0800	0.0531		mg/L		66	50 - 129
4-Bromophenyl phenyl ether	0.0400	0.0224	*-	mg/L		56	58 - 120
4-Chloro-3-methylphenol	0.0400	0.0231	*-	mg/L		58	64 - 128
4-Chloroaniline	0.0400	0.0219		mg/L		55	35 - 128
4-Chlorophenyl phenyl ether	0.0400	0.0213		mg/L		53	48 - 116
4-Nitroaniline	0.0400	0.0273		mg/L		68	35 - 110
4-Nitrophenol	0.0800	0.0317		mg/L		40	20 - 110
Bis(2-chloroethoxy)methane	0.0400	0.0228	*-	mg/L		57	59 - 118
Bis(2-chloroethyl)ether	0.0400	0.0229		mg/L		57	54 - 112
bis(chloroisopropyl) ether	0.0400	0.0220		mg/L		55	38 - 140
Bis(2-ethylhexyl) phthalate	0.0400	0.0227	*-	mg/L		57	69 - 136
Butyl benzyl phthalate	0.0400	0.0233	*-	mg/L		58	68 - 135
Carbazole	0.0400	0.0250		mg/L		63	61 - 145
Dibenzofuran	0.0400	0.0216		mg/L		54	51 - 110
Diethyl phthalate	0.0400	0.0270		mg/L		68	62 - 123
Dimethyl phthalate	0.0400	0.0248	*-	mg/L		62	63 - 122
Di-n-butyl phthalate	0.0400	0.0278		mg/L		69	69 - 129
Di-n-octyl phthalate	0.0400	0.0245	*-	mg/L		61	68 - 137
Hexachlorobenzene	0.0400	0.0250		mg/L		62	61 - 126
Hexachlorobutadiene	0.0400	0.0124		mg/L		31	20 - 100
Hexachlorocyclopentadiene	0.0400	0.0134	J	mg/L		33	10 - 105
Hexachloroethane	0.0400	0.0136		mg/L		34	20 - 100
Isophorone	0.0400	0.0236		mg/L		59	54 - 127
Nitrobenzene	0.0400	0.0225		mg/L		56	54 - 121
N-Nitrosodi-n-propylamine	0.0400	0.0241		mg/L		60	47 - 131
N-Nitrosodiphenylamine	0.0400	0.0230	*-	mg/L		57	66 - 120
Pentachlorophenol	0.0800	0.0413		mg/L		52	42 - 148
Phenol	0.0400	0.0128	*-	mg/L		32	33 - 100

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-793202/2-A
Matrix: Water
Analysis Batch: 793243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 793202

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	69		40 - 145
2-Fluorobiphenyl (Surr)	48		34 - 110
2-Fluorophenol (Surr)	40		27 - 110
Nitrobenzene-d5 (Surr)	59		36 - 120
Phenol-d5 (Surr)	30		20 - 110
Terphenyl-d14 (Surr)	67		40 - 145

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-792539/1-A
Matrix: Water
Analysis Batch: 792912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
4,4'-DDE	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
4,4'-DDT	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Aldrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
alpha-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
alpha-Chlordane	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
beta-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Chlordane (technical)	<0.00020		0.00020		mg/L		10/28/24 07:14	10/29/24 15:40	1
delta-BHC	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Dieldrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endosulfan I	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endosulfan II	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endosulfan sulfate	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endrin	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endrin aldehyde	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Endrin ketone	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
gamma-BHC (Lindane)	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
gamma-Chlordane	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Heptachlor	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Heptachlor epoxide	<0.00010		0.00010		mg/L		10/28/24 07:14	10/29/24 15:40	1
Methoxychlor	<0.00020		0.00020		mg/L		10/28/24 07:14	10/29/24 15:40	1
Toxaphene	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 15:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	86		30 - 130	10/28/24 07:14	10/29/24 15:40	1
Tetrachloro-m-xylene	50		30 - 120	10/28/24 07:14	10/29/24 15:40	1

Lab Sample ID: LCS 500-792539/2-A
Matrix: Water
Analysis Batch: 792912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792539

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			0.000320	0.000247		mg/L		77	69 - 124		
4,4'-DDE			0.000320	0.000226		mg/L		71	58 - 122		

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-792539/2-A
Matrix: Water
Analysis Batch: 792912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792539

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDT			0.000320	0.000291		mg/L		91	62 - 127		
Aldrin			0.000320	0.000178		mg/L		55	34 - 120		
alpha-BHC			0.000320	0.000255		mg/L		80	65 - 120		
beta-BHC			0.000320	0.000240		mg/L		75	65 - 120		
delta-BHC			0.000320	0.000247		mg/L		77	70 - 122		
Dieldrin			0.000320	0.000238		mg/L		75	68 - 120		
Endosulfan I			0.000320	0.000227		mg/L		71	35 - 110		
Endosulfan II			0.000320	0.000233		mg/L		73	53 - 110		
Endosulfan sulfate			0.000320	0.000269		mg/L		84	70 - 133		
Endrin			0.000320	0.000242		mg/L		76	60 - 132		
Endrin aldehyde			0.000320	0.000222		mg/L		69	66 - 120		
Endrin ketone			0.000320	0.000242		mg/L		76	63 - 130		
gamma-BHC (Lindane)			0.000320	0.000257		mg/L		80	68 - 120		
Heptachlor			0.000320	0.000204		mg/L		64	40 - 120		
Heptachlor epoxide			0.000320	0.000236		mg/L		74	64 - 120		
Methoxychlor			0.000320	0.000256		mg/L		80	63 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*		*30 - 130*
Tetrachloro-m-xylene	*29*	*S1-*	*30 - 120*

Lab Sample ID: LCSD 500-792539/3-A
Matrix: Water
Analysis Batch: 792912

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 792539

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.000320	0.000259		mg/L		81	69 - 124	5	20
4,4'-DDE			0.000320	0.000235		mg/L		73	58 - 122	4	20
4,4'-DDT			0.000320	0.000350		mg/L		109	62 - 127	18	20
Aldrin			0.000320	0.000158		mg/L		49	34 - 120	12	20
alpha-BHC			0.000320	0.000266		mg/L		83	65 - 120	4	20
beta-BHC			0.000320	0.000251		mg/L		78	65 - 120	4	20
delta-BHC			0.000320	0.000260		mg/L		81	70 - 122	5	20
Dieldrin			0.000320	0.000248		mg/L		78	68 - 120	4	20
Endosulfan I			0.000320	0.000242		mg/L		76	35 - 110	6	20
Endosulfan II			0.000320	0.000247		mg/L		77	53 - 110	5	20
Endosulfan sulfate			0.000320	0.000298		mg/L		93	70 - 133	10	20
Endrin			0.000320	0.000257		mg/L		80	60 - 132	6	20
Endrin aldehyde			0.000320	0.000236		mg/L		74	66 - 120	6	20
Endrin ketone			0.000320	0.000247		mg/L		77	63 - 130	2	20
gamma-BHC (Lindane)			0.000320	0.000269		mg/L		84	68 - 120	4	20
Heptachlor			0.000320	0.000200		mg/L		62	40 - 120	2	20
Heptachlor epoxide			0.000320	0.000251		mg/L		78	64 - 120	6	20
Methoxychlor			0.000320	0.000332	*1	mg/L		104	63 - 135	26	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*30 - 130*
Tetrachloro-m-xylene	*43*		*30 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-792539/1-A
Matrix: Water
Analysis Batch: 792879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
PCB-1221	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
PCB-1232	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
PCB-1242	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
PCB-1248	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
PCB-1254	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
PCB-1260	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1
Polychlorinated biphenyls, Total	<0.0010		0.0010		mg/L		10/28/24 07:14	10/29/24 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*30 - 120*	*10/28/24 07:14*	*10/29/24 12:31*	*1*
DCB Decachlorobiphenyl	*65*		*30 - 140*	*10/28/24 07:14*	*10/29/24 12:31*	*1*

Lab Sample ID: LCS 500-792539/4-A
Matrix: Water
Analysis Batch: 792879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792539

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.00400	0.00266		mg/L		67	56 - 120		
PCB-1260			0.00400	0.00279		mg/L		70	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*44*		*30 - 120*
DCB Decachlorobiphenyl	*61*		*30 - 140*

Lab Sample ID: LCSD 500-792539/5-A
Matrix: Water
Analysis Batch: 792879

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 792539

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.00400	0.00282		mg/L		70	56 - 120	6	20
PCB-1260			0.00400	0.00309		mg/L		77	53 - 137	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*54*		*30 - 120*
DCB Decachlorobiphenyl	*72*		*30 - 140*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-793348/1-A
Matrix: Water
Analysis Batch: 793772

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		10/31/24 15:23	11/04/24 13:15	1
Antimony	<0.0030		0.0030		mg/L		10/31/24 15:23	11/04/24 13:15	1
Arsenic	<0.0010		0.0010		mg/L		10/31/24 15:23	11/04/24 13:15	1
Barium	<0.0025		0.0025		mg/L		10/31/24 15:23	11/04/24 13:15	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-793348/1-A
Matrix: Water
Analysis Batch: 793772

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010	^1+	0.0010		mg/L		10/31/24 15:23	11/04/24 13:15	1
Cadmium	<0.00050		0.00050		mg/L		10/31/24 15:23	11/04/24 13:15	1
Calcium	<0.20		0.20		mg/L		10/31/24 15:23	11/04/24 13:15	1
Chromium	<0.0050		0.0050		mg/L		10/31/24 15:23	11/04/24 13:15	1
Cobalt	<0.0010		0.0010		mg/L		10/31/24 15:23	11/04/24 13:15	1
Copper	<0.0020		0.0020		mg/L		10/31/24 15:23	11/04/24 13:15	1
Iron	<0.10		0.10		mg/L		10/31/24 15:23	11/04/24 13:15	1
Lead	<0.00050		0.00050		mg/L		10/31/24 15:23	11/04/24 13:15	1
Magnesium	<0.20		0.20		mg/L		10/31/24 15:23	11/04/24 13:15	1
Manganese	<0.0025		0.0025		mg/L		10/31/24 15:23	11/04/24 13:15	1
Nickel	<0.0020		0.0020		mg/L		10/31/24 15:23	11/04/24 13:15	1
Potassium	<0.50		0.50		mg/L		10/31/24 15:23	11/04/24 13:15	1
Selenium	<0.0025		0.0025		mg/L		10/31/24 15:23	11/04/24 13:15	1
Silver	<0.00050		0.00050		mg/L		10/31/24 15:23	11/04/24 13:15	1
Sodium	<0.20		0.20		mg/L		10/31/24 15:23	11/04/24 13:15	1
Thallium	<0.0020		0.0020		mg/L		10/31/24 15:23	11/04/24 13:15	1
Vanadium	<0.0050		0.0050		mg/L		10/31/24 15:23	11/04/24 13:15	1
Zinc	<0.020		0.020		mg/L		10/31/24 15:23	11/04/24 13:15	1

Lab Sample ID: LCS 500-793348/2-A
Matrix: Water
Analysis Batch: 793772

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 793348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2.00	1.87		mg/L		94	80 - 120
Antimony	0.500	0.503		mg/L		101	80 - 120
Arsenic	0.100	0.104		mg/L		104	80 - 120
Barium	0.500	0.512		mg/L		102	80 - 120
Beryllium	0.0500	0.0479	^1+	mg/L		96	80 - 120
Cadmium	0.0500	0.0492		mg/L		98	80 - 120
Calcium	10.0	8.45		mg/L		84	80 - 120
Chromium	0.200	0.195		mg/L		97	80 - 120
Cobalt	0.500	0.501		mg/L		100	80 - 120
Copper	0.250	0.250		mg/L		100	80 - 120
Iron	1.00	0.997		mg/L		100	80 - 120
Lead	0.100	0.0936		mg/L		94	80 - 120
Magnesium	10.0	9.84		mg/L		98	80 - 120
Manganese	0.500	0.492		mg/L		98	80 - 120
Nickel	0.500	0.498		mg/L		100	80 - 120
Potassium	10.0	10.0		mg/L		100	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Silver	0.0500	0.0481		mg/L		96	80 - 120
Sodium	10.0	9.73		mg/L		97	80 - 120
Thallium	0.100	0.0943		mg/L		94	80 - 120
Vanadium	0.500	0.489		mg/L		98	80 - 120
Zinc	0.500	0.514		mg/L		103	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-792871/12-A
Matrix: Water
Analysis Batch: 793156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/29/24 10:40	10/30/24 08:07	1

Lab Sample ID: LCS 500-792871/13-A
Matrix: Water
Analysis Batch: 793156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00204		mg/L		102	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-793999/1-A
Matrix: Water
Analysis Batch: 794037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 793999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0050		0.0050		mg/L		11/05/24 14:40	11/05/24 16:41	1

Lab Sample ID: LCS 500-793999/2-A
Matrix: Water
Analysis Batch: 794037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 793999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0869		mg/L		87	85 - 115

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259105-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-307
Lab Sample ID: 500-259105-1
Date Collected: 10/24/24 11:50
Matrix: Water
Date Received: 10/25/24 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	793568	W1T	EET CHI	11/01/24 23:59
Dissolved	Prep	3510C			792831	AC	EET CHI	10/29/24 09:09
Dissolved	Analysis	8270E		1	792824	H7CM	EET CHI	10/29/24 18:58
Total/NA	Prep	3510C			793202	LG	EET CHI	10/31/24 07:14
Total/NA	Analysis	8270E		1	793243	JSB	EET CHI	10/31/24 21:14
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8081B		1	792912	H7CM	EET CHI	10/29/24 19:07
Total/NA	Prep	3510C			792539	OP	EET CHI	10/28/24 07:14
Total/NA	Analysis	8082A		1	792879	H7CM	EET CHI	10/29/24 15:37
Dissolved	Prep	3005A			793348	S1Z	EET CHI	10/31/24 15:23 - 10/31/24 21:23 [1]
Dissolved	Analysis	6020B		1	793772	RN	EET CHI	11/04/24 13:54
Total Recoverable	Prep	3005A			793348	S1Z	EET CHI	10/31/24 15:23 - 10/31/24 21:23 [1]
Total Recoverable	Analysis	6020B		1	793772	RN	EET CHI	11/04/24 13:51
Dissolved	Prep	7470A			792871	MJG	EET CHI	10/29/24 10:40 - 10/29/24 12:40 [1]
Dissolved	Analysis	7470A		1	793156	MJG	EET CHI	10/30/24 09:08
Total/NA	Prep	7470A			792871	MJG	EET CHI	10/29/24 10:40 - 10/29/24 12:40 [1]
Total/NA	Analysis	7470A		1	793156	MJG	EET CHI	10/30/24 09:06
Total/NA	Prep	9010C			793999	AC	EET CHI	11/05/24 14:40 - 11/05/24 15:10 [1]
Total/NA	Analysis	9012B		1	794037	AC	EET CHI	11/05/24 17:31

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-259105-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Water	Polychlorinated biphenyls, Total
8260D		Water	1,3-Dichloropropene, Total

Chain of Custody Record 734832

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact:	Date:	COC No: 1 of 1 COCs
Company Name: Pioneer	Tel/Email: Mhartsock@pioneerusa.com	Lab Contact:	Carrier:	Sampler
Address: 2703 W 81st St	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip: Chicago, IL, 60652	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below: Total			Lab Sampling
Fax	☐ 2 weeks			
Project Name: 50855 Lake Shore Drive	☐ 1 week			Job / SDG No: 500-259105
Site	☐ 2 days			
PO# 24-0124-103	☐ 1 day			

500-259105 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL	Dissolved Target Metals	Dissolved PFAS	Sample Specific Notes
1 MW-307	10/24/24	1150	G	GW	11			X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

48 qt

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 2.9 Corr'd 2.1 | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	Pioneer	10/25/24 1115		EETA	10/25/24 1115
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	EETA 10/25/24	1225			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			Stephanie Hernandez	EETA	10/25/24 1225

Chain of Custody Record 734832

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsock	Site Contact:	Date:	COC No: 1 of 1 COCs
Company Name: Pioneer	Tel/Email: Mhartsock@pioneerusa.com	Lab Contact:	Carrier:	Sampler
Address: 2703 W 81st St	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip: Chicago, IL, 60652	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below: Total			Lab Sampling
Fax	☐ 2 weeks			
Project Name: 50803 Lake Shore Drive	☐ 1 week			Job / SDG No: 500-259105
Site	☐ 2 days			
PO# 24-0124-103	☐ 1 day			

500-259105 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL	Dissolved Target Metals	Dissolved PFAS	Sample Specific Notes
1 MW-307	10/24/24	1150	G	GW	11			X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

48 ct

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 2.9 Corr'd 2.1 | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	Pioneer	10/25/24 1115		EETA	10/25/24 1115
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	EETA 10/25/24	1225			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			Stephanie Hernandez	EETA	10/25/24 1225

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-259105-1

Login Number: 259105
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 12/17/2024 3:52:53 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-260898-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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12/17/2024 3:52:53 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-260898-1 — Eurofins Chicago

Job Narrative
500-260898-1

Receipt
The samples were received on 12/3/2024 12:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.7º C.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in 500-798181 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-798918 was outside the method criteria for the following analyte(s): bis(chloroisopropyl) ether. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-798918 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. (CCVIS 500-798918/2)

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: NMW-2 (500-260898-2). These results have been reported and qualified.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: NMW-2 (500-260898-2). Elevated reporting limits (RLs) are provided.

Method 8270E: The laboratory control sample (LCS) for preparation batch 500-798027 and analytical batch 500-798181 recovered outside control limits for several analytes, see QC sample results for detail.

The associated samples were re-extracted past hold-time with acceptable QC and concurring target results. The in-hold data have been reported.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-798027 and analytical batch 500-798181 recovered outside control limits for several analytes, see QC sample results for detail.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: NMW-2 — Lab Sample ID: 500-260898-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0053	*- *1	0.0040		mg/L	5		8270E	Total/NA
Chrysene	0.0016	*- *1	0.00079		mg/L	5		8270E	Total/NA
Naphthalene	0.0018		0.00081		mg/L	1		8270E	Dissolved

Client Sample ID: NMW-4 — Lab Sample ID: 500-260898-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.00093	*- *1	0.00013		mg/L	1		8270E	Total/NA
Benzo[a]pyrene	0.0014	*- *1	0.00016		mg/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.0022	*- *1	0.00016		mg/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	0.0022	*- *1	0.00082		mg/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.00071	*- *1	0.00016		mg/L	1		8270E	Total/NA
Chrysene	0.0013	*- *1	0.00016		mg/L	1		8270E	Total/NA
Dibenz(a,h)anthracene	0.00057	*- *1	0.00025		mg/L	1		8270E	Total/NA
Fluoranthene	0.0015	*- *1	0.00082		mg/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.0019	*- *1	0.00016		mg/L	1		8270E	Total/NA
Pyrene	0.0016	*- *1	0.00082		mg/L	1		8270E	Total/NA
Naphthalene	0.0066		0.00097		mg/L	1		8270E	Dissolved

Client Sample ID: SB80 (0-3) — Lab Sample ID: 500-260898-4

No Detections.

Client Sample ID: SB86 (0-3) — Lab Sample ID: 500-260898-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
1311	Toxicity Characteristic Leaching Procedure	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-260898-2	NMW-2	Water	12/02/24 12:39	12/03/24 12:50
500-260898-3	NMW-4	Water	12/02/24 13:30	12/03/24 12:50
500-260898-4	SB80 (0-3)	Solid	12/02/24 15:01	12/03/24 12:50
500-260898-5	SB86 (0-3)	Solid	12/02/24 15:33	12/03/24 12:50

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: NMW-2
Lab Sample ID: 500-260898-2
Date Collected: 12/02/24 12:39
Matrix: Water
Date Received: 12/03/24 12:50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0053**	***- *1**	0.0040		mg/L		12/04/24 12:27	12/11/24 20:34	5
Acenaphthylene	<0.0040	*1	0.0040		mg/L		12/04/24 12:27	12/11/24 20:34	5
Anthracene	<0.0040	*- *1	0.0040		mg/L		12/04/24 12:27	12/11/24 20:34	5
Benzo[a]anthracene	<0.00064	*- *1	0.00064		mg/L		12/04/24 12:27	12/11/24 20:34	5
Benzo[a]pyrene	<0.00079	*- *1	0.00079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Benzo[b]fluoranthene	<0.00079	*- *1	0.00079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Benzo[g,h,i]perylene	<0.0040	*- *1	0.0040		mg/L		12/04/24 12:27	12/11/24 20:34	5
Benzo[k]fluoranthene	<0.00079	*- *1	0.00079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Chrysene	**0.0016**	***- *1**	0.00079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Dibenz(a,h)anthracene	<0.0012	*- *1	0.0012		mg/L		12/04/24 12:27	12/11/24 20:34	5
Fluoranthene	<0.0040	*- *1	0.0040		mg/L		12/04/24 12:27	12/11/24 20:34	5
Fluorene	<0.0040	*- *1	0.0040		mg/L		12/04/24 12:27	12/11/24 20:34	5
Indeno[1,2,3-cd]pyrene	<0.00079	*- *1	0.00079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Naphthalene	<0.0040	*1	0.0040		mg/L		12/04/24 12:27	12/11/24 20:34	5
Phenanthrene	<0.0040	*- *1	0.0040		mg/L		12/04/24 12:27	12/11/24 20:34	5
Pyrene	<0.0040	*- *1	0.0040		mg/L		12/04/24 12:27	12/11/24 20:34	5
1,2,4-Trichlorobenzene	<0.0079	*1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
1,2-Dichlorobenzene	<0.0079	*1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
1,3-Dichlorobenzene	<0.0079	*1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
1,4-Dichlorobenzene	<0.0079	*1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
2,4,5-Trichlorophenol	<0.040	*- *1	0.040		mg/L		12/04/24 12:27	12/11/24 20:34	5
2,4,6-Trichlorophenol	<0.020	*- *1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5
2,4-Dichlorophenol	<0.040	*- *1	0.040		mg/L		12/04/24 12:27	12/11/24 20:34	5
2,4-Dimethylphenol	<0.040	*- *1	0.040		mg/L		12/04/24 12:27	12/11/24 20:34	5
2,4-Dinitrophenol	<0.079	*1	0.079		mg/L		12/04/24 12:27	12/11/24 20:34	5
2,4-Dinitrotoluene	<0.0040	*- *1	0.0040		mg/L		12/04/24 12:27	12/11/24 20:34	5
2,6-Dinitrotoluene	<0.0040	*- *1	0.0040		mg/L		12/04/24 12:27	12/11/24 20:34	5
2-Chloronaphthalene	<0.0079	*1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
2-Chlorophenol	<0.020	*- *1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5
2-Methylnaphthalene	<0.0079	*1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
2-Methylphenol	<0.0079	*- *1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
2-Nitroaniline	<0.020	*- *1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5
2-Nitrophenol	<0.040	*- *1	0.040		mg/L		12/04/24 12:27	12/11/24 20:34	5
3,3'-Dichlorobenzidine	<0.020	*- *1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5
3 & 4 Methylphenol	<0.0079	*- *1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
3-Nitroaniline	<0.040		0.040		mg/L		12/04/24 12:27	12/11/24 20:34	5
4,6-Dinitro-2-methylphenol	<0.079	*- *1	0.079		mg/L		12/04/24 12:27	12/11/24 20:34	5
4-Bromophenyl phenyl ether	<0.020	*- *1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5
4-Chloro-3-methylphenol	<0.040	*- *1	0.040		mg/L		12/04/24 12:27	12/11/24 20:34	5
4-Chloroaniline	<0.040		0.040		mg/L		12/04/24 12:27	12/11/24 20:34	5
4-Chlorophenyl phenyl ether	<0.020	*- *1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5
4-Nitroaniline	<0.040	*1	0.040		mg/L		12/04/24 12:27	12/11/24 20:34	5
4-Nitrophenol	<0.079		0.079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Bis(2-chloroethoxy)methane	<0.0079	*- *1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Bis(2-chloroethyl)ether	<0.0079	*- *1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
bis(chloroisopropyl) ether	<0.0079	*- *1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Bis(2-ethylhexyl) phthalate	<0.040	*- *1	0.040		mg/L		12/04/24 12:27	12/11/24 20:34	5
Butyl benzyl phthalate	<0.0079	*- *1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Carbazole	<0.020	*- *1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5

Client Sample ID: NMW-2
Date Collected: 12/02/24 12:39
Date Received: 12/03/24 12:50

Lab Sample ID: 500-260898-2
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<0.0079	*- *1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Diethyl phthalate	<0.020	*- *1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5
Dimethyl phthalate	<0.020	*- *1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5
Di-n-butyl phthalate	<0.020	*- *1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5
Di-n-octyl phthalate	<0.040	*- *1	0.040		mg/L		12/04/24 12:27	12/11/24 20:34	5
Hexachlorobenzene	<0.0020	*- *1	0.0020		mg/L		12/04/24 12:27	12/11/24 20:34	5
Hexachlorobutadiene	<0.020	*1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5
Hexachlorocyclopentadiene	<0.079	*1	0.079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Hexachloroethane	<0.020	*1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5
Isophorone	<0.0079	*- *1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Nitrobenzene	<0.0040	*- *1	0.0040		mg/L		12/04/24 12:27	12/11/24 20:34	5
N-Nitrosodi-n-propylamine	<0.0020	*- *1	0.0020		mg/L		12/04/24 12:27	12/11/24 20:34	5
N-Nitrosodiphenylamine	<0.0079	*- *1	0.0079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Pentachlorophenol	<0.079	*- *1	0.079		mg/L		12/04/24 12:27	12/11/24 20:34	5
Phenol	<0.020	*- *1	0.020		mg/L		12/04/24 12:27	12/11/24 20:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*171*	*S1+*	*40 - 145*	*12/04/24 12:27*	*12/11/24 20:34*	*5*
2-Fluorobiphenyl (Surr)	*122*	*S1+*	*34 - 110*	*12/04/24 12:27*	*12/11/24 20:34*	*5*
2-Fluorophenol (Surr)	*54*		*27 - 110*	*12/04/24 12:27*	*12/11/24 20:34*	*5*
Nitrobenzene-d5 (Surr)	*97*		*36 - 120*	*12/04/24 12:27*	*12/11/24 20:34*	*5*
Phenol-d5 (Surr)	*44*		*20 - 110*	*12/04/24 12:27*	*12/11/24 20:34*	*5*
Terphenyl-d14 (Surr)	*140*		*40 - 145*	*12/04/24 12:27*	*12/11/24 20:34*	*5*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00081		0.00081		mg/L		12/06/24 07:32	12/06/24 16:27	1
Acenaphthylene	<0.00081		0.00081		mg/L		12/06/24 07:32	12/06/24 16:27	1
Anthracene	<0.00081		0.00081		mg/L		12/06/24 07:32	12/06/24 16:27	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/06/24 07:32	12/06/24 16:27	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/06/24 07:32	12/06/24 16:27	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/06/24 07:32	12/06/24 16:27	1
Benzo[g,h,i]perylene	<0.00081		0.00081		mg/L		12/06/24 07:32	12/06/24 16:27	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/06/24 07:32	12/06/24 16:27	1
Chrysene	<0.00016		0.00016		mg/L		12/06/24 07:32	12/06/24 16:27	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/06/24 07:32	12/06/24 16:27	1
Fluoranthene	<0.00081		0.00081		mg/L		12/06/24 07:32	12/06/24 16:27	1
Fluorene	<0.00081		0.00081		mg/L		12/06/24 07:32	12/06/24 16:27	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/06/24 07:32	12/06/24 16:27	1
Naphthalene	**0.0018**		0.00081		mg/L		12/06/24 07:32	12/06/24 16:27	1
Phenanthrene	<0.00081		0.00081		mg/L		12/06/24 07:32	12/06/24 16:27	1
Pyrene	<0.00081		0.00081		mg/L		12/06/24 07:32	12/06/24 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*73*		*36 - 120*	*12/06/24 07:32*	*12/06/24 16:27*	*1*
2-Fluorobiphenyl (Surr)	*70*		*34 - 110*	*12/06/24 07:32*	*12/06/24 16:27*	*1*
Terphenyl-d14 (Surr)	*91*		*40 - 145*	*12/06/24 07:32*	*12/06/24 16:27*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: NMW-4
Lab Sample ID: 500-260898-3
Date Collected: 12/02/24 13:30
Matrix: Water
Date Received: 12/03/24 12:50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00082	*- *1	0.00082		mg/L		12/04/24 12:27	12/11/24 20:56	1
Acenaphthylene	<0.00082	*1	0.00082		mg/L		12/04/24 12:27	12/11/24 20:56	1
Anthracene	<0.00082	*- *1	0.00082		mg/L		12/04/24 12:27	12/11/24 20:56	1
Benzo[a]anthracene	**0.00093**	***- *1**	0.00013		mg/L		12/04/24 12:27	12/11/24 20:56	1
Benzo[a]pyrene	**0.0014**	***- *1**	0.00016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Benzo[b]fluoranthene	**0.0022**	***- *1**	0.00016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Benzo[g,h,i]perylene	**0.0022**	***- *1**	0.00082		mg/L		12/04/24 12:27	12/11/24 20:56	1
Benzo[k]fluoranthene	**0.00071**	***- *1**	0.00016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Chrysene	**0.0013**	***- *1**	0.00016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Dibenz(a,h)anthracene	**0.00057**	***- *1**	0.00025		mg/L		12/04/24 12:27	12/11/24 20:56	1
Fluoranthene	**0.0015**	***- *1**	0.00082		mg/L		12/04/24 12:27	12/11/24 20:56	1
Fluorene	<0.00082	*- *1	0.00082		mg/L		12/04/24 12:27	12/11/24 20:56	1
Indeno[1,2,3-cd]pyrene	**0.0019**	***- *1**	0.00016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Naphthalene	<0.00082	*1	0.00082		mg/L		12/04/24 12:27	12/11/24 20:56	1
Phenanthrene	<0.00082	*- *1	0.00082		mg/L		12/04/24 12:27	12/11/24 20:56	1
Pyrene	**0.0016**	***- *1**	0.00082		mg/L		12/04/24 12:27	12/11/24 20:56	1
1,2,4-Trichlorobenzene	<0.0016	*1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
1,2-Dichlorobenzene	<0.0016	*1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
1,3-Dichlorobenzene	<0.0016	*1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
1,4-Dichlorobenzene	<0.0016	*1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
2,4,5-Trichlorophenol	<0.0082	*- *1	0.0082		mg/L		12/04/24 12:27	12/11/24 20:56	1
2,4,6-Trichlorophenol	<0.0041	*- *1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1
2,4-Dichlorophenol	<0.0082	*- *1	0.0082		mg/L		12/04/24 12:27	12/11/24 20:56	1
2,4-Dimethylphenol	<0.0082	*- *1	0.0082		mg/L		12/04/24 12:27	12/11/24 20:56	1
2,4-Dinitrophenol	<0.016	*1	0.016		mg/L		12/04/24 12:27	12/11/24 20:56	1
2,4-Dinitrotoluene	<0.00082	*- *1	0.00082		mg/L		12/04/24 12:27	12/11/24 20:56	1
2,6-Dinitrotoluene	<0.00082	*- *1	0.00082		mg/L		12/04/24 12:27	12/11/24 20:56	1
2-Chloronaphthalene	<0.0016	*1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
2-Chlorophenol	<0.0041	*- *1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1
2-Methylnaphthalene	<0.0016	*1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
2-Methylphenol	<0.0016	*- *1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
2-Nitroaniline	<0.0041	*- *1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1
2-Nitrophenol	<0.0082	*- *1	0.0082		mg/L		12/04/24 12:27	12/11/24 20:56	1
3,3'-Dichlorobenzidine	<0.0041	*- *1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1
3 & 4 Methylphenol	<0.0016	*- *1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
3-Nitroaniline	<0.0082		0.0082		mg/L		12/04/24 12:27	12/11/24 20:56	1
4,6-Dinitro-2-methylphenol	<0.016	*- *1	0.016		mg/L		12/04/24 12:27	12/11/24 20:56	1
4-Bromophenyl phenyl ether	<0.0041	*- *1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1
4-Chloro-3-methylphenol	<0.0082	*- *1	0.0082		mg/L		12/04/24 12:27	12/11/24 20:56	1
4-Chloroaniline	<0.0082		0.0082		mg/L		12/04/24 12:27	12/11/24 20:56	1
4-Chlorophenyl phenyl ether	<0.0041	*- *1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1
4-Nitroaniline	<0.0082	*1	0.0082		mg/L		12/04/24 12:27	12/11/24 20:56	1
4-Nitrophenol	<0.016		0.016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Bis(2-chloroethoxy)methane	<0.0016	*- *1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Bis(2-chloroethyl)ether	<0.0016	*- *1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
bis(chloroisopropyl) ether	<0.0016	*- *1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Bis(2-ethylhexyl) phthalate	<0.0082	*- *1	0.0082		mg/L		12/04/24 12:27	12/11/24 20:56	1
Butyl benzyl phthalate	<0.0016	*- *1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Carbazole	<0.0041	*- *1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1

Client Sample ID: NMW-4
Date Collected: 12/02/24 13:30
Date Received: 12/03/24 12:50

Lab Sample ID: 500-260898-3
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<0.0016	*- *1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Diethyl phthalate	<0.0041	*- *1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1
Dimethyl phthalate	<0.0041	*- *1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1
Di-n-butyl phthalate	<0.0041	*- *1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1
Di-n-octyl phthalate	<0.0082	*- *1	0.0082		mg/L		12/04/24 12:27	12/11/24 20:56	1
Hexachlorobenzene	<0.00041	*- *1	0.00041		mg/L		12/04/24 12:27	12/11/24 20:56	1
Hexachlorobutadiene	<0.0041	*1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1
Hexachlorocyclopentadiene	<0.016	*1	0.016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Hexachloroethane	<0.0041	*1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1
Isophorone	<0.0016	*- *1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Nitrobenzene	<0.00082	*- *1	0.00082		mg/L		12/04/24 12:27	12/11/24 20:56	1
N-Nitrosodi-n-propylamine	<0.00041	*- *1	0.00041		mg/L		12/04/24 12:27	12/11/24 20:56	1
N-Nitrosodiphenylamine	<0.0016	*- *1	0.0016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Pentachlorophenol	<0.016	*- *1	0.016		mg/L		12/04/24 12:27	12/11/24 20:56	1
Phenol	<0.0041	*- *1	0.0041		mg/L		12/04/24 12:27	12/11/24 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*40 - 145*	*12/04/24 12:27*	*12/11/24 20:56*	*1*
2-Fluorobiphenyl (Surr)	*61*		*34 - 110*	*12/04/24 12:27*	*12/11/24 20:56*	*1*
2-Fluorophenol (Surr)	*38*		*27 - 110*	*12/04/24 12:27*	*12/11/24 20:56*	*1*
Nitrobenzene-d5 (Surr)	*57*		*36 - 120*	*12/04/24 12:27*	*12/11/24 20:56*	*1*
Phenol-d5 (Surr)	*28*		*20 - 110*	*12/04/24 12:27*	*12/11/24 20:56*	*1*
Terphenyl-d14 (Surr)	*75*		*40 - 145*	*12/04/24 12:27*	*12/11/24 20:56*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00097		0.00097		mg/L		12/06/24 07:32	12/06/24 16:49	1
Acenaphthylene	<0.00097		0.00097		mg/L		12/06/24 07:32	12/06/24 16:49	1
Anthracene	<0.00097		0.00097		mg/L		12/06/24 07:32	12/06/24 16:49	1
Benzo[a]anthracene	<0.00016		0.00016		mg/L		12/06/24 07:32	12/06/24 16:49	1
Benzo[a]pyrene	<0.00019		0.00019		mg/L		12/06/24 07:32	12/06/24 16:49	1
Benzo[b]fluoranthene	<0.00019		0.00019		mg/L		12/06/24 07:32	12/06/24 16:49	1
Benzo[g,h,i]perylene	<0.00097		0.00097		mg/L		12/06/24 07:32	12/06/24 16:49	1
Benzo[k]fluoranthene	<0.00019		0.00019		mg/L		12/06/24 07:32	12/06/24 16:49	1
Chrysene	<0.00019		0.00019		mg/L		12/06/24 07:32	12/06/24 16:49	1
Dibenz(a,h)anthracene	<0.00029		0.00029		mg/L		12/06/24 07:32	12/06/24 16:49	1
Fluoranthene	<0.00097		0.00097		mg/L		12/06/24 07:32	12/06/24 16:49	1
Fluorene	<0.00097		0.00097		mg/L		12/06/24 07:32	12/06/24 16:49	1
Indeno[1,2,3-cd]pyrene	<0.00019		0.00019		mg/L		12/06/24 07:32	12/06/24 16:49	1
Naphthalene	**0.0066**		0.00097		mg/L		12/06/24 07:32	12/06/24 16:49	1
Phenanthrene	<0.00097		0.00097		mg/L		12/06/24 07:32	12/06/24 16:49	1
Pyrene	<0.00097		0.00097		mg/L		12/06/24 07:32	12/06/24 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*	*12/06/24 07:32*	*12/06/24 16:49*	*1*
2-Fluorobiphenyl (Surr)	*65*		*34 - 110*	*12/06/24 07:32*	*12/06/24 16:49*	*1*
Terphenyl-d14 (Surr)	*91*		*40 - 145*	*12/06/24 07:32*	*12/06/24 16:49*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB80 (0-3)
Lab Sample ID: 500-260898-4
Date Collected: 12/02/24 15:01
Matrix: Solid
Date Received: 12/03/24 12:50

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/13/24 11:05	12/16/24 10:14	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB86 (0-3)
Lab Sample ID: 500-260898-5
Date Collected: 12/02/24 15:33
Matrix: Solid
Date Received: 12/03/24 12:50

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/13/24 11:05	12/16/24 10:16	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS Semi VOA

Prep Batch: 798027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260898-2	NMW-2	Total/NA	Water	3510C	
500-260898-3	NMW-4	Total/NA	Water	3510C	
MB 500-798027/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-798027/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-798027/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 798181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-798027/1-A	Method Blank	Total/NA	Water	8270E	798027
LCS 500-798027/2-A	Lab Control Sample	Total/NA	Water	8270E	798027
LCSD 500-798027/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	798027

Prep Batch: 798310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260898-2	NMW-2	Dissolved	Water	3510C	
500-260898-3	NMW-4	Dissolved	Water	3510C	
MB 500-798310/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-798310/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-798310/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 798401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260898-2	NMW-2	Dissolved	Water	8270E	798310
500-260898-3	NMW-4	Dissolved	Water	8270E	798310
MB 500-798310/1-A	Method Blank	Total/NA	Water	8270E	798310
LCS 500-798310/2-A	Lab Control Sample	Total/NA	Water	8270E	798310
LCSD 500-798310/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	798310

Analysis Batch: 798918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260898-2	NMW-2	Total/NA	Water	8270E	798027
500-260898-3	NMW-4	Total/NA	Water	8270E	798027

Metals

Leach Batch: 798556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260898-4	SB80 (0-3)	TCLP	Solid	1311	
500-260898-5	SB86 (0-3)	TCLP	Solid	1311	
LB 500-798556/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 799338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260898-4	SB80 (0-3)	TCLP	Solid	7470A	798556
500-260898-5	SB86 (0-3)	TCLP	Solid	7470A	798556
LB 500-798556/1-C	Method Blank	TCLP	Solid	7470A	798556
MB 500-799338/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-799338/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Metals

Analysis Batch: 799557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260898-4	SB80 (0-3)	TCLP	Solid	7470A	799338
500-260898-5	SB86 (0-3)	TCLP	Solid	7470A	799338
LB 500-798556/1-C	Method Blank	TCLP	Solid	7470A	799338
MB 500-799338/12-A	Method Blank	Total/NA	Solid	7470A	799338
LCS 500-799338/14-A	Lab Control Sample	Total/NA	Solid	7470A	799338

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-1
Project/Site: 8080 District (24-0124-103)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-110)	(40-145)
500-260898-2	NMW-2	171 S1+	122 S1+	54	97	44	140
500-260898-3	NMW-4	86	61	38	57	28	75
LCS 500-798027/2-A	Lab Control Sample	60	46	35	42	26	60
LCS 500-798310/2-A	Lab Control Sample		69		74		84
LCSD 500-798027/3-A	Lab Control Sample Dup	84	69	47	66	32	81
LCSD 500-798310/3-A	Lab Control Sample Dup		79		84		92
MB 500-798027/1-A	Method Blank	79	67	42	62	29	79
MB 500-798310/1-A	Method Blank		73		82		90

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(36-120)	(34-110)	(40-145)
500-260898-2	NMW-2	73	70	91
500-260898-3	NMW-4	74	65	91

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-798027/1-A
Matrix: Water
Analysis Batch: 798181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		12/04/24 12:27	12/05/24 17:27	1
Acenaphthylene	<0.00080		0.00080		mg/L		12/04/24 12:27	12/05/24 17:27	1
Anthracene	<0.00080		0.00080		mg/L		12/04/24 12:27	12/05/24 17:27	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/04/24 12:27	12/05/24 17:27	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		12/04/24 12:27	12/05/24 17:27	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Chrysene	<0.00016		0.00016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/04/24 12:27	12/05/24 17:27	1
Fluoranthene	<0.00080		0.00080		mg/L		12/04/24 12:27	12/05/24 17:27	1
Fluorene	<0.00080		0.00080		mg/L		12/04/24 12:27	12/05/24 17:27	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Naphthalene	<0.00080		0.00080		mg/L		12/04/24 12:27	12/05/24 17:27	1
Phenanthrene	<0.00080		0.00080		mg/L		12/04/24 12:27	12/05/24 17:27	1
Pyrene	<0.00080		0.00080		mg/L		12/04/24 12:27	12/05/24 17:27	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
2,4,5-Trichlorophenol	<0.0080		0.0080		mg/L		12/04/24 12:27	12/05/24 17:27	1
2,4,6-Trichlorophenol	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1
2,4-Dichlorophenol	<0.0080		0.0080		mg/L		12/04/24 12:27	12/05/24 17:27	1
2,4-Dimethylphenol	<0.0080		0.0080		mg/L		12/04/24 12:27	12/05/24 17:27	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		12/04/24 12:27	12/05/24 17:27	1
2,4-Dinitrotoluene	<0.00080		0.00080		mg/L		12/04/24 12:27	12/05/24 17:27	1
2,6-Dinitrotoluene	<0.00080		0.00080		mg/L		12/04/24 12:27	12/05/24 17:27	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
2-Chlorophenol	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
2-Methylphenol	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
2-Nitroaniline	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1
2-Nitrophenol	<0.0080		0.0080		mg/L		12/04/24 12:27	12/05/24 17:27	1
3,3'-Dichlorobenzidine	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1
3 & 4 Methylphenol	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
3-Nitroaniline	<0.0080		0.0080		mg/L		12/04/24 12:27	12/05/24 17:27	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		12/04/24 12:27	12/05/24 17:27	1
4-Bromophenyl phenyl ether	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1
4-Chloro-3-methylphenol	<0.0080		0.0080		mg/L		12/04/24 12:27	12/05/24 17:27	1
4-Chloroaniline	<0.0080		0.0080		mg/L		12/04/24 12:27	12/05/24 17:27	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1
4-Nitroaniline	<0.0080		0.0080		mg/L		12/04/24 12:27	12/05/24 17:27	1
4-Nitrophenol	<0.016		0.016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080		mg/L		12/04/24 12:27	12/05/24 17:27	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-798027/1-A
Matrix: Water
Analysis Batch: 798181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1
Dibenzofuran	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Diethyl phthalate	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1
Dimethyl phthalate	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1
Di-n-butyl phthalate	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1
Di-n-octyl phthalate	<0.0080		0.0080		mg/L		12/04/24 12:27	12/05/24 17:27	1
Hexachlorobenzene	<0.00040		0.00040		mg/L		12/04/24 12:27	12/05/24 17:27	1
Hexachlorobutadiene	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Hexachloroethane	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1
Isophorone	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Nitrobenzene	<0.00080		0.00080		mg/L		12/04/24 12:27	12/05/24 17:27	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040		mg/L		12/04/24 12:27	12/05/24 17:27	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Pentachlorophenol	<0.016		0.016		mg/L		12/04/24 12:27	12/05/24 17:27	1
Phenol	<0.0040		0.0040		mg/L		12/04/24 12:27	12/05/24 17:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*40 - 145*	*12/04/24 12:27*	*12/05/24 17:27*	*1*
2-Fluorobiphenyl (Surr)	*67*		*34 - 110*	*12/04/24 12:27*	*12/05/24 17:27*	*1*
2-Fluorophenol (Surr)	*42*		*27 - 110*	*12/04/24 12:27*	*12/05/24 17:27*	*1*
Nitrobenzene-d5 (Surr)	*62*		*36 - 120*	*12/04/24 12:27*	*12/05/24 17:27*	*1*
Phenol-d5 (Surr)	*29*		*20 - 110*	*12/04/24 12:27*	*12/05/24 17:27*	*1*
Terphenyl-d14 (Surr)	*79*		*40 - 145*	*12/04/24 12:27*	*12/05/24 17:27*	*1*

Lab Sample ID: LCS 500-798027/2-A
Matrix: Water
Analysis Batch: 798181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0179	*-	mg/L		45	46 - 110
Acenaphthylene	0.0400	0.0187		mg/L		47	47 - 113
Anthracene	0.0400	0.0199	*-	mg/L		50	67 - 118
Benzo[a]anthracene	0.0400	0.0186	*-	mg/L		47	70 - 126
Benzo[a]pyrene	0.0400	0.0217	*-	mg/L		54	70 - 135
Benzo[b]fluoranthene	0.0400	0.0213	*-	mg/L		53	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0224	*-	mg/L		56	70 - 135
Benzo[k]fluoranthene	0.0400	0.0211	*-	mg/L		53	70 - 133
Chrysene	0.0400	0.0200	*-	mg/L		50	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0223	*-	mg/L		56	70 - 134
Fluoranthene	0.0400	0.0202	*-	mg/L		51	68 - 126
Fluorene	0.0400	0.0187	*-	mg/L		47	53 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.0220	*-	mg/L		55	65 - 133
Naphthalene	0.0400	0.0155		mg/L		39	36 - 110
Phenanthrene	0.0400	0.0193	*-	mg/L		48	65 - 120
Pyrene	0.0400	0.0213	*-	mg/L		53	70 - 126
1,2,4-Trichlorobenzene	0.0400	0.0140		mg/L		35	26 - 110
1,2-Dichlorobenzene	0.0400	0.0121		mg/L		30	26 - 110

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-260898-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-798027/2-A
Matrix: Water
Analysis Batch: 798181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	0.0400	0.0117		mg/L		29	22 - 110
1,4-Dichlorobenzene	0.0400	0.0114		mg/L		28	23 - 110
2,4,5-Trichlorophenol	0.0400	0.0192	*-	mg/L		48	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0189	*-	mg/L		47	62 - 121
2,4-Dichlorophenol	0.0400	0.0184	*-	mg/L		46	58 - 120
2,4-Dimethylphenol	0.0400	0.0201	*-	mg/L		50	51 - 115
2,4-Dinitrophenol	0.0800	0.0314		mg/L		39	37 - 130
2,4-Dinitrotoluene	0.0400	0.0207	*-	mg/L		52	63 - 129
2,6-Dinitrotoluene	0.0400	0.0209	*-	mg/L		52	63 - 129
2-Chloronaphthalene	0.0400	0.0170		mg/L		42	39 - 110
2-Chlorophenol	0.0400	0.0170	*-	mg/L		43	59 - 110
2-Methylnaphthalene	0.0400	0.0148		mg/L		37	34 - 110
2-Methylphenol	0.0400	0.0171	*-	mg/L		43	53 - 115
2-Nitroaniline	0.0400	0.0172	*-	mg/L		43	59 - 138
2-Nitrophenol	0.0400	0.0174	*-	mg/L		43	59 - 115
3,3'-Dichlorobenzidine	0.0400	0.0188	*-	mg/L		47	60 - 132
3 & 4 Methylphenol	0.0400	0.0165	*-	mg/L		41	50 - 116
3-Nitroaniline	0.0400	0.0223		mg/L		56	47 - 123
4,6-Dinitro-2-methylphenol	0.0800	0.0377	*-	mg/L		47	50 - 129
4-Bromophenyl phenyl ether	0.0400	0.0198	*-	mg/L		49	58 - 120
4-Chloro-3-methylphenol	0.0400	0.0182	*-	mg/L		46	64 - 128
4-Chloroaniline	0.0400	0.0260		mg/L		65	35 - 128
4-Chlorophenyl phenyl ether	0.0400	0.0188	*-	mg/L		47	48 - 116
4-Nitroaniline	0.0400	0.0198		mg/L		50	35 - 110
4-Nitrophenol	0.0800	0.0227		mg/L		28	20 - 110
Bis(2-chloroethoxy)methane	0.0400	0.0175	*-	mg/L		44	59 - 118
Bis(2-chloroethyl)ether	0.0400	0.0160	*-	mg/L		40	54 - 112
bis(chloroisopropyl) ether	0.0400	0.0132	*-	mg/L		33	38 - 140
Bis(2-ethylhexyl) phthalate	0.0400	0.0203	*-	mg/L		51	69 - 136
Butyl benzyl phthalate	0.0400	0.0207	*-	mg/L		52	68 - 135
Carbazole	0.0400	0.0193	*-	mg/L		48	61 - 145
Dibenzofuran	0.0400	0.0182	*-	mg/L		46	51 - 110
Diethyl phthalate	0.0400	0.0196	*-	mg/L		49	62 - 123
Dimethyl phthalate	0.0400	0.0194	*-	mg/L		49	63 - 122
Di-n-butyl phthalate	0.0400	0.0199	*-	mg/L		50	69 - 129
Di-n-octyl phthalate	0.0400	0.0181	*-	mg/L		45	68 - 137
Hexachlorobenzene	0.0400	0.0204	*-	mg/L		51	61 - 126
Hexachlorobutadiene	0.0400	0.0126		mg/L		31	20 - 100
Hexachlorocyclopentadiene	0.0400	0.0132	J	mg/L		33	10 - 105
Hexachloroethane	0.0400	0.0100		mg/L		25	20 - 100
Isophorone	0.0400	0.0174	*-	mg/L		44	54 - 127
Nitrobenzene	0.0400	0.0162	*-	mg/L		40	54 - 121
N-Nitrosodi-n-propylamine	0.0400	0.0156	*-	mg/L		39	47 - 131
N-Nitrosodiphenylamine	0.0400	0.0189	*-	mg/L		47	66 - 120
Pentachlorophenol	0.0800	0.0300	*-	mg/L		38	42 - 148
Phenol	0.0400	0.0102	*-	mg/L		25	33 - 100

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-798027/2-A
Matrix: Water
Analysis Batch: 798181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798027

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*60*		*40 - 145*
2-Fluorobiphenyl (Surr)	*46*		*34 - 110*
2-Fluorophenol (Surr)	*35*		*27 - 110*
Nitrobenzene-d5 (Surr)	*42*		*36 - 120*
Phenol-d5 (Surr)	*26*		*20 - 110*
Terphenyl-d14 (Surr)	*60*		*40 - 145*

Lab Sample ID: LCSD 500-798027/3-A
Matrix: Water
Analysis Batch: 798181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 798027

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			0.0400	0.0278	*1	mg/L		70	46 - 110	43	20
Acenaphthylene			0.0400	0.0297	*1	mg/L		74	47 - 113	46	20
Anthracene			0.0400	0.0324	*1	mg/L		81	67 - 118	48	20
Benzo[a]anthracene			0.0400	0.0316	*1	mg/L		79	70 - 126	52	20
Benzo[a]pyrene			0.0400	0.0364	*1	mg/L		91	70 - 135	51	20
Benzo[b]fluoranthene			0.0400	0.0349	*1	mg/L		87	69 - 136	48	20
Benzo[g,h,i]perylene			0.0400	0.0386	*1	mg/L		97	70 - 135	53	20
Benzo[k]fluoranthene			0.0400	0.0364	*1	mg/L		91	70 - 133	53	20
Chrysene			0.0400	0.0326	*1	mg/L		81	68 - 129	48	20
Dibenz(a,h)anthracene			0.0400	0.0386	*1	mg/L		96	70 - 134	54	20
Fluoranthene			0.0400	0.0318	*1	mg/L		80	68 - 126	45	20
Fluorene			0.0400	0.0303	*1	mg/L		76	53 - 120	47	20
Indeno[1,2,3-cd]pyrene			0.0400	0.0371	*1	mg/L		93	65 - 133	51	20
Naphthalene			0.0400	0.0247	*1	mg/L		62	36 - 110	46	20
Phenanthrene			0.0400	0.0314	*1	mg/L		78	65 - 120	48	20
Pyrene			0.0400	0.0347	*1	mg/L		87	70 - 126	48	20
1,2,4-Trichlorobenzene			0.0400	0.0212	*1	mg/L		53	26 - 110	41	20
1,2-Dichlorobenzene			0.0400	0.0181	*1	mg/L		45	26 - 110	39	20
1,3-Dichlorobenzene			0.0400	0.0171	*1	mg/L		43	22 - 110	37	20
1,4-Dichlorobenzene			0.0400	0.0173	*1	mg/L		43	23 - 110	41	20
2,4,5-Trichlorophenol			0.0400	0.0320	*1	mg/L		80	63 - 124	50	20
2,4,6-Trichlorophenol			0.0400	0.0316	*1	mg/L		79	62 - 121	51	20
2,4-Dichlorophenol			0.0400	0.0310	*1	mg/L		77	58 - 120	51	20
2,4-Dimethylphenol			0.0400	0.0324	*1	mg/L		81	51 - 115	47	20
2,4-Dinitrophenol			0.0800	0.0534	*1	mg/L		67	37 - 130	52	20
2,4-Dinitrotoluene			0.0400	0.0331	*1	mg/L		83	63 - 129	46	20
2,6-Dinitrotoluene			0.0400	0.0336	*1	mg/L		84	63 - 129	47	20
2-Chloronaphthalene			0.0400	0.0260	*1	mg/L		65	39 - 110	42	20
2-Chlorophenol			0.0400	0.0266	*1	mg/L		67	59 - 110	44	20
2-Methylnaphthalene			0.0400	0.0226	*1	mg/L		56	34 - 110	41	20
2-Methylphenol			0.0400	0.0255	*1	mg/L		64	53 - 115	40	20
2-Nitroaniline			0.0400	0.0275	*1	mg/L		69	59 - 138	46	20
2-Nitrophenol			0.0400	0.0298	*1	mg/L		75	59 - 115	53	20
3,3'-Dichlorobenzidine			0.0400	0.0323	*1	mg/L		81	60 - 132	53	20
3 & 4 Methylphenol			0.0400	0.0237	*1	mg/L		59	50 - 116	36	20
3-Nitroaniline			0.0400	0.0271		mg/L		68	47 - 123	19	20

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-798027/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 798181
Prep Batch: 798027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	0.0800	0.0610	*1	mg/L		76	50 - 129	47	20
4-Bromophenyl phenyl ether	0.0400	0.0317	*1	mg/L		79	58 - 120	46	20
4-Chloro-3-methylphenol	0.0400	0.0290	*1	mg/L		73	64 - 128	46	20
4-Chloroaniline	0.0400	0.0290		mg/L		73	35 - 128	11	20
4-Chlorophenyl phenyl ether	0.0400	0.0300	*1	mg/L		75	48 - 116	46	20
4-Nitroaniline	0.0400	0.0280	*1	mg/L		70	35 - 110	34	20
4-Nitrophenol	0.0800	0.0276		mg/L		35	20 - 110	20	20
Bis(2-chloroethoxy)methane	0.0400	0.0287	*1	mg/L		72	59 - 118	49	20
Bis(2-chloroethyl)ether	0.0400	0.0261	*1	mg/L		65	54 - 112	48	20
bis(chloroisopropyl) ether	0.0400	0.0215	*1	mg/L		54	38 - 140	48	20
Bis(2-ethylhexyl) phthalate	0.0400	0.0348	*1	mg/L		87	69 - 136	53	20
Butyl benzyl phthalate	0.0400	0.0361	*1	mg/L		90	68 - 135	54	20
Carbazole	0.0400	0.0311	*1	mg/L		78	61 - 145	47	20
Dibenzofuran	0.0400	0.0296	*1	mg/L		74	51 - 110	48	20
Diethyl phthalate	0.0400	0.0312	*1	mg/L		78	62 - 123	46	20
Dimethyl phthalate	0.0400	0.0315	*1	mg/L		79	63 - 122	47	20
Di-n-butyl phthalate	0.0400	0.0321	*1	mg/L		80	69 - 129	47	20
Di-n-octyl phthalate	0.0400	0.0295	*1	mg/L		74	68 - 137	48	20
Hexachlorobenzene	0.0400	0.0340	*1	mg/L		85	61 - 126	50	20
Hexachlorobutadiene	0.0400	0.0185	*1	mg/L		46	20 - 100	38	20
Hexachlorocyclopentadiene	0.0400	0.0192	*1	mg/L		48	10 - 105	37	20
Hexachloroethane	0.0400	0.0149	*1	mg/L		37	20 - 100	39	20
Isophorone	0.0400	0.0290	*1	mg/L		72	54 - 127	50	20
Nitrobenzene	0.0400	0.0271	*1	mg/L		68	54 - 121	51	20
N-Nitrosodi-n-propylamine	0.0400	0.0257	*1	mg/L		64	47 - 131	49	20
N-Nitrosodiphenylamine	0.0400	0.0317	*1	mg/L		79	66 - 120	51	20
Pentachlorophenol	0.0800	0.0521	*1	mg/L		65	42 - 148	54	20
Phenol	0.0400	0.0138	*1	mg/L		34	33 - 100	30	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*84*		*40 - 145*
2-Fluorobiphenyl (Surr)	*69*		*34 - 110*
2-Fluorophenol (Surr)	*47*		*27 - 110*
Nitrobenzene-d5 (Surr)	*66*		*36 - 120*
Phenol-d5 (Surr)	*32*		*20 - 110*
Terphenyl-d14 (Surr)	*81*		*40 - 145*

Lab Sample ID: MB 500-798310/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 798401
Prep Batch: 798310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		12/06/24 07:32	12/06/24 14:18	1
Acenaphthylene	<0.00080		0.00080		mg/L		12/06/24 07:32	12/06/24 14:18	1
Anthracene	<0.00080		0.00080		mg/L		12/06/24 07:32	12/06/24 14:18	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/06/24 07:32	12/06/24 14:18	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/06/24 07:32	12/06/24 14:18	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/06/24 07:32	12/06/24 14:18	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-798310/1-A
Matrix: Water
Analysis Batch: 798401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		12/06/24 07:32	12/06/24 14:18	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/06/24 07:32	12/06/24 14:18	1
Chrysene	<0.00016		0.00016		mg/L		12/06/24 07:32	12/06/24 14:18	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/06/24 07:32	12/06/24 14:18	1
Fluoranthene	<0.00080		0.00080		mg/L		12/06/24 07:32	12/06/24 14:18	1
Fluorene	<0.00080		0.00080		mg/L		12/06/24 07:32	12/06/24 14:18	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/06/24 07:32	12/06/24 14:18	1
Naphthalene	<0.00080		0.00080		mg/L		12/06/24 07:32	12/06/24 14:18	1
Phenanthrene	<0.00080		0.00080		mg/L		12/06/24 07:32	12/06/24 14:18	1
Pyrene	<0.00080		0.00080		mg/L		12/06/24 07:32	12/06/24 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*34 - 110*	*12/06/24 07:32*	*12/06/24 14:18*	*1*
Nitrobenzene-d5 (Surr)	*82*		*36 - 120*	*12/06/24 07:32*	*12/06/24 14:18*	*1*
Terphenyl-d14 (Surr)	*90*		*40 - 145*	*12/06/24 07:32*	*12/06/24 14:18*	*1*

Lab Sample ID: LCS 500-798310/2-A
Matrix: Water
Analysis Batch: 798401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0227		mg/L		57	46 - 110
Acenaphthylene	0.0400	0.0248		mg/L		62	47 - 113
Anthracene	0.0400	0.0278		mg/L		69	67 - 118
Benzo[a]anthracene	0.0400	0.0289		mg/L		72	70 - 126
Benzo[a]pyrene	0.0400	0.0335		mg/L		84	70 - 135
Benzo[b]fluoranthene	0.0400	0.0348		mg/L		87	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0372		mg/L		93	70 - 135
Benzo[k]fluoranthene	0.0400	0.0334		mg/L		84	70 - 133
Chrysene	0.0400	0.0305		mg/L		76	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0358		mg/L		89	70 - 134
Fluoranthene	0.0400	0.0292		mg/L		73	68 - 126
Fluorene	0.0400	0.0242		mg/L		61	53 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.0342		mg/L		86	65 - 133
Naphthalene	0.0400	0.0182		mg/L		45	36 - 110
Phenanthrene	0.0400	0.0271		mg/L		68	65 - 120
Pyrene	0.0400	0.0281		mg/L		70	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*69*		*34 - 110*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*
Terphenyl-d14 (Surr)	*84*		*40 - 145*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-798310/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 798401
Prep Batch: 798310

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			0.0400	0.0261		mg/L		65	46 - 110	14	20
Acenaphthylene			0.0400	0.0287		mg/L		72	47 - 113	14	20
Anthracene			0.0400	0.0311		mg/L		78	67 - 118	11	20
Benzo[a]anthracene			0.0400	0.0324		mg/L		81	70 - 126	11	20
Benzo[a]pyrene			0.0400	0.0374		mg/L		93	70 - 135	11	20
Benzo[b]fluoranthene			0.0400	0.0387		mg/L		97	69 - 136	11	20
Benzo[g,h,i]perylene			0.0400	0.0412		mg/L		103	70 - 135	10	20
Benzo[k]fluoranthene			0.0400	0.0384		mg/L		96	70 - 133	14	20
Chrysene			0.0400	0.0344		mg/L		86	68 - 129	12	20
Dibenz(a,h)anthracene			0.0400	0.0397		mg/L		99	70 - 134	10	20
Fluoranthene			0.0400	0.0335		mg/L		84	68 - 126	14	20
Fluorene			0.0400	0.0270		mg/L		67	53 - 120	11	20
Indeno[1,2,3-cd]pyrene			0.0400	0.0378		mg/L		95	65 - 133	10	20
Naphthalene			0.0400	0.0213		mg/L		53	36 - 110	16	20
Phenanthrene			0.0400	0.0303		mg/L		76	65 - 120	11	20
Pyrene			0.0400	0.0324		mg/L		81	70 - 126	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*34 - 110*
Nitrobenzene-d5 (Surr)	*84*		*36 - 120*
Terphenyl-d14 (Surr)	*92*		*40 - 145*

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-799338/12-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 799557
Prep Batch: 799338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/13/24 11:05	12/16/24 09:35	1

Lab Sample ID: LCS 500-799338/14-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 799557
Prep Batch: 799338

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00200	0.00199		mg/L		100	80 - 120		

Lab Sample ID: LB 500-798556/1-C
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: TCLP
Analysis Batch: 799557
Prep Batch: 799338

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/13/24 11:05	12/16/24 10:12	1

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-260898-1

Client Sample ID: NMW-2
Date Collected: 12/02/24 12:39
Date Received: 12/03/24 12:50

Lab Sample ID: 500-260898-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3510C			798310	LG	EET CHI	12/06/24 07:32
Dissolved	Analysis	8270E		1	798401	H7CM	EET CHI	12/06/24 16:27
Total/NA	Prep	3510C			798027	OP	EET CHI	12/04/24 12:27
Total/NA	Analysis	8270E		5	798918	H7CM	EET CHI	12/11/24 20:34

Client Sample ID: NMW-4
Date Collected: 12/02/24 13:30
Date Received: 12/03/24 12:50

Lab Sample ID: 500-260898-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3510C			798310	LG	EET CHI	12/06/24 07:32
Dissolved	Analysis	8270E		1	798401	H7CM	EET CHI	12/06/24 16:49
Total/NA	Prep	3510C			798027	OP	EET CHI	12/04/24 12:27
Total/NA	Analysis	8270E		1	798918	H7CM	EET CHI	12/11/24 20:56

Client Sample ID: SB80 (0-3)
Date Collected: 12/02/24 15:01
Date Received: 12/03/24 12:50

Lab Sample ID: 500-260898-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			798556	RJ	EET CHI	12/09/24 12:14 - 12/10/24 06:14 [1]
TCLP	Prep	7470A			799338	MJG	EET CHI	12/13/24 11:05 - 12/13/24 13:05 [1]
TCLP	Analysis	7470A		1	799557	MJG	EET CHI	12/16/24 10:14

Client Sample ID: SB86 (0-3)
Date Collected: 12/02/24 15:33
Date Received: 12/03/24 12:50

Lab Sample ID: 500-260898-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			798556	RJ	EET CHI	12/09/24 12:14 - 12/10/24 06:14 [1]
TCLP	Prep	7470A			799338	MJG	EET CHI	12/13/24 11:05 - 12/13/24 13:05 [1]
TCLP	Analysis	7470A		1	799557	MJG	EET CHI	12/16/24 10:16

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-260898-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

Chain of Custody Record 734819

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: JAKE HARTSELL	Site Contact	Date:	COC No: 1 of 1 COCs
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier:	Sampler:
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
Phone	TAT if different from Below			Lab Sampling
Fax	☐ 2 weeks 10 DAY			
Project Name: 8080 S LAKE STONE Dr	☐ 1 week * 5 DAY FOR SB113			Job / SDG No: 500-260898
Site	☐ 2 days			
P O #	☐ 1 day			

500-260898 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TOX	SVOCs/PNAs	SVOCs/PNAs FILTERED	TCLP METALS	Sample Specific Notes
1 SB113 (10-12.5)	12/2/24	958	G	SO	2			X				5 DAY
2 NMW-2		1139		GW	4				X	X		
3 NMW-4		130		GW	4				X	X		
4 SB80 (0-3)		301		SO	1						X	
5 SB86 (0-3)		333		SO	1						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 4.0 Corr'd 0.7 | Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	PIONEER	12/3/24	Received by	EEA	12/3/24 0840
Relinquished by	EEA	12/3/24 1250	Received by		
Relinquished by			Received in Laboratory by:	EEA	12/3/24 1250

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-260898-1

Login Number: 260898
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 12/20/2024 10:10:28 AM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-261185-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
12/20/2024 10:10:28 AM

Authorized for release by
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Designee for
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(630)758-0262

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Job ID: 500-261185-1 — Eurofins Chicago

Job Narrative
500-261185-1

Receipt
The samples were received on 12/6/2024 5:52 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.3º C.

GC/MS Semi VOA
Method 8270E: Surrogate recovery for the following samples were outside the upper control limit: MW-303 (500-261185-3), MW-304 (500-261185-4) and MW-306 (500-261185-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-798918 was outside the method criteria for the following analyte(s): bis(chloroisopropyl) ether. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-798918 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. (CCVIS 500-798918/2)

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-799304 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-799376 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-799304 was outside the method criteria for the following analyte(s): 4-Nitrophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-799207 and analytical batch 500-799304 recovered outside control limits for the following analytes: 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 4-Chlorophenyl phenyl ether, 4-Nitroaniline, 4-Nitrophenol, Benzo[k]fluoranthene, Diethyl phthalate, Di-n-butyl phthalate, Fluoranthene and Pentachlorophenol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-301 — Lab Sample ID: 500-261185-1

No Detections.

Client Sample ID: MW-302 — Lab Sample ID: 500-261185-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.00080		0.00075		mg/L	1		8270E	Total/NA
Benzo[a]pyrene	0.00019		0.00015		mg/L	1		8270E	Total/NA

Client Sample ID: MW-303 — Lab Sample ID: 500-261185-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.00054		0.00013		mg/L	1		8270E	Total/NA
Benzo[a]pyrene	0.00065		0.00016		mg/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.0010		0.00016		mg/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.00034		0.00016		mg/L	1		8270E	Total/NA
Chrysene	0.00054		0.00016		mg/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.00063		0.00016		mg/L	1		8270E	Total/NA

Client Sample ID: MW-304 — Lab Sample ID: 500-261185-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0041		0.00012		mg/L	1		8270E	Total/NA
Benzo[a]pyrene	0.0061		0.00015		mg/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.0096		0.00015		mg/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	0.0079		0.00075		mg/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.0030		0.00015		mg/L	1		8270E	Total/NA
Chrysene	0.0060		0.00015		mg/L	1		8270E	Total/NA
Dibenz(a,h)anthracene	0.0018		0.00022		mg/L	1		8270E	Total/NA
Fluoranthene	0.0049		0.00075		mg/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.0073		0.00015		mg/L	1		8270E	Total/NA
Phenanthrene	0.0026		0.00075		mg/L	1		8270E	Total/NA
Pyrene	0.0055		0.00075		mg/L	1		8270E	Total/NA

Client Sample ID: MW-306 — Lab Sample ID: 500-261185-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.00043		0.00019		mg/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.00060		0.00019		mg/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.00048		0.00019		mg/L	1		8270E	Total/NA

Client Sample ID: SB12 (0-3) — Lab Sample ID: 500-261185-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	13		0.58		mg/Kg	25	☼	7471B	Total/NA

Client Sample ID: SB13 (0-3) — Lab Sample ID: 500-261185-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	9.9		0.61		mg/Kg	25	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261185-1	MW-301	Water	12/05/24 10:11	12/06/24 17:52
500-261185-2	MW-302	Water	12/05/24 11:08	12/06/24 17:52
500-261185-3	MW-303	Water	12/05/24 12:30	12/06/24 17:52
500-261185-4	MW-304	Water	12/05/24 13:52	12/06/24 17:52
500-261185-5	MW-306	Water	12/05/24 14:30	12/06/24 17:52
500-261185-6	SB12 (0-3)	Solid	12/05/24 15:07	12/06/24 17:52
500-261185-7	SB13 (0-3)	Solid	12/05/24 15:41	12/06/24 17:52

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-301
Lab Sample ID: 500-261185-1
Date Collected: 12/05/24 10:11
Matrix: Water
Date Received: 12/06/24 17:52

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00098		0.00098		mg/L		12/11/24 07:14	12/11/24 18:47	1
Acenaphthylene	<0.00098		0.00098		mg/L		12/11/24 07:14	12/11/24 18:47	1
Anthracene	<0.00098		0.00098		mg/L		12/11/24 07:14	12/11/24 18:47	1
Benzo[a]anthracene	<0.00016		0.00016		mg/L		12/11/24 07:14	12/11/24 18:47	1
Benzo[a]pyrene	<0.00020		0.00020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Benzo[b]fluoranthene	<0.00020		0.00020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Benzo[g,h,i]perylene	<0.00098		0.00098		mg/L		12/11/24 07:14	12/11/24 18:47	1
Benzo[k]fluoranthene	<0.00020		0.00020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Chrysene	<0.00020		0.00020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Dibenz(a,h)anthracene	<0.00029		0.00029		mg/L		12/11/24 07:14	12/11/24 18:47	1
Fluoranthene	<0.00098		0.00098		mg/L		12/11/24 07:14	12/11/24 18:47	1
Fluorene	<0.00098		0.00098		mg/L		12/11/24 07:14	12/11/24 18:47	1
Indeno[1,2,3-cd]pyrene	<0.00020		0.00020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Naphthalene	<0.00098		0.00098		mg/L		12/11/24 07:14	12/11/24 18:47	1
Phenanthrene	<0.00098		0.00098		mg/L		12/11/24 07:14	12/11/24 18:47	1
Pyrene	<0.00098		0.00098		mg/L		12/11/24 07:14	12/11/24 18:47	1
1,2,4-Trichlorobenzene	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
1,2-Dichlorobenzene	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
1,3-Dichlorobenzene	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
1,4-Dichlorobenzene	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
2,4,5-Trichlorophenol	<0.0098		0.0098		mg/L		12/11/24 07:14	12/11/24 18:47	1
2,4,6-Trichlorophenol	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1
2,4-Dichlorophenol	<0.0098		0.0098		mg/L		12/11/24 07:14	12/11/24 18:47	1
2,4-Dimethylphenol	<0.0098		0.0098		mg/L		12/11/24 07:14	12/11/24 18:47	1
2,4-Dinitrophenol	<0.020		0.020		mg/L		12/11/24 07:14	12/11/24 18:47	1
2,4-Dinitrotoluene	<0.00098		0.00098		mg/L		12/11/24 07:14	12/11/24 18:47	1
2,6-Dinitrotoluene	<0.00098		0.00098		mg/L		12/11/24 07:14	12/11/24 18:47	1
2-Chloronaphthalene	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
2-Chlorophenol	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1
2-Methylnaphthalene	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
2-Methylphenol	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
2-Nitroaniline	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1
2-Nitrophenol	<0.0098		0.0098		mg/L		12/11/24 07:14	12/11/24 18:47	1
3,3'-Dichlorobenzidine	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1
3 & 4 Methylphenol	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
3-Nitroaniline	<0.0098		0.0098		mg/L		12/11/24 07:14	12/11/24 18:47	1
4,6-Dinitro-2-methylphenol	<0.020		0.020		mg/L		12/11/24 07:14	12/11/24 18:47	1
4-Bromophenyl phenyl ether	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1
4-Chloro-3-methylphenol	<0.0098		0.0098		mg/L		12/11/24 07:14	12/11/24 18:47	1
4-Chloroaniline	<0.0098		0.0098		mg/L		12/11/24 07:14	12/11/24 18:47	1
4-Chlorophenyl phenyl ether	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1
4-Nitroaniline	<0.0098		0.0098		mg/L		12/11/24 07:14	12/11/24 18:47	1
4-Nitrophenol	<0.020		0.020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Bis(2-chloroethoxy)methane	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Bis(2-chloroethyl)ether	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
bis(chloroisopropyl) ether	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Bis(2-ethylhexyl) phthalate	<0.0098		0.0098		mg/L		12/11/24 07:14	12/11/24 18:47	1
Butyl benzyl phthalate	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Carbazole	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1

Client Sample ID: MW-301
Date Collected: 12/05/24 10:11
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261185-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Diethyl phthalate	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1
Dimethyl phthalate	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1
Di-n-butyl phthalate	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1
Di-n-octyl phthalate	<0.0098		0.0098		mg/L		12/11/24 07:14	12/11/24 18:47	1
Hexachlorobenzene	<0.00049		0.00049		mg/L		12/11/24 07:14	12/11/24 18:47	1
Hexachlorobutadiene	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1
Hexachlorocyclopentadiene	<0.020		0.020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Hexachloroethane	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1
Isophorone	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Nitrobenzene	<0.00098		0.00098		mg/L		12/11/24 07:14	12/11/24 18:47	1
N-Nitrosodi-n-propylamine	<0.00049		0.00049		mg/L		12/11/24 07:14	12/11/24 18:47	1
N-Nitrosodiphenylamine	<0.0020		0.0020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Pentachlorophenol	<0.020		0.020		mg/L		12/11/24 07:14	12/11/24 18:47	1
Phenol	<0.0049		0.0049		mg/L		12/11/24 07:14	12/11/24 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*40 - 145*	*12/11/24 07:14*	*12/11/24 18:47*	*1*
2-Fluorobiphenyl (Surr)	*67*		*34 - 110*	*12/11/24 07:14*	*12/11/24 18:47*	*1*
2-Fluorophenol (Surr)	*47*		*27 - 110*	*12/11/24 07:14*	*12/11/24 18:47*	*1*
Nitrobenzene-d5 (Surr)	*66*		*36 - 120*	*12/11/24 07:14*	*12/11/24 18:47*	*1*
Phenol-d5 (Surr)	*34*		*20 - 110*	*12/11/24 07:14*	*12/11/24 18:47*	*1*
Terphenyl-d14 (Surr)	*84*		*40 - 145*	*12/11/24 07:14*	*12/11/24 18:47*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
2,4,5-Trichlorophenol	<0.0081		0.0081		mg/L		12/12/24 16:26	12/14/24 02:39	1
2,4,6-Trichlorophenol	<0.0041		0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
2,4-Dichlorophenol	<0.0081		0.0081		mg/L		12/12/24 16:26	12/14/24 02:39	1
2,4-Dimethylphenol	<0.0081		0.0081		mg/L		12/12/24 16:26	12/14/24 02:39	1
2,4-Dinitrophenol	<0.016	*1	0.016		mg/L		12/12/24 16:26	12/14/24 02:39	1
2,4-Dinitrotoluene	<0.00081	*1	0.00081		mg/L		12/12/24 16:26	12/14/24 02:39	1
2,6-Dinitrotoluene	<0.00081	*1	0.00081		mg/L		12/12/24 16:26	12/14/24 02:39	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
2-Chlorophenol	<0.0041		0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
2-Methylphenol	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
2-Nitroaniline	<0.0041		0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
2-Nitrophenol	<0.0081		0.0081		mg/L		12/12/24 16:26	12/14/24 02:39	1
3 & 4 Methylphenol	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
3,3'-Dichlorobenzidine	<0.0041		0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
3-Nitroaniline	<0.0081		0.0081		mg/L		12/12/24 16:26	12/14/24 02:39	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		12/12/24 16:26	12/14/24 02:39	1
4-Bromophenyl phenyl ether	<0.0041		0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
4-Chloro-3-methylphenol	<0.0081		0.0081		mg/L		12/12/24 16:26	12/14/24 02:39	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261185-1

Client Sample ID: MW-301
Date Collected: 12/05/24 10:11
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261185-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	<0.0081		0.0081		mg/L		12/12/24 16:26	12/14/24 02:39	1
4-Chlorophenyl phenyl ether	<0.0041	*1	0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
4-Nitroaniline	<0.0081	*1	0.0081		mg/L		12/12/24 16:26	12/14/24 02:39	1
4-Nitrophenol	<0.016	*1	0.016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Acenaphthene	<0.00081		0.00081		mg/L		12/12/24 16:26	12/14/24 02:39	1
Acenaphthylene	<0.00081		0.00081		mg/L		12/12/24 16:26	12/14/24 02:39	1
Anthracene	<0.00081		0.00081		mg/L		12/12/24 16:26	12/14/24 02:39	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/12/24 16:26	12/14/24 02:39	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Benzo[g,h,i]perylene	<0.00081		0.00081		mg/L		12/12/24 16:26	12/14/24 02:39	1
Benzo[k]fluoranthene	<0.00016	*1	0.00016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Bis(2-ethylhexyl) phthalate	<0.0081		0.0081		mg/L		12/12/24 16:26	12/14/24 02:39	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Carbazole	<0.0041		0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
Chrysene	<0.00016		0.00016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/12/24 16:26	12/14/24 02:39	1
Dibenzofuran	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Diethyl phthalate	<0.0041	*1	0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
Dimethyl phthalate	<0.0041		0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
Di-n-butyl phthalate	<0.0041	*1	0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
Di-n-octyl phthalate	<0.0081		0.0081		mg/L		12/12/24 16:26	12/14/24 02:39	1
Fluoranthene	<0.00081	*1	0.00081		mg/L		12/12/24 16:26	12/14/24 02:39	1
Fluorene	<0.00081		0.00081		mg/L		12/12/24 16:26	12/14/24 02:39	1
Hexachlorobenzene	<0.00041		0.00041		mg/L		12/12/24 16:26	12/14/24 02:39	1
Hexachlorobutadiene	<0.0041		0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Hexachloroethane	<0.0041		0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Isophorone	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Naphthalene	<0.00081		0.00081		mg/L		12/12/24 16:26	12/14/24 02:39	1
Nitrobenzene	<0.00081		0.00081		mg/L		12/12/24 16:26	12/14/24 02:39	1
N-Nitrosodi-n-propylamine	<0.00041		0.00041		mg/L		12/12/24 16:26	12/14/24 02:39	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Pentachlorophenol	<0.016	*1	0.016		mg/L		12/12/24 16:26	12/14/24 02:39	1
Phenanthrene	<0.00081		0.00081		mg/L		12/12/24 16:26	12/14/24 02:39	1
Phenol	<0.0041		0.0041		mg/L		12/12/24 16:26	12/14/24 02:39	1
Pyrene	<0.00081		0.00081		mg/L		12/12/24 16:26	12/14/24 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*50*		*27 - 110*	*12/12/24 16:26*	*12/14/24 02:39*	*1*
Phenol-d5 (Surr)	*35*		*20 - 110*	*12/12/24 16:26*	*12/14/24 02:39*	*1*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*	*12/12/24 16:26*	*12/14/24 02:39*	*1*
2-Fluorobiphenyl (Surr)	*75*		*34 - 110*	*12/12/24 16:26*	*12/14/24 02:39*	*1*
2,4,6-Tribromophenol (Surr)	*110*		*40 - 145*	*12/12/24 16:26*	*12/14/24 02:39*	*1*
Terphenyl-d14 (Surr)	*107*		*40 - 145*	*12/12/24 16:26*	*12/14/24 02:39*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-302
Date Collected: 12/05/24 11:08
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261185-2
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.00080**		0.00075		mg/L		12/11/24 07:14	12/11/24 19:08	1
Acenaphthylene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/11/24 19:08	1
Anthracene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/11/24 19:08	1
Benzo[a]anthracene	<0.00012		0.00012		mg/L		12/11/24 07:14	12/11/24 19:08	1
Benzo[a]pyrene	**0.00019**		0.00015		mg/L		12/11/24 07:14	12/11/24 19:08	1
Benzo[b]fluoranthene	<0.00015		0.00015		mg/L		12/11/24 07:14	12/11/24 19:08	1
Benzo[g,h,i]perylene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/11/24 19:08	1
Benzo[k]fluoranthene	<0.00015		0.00015		mg/L		12/11/24 07:14	12/11/24 19:08	1
Chrysene	<0.00015		0.00015		mg/L		12/11/24 07:14	12/11/24 19:08	1
Dibenz(a,h)anthracene	<0.00023		0.00023		mg/L		12/11/24 07:14	12/11/24 19:08	1
Fluoranthene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/11/24 19:08	1
Fluorene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/11/24 19:08	1
Indeno[1,2,3-cd]pyrene	<0.00015		0.00015		mg/L		12/11/24 07:14	12/11/24 19:08	1
Naphthalene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/11/24 19:08	1
Phenanthrene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/11/24 19:08	1
Pyrene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/11/24 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*67*		*36 - 120*	*12/11/24 07:14*	*12/11/24 19:08*	*1*
2-Fluorobiphenyl (Surr)	*66*		*34 - 110*	*12/11/24 07:14*	*12/11/24 19:08*	*1*
Terphenyl-d14 (Surr)	*87*		*40 - 145*	*12/11/24 07:14*	*12/11/24 19:08*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:01	1
Acenaphthylene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:01	1
Anthracene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:01	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/09/24 07:25	12/10/24 16:01	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/10/24 16:01	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/10/24 16:01	1
Benzo[g,h,i]perylene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:01	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/10/24 16:01	1
Chrysene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/10/24 16:01	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/09/24 07:25	12/10/24 16:01	1
Fluoranthene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:01	1
Fluorene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:01	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/10/24 16:01	1
Naphthalene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:01	1
Phenanthrene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:01	1
Pyrene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*69*		*36 - 120*	*12/09/24 07:25*	*12/10/24 16:01*	*1*
2-Fluorobiphenyl (Surr)	*67*		*34 - 110*	*12/09/24 07:25*	*12/10/24 16:01*	*1*
Terphenyl-d14 (Surr)	*81*		*40 - 145*	*12/09/24 07:25*	*12/10/24 16:01*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-303
Lab Sample ID: 500-261185-3
Date Collected: 12/05/24 12:30
Matrix: Water
Date Received: 12/06/24 17:52

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 19:30	1
Acenaphthylene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 19:30	1
Anthracene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 19:30	1
Benzo[a]anthracene	**0.00054**		0.00013		mg/L		12/11/24 07:14	12/11/24 19:30	1
Benzo[a]pyrene	**0.00065**		0.00016		mg/L		12/11/24 07:14	12/11/24 19:30	1
Benzo[b]fluoranthene	**0.0010**		0.00016		mg/L		12/11/24 07:14	12/11/24 19:30	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 19:30	1
Benzo[k]fluoranthene	**0.00034**		0.00016		mg/L		12/11/24 07:14	12/11/24 19:30	1
Chrysene	**0.00054**		0.00016		mg/L		12/11/24 07:14	12/11/24 19:30	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/11/24 07:14	12/11/24 19:30	1
Fluoranthene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 19:30	1
Fluorene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 19:30	1
Indeno[1,2,3-cd]pyrene	**0.00063**		0.00016		mg/L		12/11/24 07:14	12/11/24 19:30	1
Naphthalene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 19:30	1
Phenanthrene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 19:30	1
Pyrene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*65*		*36 - 120*	*12/11/24 07:14*	*12/11/24 19:30*	*1*
2-Fluorobiphenyl (Surr)	*63*		*34 - 110*	*12/11/24 07:14*	*12/11/24 19:30*	*1*
Terphenyl-d14 (Surr)	*82*		*40 - 145*	*12/11/24 07:14*	*12/11/24 19:30*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:23	1
Acenaphthylene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:23	1
Anthracene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:23	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/09/24 07:25	12/10/24 16:23	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/10/24 16:23	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/10/24 16:23	1
Benzo[g,h,i]perylene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:23	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/10/24 16:23	1
Chrysene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/10/24 16:23	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/09/24 07:25	12/10/24 16:23	1
Fluoranthene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:23	1
Fluorene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:23	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/10/24 16:23	1
Naphthalene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:23	1
Phenanthrene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:23	1
Pyrene	<0.00081		0.00081		mg/L		12/09/24 07:25	12/10/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*130*	*S1+*	*36 - 120*	*12/09/24 07:25*	*12/10/24 16:23*	*1*
2-Fluorobiphenyl (Surr)	*126*	*S1+*	*34 - 110*	*12/09/24 07:25*	*12/10/24 16:23*	*1*
Terphenyl-d14 (Surr)	*149*	*S1+*	*40 - 145*	*12/09/24 07:25*	*12/10/24 16:23*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-304
Lab Sample ID: 500-261185-4
Date Collected: 12/05/24 13:52
Matrix: Water
Date Received: 12/06/24 17:52

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/20/24 00:01	1
Acenaphthylene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/20/24 00:01	1
Anthracene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/20/24 00:01	1
Benzo[a]anthracene	**0.0041**		0.00012		mg/L		12/11/24 07:14	12/20/24 00:01	1
Benzo[a]pyrene	**0.0061**		0.00015		mg/L		12/11/24 07:14	12/20/24 00:01	1
Benzo[b]fluoranthene	**0.0096**		0.00015		mg/L		12/11/24 07:14	12/20/24 00:01	1
Benzo[g,h,i]perylene	**0.0079**		0.00075		mg/L		12/11/24 07:14	12/20/24 00:01	1
Benzo[k]fluoranthene	**0.0030**		0.00015		mg/L		12/11/24 07:14	12/20/24 00:01	1
Chrysene	**0.0060**		0.00015		mg/L		12/11/24 07:14	12/20/24 00:01	1
Dibenz(a,h)anthracene	**0.0018**		0.00022		mg/L		12/11/24 07:14	12/20/24 00:01	1
Fluoranthene	**0.0049**		0.00075		mg/L		12/11/24 07:14	12/20/24 00:01	1
Fluorene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/20/24 00:01	1
Indeno[1,2,3-cd]pyrene	**0.0073**		0.00015		mg/L		12/11/24 07:14	12/20/24 00:01	1
Naphthalene	<0.00075		0.00075		mg/L		12/11/24 07:14	12/20/24 00:01	1
Phenanthrene	**0.0026**		0.00075		mg/L		12/11/24 07:14	12/20/24 00:01	1
Pyrene	**0.0055**		0.00075		mg/L		12/11/24 07:14	12/20/24 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*72*		*36 - 120*	*12/11/24 07:14*	*12/20/24 00:01*	*1*
2-Fluorobiphenyl (Surr)	*63*		*34 - 110*	*12/11/24 07:14*	*12/20/24 00:01*	*1*
Terphenyl-d14 (Surr)	*81*		*40 - 145*	*12/11/24 07:14*	*12/20/24 00:01*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00083		0.00083		mg/L		12/09/24 07:25	12/10/24 16:44	1
Acenaphthylene	<0.00083		0.00083		mg/L		12/09/24 07:25	12/10/24 16:44	1
Anthracene	<0.00083		0.00083		mg/L		12/09/24 07:25	12/10/24 16:44	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/09/24 07:25	12/10/24 16:44	1
Benzo[a]pyrene	<0.00017		0.00017		mg/L		12/09/24 07:25	12/10/24 16:44	1
Benzo[b]fluoranthene	<0.00017		0.00017		mg/L		12/09/24 07:25	12/10/24 16:44	1
Benzo[g,h,i]perylene	<0.00083		0.00083		mg/L		12/09/24 07:25	12/10/24 16:44	1
Benzo[k]fluoranthene	<0.00017		0.00017		mg/L		12/09/24 07:25	12/10/24 16:44	1
Chrysene	<0.00017		0.00017		mg/L		12/09/24 07:25	12/10/24 16:44	1
Dibenz(a,h)anthracene	<0.00025		0.00025		mg/L		12/09/24 07:25	12/10/24 16:44	1
Fluoranthene	<0.00083		0.00083		mg/L		12/09/24 07:25	12/10/24 16:44	1
Fluorene	<0.00083		0.00083		mg/L		12/09/24 07:25	12/10/24 16:44	1
Indeno[1,2,3-cd]pyrene	<0.00017		0.00017		mg/L		12/09/24 07:25	12/10/24 16:44	1
Naphthalene	<0.00083		0.00083		mg/L		12/09/24 07:25	12/10/24 16:44	1
Phenanthrene	<0.00083		0.00083		mg/L		12/09/24 07:25	12/10/24 16:44	1
Pyrene	<0.00083		0.00083		mg/L		12/09/24 07:25	12/10/24 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*150*	*S1+*	*36 - 120*	*12/09/24 07:25*	*12/10/24 16:44*	*1*
2-Fluorobiphenyl (Surr)	*140*	*S1+*	*34 - 110*	*12/09/24 07:25*	*12/10/24 16:44*	*1*
Terphenyl-d14 (Surr)	*162*	*S1+*	*40 - 145*	*12/09/24 07:25*	*12/10/24 16:44*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-306
Lab Sample ID: 500-261185-5

Date Collected: 12/05/24 14:30
Matrix: Water
Date Received: 12/06/24 17:52

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00093		0.00093		mg/L		12/11/24 07:14	12/11/24 20:13	1
Acenaphthylene	<0.00093		0.00093		mg/L		12/11/24 07:14	12/11/24 20:13	1
Anthracene	<0.00093		0.00093		mg/L		12/11/24 07:14	12/11/24 20:13	1
Benzo[a]anthracene	<0.00015		0.00015		mg/L		12/11/24 07:14	12/11/24 20:13	1
Benzo[a]pyrene	**0.00043**		0.00019		mg/L		12/11/24 07:14	12/11/24 20:13	1
Benzo[b]fluoranthene	**0.00060**		0.00019		mg/L		12/11/24 07:14	12/11/24 20:13	1
Benzo[g,h,i]perylene	<0.00093		0.00093		mg/L		12/11/24 07:14	12/11/24 20:13	1
Benzo[k]fluoranthene	<0.00019		0.00019		mg/L		12/11/24 07:14	12/11/24 20:13	1
Chrysene	<0.00019		0.00019		mg/L		12/11/24 07:14	12/11/24 20:13	1
Dibenz(a,h)anthracene	<0.00028		0.00028		mg/L		12/11/24 07:14	12/11/24 20:13	1
Fluoranthene	<0.00093		0.00093		mg/L		12/11/24 07:14	12/11/24 20:13	1
Fluorene	<0.00093		0.00093		mg/L		12/11/24 07:14	12/11/24 20:13	1
Indeno[1,2,3-cd]pyrene	**0.00048**		0.00019		mg/L		12/11/24 07:14	12/11/24 20:13	1
Naphthalene	<0.00093		0.00093		mg/L		12/11/24 07:14	12/11/24 20:13	1
Phenanthrene	<0.00093		0.00093		mg/L		12/11/24 07:14	12/11/24 20:13	1
Pyrene	<0.00093		0.00093		mg/L		12/11/24 07:14	12/11/24 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*64*		*36 - 120*	*12/11/24 07:14*	*12/11/24 20:13*	*1*
2-Fluorobiphenyl (Surr)	*63*		*34 - 110*	*12/11/24 07:14*	*12/11/24 20:13*	*1*
Terphenyl-d14 (Surr)	*88*		*40 - 145*	*12/11/24 07:14*	*12/11/24 20:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00084		0.00084		mg/L		12/09/24 07:25	12/10/24 17:06	1
Acenaphthylene	<0.00084		0.00084		mg/L		12/09/24 07:25	12/10/24 17:06	1
Anthracene	<0.00084		0.00084		mg/L		12/09/24 07:25	12/10/24 17:06	1
Benzo[a]anthracene	<0.00014		0.00014		mg/L		12/09/24 07:25	12/10/24 17:06	1
Benzo[a]pyrene	<0.00017		0.00017		mg/L		12/09/24 07:25	12/10/24 17:06	1
Benzo[b]fluoranthene	<0.00017		0.00017		mg/L		12/09/24 07:25	12/10/24 17:06	1
Benzo[g,h,i]perylene	<0.00084		0.00084		mg/L		12/09/24 07:25	12/10/24 17:06	1
Benzo[k]fluoranthene	<0.00017		0.00017		mg/L		12/09/24 07:25	12/10/24 17:06	1
Chrysene	<0.00017		0.00017		mg/L		12/09/24 07:25	12/10/24 17:06	1
Dibenz(a,h)anthracene	<0.00025		0.00025		mg/L		12/09/24 07:25	12/10/24 17:06	1
Fluoranthene	<0.00084		0.00084		mg/L		12/09/24 07:25	12/10/24 17:06	1
Fluorene	<0.00084		0.00084		mg/L		12/09/24 07:25	12/10/24 17:06	1
Indeno[1,2,3-cd]pyrene	<0.00017		0.00017		mg/L		12/09/24 07:25	12/10/24 17:06	1
Naphthalene	<0.00084		0.00084		mg/L		12/09/24 07:25	12/10/24 17:06	1
Phenanthrene	<0.00084		0.00084		mg/L		12/09/24 07:25	12/10/24 17:06	1
Pyrene	<0.00084		0.00084		mg/L		12/09/24 07:25	12/10/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*152*	*S1+*	*36 - 120*	*12/09/24 07:25*	*12/10/24 17:06*	*1*
2-Fluorobiphenyl (Surr)	*144*	*S1+*	*34 - 110*	*12/09/24 07:25*	*12/10/24 17:06*	*1*
Terphenyl-d14 (Surr)	*168*	*S1+*	*40 - 145*	*12/09/24 07:25*	*12/10/24 17:06*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB12 (0-3)
Lab Sample ID: 500-261185-6
Date Collected: 12/05/24 15:07
Matrix: Solid
Date Received: 12/06/24 17:52
Percent Solids: 70.8

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13		0.58		mg/Kg	☼	12/17/24 16:05	12/19/24 12:18	25

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB13 (0-3)
Lab Sample ID: 500-261185-7
Date Collected: 12/05/24 15:41
Matrix: Solid
Date Received: 12/06/24 17:52
Percent Solids: 65.4

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.9		0.61		mg/Kg	☼	12/17/24 16:05	12/19/24 12:19	25

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS Semi VOA

Prep Batch: 798493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261185-2	MW-302	Dissolved	Water	3510C	
500-261185-3	MW-303	Dissolved	Water	3510C	
500-261185-4	MW-304	Dissolved	Water	3510C	
500-261185-5	MW-306	Dissolved	Water	3510C	
MB 500-798493/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-798493/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 798529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-798493/1-A	Method Blank	Total/NA	Water	8270E	798493
LCS 500-798493/2-A	Lab Control Sample	Total/NA	Water	8270E	798493

Analysis Batch: 798711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261185-2	MW-302	Dissolved	Water	8270E	798493
500-261185-3	MW-303	Dissolved	Water	8270E	798493
500-261185-4	MW-304	Dissolved	Water	8270E	798493
500-261185-5	MW-306	Dissolved	Water	8270E	798493

Prep Batch: 798859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261185-1	MW-301	Total/NA	Water	3510C	
500-261185-2	MW-302	Total/NA	Water	3510C	
500-261185-3	MW-303	Total/NA	Water	3510C	
500-261185-4	MW-304	Total/NA	Water	3510C	
500-261185-5	MW-306	Total/NA	Water	3510C	
MB 500-798859/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-798859/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 798918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261185-1	MW-301	Total/NA	Water	8270E	798859
500-261185-2	MW-302	Total/NA	Water	8270E	798859
500-261185-3	MW-303	Total/NA	Water	8270E	798859
500-261185-5	MW-306	Total/NA	Water	8270E	798859
MB 500-798859/1-A	Method Blank	Total/NA	Water	8270E	798859
LCS 500-798859/2-A	Lab Control Sample	Total/NA	Water	8270E	798859

Prep Batch: 799207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261185-1	MW-301	Dissolved	Water	3510C	
MB 500-799207/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-799207/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-799207/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 799304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-799207/1-A	Method Blank	Total/NA	Water	8270E	799207
LCS 500-799207/2-A	Lab Control Sample	Total/NA	Water	8270E	799207
LCSD 500-799207/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	799207

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

GC/MS Semi VOA

Analysis Batch: 799376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261185-1	MW-301	Dissolved	Water	8270E	799207

Analysis Batch: 800213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261185-4	MW-304	Total/NA	Water	8270E	798859

Metals

Prep Batch: 799764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261185-6	SB12 (0-3)	Total/NA	Solid	7471B	
500-261185-7	SB13 (0-3)	Total/NA	Solid	7471B	
MB 500-799764/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-799764/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 800174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261185-6	SB12 (0-3)	Total/NA	Solid	7471B	799764
500-261185-7	SB13 (0-3)	Total/NA	Solid	7471B	799764
MB 500-799764/12-A	Method Blank	Total/NA	Solid	7471B	799764
LCS 500-799764/13-A	Lab Control Sample	Total/NA	Solid	7471B	799764

General Chemistry

Analysis Batch: 798760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261185-6	SB12 (0-3)	Total/NA	Solid	Moisture	
500-261185-7	SB13 (0-3)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-110)	(40-145)
500-261185-1	MW-301	85	67	47	66	34	84
500-261185-2	MW-302		66		67		87
500-261185-3	MW-303		63		65		82
500-261185-4	MW-304		63		72		81
500-261185-5	MW-306		63		64		88
LCS 500-798493/2-A	Lab Control Sample		74		78		86
LCS 500-798859/2-A	Lab Control Sample	96	76	52	75	37	92
LCS 500-799207/2-A	Lab Control Sample	121	76	56	77	40	107
LCSD 500-799207/3-A	Lab Control Sample Dup	98	68	52	71	37	97
MB 500-798493/1-A	Method Blank		63		74		90
MB 500-798859/1-A	Method Blank	95	69	53	72	37	97
MB 500-799207/1-A	Method Blank	81	57	48	59	33	94

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(27-110)	(20-110)	(36-120)	(34-110)	(40-145)	(40-145)
500-261185-1	MW-301	50	35	74	75	110	107
500-261185-2	MW-302			69	67		81
500-261185-3	MW-303			130 S1+	126 S1+		149 S1+
500-261185-4	MW-304			150 S1+	140 S1+		162 S1+
500-261185-5	MW-306			152 S1+	144 S1+		168 S1+

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-798493/1-A
Matrix: Water
Analysis Batch: 798529

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		12/09/24 07:25	12/09/24 17:10	1
Acenaphthylene	<0.00080		0.00080		mg/L		12/09/24 07:25	12/09/24 17:10	1
Anthracene	<0.00080		0.00080		mg/L		12/09/24 07:25	12/09/24 17:10	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/09/24 07:25	12/09/24 17:10	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/09/24 17:10	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/09/24 17:10	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		12/09/24 07:25	12/09/24 17:10	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/09/24 17:10	1
Chrysene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/09/24 17:10	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/09/24 07:25	12/09/24 17:10	1
Fluoranthene	<0.00080		0.00080		mg/L		12/09/24 07:25	12/09/24 17:10	1
Fluorene	<0.00080		0.00080		mg/L		12/09/24 07:25	12/09/24 17:10	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/09/24 07:25	12/09/24 17:10	1
Naphthalene	<0.00080		0.00080		mg/L		12/09/24 07:25	12/09/24 17:10	1
Phenanthrene	<0.00080		0.00080		mg/L		12/09/24 07:25	12/09/24 17:10	1
Pyrene	<0.00080		0.00080		mg/L		12/09/24 07:25	12/09/24 17:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*	*12/09/24 07:25*	*12/09/24 17:10*	*1*
2-Fluorobiphenyl (Surr)	*63*		*34 - 110*	*12/09/24 07:25*	*12/09/24 17:10*	*1*
Terphenyl-d14 (Surr)	*90*		*40 - 145*	*12/09/24 07:25*	*12/09/24 17:10*	*1*

Lab Sample ID: LCS 500-798493/2-A
Matrix: Water
Analysis Batch: 798529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0283		mg/L		71	46 - 110
Acenaphthylene	0.0400	0.0312		mg/L		78	47 - 113
Anthracene	0.0400	0.0320		mg/L		80	67 - 118
Benzo[a]anthracene	0.0400	0.0320		mg/L		80	70 - 126
Benzo[a]pyrene	0.0400	0.0375		mg/L		94	70 - 135
Benzo[b]fluoranthene	0.0400	0.0394		mg/L		99	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0418		mg/L		105	70 - 135
Benzo[k]fluoranthene	0.0400	0.0387		mg/L		97	70 - 133
Chrysene	0.0400	0.0340		mg/L		85	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0405		mg/L		101	70 - 134
Fluoranthene	0.0400	0.0331		mg/L		83	68 - 126
Fluorene	0.0400	0.0284		mg/L		71	53 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.0387		mg/L		97	65 - 133
Naphthalene	0.0400	0.0249		mg/L		62	36 - 110
Phenanthrene	0.0400	0.0316		mg/L		79	65 - 120
Pyrene	0.0400	0.0335		mg/L		84	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*
2-Fluorobiphenyl (Surr)	*74*		*34 - 110*
Terphenyl-d14 (Surr)	*86*		*40 - 145*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261185-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-798859/1-A
Matrix: Water
Analysis Batch: 798918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798859

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
2,4,5-Trichlorophenol	<0.0080		0.0080		mg/L		12/11/24 07:14	12/11/24 12:19	1
2,4,6-Trichlorophenol	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1
2,4-Dichlorophenol	<0.0080		0.0080		mg/L		12/11/24 07:14	12/11/24 12:19	1
2,4-Dimethylphenol	<0.0080		0.0080		mg/L		12/11/24 07:14	12/11/24 12:19	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		12/11/24 07:14	12/11/24 12:19	1
2,4-Dinitrotoluene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 12:19	1
2,6-Dinitrotoluene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 12:19	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Acenaphthene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 12:19	1
2-Chlorophenol	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1
Acenaphthylene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 12:19	1
Anthracene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 12:19	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/11/24 07:14	12/11/24 12:19	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/11/24 07:14	12/11/24 12:19	1
2-Methylphenol	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/11/24 07:14	12/11/24 12:19	1
2-Nitroaniline	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 12:19	1
2-Nitrophenol	<0.0080		0.0080		mg/L		12/11/24 07:14	12/11/24 12:19	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/11/24 07:14	12/11/24 12:19	1
3,3'-Dichlorobenzidine	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1
3 & 4 Methylphenol	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
3-Nitroaniline	<0.0080		0.0080		mg/L		12/11/24 07:14	12/11/24 12:19	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		12/11/24 07:14	12/11/24 12:19	1
4-Bromophenyl phenyl ether	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1
4-Chloro-3-methylphenol	<0.0080		0.0080		mg/L		12/11/24 07:14	12/11/24 12:19	1
Chrysene	<0.00016		0.00016		mg/L		12/11/24 07:14	12/11/24 12:19	1
4-Chloroaniline	<0.0080		0.0080		mg/L		12/11/24 07:14	12/11/24 12:19	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/11/24 07:14	12/11/24 12:19	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1
4-Nitroaniline	<0.0080		0.0080		mg/L		12/11/24 07:14	12/11/24 12:19	1
4-Nitrophenol	<0.016		0.016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Fluoranthene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 12:19	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080		mg/L		12/11/24 07:14	12/11/24 12:19	1
Fluorene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 12:19	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Carbazole	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1
Dibenzofuran	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Diethyl phthalate	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1
Dimethyl phthalate	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-798859/1-A
Matrix: Water
Analysis Batch: 798918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798859

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Di-n-butyl phthalate	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1
Di-n-octyl phthalate	<0.0080		0.0080		mg/L		12/11/24 07:14	12/11/24 12:19	1
Naphthalene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 12:19	1
Hexachlorobenzene	<0.00040		0.00040		mg/L		12/11/24 07:14	12/11/24 12:19	1
Hexachlorobutadiene	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Hexachloroethane	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1
Isophorone	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Phenanthrene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 12:19	1
Nitrobenzene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 12:19	1
Pyrene	<0.00080		0.00080		mg/L		12/11/24 07:14	12/11/24 12:19	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040		mg/L		12/11/24 07:14	12/11/24 12:19	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Pentachlorophenol	<0.016		0.016		mg/L		12/11/24 07:14	12/11/24 12:19	1
Phenol	<0.0040		0.0040		mg/L		12/11/24 07:14	12/11/24 12:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*53*		*27 - 110*	*12/11/24 07:14*	*12/11/24 12:19*	*1*
Nitrobenzene-d5 (Surr)	*72*		*36 - 120*	*12/11/24 07:14*	*12/11/24 12:19*	*1*
2-Fluorobiphenyl (Surr)	*69*		*34 - 110*	*12/11/24 07:14*	*12/11/24 12:19*	*1*
2,4,6-Tribromophenol (Surr)	*95*		*40 - 145*	*12/11/24 07:14*	*12/11/24 12:19*	*1*
Phenol-d5 (Surr)	*37*		*20 - 110*	*12/11/24 07:14*	*12/11/24 12:19*	*1*
Terphenyl-d14 (Surr)	*97*		*40 - 145*	*12/11/24 07:14*	*12/11/24 12:19*	*1*

Lab Sample ID: LCS 500-798859/2-A
Matrix: Water
Analysis Batch: 798918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	0.0400	0.0225		mg/L		56	26 - 110
1,2-Dichlorobenzene	0.0400	0.0197		mg/L		49	26 - 110
1,3-Dichlorobenzene	0.0400	0.0186		mg/L		46	22 - 110
1,4-Dichlorobenzene	0.0400	0.0187		mg/L		47	23 - 110
2,4,5-Trichlorophenol	0.0400	0.0311		mg/L		78	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0312		mg/L		78	62 - 121
2,4-Dichlorophenol	0.0400	0.0308		mg/L		77	58 - 120
2,4-Dimethylphenol	0.0400	0.0319		mg/L		80	51 - 115
2,4-Dinitrophenol	0.0800	0.0526		mg/L		66	37 - 130
2,4-Dinitrotoluene	0.0400	0.0329		mg/L		82	63 - 129
2,6-Dinitrotoluene	0.0400	0.0324		mg/L		81	63 - 129
2-Chloronaphthalene	0.0400	0.0259		mg/L		65	39 - 110
Acenaphthene	0.0400	0.0277		mg/L		69	46 - 110
2-Chlorophenol	0.0400	0.0268		mg/L		67	59 - 110
Acenaphthylene	0.0400	0.0293		mg/L		73	47 - 113
Anthracene	0.0400	0.0312		mg/L		78	67 - 118
Benzo[a]anthracene	0.0400	0.0305		mg/L		76	70 - 126
2-Methylnaphthalene	0.0400	0.0223		mg/L		56	34 - 110

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261185-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-798859/2-A
Matrix: Water
Analysis Batch: 798918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]pyrene	0.0400	0.0396		mg/L		99	70 - 135
2-Methylphenol	0.0400	0.0252		mg/L		63	53 - 115
Benzo[b]fluoranthene	0.0400	0.0387		mg/L		97	69 - 136
2-Nitroaniline	0.0400	0.0252		mg/L		63	59 - 138
Benzo[g,h,i]perylene	0.0400	0.0393		mg/L		98	70 - 135
2-Nitrophenol	0.0400	0.0293		mg/L		73	59 - 115
Benzo[k]fluoranthene	0.0400	0.0397		mg/L		99	70 - 133
3,3'-Dichlorobenzidine	0.0400	0.0301		mg/L		75	60 - 132
3 & 4 Methylphenol	0.0400	0.0236		mg/L		59	50 - 116
3-Nitroaniline	0.0400	0.0279		mg/L		70	47 - 123
4,6-Dinitro-2-methylphenol	0.0800	0.0615		mg/L		77	50 - 129
4-Bromophenyl phenyl ether	0.0400	0.0309		mg/L		77	58 - 120
4-Chloro-3-methylphenol	0.0400	0.0277		mg/L		69	64 - 128
Chrysene	0.0400	0.0330		mg/L		83	68 - 129
4-Chloroaniline	0.0400	0.0270		mg/L		67	35 - 128
Dibenz(a,h)anthracene	0.0400	0.0380		mg/L		95	70 - 134
4-Chlorophenyl phenyl ether	0.0400	0.0287		mg/L		72	48 - 116
4-Nitroaniline	0.0400	0.0271		mg/L		68	35 - 110
4-Nitrophenol	0.0800	0.0265		mg/L		33	20 - 110
Bis(2-chloroethoxy)methane	0.0400	0.0282		mg/L		71	59 - 118
Bis(2-chloroethyl)ether	0.0400	0.0263		mg/L		66	54 - 112
bis(chloroisopropyl) ether	0.0400	0.0209		mg/L		52	38 - 140
Fluoranthene	0.0400	0.0325		mg/L		81	68 - 126
Bis(2-ethylhexyl) phthalate	0.0400	0.0322		mg/L		81	69 - 136
Fluorene	0.0400	0.0295		mg/L		74	53 - 120
Butyl benzyl phthalate	0.0400	0.0328		mg/L		82	68 - 135
Carbazole	0.0400	0.0304		mg/L		76	61 - 145
Dibenzofuran	0.0400	0.0288		mg/L		72	51 - 110
Diethyl phthalate	0.0400	0.0290		mg/L		73	62 - 123
Dimethyl phthalate	0.0400	0.0297		mg/L		74	63 - 122
Indeno[1,2,3-cd]pyrene	0.0400	0.0390		mg/L		98	65 - 133
Di-n-butyl phthalate	0.0400	0.0305		mg/L		76	69 - 129
Di-n-octyl phthalate	0.0400	0.0295		mg/L		74	68 - 137
Naphthalene	0.0400	0.0240		mg/L		60	36 - 110
Hexachlorobenzene	0.0400	0.0329		mg/L		82	61 - 126
Hexachlorobutadiene	0.0400	0.0211		mg/L		53	20 - 100
Hexachlorocyclopentadiene	0.0400	0.0212		mg/L		53	10 - 105
Hexachloroethane	0.0400	0.0164		mg/L		41	20 - 100
Isophorone	0.0400	0.0275		mg/L		69	54 - 127
Phenanthrene	0.0400	0.0309		mg/L		77	65 - 120
Nitrobenzene	0.0400	0.0272		mg/L		68	54 - 121
Pyrene	0.0400	0.0337		mg/L		84	70 - 126
N-Nitrosodi-n-propylamine	0.0400	0.0255		mg/L		64	47 - 131
N-Nitrosodiphenylamine	0.0400	0.0299		mg/L		75	66 - 120
Pentachlorophenol	0.0800	0.0538		mg/L		67	42 - 148
Phenol	0.0400	0.0136		mg/L		34	33 - 100

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-798859/2-A
Matrix: Water
Analysis Batch: 798918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798859

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*52*		*27 - 110*
Nitrobenzene-d5 (Surr)	*75*		*36 - 120*
2-Fluorobiphenyl (Surr)	*76*		*34 - 110*
2,4,6-Tribromophenol (Surr)	*96*		*40 - 145*
Phenol-d5 (Surr)	*37*		*20 - 110*
Terphenyl-d14 (Surr)	*92*		*40 - 145*

Lab Sample ID: MB 500-799207/1-A
Matrix: Water
Analysis Batch: 799304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
2,4,5-Trichlorophenol	<0.0080		0.0080		mg/L		12/12/24 16:26	12/13/24 12:11	1
2,4,6-Trichlorophenol	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1
2,4-Dichlorophenol	<0.0080		0.0080		mg/L		12/12/24 16:26	12/13/24 12:11	1
2,4-Dimethylphenol	<0.0080		0.0080		mg/L		12/12/24 16:26	12/13/24 12:11	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		12/12/24 16:26	12/13/24 12:11	1
2,4-Dinitrotoluene	<0.00080		0.00080		mg/L		12/12/24 16:26	12/13/24 12:11	1
2,6-Dinitrotoluene	<0.00080		0.00080		mg/L		12/12/24 16:26	12/13/24 12:11	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Acenaphthene	<0.00080		0.00080		mg/L		12/12/24 16:26	12/13/24 12:11	1
2-Chlorophenol	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1
Acenaphthylene	<0.00080		0.00080		mg/L		12/12/24 16:26	12/13/24 12:11	1
Anthracene	<0.00080		0.00080		mg/L		12/12/24 16:26	12/13/24 12:11	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/12/24 16:26	12/13/24 12:11	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/12/24 16:26	12/13/24 12:11	1
2-Methylphenol	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/12/24 16:26	12/13/24 12:11	1
2-Nitroaniline	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		12/12/24 16:26	12/13/24 12:11	1
2-Nitrophenol	<0.0080		0.0080		mg/L		12/12/24 16:26	12/13/24 12:11	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/12/24 16:26	12/13/24 12:11	1
3,3'-Dichlorobenzidine	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1
3 & 4 Methylphenol	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
3-Nitroaniline	<0.0080		0.0080		mg/L		12/12/24 16:26	12/13/24 12:11	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		12/12/24 16:26	12/13/24 12:11	1
4-Bromophenyl phenyl ether	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1
4-Chloro-3-methylphenol	<0.0080		0.0080		mg/L		12/12/24 16:26	12/13/24 12:11	1
Chrysene	<0.00016		0.00016		mg/L		12/12/24 16:26	12/13/24 12:11	1
4-Chloroaniline	<0.0080		0.0080		mg/L		12/12/24 16:26	12/13/24 12:11	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/12/24 16:26	12/13/24 12:11	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1
4-Nitroaniline	<0.0080		0.0080		mg/L		12/12/24 16:26	12/13/24 12:11	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-799207/1-A
Matrix: Water
Analysis Batch: 799304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.016		0.016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Fluoranthene	<0.00080		0.00080		mg/L		12/12/24 16:26	12/13/24 12:11	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080		mg/L		12/12/24 16:26	12/13/24 12:11	1
Fluorene	<0.00080		0.00080		mg/L		12/12/24 16:26	12/13/24 12:11	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Carbazole	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1
Dibenzofuran	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Diethyl phthalate	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1
Dimethyl phthalate	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Di-n-butyl phthalate	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1
Di-n-octyl phthalate	<0.0080		0.0080		mg/L		12/12/24 16:26	12/13/24 12:11	1
Naphthalene	<0.00080		0.00080		mg/L		12/12/24 16:26	12/13/24 12:11	1
Hexachlorobenzene	<0.00040		0.00040		mg/L		12/12/24 16:26	12/13/24 12:11	1
Hexachlorobutadiene	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Hexachloroethane	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1
Isophorone	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Phenanthrene	<0.00080		0.00080		mg/L		12/12/24 16:26	12/13/24 12:11	1
Nitrobenzene	<0.00080		0.00080		mg/L		12/12/24 16:26	12/13/24 12:11	1
Pyrene	<0.00080		0.00080		mg/L		12/12/24 16:26	12/13/24 12:11	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040		mg/L		12/12/24 16:26	12/13/24 12:11	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Pentachlorophenol	<0.016		0.016		mg/L		12/12/24 16:26	12/13/24 12:11	1
Phenol	<0.0040		0.0040		mg/L		12/12/24 16:26	12/13/24 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*48*		*27 - 110*	*12/12/24 16:26*	*12/13/24 12:11*	*1*
Nitrobenzene-d5 (Surr)	*59*		*36 - 120*	*12/12/24 16:26*	*12/13/24 12:11*	*1*
2-Fluorobiphenyl (Surr)	*57*		*34 - 110*	*12/12/24 16:26*	*12/13/24 12:11*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*40 - 145*	*12/12/24 16:26*	*12/13/24 12:11*	*1*
Phenol-d5 (Surr)	*33*		*20 - 110*	*12/12/24 16:26*	*12/13/24 12:11*	*1*
Terphenyl-d14 (Surr)	*94*		*40 - 145*	*12/12/24 16:26*	*12/13/24 12:11*	*1*

Lab Sample ID: LCS 500-799207/2-A
Matrix: Water
Analysis Batch: 799304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	0.0400	0.0233		mg/L		58	26 - 110
1,2-Dichlorobenzene	0.0400	0.0210		mg/L		53	26 - 110
1,3-Dichlorobenzene	0.0400	0.0199		mg/L		50	22 - 110
1,4-Dichlorobenzene	0.0400	0.0196		mg/L		49	23 - 110
2,4,5-Trichlorophenol	0.0400	0.0364		mg/L		91	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0362		mg/L		91	62 - 121

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-799207/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 799304
Prep Batch: 799207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dichlorophenol	0.0400	0.0355		mg/L		89	58 - 120
2,4-Dimethylphenol	0.0400	0.0364		mg/L		91	51 - 115
2,4-Dinitrophenol	0.0800	0.0710		mg/L		89	37 - 130
2,4-Dinitrotoluene	0.0400	0.0427		mg/L		107	63 - 129
2,6-Dinitrotoluene	0.0400	0.0415		mg/L		104	63 - 129
2-Chloronaphthalene	0.0400	0.0263		mg/L		66	39 - 110
Acenaphthene	0.0400	0.0290		mg/L		72	46 - 110
2-Chlorophenol	0.0400	0.0314		mg/L		78	59 - 110
Acenaphthylene	0.0400	0.0321		mg/L		80	47 - 113
Anthracene	0.0400	0.0394		mg/L		99	67 - 118
Benzo[a]anthracene	0.0400	0.0352		mg/L		88	70 - 126
2-Methylnaphthalene	0.0400	0.0241		mg/L		60	34 - 110
Benzo[a]pyrene	0.0400	0.0427		mg/L		107	70 - 135
2-Methylphenol	0.0400	0.0297		mg/L		74	53 - 115
Benzo[b]fluoranthene	0.0400	0.0439		mg/L		110	69 - 136
2-Nitroaniline	0.0400	0.0305		mg/L		76	59 - 138
Benzo[g,h,i]perylene	0.0400	0.0421		mg/L		105	70 - 135
2-Nitrophenol	0.0400	0.0341		mg/L		85	59 - 115
Benzo[k]fluoranthene	0.0400	0.0423		mg/L		106	70 - 133
3,3'-Dichlorobenzidine	0.0400	0.0414		mg/L		103	60 - 132
3 & 4 Methylphenol	0.0400	0.0282		mg/L		70	50 - 116
3-Nitroaniline	0.0400	0.0360		mg/L		90	47 - 123
4,6-Dinitro-2-methylphenol	0.0800	0.0777		mg/L		97	50 - 129
4-Bromophenyl phenyl ether	0.0400	0.0372		mg/L		93	58 - 120
4-Chloro-3-methylphenol	0.0400	0.0344		mg/L		86	64 - 128
Chrysene	0.0400	0.0370		mg/L		92	68 - 129
4-Chloroaniline	0.0400	0.0300		mg/L		75	35 - 128
Dibenz(a,h)anthracene	0.0400	0.0401		mg/L		100	70 - 134
4-Chlorophenyl phenyl ether	0.0400	0.0347		mg/L		87	48 - 116
4-Nitroaniline	0.0400	0.0346		mg/L		87	35 - 110
4-Nitrophenol	0.0800	0.0333		mg/L		42	20 - 110
Bis(2-chloroethoxy)methane	0.0400	0.0341		mg/L		85	59 - 118
Bis(2-chloroethyl)ether	0.0400	0.0314		mg/L		78	54 - 112
bis(chloroisopropyl) ether	0.0400	0.0256		mg/L		64	38 - 140
Fluoranthene	0.0400	0.0431		mg/L		108	68 - 126
Bis(2-ethylhexyl) phthalate	0.0400	0.0410		mg/L		102	69 - 136
Fluorene	0.0400	0.0343		mg/L		86	53 - 120
Butyl benzyl phthalate	0.0400	0.0410		mg/L		102	68 - 135
Carbazole	0.0400	0.0385		mg/L		96	61 - 145
Dibenzofuran	0.0400	0.0317		mg/L		79	51 - 110
Diethyl phthalate	0.0400	0.0403		mg/L		101	62 - 123
Dimethyl phthalate	0.0400	0.0388		mg/L		97	63 - 122
Indeno[1,2,3-cd]pyrene	0.0400	0.0406		mg/L		101	65 - 133
Di-n-butyl phthalate	0.0400	0.0439		mg/L		110	69 - 129
Di-n-octyl phthalate	0.0400	0.0381		mg/L		95	68 - 137
Naphthalene	0.0400	0.0257		mg/L		64	36 - 110
Hexachlorobenzene	0.0400	0.0401		mg/L		100	61 - 126
Hexachlorobutadiene	0.0400	0.0221		mg/L		55	20 - 100
Hexachlorocyclopentadiene	0.0400	0.0193		mg/L		48	10 - 105

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-799207/2-A
Matrix: Water
Analysis Batch: 799304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799207

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Hexachloroethane			0.0400	0.0181		mg/L		45	20 - 100		
Isophorone			0.0400	0.0342		mg/L		85	54 - 127		
Phenanthrene			0.0400	0.0381		mg/L		95	65 - 120		
Nitrobenzene			0.0400	0.0296		mg/L		74	54 - 121		
Pyrene			0.0400	0.0406		mg/L		102	70 - 126		
N-Nitrosodi-n-propylamine			0.0400	0.0317		mg/L		79	47 - 131		
N-Nitrosodiphenylamine			0.0400	0.0368		mg/L		92	66 - 120		
Pentachlorophenol			0.0800	0.0642		mg/L		80	42 - 148		
Phenol			0.0400	0.0160		mg/L		40	33 - 100		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*56*		*27 - 110*
Nitrobenzene-d5 (Surr)	*77*		*36 - 120*
2-Fluorobiphenyl (Surr)	*76*		*34 - 110*
2,4,6-Tribromophenol (Surr)	*121*		*40 - 145*
Phenol-d5 (Surr)	*40*		*20 - 110*
Terphenyl-d14 (Surr)	*107*		*40 - 145*

Lab Sample ID: LCSD 500-799207/3-A
Matrix: Water
Analysis Batch: 799304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799207

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			0.0400	0.0208		mg/L		52	26 - 110	11	20
1,2-Dichlorobenzene			0.0400	0.0178		mg/L		45	26 - 110	16	20
1,3-Dichlorobenzene			0.0400	0.0172		mg/L		43	22 - 110	15	20
1,4-Dichlorobenzene			0.0400	0.0173		mg/L		43	23 - 110	13	20
2,4,5-Trichlorophenol			0.0400	0.0326		mg/L		82	63 - 124	11	20
2,4,6-Trichlorophenol			0.0400	0.0316		mg/L		79	62 - 121	14	20
2,4-Dichlorophenol			0.0400	0.0322		mg/L		80	58 - 120	10	20
2,4-Dimethylphenol			0.0400	0.0335		mg/L		84	51 - 115	8	20
2,4-Dinitrophenol			0.0800	0.0546	*1	mg/L		68	37 - 130	26	20
2,4-Dinitrotoluene			0.0400	0.0338	*1	mg/L		84	63 - 129	24	20
2,6-Dinitrotoluene			0.0400	0.0333	*1	mg/L		83	63 - 129	22	20
2-Chloronaphthalene			0.0400	0.0229		mg/L		57	39 - 110	14	20
Acenaphthene			0.0400	0.0253		mg/L		63	46 - 110	13	20
2-Chlorophenol			0.0400	0.0274		mg/L		69	59 - 110	13	20
Acenaphthylene			0.0400	0.0279		mg/L		70	47 - 113	14	20
Anthracene			0.0400	0.0328		mg/L		82	67 - 118	18	20
Benzo[a]anthracene			0.0400	0.0303		mg/L		76	70 - 126	15	20
2-Methylnaphthalene			0.0400	0.0215		mg/L		54	34 - 110	11	20
Benzo[a]pyrene			0.0400	0.0352		mg/L		88	70 - 135	19	20
2-Methylphenol			0.0400	0.0269		mg/L		67	53 - 115	10	20
Benzo[b]fluoranthene			0.0400	0.0360		mg/L		90	69 - 136	20	20
2-Nitroaniline			0.0400	0.0252		mg/L		63	59 - 138	19	20
Benzo[g,h,i]perylene			0.0400	0.0366		mg/L		92	70 - 135	14	20
2-Nitrophenol			0.0400	0.0301		mg/L		75	59 - 115	13	20
Benzo[k]fluoranthene			0.0400	0.0338	*1	mg/L		84	70 - 133	23	20

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-799207/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 799304
Prep Batch: 799207

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine			0.0400	0.0367		mg/L		92	60 - 132	12	20
3 & 4 Methylphenol			0.0400	0.0249		mg/L		62	50 - 116	12	20
3-Nitroaniline			0.0400	0.0298		mg/L		75	47 - 123	19	20
4,6-Dinitro-2-methylphenol			0.0800	0.0645		mg/L		81	50 - 129	19	20
4-Bromophenyl phenyl ether			0.0400	0.0335		mg/L		84	58 - 120	11	20
4-Chloro-3-methylphenol			0.0400	0.0299		mg/L		75	64 - 128	14	20
Chrysene			0.0400	0.0326		mg/L		82	68 - 129	12	20
4-Chloroaniline			0.0400	0.0308		mg/L		77	35 - 128	2	20
Dibenz(a,h)anthracene			0.0400	0.0367		mg/L		92	70 - 134	9	20
4-Chlorophenyl phenyl ether			0.0400	0.0281	*1	mg/L		70	48 - 116	21	20
4-Nitroaniline			0.0400	0.0276	*1	mg/L		69	35 - 110	22	20
4-Nitrophenol			0.0800	0.0267	*1	mg/L		33	20 - 110	22	20
Bis(2-chloroethoxy)methane			0.0400	0.0292		mg/L		73	59 - 118	15	20
Bis(2-chloroethyl)ether			0.0400	0.0274		mg/L		68	54 - 112	14	20
bis(chloroisopropyl) ether			0.0400	0.0218		mg/L		54	38 - 140	16	20
Fluoranthene			0.0400	0.0347	*1	mg/L		87	68 - 126	22	20
Bis(2-ethylhexyl) phthalate			0.0400	0.0338		mg/L		85	69 - 136	19	20
Fluorene			0.0400	0.0285		mg/L		71	53 - 120	18	20
Butyl benzyl phthalate			0.0400	0.0344		mg/L		86	68 - 135	18	20
Carbazole			0.0400	0.0316		mg/L		79	61 - 145	20	20
Dibenzofuran			0.0400	0.0273		mg/L		68	51 - 110	15	20
Diethyl phthalate			0.0400	0.0321	*1	mg/L		80	62 - 123	23	20
Dimethyl phthalate			0.0400	0.0317		mg/L		79	63 - 122	20	20
Indeno[1,2,3-cd]pyrene			0.0400	0.0353		mg/L		88	65 - 133	14	20
Di-n-butyl phthalate			0.0400	0.0348	*1	mg/L		87	69 - 129	23	20
Di-n-octyl phthalate			0.0400	0.0321		mg/L		80	68 - 137	17	20
Naphthalene			0.0400	0.0226		mg/L		56	36 - 110	13	20
Hexachlorobenzene			0.0400	0.0352		mg/L		88	61 - 126	13	20
Hexachlorobutadiene			0.0400	0.0196		mg/L		49	20 - 100	12	20
Hexachlorocyclopentadiene			0.0400	0.0172		mg/L		43	10 - 105	11	20
Hexachloroethane			0.0400	0.0153		mg/L		38	20 - 100	16	20
Isophorone			0.0400	0.0288		mg/L		72	54 - 127	17	20
Phenanthrene			0.0400	0.0323		mg/L		81	65 - 120	16	20
Nitrobenzene			0.0400	0.0271		mg/L		68	54 - 121	9	20
Pyrene			0.0400	0.0336		mg/L		84	70 - 126	19	20
N-Nitrosodi-n-propylamine			0.0400	0.0268		mg/L		67	47 - 131	17	20
N-Nitrosodiphenylamine			0.0400	0.0311		mg/L		78	66 - 120	17	20
Pentachlorophenol			0.0800	0.0522	*1	mg/L		65	42 - 148	21	20
Phenol			0.0400	0.0140		mg/L		35	33 - 100	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*52*		*27 - 110*
Nitrobenzene-d5 (Surr)	*71*		*36 - 120*
2-Fluorobiphenyl (Surr)	*68*		*34 - 110*
2,4,6-Tribromophenol (Surr)	*98*		*40 - 145*
Phenol-d5 (Surr)	*37*		*20 - 110*
Terphenyl-d14 (Surr)	*97*		*40 - 145*

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-799764/12-A
Matrix: Solid
Analysis Batch: 800174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		12/17/24 16:05	12/19/24 10:50	1

Lab Sample ID: LCS 500-799764/13-A
Matrix: Solid
Analysis Batch: 800174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799764

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.167	0.165		mg/Kg		99	80 - 120		

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261185-1

Client Sample ID: MW-301
Date Collected: 12/05/24 10:11
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261185-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3510C			799207	SV	EET CHI	12/12/24 16:26
Dissolved	Analysis	8270E		1	799376	JSB	EET CHI	12/14/24 02:39
Total/NA	Prep	3510C			798859	LG	EET CHI	12/11/24 07:14
Total/NA	Analysis	8270E		1	798918	H7CM	EET CHI	12/11/24 18:47

Client Sample ID: MW-302
Date Collected: 12/05/24 11:08
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261185-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3510C			798493	LG	EET CHI	12/09/24 07:25
Dissolved	Analysis	8270E		1	798711	WS	EET CHI	12/10/24 16:01
Total/NA	Prep	3510C			798859	LG	EET CHI	12/11/24 07:14
Total/NA	Analysis	8270E		1	798918	H7CM	EET CHI	12/11/24 19:08

Client Sample ID: MW-303
Date Collected: 12/05/24 12:30
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261185-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3510C			798493	LG	EET CHI	12/09/24 07:25
Dissolved	Analysis	8270E		1	798711	WS	EET CHI	12/10/24 16:23
Total/NA	Prep	3510C			798859	LG	EET CHI	12/11/24 07:14
Total/NA	Analysis	8270E		1	798918	H7CM	EET CHI	12/11/24 19:30

Client Sample ID: MW-304
Date Collected: 12/05/24 13:52
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261185-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3510C			798493	LG	EET CHI	12/09/24 07:25
Dissolved	Analysis	8270E		1	798711	WS	EET CHI	12/10/24 16:44
Total/NA	Prep	3510C			798859	LG	EET CHI	12/11/24 07:14
Total/NA	Analysis	8270E		1	800213	H7CM	EET CHI	12/20/24 00:01

Client Sample ID: MW-306
Date Collected: 12/05/24 14:30
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261185-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3510C			798493	LG	EET CHI	12/09/24 07:25
Dissolved	Analysis	8270E		1	798711	WS	EET CHI	12/10/24 17:06
Total/NA	Prep	3510C			798859	LG	EET CHI	12/11/24 07:14
Total/NA	Analysis	8270E		1	798918	H7CM	EET CHI	12/11/24 20:13

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261185-1

Client Sample ID: SB12 (0-3)
Date Collected: 12/05/24 15:07
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261185-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	798760	MF	EET CHI	12/10/24 10:58

Client Sample ID: SB12 (0-3)
Date Collected: 12/05/24 15:07
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261185-6
Matrix: Solid
Percent Solids: 70.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			799764	ER	EET CHI	12/17/24 16:05
Total/NA	Analysis	7471B		25	800174	MJG	EET CHI	12/19/24 12:18

Client Sample ID: SB13 (0-3)
Date Collected: 12/05/24 15:41
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261185-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	798760	MF	EET CHI	12/10/24 10:58

Client Sample ID: SB13 (0-3)
Date Collected: 12/05/24 15:41
Date Received: 12/06/24 17:52

Lab Sample ID: 500-261185-7
Matrix: Solid
Percent Solids: 65.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			799764	ER	EET CHI	12/17/24 16:05
Total/NA	Analysis	7471B		25	800174	MJG	EET CHI	12/19/24 12:19

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261185-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708 534 5211

MKE 232 Chain of Custody Record

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Client Information	Sampler: JM	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500 131397-51411 1
Client Contact: Jake Hartsock	Phone:	E-Mail: Jim Knapp@et.eurofinsus com	State of Origin:	Page: Page 1 of 24
Company: Pioneer Engineering & Environmental Srvc	PWSID:	Analysis Requested		Job #: 500-261185
Address: 2753 W 31st Street	Due Date Requested: TO DAY			Preservation Codes
City: Chicago	TAT Requested (days): JM			
State, Zip: IL, 60608	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: jhartsock@pioneerees com	WO #:			Other:
Project Name: 8080 District (24-0124 103)	Project #: 50023681			
Site:	SSOW#:			

500-261185 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8VOCs	8VOCs FILTERED	PNAs	PNAs FILTERED	TOTAL MERCURY	REACTIVE SULFIDE	Total Number of containers	Special Instructions/Note:
	Preservation Code:														
1	MW-301	12/5/24	1011	G	GW			X	X	X	X				
2	MW-302		1108		Solid					X	X				
3	MW-303		1230		Solid					X	X				
4	MW-304		152		Solid					X	X				
5	MW-306		230		Solid					X	X				
6	SB12(0-3)		307		SO							X			
7	SB19(0-3)		341		SO							X			
	[illegible]				Solid								X		[illegible]
					Solid										
					Solid										
					Solid										

JM

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12/6/24			12-6-24 1631	EETA
2		12-6-24 1752	EETA		12/6/24 1752	EETA
3		Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 0.9-0.3 Wet

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-261185-1

Login Number: 261185
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 12/31/2024 3:36:03 PM

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-261525-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
12/31/2024 3:36:03 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job Narrative
500-261525-1

Receipt
The samples were received on 12/12/2024 12:12 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-799899 was outside the method criteria for the following analyte(s): 2-Butanone (MEK), Acetone, Bromomethane, Carbon disulfide and Chloroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The following analytes recovered outside control limits for the LCS/LCSD associated with analytical batch 500-799899: Bromomethane and Carbon disulfide. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 500-799899 recovered outside control limits for the following analyte: Bromomethane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-800589 was outside the method criteria for the following analyte(s): 4-Nitroaniline, 4-Nitrophenol and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-800589 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside limits when using this list of analytes. The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 500-799970 and analytical batch 500-800589 recovered outside limits for the following analytes: Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. These results have been reported and qualified.

Method 8270E: The laboratory control sample (LCS) for preparation batch 500-799970 and analytical batch 500-800589 recovered outside control limits for the following surrogate: Phenol-d5 (Surr). No corrective action is required.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-800216/5). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside control limits: MW-311 (500-261525-4). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The continuing calibration verification (CCV) associated with batch 500-800216 recovered above the upper control limit for Chlordane (technical). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 500-800216/7).

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: MW-311 (500-261525-4). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: MW-310 (500-261525-3). Elevated reporting limits (RLs) are provided.

Job ID: 500-261525-1 (Continued) Eurofins Chicago

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6020B: The linear range check (LRC) recovered outside of control limits for Arsenic. Sample results within the high calibration standard have been qualified and reported: (LRC 500-799882/14)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-308 — Lab Sample ID: 500-261525-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0011		0.00080		mg/L	1		8270E	Dissolved
Aluminum	1.9		0.10		mg/L	1		6020B	Total Recoverable
Arsenic	0.0053	^5+	0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.043		0.0025		mg/L	1		6020B	Total Recoverable
Calcium	110		0.20		mg/L	1		6020B	Total Recoverable
Chromium	0.0061		0.0050		mg/L	1		6020B	Total Recoverable
Cobalt	0.0027		0.0010		mg/L	1		6020B	Total Recoverable
Copper	0.0072		0.0020		mg/L	1		6020B	Total Recoverable
Iron	18		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.0058		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	60		0.20		mg/L	1		6020B	Total Recoverable
Manganese	2.8		0.0025		mg/L	1		6020B	Total Recoverable
Nickel	0.0045		0.0020		mg/L	1		6020B	Total Recoverable
Potassium	20		0.50		mg/L	1		6020B	Total Recoverable
Sodium	26		0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.010		0.0050		mg/L	1		6020B	Total Recoverable
Zinc	0.042		0.020		mg/L	1		6020B	Total Recoverable
Aluminum	0.14		0.10		mg/L	1		6020B	Dissolved
Arsenic	0.0013	^5+	0.0010		mg/L	1		6020B	Dissolved
Barium	0.031		0.0025		mg/L	1		6020B	Dissolved
Calcium	100		0.20		mg/L	1		6020B	Dissolved
Iron	2.5		0.10		mg/L	1		6020B	Dissolved
Lead	0.00073		0.00050		mg/L	1		6020B	Dissolved
Magnesium	55		0.20		mg/L	1		6020B	Dissolved
Manganese	1.7		0.0025		mg/L	1		6020B	Dissolved
Potassium	20		0.50		mg/L	1		6020B	Dissolved
Sodium	25		0.20		mg/L	1		6020B	Dissolved

Client Sample ID: MW-309 — Lab Sample ID: 500-261525-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.00077		0.00012		mg/L	1		8270E	Total/NA
Benzo[a]pyrene	0.00093		0.00015		mg/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.0013		0.00015		mg/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	0.0013	*+	0.00077		mg/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.00043		0.00015		mg/L	1		8270E	Total/NA
Chrysene	0.0010		0.00015		mg/L	1		8270E	Total/NA
Fluoranthene	0.0017		0.00077		mg/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.0011	*+	0.00015		mg/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-309 (Continued)
Lab Sample ID: 500-261525-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0016		0.00077		mg/L	1		8270E	Total/NA
Pyrene	0.0019		0.00077		mg/L	1		8270E	Total/NA
Benzo[a]anthracene	0.00062		0.00013		mg/L	1		8270E	Dissolved
Benzo[a]pyrene	0.00078		0.00016		mg/L	1		8270E	Dissolved
Benzo[b]fluoranthene	0.00094		0.00016		mg/L	1		8270E	Dissolved
Benzo[k]fluoranthene	0.00033		0.00016		mg/L	1		8270E	Dissolved
Chrysene	0.00077		0.00016		mg/L	1		8270E	Dissolved
Fluoranthene	0.0013		0.00081		mg/L	1		8270E	Dissolved
Indeno[1,2,3-cd]pyrene	0.00056		0.00016		mg/L	1		8270E	Dissolved
Phenanthrene	0.0013		0.00081		mg/L	1		8270E	Dissolved
Pyrene	0.0015		0.00081		mg/L	1		8270E	Dissolved
Aluminum	56		0.10		mg/L	1		6020B	Total Recoverable
Antimony	0.049		0.0030		mg/L	1		6020B	Total Recoverable
Arsenic	0.066	^5+	0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.93		0.0025		mg/L	1		6020B	Total Recoverable
Beryllium	0.014		0.0010		mg/L	1		6020B	Total Recoverable
Cadmium	0.0030		0.00050		mg/L	1		6020B	Total Recoverable
Calcium	340		0.20		mg/L	1		6020B	Total Recoverable
Chromium	0.25		0.0050		mg/L	1		6020B	Total Recoverable
Cobalt	0.040		0.0010		mg/L	1		6020B	Total Recoverable
Copper	1.1		0.0020		mg/L	1		6020B	Total Recoverable
Iron	270		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.69		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	28		0.20		mg/L	1		6020B	Total Recoverable
Manganese	14		0.0025		mg/L	1		6020B	Total Recoverable
Nickel	0.18		0.0020		mg/L	1		6020B	Total Recoverable
Potassium	21		0.50		mg/L	1		6020B	Total Recoverable
Selenium	0.070		0.0025		mg/L	1		6020B	Total Recoverable
Silver	0.00065		0.00050		mg/L	1		6020B	Total Recoverable
Sodium	30		0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.27		0.0050		mg/L	1		6020B	Total Recoverable
Zinc	0.64		0.020		mg/L	1		6020B	Total Recoverable
Aluminum	0.58		0.10		mg/L	1		6020B	Dissolved
Antimony	0.0053		0.0030		mg/L	1		6020B	Dissolved
Arsenic	0.010	^5+	0.0010		mg/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-309 (Continued) — Lab Sample ID: 500-261525-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.025		0.0025		mg/L	1		6020B	Dissolved
Calcium	120		0.20		mg/L	1		6020B	Dissolved
Copper	0.014		0.0020		mg/L	1		6020B	Dissolved
Iron	3.4		0.10		mg/L	1		6020B	Dissolved
Lead	0.0074		0.00050		mg/L	1		6020B	Dissolved
Magnesium	1.5		0.20		mg/L	1		6020B	Dissolved
Manganese	0.13		0.0025		mg/L	1		6020B	Dissolved
Nickel	0.0020		0.0020		mg/L	1		6020B	Dissolved
Potassium	16		0.50		mg/L	1		6020B	Dissolved
Selenium	0.029		0.0025		mg/L	1		6020B	Dissolved
Sodium	29		0.20		mg/L	1		6020B	Dissolved
Vanadium	0.092		0.0050		mg/L	1		6020B	Dissolved
Mercury	0.00025		0.00020		mg/L	1		7470A	Total/NA
Cyanide, Total	0.043		0.0050		mg/L	1		9012B	Total/NA

Client Sample ID: MW-310 — Lab Sample ID: 500-261525-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0064		0.0050		mg/L	1		8260D	Total/NA
Acetone	0.075		0.010		mg/L	1		8260D	Total/NA
Toluene	0.00068		0.00050		mg/L	1		8260D	Total/NA
Benzo[a]pyrene	0.00022		0.00015		mg/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.00028		0.00015		mg/L	1		8270E	Total/NA
Benzo[a]anthracene	0.00016		0.00013		mg/L	1		8270E	Dissolved
Aluminum	0.82		0.10		mg/L	1		6020B	Total Recoverable
Arsenic	0.0010	^5+	0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.033		0.0025		mg/L	1		6020B	Total Recoverable
Calcium	150		0.20		mg/L	1		6020B	Total Recoverable
Manganese	0.0084		0.0025		mg/L	1		6020B	Total Recoverable
Potassium	43		0.50		mg/L	1		6020B	Total Recoverable
Selenium	0.014		0.0025		mg/L	1		6020B	Total Recoverable
Sodium	90		0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.0093		0.0050		mg/L	1		6020B	Total Recoverable
Aluminum	1.8		0.10		mg/L	1		6020B	Dissolved
Arsenic	0.0013	^5+	0.0010		mg/L	1		6020B	Dissolved
Barium	0.062		0.0025		mg/L	1		6020B	Dissolved
Calcium	120		0.20		mg/L	1		6020B	Dissolved
Iron	0.45		0.10		mg/L	1		6020B	Dissolved
Lead	0.00054		0.00050		mg/L	1		6020B	Dissolved
Magnesium	0.63		0.20		mg/L	1		6020B	Dissolved
Manganese	0.055		0.0025		mg/L	1		6020B	Dissolved
Nickel	0.0048		0.0020		mg/L	1		6020B	Dissolved
Potassium	57		0.50		mg/L	1		6020B	Dissolved
Selenium	0.018		0.0025		mg/L	1		6020B	Dissolved
Sodium	89		0.20		mg/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-310 (Continued) — Lab Sample ID: 500-261525-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.0074		0.0050		mg/L	1		6020B	Dissolved
Cyanide, Total	0.018		0.0050		mg/L	1		9012B	Total/NA

Client Sample ID: MW-311 — Lab Sample ID: 500-261525-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.00095		0.00079		mg/L	1		8270E	Total/NA
Benzo[a]anthracene	0.00043		0.00013		mg/L	1		8270E	Total/NA
Benzo[a]pyrene	0.00041		0.00016		mg/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.00045		0.00016		mg/L	1		8270E	Total/NA
Chrysene	0.00059		0.00016		mg/L	1		8270E	Total/NA
Fluoranthene	0.00088		0.00079		mg/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.00034	*+	0.00016		mg/L	1		8270E	Total/NA
Pyrene	0.0013		0.00079		mg/L	1		8270E	Total/NA
Aluminum	7.2		0.10		mg/L	1		6020B	Total Recoverable
Arsenic	0.022	^5+	0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.098		0.0025		mg/L	1		6020B	Total Recoverable
Calcium	250		0.20		mg/L	1		6020B	Total Recoverable
Chromium	0.017		0.0050		mg/L	1		6020B	Total Recoverable
Cobalt	0.011		0.0010		mg/L	1		6020B	Total Recoverable
Copper	0.017		0.0020		mg/L	1		6020B	Total Recoverable
Iron	20		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.031		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	83		0.20		mg/L	1		6020B	Total Recoverable
Manganese	0.93		0.0025		mg/L	1		6020B	Total Recoverable
Nickel	0.016		0.0020		mg/L	1		6020B	Total Recoverable
Potassium	16		0.50		mg/L	1		6020B	Total Recoverable
Selenium	0.0042		0.0025		mg/L	1		6020B	Total Recoverable
Sodium	44		0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.021		0.0050		mg/L	1		6020B	Total Recoverable
Zinc	0.082		0.020		mg/L	1		6020B	Total Recoverable
Aluminum	0.45		0.10		mg/L	1		6020B	Dissolved
Arsenic	0.0038	^5+	0.0010		mg/L	1		6020B	Dissolved
Barium	0.057		0.0025		mg/L	1		6020B	Dissolved
Calcium	140		0.20		mg/L	1		6020B	Dissolved
Copper	0.0027		0.0020		mg/L	1		6020B	Dissolved
Iron	1.4		0.10		mg/L	1		6020B	Dissolved
Lead	0.0031		0.00050		mg/L	1		6020B	Dissolved
Magnesium	29		0.20		mg/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-311 (Continued)
Lab Sample ID: 500-261525-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.28		0.0025		mg/L	1		6020B	Dissolved
Potassium	15		0.50		mg/L	1		6020B	Dissolved
Sodium	45		0.20		mg/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261525-1	MW-308	Water	12/11/24 11:49	12/12/24 12:12
500-261525-2	MW-309	Water	12/11/24 13:10	12/12/24 12:12
500-261525-3	MW-310	Water	12/11/24 14:18	12/12/24 12:12
500-261525-4	MW-311	Water	12/11/24 15:33	12/12/24 12:12

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-308
Lab Sample ID: 500-261525-1
Date Collected: 12/11/24 11:49
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			12/18/24 16:24	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			12/18/24 16:24	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			12/18/24 16:24	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			12/18/24 16:24	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 16:24	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			12/18/24 16:24	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			12/18/24 16:24	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			12/18/24 16:24	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			12/18/24 16:24	1
p-Dioxane	<0.10		0.10		mg/L			12/18/24 16:24	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			12/18/24 16:24	1
2-Hexanone	<0.0050		0.0050		mg/L			12/18/24 16:24	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			12/18/24 16:24	1
Acetone	<0.010		0.010		mg/L			12/18/24 16:24	1
Benzene	<0.00050		0.00050		mg/L			12/18/24 16:24	1
Bromodichloromethane	<0.0010		0.0010		mg/L			12/18/24 16:24	1
Bromoform	<0.0010		0.0010		mg/L			12/18/24 16:24	1
Bromomethane	<0.0030	*- *1	0.0030		mg/L			12/18/24 16:24	1
Carbon disulfide	<0.0020	*+	0.0020		mg/L			12/18/24 16:24	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			12/18/24 16:24	1
Chlorobenzene	<0.0010		0.0010		mg/L			12/18/24 16:24	1
Chloroethane	<0.0050		0.0050		mg/L			12/18/24 16:24	1
Chloroform	<0.0020		0.0020		mg/L			12/18/24 16:24	1
Chloromethane	<0.0050		0.0050		mg/L			12/18/24 16:24	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 16:24	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			12/18/24 16:24	1
Dibromochloromethane	<0.0010		0.0010		mg/L			12/18/24 16:24	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			12/18/24 16:24	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/18/24 16:24	1
Isopropylbenzene	<0.0010		0.0010		mg/L			12/18/24 16:24	1
m&p-Xylene	<0.0010		0.0010		mg/L			12/18/24 16:24	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			12/18/24 16:24	1
Methylene Chloride	<0.0050		0.0050		mg/L			12/18/24 16:24	1
Naphthalene	<0.0010		0.0010		mg/L			12/18/24 16:24	1
n-Butyl alcohol	<0.13		0.13		mg/L			12/18/24 16:24	1
o-Xylene	<0.00050		0.00050		mg/L			12/18/24 16:24	1
Styrene	<0.0010		0.0010		mg/L			12/18/24 16:24	1
Tetrachloroethene	<0.0010		0.0010		mg/L			12/18/24 16:24	1
Toluene	<0.00050		0.00050		mg/L			12/18/24 16:24	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/18/24 16:24	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 16:24	1
Trichloroethene	<0.00050		0.00050		mg/L			12/18/24 16:24	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			12/18/24 16:24	1
Vinyl acetate	<0.0020		0.0020		mg/L			12/18/24 16:24	1
Vinyl chloride	<0.0010		0.0010		mg/L			12/18/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*12/18/24 16:24*	*1*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*12/18/24 16:24*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*12/18/24 16:24*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-308
Lab Sample ID: 500-261525-1
Date Collected: 12/11/24 11:49
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*104*		*75 - 120*		*12/18/24 16:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00089		0.00089		mg/L		12/18/24 13:54	12/23/24 21:00	1
Acenaphthylene	<0.00089		0.00089		mg/L		12/18/24 13:54	12/23/24 21:00	1
Anthracene	<0.00089		0.00089		mg/L		12/18/24 13:54	12/23/24 21:00	1
Benzo[a]anthracene	<0.00015		0.00015		mg/L		12/18/24 13:54	12/23/24 21:00	1
Benzo[a]pyrene	<0.00018		0.00018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Benzo[b]fluoranthene	<0.00018		0.00018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Benzo[g,h,i]perylene	<0.00089	*+	0.00089		mg/L		12/18/24 13:54	12/23/24 21:00	1
Benzo[k]fluoranthene	<0.00018		0.00018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Chrysene	<0.00018		0.00018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Dibenz(a,h)anthracene	<0.00027	*+	0.00027		mg/L		12/18/24 13:54	12/23/24 21:00	1
Fluoranthene	<0.00089		0.00089		mg/L		12/18/24 13:54	12/23/24 21:00	1
Fluorene	<0.00089		0.00089		mg/L		12/18/24 13:54	12/23/24 21:00	1
Indeno[1,2,3-cd]pyrene	<0.00018	*+	0.00018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Naphthalene	<0.00089		0.00089		mg/L		12/18/24 13:54	12/23/24 21:00	1
Phenanthrene	<0.00089		0.00089		mg/L		12/18/24 13:54	12/23/24 21:00	1
Pyrene	<0.00089		0.00089		mg/L		12/18/24 13:54	12/23/24 21:00	1
1,2,4-Trichlorobenzene	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
1,2-Dichlorobenzene	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
1,3-Dichlorobenzene	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
1,4-Dichlorobenzene	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
2,4,5-Trichlorophenol	<0.0089		0.0089		mg/L		12/18/24 13:54	12/23/24 21:00	1
2,4,6-Trichlorophenol	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1
2,4-Dichlorophenol	<0.0089		0.0089		mg/L		12/18/24 13:54	12/23/24 21:00	1
2,4-Dimethylphenol	<0.0089		0.0089		mg/L		12/18/24 13:54	12/23/24 21:00	1
2,4-Dinitrophenol	<0.018		0.018		mg/L		12/18/24 13:54	12/23/24 21:00	1
2,4-Dinitrotoluene	<0.00089		0.00089		mg/L		12/18/24 13:54	12/23/24 21:00	1
2,6-Dinitrotoluene	<0.00089		0.00089		mg/L		12/18/24 13:54	12/23/24 21:00	1
2-Chloronaphthalene	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
2-Chlorophenol	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1
2-Methylnaphthalene	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
2-Methylphenol	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
2-Nitroaniline	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1
2-Nitrophenol	<0.0089		0.0089		mg/L		12/18/24 13:54	12/23/24 21:00	1
3,3'-Dichlorobenzidine	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1
3 & 4 Methylphenol	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
3-Nitroaniline	<0.0089		0.0089		mg/L		12/18/24 13:54	12/23/24 21:00	1
4,6-Dinitro-2-methylphenol	<0.018		0.018		mg/L		12/18/24 13:54	12/23/24 21:00	1
4-Bromophenyl phenyl ether	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1
4-Chloro-3-methylphenol	<0.0089		0.0089		mg/L		12/18/24 13:54	12/23/24 21:00	1
4-Chloroaniline	<0.0089		0.0089		mg/L		12/18/24 13:54	12/23/24 21:00	1
4-Chlorophenyl phenyl ether	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1
4-Nitroaniline	<0.0089		0.0089		mg/L		12/18/24 13:54	12/23/24 21:00	1
4-Nitrophenol	<0.018		0.018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Bis(2-chloroethoxy)methane	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Bis(2-chloroethyl)ether	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1

Client Sample ID: MW-308
Lab Sample ID: 500-261525-1
Date Collected: 12/11/24 11:49
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis(chloroisopropyl) ether	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Bis(2-ethylhexyl) phthalate	<0.0089		0.0089		mg/L		12/18/24 13:54	12/23/24 21:00	1
Butyl benzyl phthalate	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Carbazole	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1
Dibenzofuran	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Diethyl phthalate	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1
Dimethyl phthalate	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1
Di-n-butyl phthalate	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1
Di-n-octyl phthalate	<0.0089		0.0089		mg/L		12/18/24 13:54	12/23/24 21:00	1
Hexachlorobenzene	<0.00045		0.00045		mg/L		12/18/24 13:54	12/23/24 21:00	1
Hexachlorobutadiene	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1
Hexachlorocyclopentadiene	<0.018		0.018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Hexachloroethane	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1
Isophorone	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Nitrobenzene	<0.00089		0.00089		mg/L		12/18/24 13:54	12/23/24 21:00	1
N-Nitrosodi-n-propylamine	<0.00045		0.00045		mg/L		12/18/24 13:54	12/23/24 21:00	1
N-Nitrosodiphenylamine	<0.0018		0.0018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Pentachlorophenol	<0.018		0.018		mg/L		12/18/24 13:54	12/23/24 21:00	1
Phenol	<0.0045		0.0045		mg/L		12/18/24 13:54	12/23/24 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*40 - 145*	*12/18/24 13:54*	*12/23/24 21:00*	*1*
2-Fluorobiphenyl (Surr)	*71*		*34 - 110*	*12/18/24 13:54*	*12/23/24 21:00*	*1*
2-Fluorophenol (Surr)	*50*		*27 - 110*	*12/18/24 13:54*	*12/23/24 21:00*	*1*
Nitrobenzene-d5 (Surr)	*73*		*36 - 120*	*12/18/24 13:54*	*12/23/24 21:00*	*1*
Phenol-d5 (Surr)	*33*		*20 - 110*	*12/18/24 13:54*	*12/23/24 21:00*	*1*
Terphenyl-d14 (Surr)	*98*		*40 - 145*	*12/18/24 13:54*	*12/23/24 21:00*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 19:22	1
Acenaphthylene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 19:22	1
Anthracene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 19:22	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/17/24 13:48	12/19/24 19:22	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 19:22	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 19:22	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 19:22	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 19:22	1
Chrysene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 19:22	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/17/24 13:48	12/19/24 19:22	1
Fluoranthene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 19:22	1
Fluorene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 19:22	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 19:22	1
Naphthalene	**0.0011**		0.00080		mg/L		12/17/24 13:48	12/19/24 19:22	1
Phenanthrene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 19:22	1
Pyrene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*	*12/17/24 13:48*	*12/19/24 19:22*	*1*
2-Fluorobiphenyl (Surr)	*68*		*34 - 110*	*12/17/24 13:48*	*12/19/24 19:22*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-308
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Date Collected: 12/11/24 11:49
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*91*		*40 - 145*	*12/17/24 13:48*	*12/19/24 19:22*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
4,4'-DDE	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
4,4'-DDT	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
Aldrin	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
alpha-BHC	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
alpha-Chlordane	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
beta-BHC	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
Chlordane (technical)	<0.00026		0.00026		mg/L		12/18/24 09:59	12/19/24 18:34	1
delta-BHC	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
Dieldrin	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
Endosulfan I	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
Endosulfan II	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
Endosulfan sulfate	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
Endrin	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
Endrin aldehyde	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
Endrin ketone	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
gamma-BHC (Lindane)	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
gamma-Chlordane	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
Heptachlor	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
Heptachlor epoxide	<0.00013		0.00013		mg/L		12/18/24 09:59	12/19/24 18:34	1
Methoxychlor	<0.00026		0.00026		mg/L		12/18/24 09:59	12/19/24 18:34	1
Toxaphene	<0.0013		0.0013		mg/L		12/18/24 09:59	12/19/24 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*49*		*30 - 130*	*12/18/24 09:59*	*12/19/24 18:34*	*1*
Tetrachloro-m-xylene	*55*		*30 - 120*	*12/18/24 09:59*	*12/19/24 18:34*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0013		0.0013		mg/L		12/18/24 09:59	12/19/24 12:36	1
PCB-1221	<0.0013		0.0013		mg/L		12/18/24 09:59	12/19/24 12:36	1
PCB-1232	<0.0013		0.0013		mg/L		12/18/24 09:59	12/19/24 12:36	1
PCB-1242	<0.0013		0.0013		mg/L		12/18/24 09:59	12/19/24 12:36	1
PCB-1248	<0.0013		0.0013		mg/L		12/18/24 09:59	12/19/24 12:36	1
PCB-1254	<0.0013		0.0013		mg/L		12/18/24 09:59	12/19/24 12:36	1
PCB-1260	<0.0013		0.0013		mg/L		12/18/24 09:59	12/19/24 12:36	1
Polychlorinated biphenyls, Total	<0.0013		0.0013		mg/L		12/18/24 09:59	12/19/24 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*50*		*30 - 120*	*12/18/24 09:59*	*12/19/24 12:36*	*1*
DCB Decachlorobiphenyl	*62*		*30 - 140*	*12/18/24 09:59*	*12/19/24 12:36*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.9**		0.10		mg/L		12/16/24 08:29	12/17/24 17:13	1
Antimony	<0.0030		0.0030		mg/L		12/16/24 08:29	12/17/24 17:13	1

Client Sample ID: MW-308
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Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0053**	**^5+**	0.0010		mg/L		12/16/24 08:29	12/17/24 17:13	1
Barium	**0.043**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:13	1
Beryllium	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:13	1
Cadmium	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:13	1
Calcium	**110**		0.20		mg/L		12/16/24 08:29	12/18/24 14:09	1
Chromium	**0.0061**		0.0050		mg/L		12/16/24 08:29	12/17/24 17:13	1
Cobalt	**0.0027**		0.0010		mg/L		12/16/24 08:29	12/17/24 17:13	1
Copper	**0.0072**		0.0020		mg/L		12/16/24 08:29	12/17/24 17:13	1
Iron	**18**		0.10		mg/L		12/16/24 08:29	12/17/24 17:13	1
Lead	**0.0058**		0.00050		mg/L		12/16/24 08:29	12/17/24 17:13	1
Magnesium	**60**		0.20		mg/L		12/16/24 08:29	12/17/24 17:13	1
Manganese	**2.8**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:13	1
Nickel	**0.0045**		0.0020		mg/L		12/16/24 08:29	12/17/24 17:13	1
Potassium	**20**		0.50		mg/L		12/16/24 08:29	12/17/24 17:13	1
Selenium	<0.0025		0.0025		mg/L		12/16/24 08:29	12/17/24 17:13	1
Silver	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:13	1
Sodium	**26**		0.20		mg/L		12/16/24 08:29	12/17/24 17:13	1
Thallium	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:13	1
Vanadium	**0.010**		0.0050		mg/L		12/16/24 08:29	12/17/24 17:13	1
Zinc	**0.042**		0.020		mg/L		12/16/24 08:29	12/17/24 17:13	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.14**		0.10		mg/L		12/16/24 08:29	12/17/24 17:23	1
Antimony	<0.0030		0.0030		mg/L		12/16/24 08:29	12/17/24 17:23	1
Arsenic	**0.0013**	**^5+**	0.0010		mg/L		12/16/24 08:29	12/17/24 17:23	1
Barium	**0.031**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:23	1
Beryllium	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:23	1
Cadmium	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:23	1
Calcium	**100**		0.20		mg/L		12/16/24 08:29	12/18/24 14:19	1
Chromium	<0.0050		0.0050		mg/L		12/16/24 08:29	12/17/24 17:23	1
Cobalt	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:23	1
Copper	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:23	1
Iron	**2.5**		0.10		mg/L		12/16/24 08:29	12/17/24 17:23	1
Lead	**0.00073**		0.00050		mg/L		12/16/24 08:29	12/17/24 17:23	1
Magnesium	**55**		0.20		mg/L		12/16/24 08:29	12/17/24 17:23	1
Manganese	**1.7**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:23	1
Nickel	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:23	1
Potassium	**20**		0.50		mg/L		12/16/24 08:29	12/17/24 17:23	1
Selenium	<0.0025		0.0025		mg/L		12/16/24 08:29	12/17/24 17:23	1
Silver	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:23	1
Sodium	**25**		0.20		mg/L		12/16/24 08:29	12/17/24 17:23	1
Thallium	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:23	1
Vanadium	<0.0050		0.0050		mg/L		12/16/24 08:29	12/17/24 17:23	1
Zinc	<0.020		0.020		mg/L		12/16/24 08:29	12/17/24 17:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/26/24 11:20	12/27/24 09:52	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-308
Lab Sample ID: 500-261525-1
Date Collected: 12/11/24 11:49
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/26/24 11:20	12/27/24 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0050		0.0050		mg/L		12/16/24 08:27	12/16/24 10:48	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-309
Date Collected: 12/11/24 13:10
Date Received: 12/12/24 12:12

Lab Sample ID: 500-261525-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			12/18/24 16:48	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			12/18/24 16:48	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			12/18/24 16:48	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			12/18/24 16:48	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 16:48	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			12/18/24 16:48	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			12/18/24 16:48	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			12/18/24 16:48	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			12/18/24 16:48	1
p-Dioxane	<0.10		0.10		mg/L			12/18/24 16:48	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			12/18/24 16:48	1
2-Hexanone	<0.0050		0.0050		mg/L			12/18/24 16:48	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			12/18/24 16:48	1
Acetone	<0.010		0.010		mg/L			12/18/24 16:48	1
Benzene	<0.00050		0.00050		mg/L			12/18/24 16:48	1
Bromodichloromethane	<0.0010		0.0010		mg/L			12/18/24 16:48	1
Bromoform	<0.0010		0.0010		mg/L			12/18/24 16:48	1
Bromomethane	<0.0030	*- *1	0.0030		mg/L			12/18/24 16:48	1
Carbon disulfide	<0.0020	*+	0.0020		mg/L			12/18/24 16:48	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			12/18/24 16:48	1
Chlorobenzene	<0.0010		0.0010		mg/L			12/18/24 16:48	1
Chloroethane	<0.0050		0.0050		mg/L			12/18/24 16:48	1
Chloroform	<0.0020		0.0020		mg/L			12/18/24 16:48	1
Chloromethane	<0.0050		0.0050		mg/L			12/18/24 16:48	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 16:48	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			12/18/24 16:48	1
Dibromochloromethane	<0.0010		0.0010		mg/L			12/18/24 16:48	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			12/18/24 16:48	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/18/24 16:48	1
Isopropylbenzene	<0.0010		0.0010		mg/L			12/18/24 16:48	1
m&p-Xylene	<0.0010		0.0010		mg/L			12/18/24 16:48	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			12/18/24 16:48	1
Methylene Chloride	<0.0050		0.0050		mg/L			12/18/24 16:48	1
Naphthalene	<0.0010		0.0010		mg/L			12/18/24 16:48	1
n-Butyl alcohol	<0.13		0.13		mg/L			12/18/24 16:48	1
o-Xylene	<0.00050		0.00050		mg/L			12/18/24 16:48	1
Styrene	<0.0010		0.0010		mg/L			12/18/24 16:48	1
Tetrachloroethene	<0.0010		0.0010		mg/L			12/18/24 16:48	1
Toluene	<0.00050		0.00050		mg/L			12/18/24 16:48	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/18/24 16:48	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 16:48	1
Trichloroethene	<0.00050		0.00050		mg/L			12/18/24 16:48	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			12/18/24 16:48	1
Vinyl acetate	<0.0020		0.0020		mg/L			12/18/24 16:48	1
Vinyl chloride	<0.0010		0.0010		mg/L			12/18/24 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*12/18/24 16:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*12/18/24 16:48*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*12/18/24 16:48*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-309
Lab Sample ID: 500-261525-2
Date Collected: 12/11/24 13:10
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*104*		*75 - 120*		*12/18/24 16:48*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:21	1
Acenaphthylene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:21	1
Anthracene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:21	1
Benzo[a]anthracene	**0.00077**		0.00012		mg/L		12/18/24 13:54	12/23/24 21:21	1
Benzo[a]pyrene	**0.00093**		0.00015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Benzo[b]fluoranthene	**0.0013**		0.00015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Benzo[g,h,i]perylene	**0.0013**	*+	0.00077		mg/L		12/18/24 13:54	12/23/24 21:21	1
Benzo[k]fluoranthene	**0.00043**		0.00015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Chrysene	**0.0010**		0.00015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Dibenz(a,h)anthracene	<0.00023	*+	0.00023		mg/L		12/18/24 13:54	12/23/24 21:21	1
Fluoranthene	**0.0017**		0.00077		mg/L		12/18/24 13:54	12/23/24 21:21	1
Fluorene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:21	1
Indeno[1,2,3-cd]pyrene	**0.0011**	*+	0.00015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Naphthalene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:21	1
Phenanthrene	**0.0016**		0.00077		mg/L		12/18/24 13:54	12/23/24 21:21	1
Pyrene	**0.0019**		0.00077		mg/L		12/18/24 13:54	12/23/24 21:21	1
1,2,4-Trichlorobenzene	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
1,2-Dichlorobenzene	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
1,3-Dichlorobenzene	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
1,4-Dichlorobenzene	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
2,4,5-Trichlorophenol	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:21	1
2,4,6-Trichlorophenol	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1
2,4-Dichlorophenol	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:21	1
2,4-Dimethylphenol	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:21	1
2,4-Dinitrophenol	<0.015		0.015		mg/L		12/18/24 13:54	12/23/24 21:21	1
2,4-Dinitrotoluene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:21	1
2,6-Dinitrotoluene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:21	1
2-Chloronaphthalene	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
2-Chlorophenol	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1
2-Methylnaphthalene	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
2-Methylphenol	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
2-Nitroaniline	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1
2-Nitrophenol	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:21	1
3,3'-Dichlorobenzidine	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1
3 & 4 Methylphenol	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
3-Nitroaniline	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:21	1
4,6-Dinitro-2-methylphenol	<0.015		0.015		mg/L		12/18/24 13:54	12/23/24 21:21	1
4-Bromophenyl phenyl ether	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1
4-Chloro-3-methylphenol	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:21	1
4-Chloroaniline	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:21	1
4-Chlorophenyl phenyl ether	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1
4-Nitroaniline	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:21	1
4-Nitrophenol	<0.015		0.015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Bis(2-chloroethoxy)methane	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Bis(2-chloroethyl)ether	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-309
Lab Sample ID: 500-261525-2
Date Collected: 12/11/24 13:10
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis(chloroisopropyl) ether	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Bis(2-ethylhexyl) phthalate	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:21	1
Butyl benzyl phthalate	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Carbazole	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1
Dibenzofuran	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Diethyl phthalate	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1
Dimethyl phthalate	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1
Di-n-butyl phthalate	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1
Di-n-octyl phthalate	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:21	1
Hexachlorobenzene	<0.00038		0.00038		mg/L		12/18/24 13:54	12/23/24 21:21	1
Hexachlorobutadiene	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1
Hexachlorocyclopentadiene	<0.015		0.015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Hexachloroethane	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1
Isophorone	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Nitrobenzene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:21	1
N-Nitrosodi-n-propylamine	<0.00038		0.00038		mg/L		12/18/24 13:54	12/23/24 21:21	1
N-Nitrosodiphenylamine	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Pentachlorophenol	<0.015		0.015		mg/L		12/18/24 13:54	12/23/24 21:21	1
Phenol	<0.0038		0.0038		mg/L		12/18/24 13:54	12/23/24 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*40 - 145*	*12/18/24 13:54*	*12/23/24 21:21*	*1*
2-Fluorobiphenyl (Surr)	*65*		*34 - 110*	*12/18/24 13:54*	*12/23/24 21:21*	*1*
2-Fluorophenol (Surr)	*40*		*27 - 110*	*12/18/24 13:54*	*12/23/24 21:21*	*1*
Nitrobenzene-d5 (Surr)	*62*		*36 - 120*	*12/18/24 13:54*	*12/23/24 21:21*	*1*
Phenol-d5 (Surr)	*26*		*20 - 110*	*12/18/24 13:54*	*12/23/24 21:21*	*1*
Terphenyl-d14 (Surr)	*102*		*40 - 145*	*12/18/24 13:54*	*12/23/24 21:21*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 19:43	1
Acenaphthylene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 19:43	1
Anthracene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 19:43	1
Benzo[a]anthracene	**0.00062**		0.00013		mg/L		12/17/24 13:48	12/19/24 19:43	1
Benzo[a]pyrene	**0.00078**		0.00016		mg/L		12/17/24 13:48	12/19/24 19:43	1
Benzo[b]fluoranthene	**0.00094**		0.00016		mg/L		12/17/24 13:48	12/19/24 19:43	1
Benzo[g,h,i]perylene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 19:43	1
Benzo[k]fluoranthene	**0.00033**		0.00016		mg/L		12/17/24 13:48	12/19/24 19:43	1
Chrysene	**0.00077**		0.00016		mg/L		12/17/24 13:48	12/19/24 19:43	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/17/24 13:48	12/19/24 19:43	1
Fluoranthene	**0.0013**		0.00081		mg/L		12/17/24 13:48	12/19/24 19:43	1
Fluorene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 19:43	1
Indeno[1,2,3-cd]pyrene	**0.00056**		0.00016		mg/L		12/17/24 13:48	12/19/24 19:43	1
Naphthalene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 19:43	1
Phenanthrene	**0.0013**		0.00081		mg/L		12/17/24 13:48	12/19/24 19:43	1
Pyrene	**0.0015**		0.00081		mg/L		12/17/24 13:48	12/19/24 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*75*		*36 - 120*	*12/17/24 13:48*	*12/19/24 19:43*	*1*
2-Fluorobiphenyl (Surr)	*64*		*34 - 110*	*12/17/24 13:48*	*12/19/24 19:43*	*1*

Client Sample ID: MW-309
Lab Sample ID: 500-261525-2
Date Collected: 12/11/24 13:10
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*85*		*40 - 145*	*12/17/24 13:48*	*12/19/24 19:43*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
4,4'-DDE	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
4,4'-DDT	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
Aldrin	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
alpha-BHC	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
alpha-Chlordane	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
beta-BHC	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
Chlordane (technical)	<0.00022		0.00022		mg/L		12/18/24 09:59	12/19/24 18:46	1
delta-BHC	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
Dieldrin	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
Endosulfan I	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
Endosulfan II	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
Endosulfan sulfate	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
Endrin	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
Endrin aldehyde	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
Endrin ketone	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
gamma-BHC (Lindane)	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
gamma-Chlordane	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
Heptachlor	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
Heptachlor epoxide	<0.00011		0.00011		mg/L		12/18/24 09:59	12/19/24 18:46	1
Methoxychlor	<0.00022		0.00022		mg/L		12/18/24 09:59	12/19/24 18:46	1
Toxaphene	<0.0011		0.0011		mg/L		12/18/24 09:59	12/19/24 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*31*		*30 - 130*	*12/18/24 09:59*	*12/19/24 18:46*	*1*
Tetrachloro-m-xylene	*46*		*30 - 120*	*12/18/24 09:59*	*12/19/24 18:46*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0011		0.0011		mg/L		12/18/24 09:59	12/19/24 12:50	1
PCB-1221	<0.0011		0.0011		mg/L		12/18/24 09:59	12/19/24 12:50	1
PCB-1232	<0.0011		0.0011		mg/L		12/18/24 09:59	12/19/24 12:50	1
PCB-1242	<0.0011		0.0011		mg/L		12/18/24 09:59	12/19/24 12:50	1
PCB-1248	<0.0011		0.0011		mg/L		12/18/24 09:59	12/19/24 12:50	1
PCB-1254	<0.0011		0.0011		mg/L		12/18/24 09:59	12/19/24 12:50	1
PCB-1260	<0.0011		0.0011		mg/L		12/18/24 09:59	12/19/24 12:50	1
Polychlorinated biphenyls, Total	<0.0011		0.0011		mg/L		12/18/24 09:59	12/19/24 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*47*		*30 - 120*	*12/18/24 09:59*	*12/19/24 12:50*	*1*
DCB Decachlorobiphenyl	*35*		*30 - 140*	*12/18/24 09:59*	*12/19/24 12:50*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**56**		0.10		mg/L		12/16/24 08:29	12/17/24 17:16	1
Antimony	**0.049**		0.0030		mg/L		12/16/24 08:29	12/17/24 17:16	1

Client Sample ID: MW-309
Lab Sample ID: 500-261525-2
Date Collected: 12/11/24 13:10
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.066	^5+	0.0010		mg/L		12/16/24 08:29	12/17/24 17:16	1
Barium	0.93		0.0025		mg/L		12/16/24 08:29	12/17/24 17:16	1
Beryllium	0.014		0.0010		mg/L		12/16/24 08:29	12/17/24 17:16	1
Cadmium	0.0030		0.00050		mg/L		12/16/24 08:29	12/17/24 17:16	1
Calcium	340		0.20		mg/L		12/16/24 08:29	12/18/24 14:12	1
Chromium	0.25		0.0050		mg/L		12/16/24 08:29	12/17/24 17:16	1
Cobalt	0.040		0.0010		mg/L		12/16/24 08:29	12/17/24 17:16	1
Copper	1.1		0.0020		mg/L		12/16/24 08:29	12/17/24 17:16	1
Iron	270		0.10		mg/L		12/16/24 08:29	12/17/24 17:16	1
Lead	0.69		0.00050		mg/L		12/16/24 08:29	12/17/24 17:16	1
Magnesium	28		0.20		mg/L		12/16/24 08:29	12/17/24 17:16	1
Manganese	14		0.0025		mg/L		12/16/24 08:29	12/17/24 17:16	1
Nickel	0.18		0.0020		mg/L		12/16/24 08:29	12/17/24 17:16	1
Potassium	21		0.50		mg/L		12/16/24 08:29	12/17/24 17:16	1
Selenium	0.070		0.0025		mg/L		12/16/24 08:29	12/17/24 17:16	1
Silver	0.00065		0.00050		mg/L		12/16/24 08:29	12/17/24 17:16	1
Sodium	30		0.20		mg/L		12/16/24 08:29	12/17/24 17:16	1
Thallium	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:16	1
Vanadium	0.27		0.0050		mg/L		12/16/24 08:29	12/17/24 17:16	1
Zinc	0.64		0.020		mg/L		12/16/24 08:29	12/17/24 17:16	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.58		0.10		mg/L		12/16/24 08:29	12/17/24 17:26	1
Antimony	0.0053		0.0030		mg/L		12/16/24 08:29	12/17/24 17:26	1
Arsenic	0.010	^5+	0.0010		mg/L		12/16/24 08:29	12/17/24 17:26	1
Barium	0.025		0.0025		mg/L		12/16/24 08:29	12/17/24 17:26	1
Beryllium	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:26	1
Cadmium	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:26	1
Calcium	120		0.20		mg/L		12/16/24 08:29	12/18/24 14:22	1
Chromium	<0.0050		0.0050		mg/L		12/16/24 08:29	12/17/24 17:26	1
Cobalt	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:26	1
Copper	0.014		0.0020		mg/L		12/16/24 08:29	12/17/24 17:26	1
Iron	3.4		0.10		mg/L		12/16/24 08:29	12/17/24 17:26	1
Lead	0.0074		0.00050		mg/L		12/16/24 08:29	12/17/24 17:26	1
Magnesium	1.5		0.20		mg/L		12/16/24 08:29	12/17/24 17:26	1
Manganese	0.13		0.0025		mg/L		12/16/24 08:29	12/17/24 17:26	1
Nickel	0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:26	1
Potassium	16		0.50		mg/L		12/16/24 08:29	12/17/24 17:26	1
Selenium	0.029		0.0025		mg/L		12/16/24 08:29	12/17/24 17:26	1
Silver	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:26	1
Sodium	29		0.20		mg/L		12/16/24 08:29	12/17/24 17:26	1
Thallium	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:26	1
Vanadium	0.092		0.0050		mg/L		12/16/24 08:29	12/17/24 17:26	1
Zinc	<0.020		0.020		mg/L		12/16/24 08:29	12/17/24 17:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00025		0.00020		mg/L		12/26/24 11:20	12/27/24 09:54	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-309
Lab Sample ID: 500-261525-2
Date Collected: 12/11/24 13:10
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/26/24 11:20	12/27/24 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.043		0.0050		mg/L		12/16/24 08:27	12/16/24 10:57	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-310
Lab Sample ID: 500-261525-3
Date Collected: 12/11/24 14:18
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			12/18/24 17:12	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			12/18/24 17:12	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			12/18/24 17:12	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			12/18/24 17:12	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 17:12	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			12/18/24 17:12	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			12/18/24 17:12	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			12/18/24 17:12	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			12/18/24 17:12	1
p-Dioxane	<0.10		0.10		mg/L			12/18/24 17:12	1
2-Butanone (MEK)	**0.0064**		0.0050		mg/L			12/18/24 17:12	1
2-Hexanone	<0.0050		0.0050		mg/L			12/18/24 17:12	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			12/18/24 17:12	1
Acetone	**0.075**		0.010		mg/L			12/18/24 17:12	1
Benzene	<0.00050		0.00050		mg/L			12/18/24 17:12	1
Bromodichloromethane	<0.0010		0.0010		mg/L			12/18/24 17:12	1
Bromoform	<0.0010		0.0010		mg/L			12/18/24 17:12	1
Bromomethane	<0.0030	*- *1	0.0030		mg/L			12/18/24 17:12	1
Carbon disulfide	<0.0020	*+	0.0020		mg/L			12/18/24 17:12	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			12/18/24 17:12	1
Chlorobenzene	<0.0010		0.0010		mg/L			12/18/24 17:12	1
Chloroethane	<0.0050		0.0050		mg/L			12/18/24 17:12	1
Chloroform	<0.0020		0.0020		mg/L			12/18/24 17:12	1
Chloromethane	<0.0050		0.0050		mg/L			12/18/24 17:12	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 17:12	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			12/18/24 17:12	1
Dibromochloromethane	<0.0010		0.0010		mg/L			12/18/24 17:12	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			12/18/24 17:12	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/18/24 17:12	1
Isopropylbenzene	<0.0010		0.0010		mg/L			12/18/24 17:12	1
m&p-Xylene	<0.0010		0.0010		mg/L			12/18/24 17:12	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			12/18/24 17:12	1
Methylene Chloride	<0.0050		0.0050		mg/L			12/18/24 17:12	1
Naphthalene	<0.0010		0.0010		mg/L			12/18/24 17:12	1
n-Butyl alcohol	<0.13		0.13		mg/L			12/18/24 17:12	1
o-Xylene	<0.00050		0.00050		mg/L			12/18/24 17:12	1
Styrene	<0.0010		0.0010		mg/L			12/18/24 17:12	1
Tetrachloroethene	<0.0010		0.0010		mg/L			12/18/24 17:12	1
Toluene	**0.00068**		0.00050		mg/L			12/18/24 17:12	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/18/24 17:12	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 17:12	1
Trichloroethene	<0.00050		0.00050		mg/L			12/18/24 17:12	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			12/18/24 17:12	1
Vinyl acetate	<0.0020		0.0020		mg/L			12/18/24 17:12	1
Vinyl chloride	<0.0010		0.0010		mg/L			12/18/24 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*12/18/24 17:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*12/18/24 17:12*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*12/18/24 17:12*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-310
Lab Sample ID: 500-261525-3
Date Collected: 12/11/24 14:18
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*105*		*75 - 120*		*12/18/24 17:12*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:43	1
Acenaphthylene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:43	1
Anthracene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:43	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/18/24 13:54	12/23/24 21:43	1
Benzo[a]pyrene	**0.00022**		0.00015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Benzo[b]fluoranthene	**0.00028**		0.00015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Benzo[g,h,i]perylene	<0.00077	*+	0.00077		mg/L		12/18/24 13:54	12/23/24 21:43	1
Benzo[k]fluoranthene	<0.00015		0.00015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Chrysene	<0.00015		0.00015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Dibenz(a,h)anthracene	<0.00023	*+	0.00023		mg/L		12/18/24 13:54	12/23/24 21:43	1
Fluoranthene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:43	1
Fluorene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:43	1
Indeno[1,2,3-cd]pyrene	<0.00015	*+	0.00015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Naphthalene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:43	1
Phenanthrene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:43	1
Pyrene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:43	1
1,2,4-Trichlorobenzene	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
1,2-Dichlorobenzene	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
1,3-Dichlorobenzene	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
1,4-Dichlorobenzene	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
2,4,5-Trichlorophenol	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:43	1
2,4,6-Trichlorophenol	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1
2,4-Dichlorophenol	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:43	1
2,4-Dimethylphenol	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:43	1
2,4-Dinitrophenol	<0.015		0.015		mg/L		12/18/24 13:54	12/23/24 21:43	1
2,4-Dinitrotoluene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:43	1
2,6-Dinitrotoluene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:43	1
2-Chloronaphthalene	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
2-Chlorophenol	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1
2-Methylnaphthalene	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
2-Methylphenol	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
2-Nitroaniline	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1
2-Nitrophenol	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:43	1
3,3'-Dichlorobenzidine	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1
3 & 4 Methylphenol	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
3-Nitroaniline	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:43	1
4,6-Dinitro-2-methylphenol	<0.015		0.015		mg/L		12/18/24 13:54	12/23/24 21:43	1
4-Bromophenyl phenyl ether	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1
4-Chloro-3-methylphenol	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:43	1
4-Chloroaniline	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:43	1
4-Chlorophenyl phenyl ether	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1
4-Nitroaniline	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:43	1
4-Nitrophenol	<0.015		0.015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Bis(2-chloroethoxy)methane	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Bis(2-chloroethyl)ether	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-310
Lab Sample ID: 500-261525-3
Date Collected: 12/11/24 14:18
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis(chloroisopropyl) ether	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Bis(2-ethylhexyl) phthalate	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:43	1
Butyl benzyl phthalate	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Carbazole	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1
Dibenzofuran	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Diethyl phthalate	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1
Dimethyl phthalate	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1
Di-n-butyl phthalate	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1
Di-n-octyl phthalate	<0.0077		0.0077		mg/L		12/18/24 13:54	12/23/24 21:43	1
Hexachlorobenzene	<0.00039		0.00039		mg/L		12/18/24 13:54	12/23/24 21:43	1
Hexachlorobutadiene	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1
Hexachlorocyclopentadiene	<0.015		0.015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Hexachloroethane	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1
Isophorone	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Nitrobenzene	<0.00077		0.00077		mg/L		12/18/24 13:54	12/23/24 21:43	1
N-Nitrosodi-n-propylamine	<0.00039		0.00039		mg/L		12/18/24 13:54	12/23/24 21:43	1
N-Nitrosodiphenylamine	<0.0015		0.0015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Pentachlorophenol	<0.015		0.015		mg/L		12/18/24 13:54	12/23/24 21:43	1
Phenol	<0.0039		0.0039		mg/L		12/18/24 13:54	12/23/24 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*105*		*40 - 145*	*12/18/24 13:54*	*12/23/24 21:43*	*1*
2-Fluorobiphenyl (Surr)	*82*		*34 - 110*	*12/18/24 13:54*	*12/23/24 21:43*	*1*
2-Fluorophenol (Surr)	*47*		*27 - 110*	*12/18/24 13:54*	*12/23/24 21:43*	*1*
Nitrobenzene-d5 (Surr)	*77*		*36 - 120*	*12/18/24 13:54*	*12/23/24 21:43*	*1*
Phenol-d5 (Surr)	*31*		*20 - 110*	*12/18/24 13:54*	*12/23/24 21:43*	*1*
Terphenyl-d14 (Surr)	*93*		*40 - 145*	*12/18/24 13:54*	*12/23/24 21:43*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:05	1
Acenaphthylene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:05	1
Anthracene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:05	1
Benzo[a]anthracene	**0.00016**		0.00013		mg/L		12/17/24 13:48	12/19/24 20:05	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:05	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:05	1
Benzo[g,h,i]perylene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:05	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:05	1
Chrysene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:05	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/17/24 13:48	12/19/24 20:05	1
Fluoranthene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:05	1
Fluorene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:05	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:05	1
Naphthalene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:05	1
Phenanthrene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:05	1
Pyrene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*36 - 120*	*12/17/24 13:48*	*12/19/24 20:05*	*1*
2-Fluorobiphenyl (Surr)	*73*		*34 - 110*	*12/17/24 13:48*	*12/19/24 20:05*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-310
Lab Sample ID: 500-261525-3
Date Collected: 12/11/24 14:18
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*102*		*40 - 145*	*12/17/24 13:48*	*12/19/24 20:05*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
4,4'-DDE	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
4,4'-DDT	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
Aldrin	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
alpha-BHC	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
alpha-Chlordane	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
beta-BHC	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
Chlordane (technical)	<0.00020		0.00020		mg/L		12/18/24 09:59	12/19/24 18:58	1
delta-BHC	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
Dieldrin	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
Endosulfan I	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
Endosulfan II	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
Endosulfan sulfate	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
Endrin	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
Endrin aldehyde	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
Endrin ketone	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
gamma-BHC (Lindane)	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
gamma-Chlordane	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
Heptachlor	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
Heptachlor epoxide	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 18:58	1
Methoxychlor	<0.00020		0.00020		mg/L		12/18/24 09:59	12/19/24 18:58	1
Toxaphene	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*30*		*30 - 130*	*12/18/24 09:59*	*12/19/24 18:58*	*1*
Tetrachloro-m-xylene	*54*		*30 - 120*	*12/18/24 09:59*	*12/19/24 18:58*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0098		0.0098		mg/L		12/18/24 09:59	12/19/24 14:17	10
PCB-1221	<0.0098		0.0098		mg/L		12/18/24 09:59	12/19/24 14:17	10
PCB-1232	<0.0098		0.0098		mg/L		12/18/24 09:59	12/19/24 14:17	10
PCB-1242	<0.0098		0.0098		mg/L		12/18/24 09:59	12/19/24 14:17	10
PCB-1248	<0.0098		0.0098		mg/L		12/18/24 09:59	12/19/24 14:17	10
PCB-1254	<0.0098		0.0098		mg/L		12/18/24 09:59	12/19/24 14:17	10
PCB-1260	<0.0098		0.0098		mg/L		12/18/24 09:59	12/19/24 14:17	10
Polychlorinated biphenyls, Total	<0.0098		0.0098		mg/L		12/18/24 09:59	12/19/24 14:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*46*		*30 - 120*	*12/18/24 09:59*	*12/19/24 14:17*	*10*
DCB Decachlorobiphenyl	*38*		*30 - 140*	*12/18/24 09:59*	*12/19/24 14:17*	*10*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.82**		0.10		mg/L		12/16/24 08:29	12/17/24 17:18	1
Antimony	<0.0030		0.0030		mg/L		12/16/24 08:29	12/17/24 17:18	1

Client Sample ID: MW-310
Lab Sample ID: 500-261525-3
Date Collected: 12/11/24 14:18
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0010**	**^5+**	0.0010		mg/L		12/16/24 08:29	12/17/24 17:18	1
Barium	**0.033**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:18	1
Beryllium	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:18	1
Cadmium	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:18	1
Calcium	**150**		0.20		mg/L		12/16/24 08:29	12/18/24 14:14	1
Chromium	<0.0050		0.0050		mg/L		12/16/24 08:29	12/17/24 17:18	1
Cobalt	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:18	1
Copper	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:18	1
Iron	<0.10		0.10		mg/L		12/16/24 08:29	12/17/24 17:18	1
Lead	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:18	1
Magnesium	<0.20		0.20		mg/L		12/16/24 08:29	12/17/24 17:18	1
Manganese	**0.0084**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:18	1
Nickel	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:18	1
Potassium	**43**		0.50		mg/L		12/16/24 08:29	12/17/24 17:18	1
Selenium	**0.014**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:18	1
Silver	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:18	1
Sodium	**90**		0.20		mg/L		12/16/24 08:29	12/17/24 17:18	1
Thallium	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:18	1
Vanadium	**0.0093**		0.0050		mg/L		12/16/24 08:29	12/17/24 17:18	1
Zinc	<0.020		0.020		mg/L		12/16/24 08:29	12/17/24 17:18	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.8**		0.10		mg/L		12/16/24 08:29	12/17/24 17:28	1
Antimony	<0.0030		0.0030		mg/L		12/16/24 08:29	12/17/24 17:28	1
Arsenic	**0.0013**	**^5+**	0.0010		mg/L		12/16/24 08:29	12/17/24 17:28	1
Barium	**0.062**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:28	1
Beryllium	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:28	1
Cadmium	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:28	1
Calcium	**120**		0.20		mg/L		12/16/24 08:29	12/18/24 14:25	1
Chromium	<0.0050		0.0050		mg/L		12/16/24 08:29	12/17/24 17:28	1
Cobalt	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:28	1
Copper	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:28	1
Iron	**0.45**		0.10		mg/L		12/16/24 08:29	12/17/24 17:28	1
Lead	**0.00054**		0.00050		mg/L		12/16/24 08:29	12/17/24 17:28	1
Magnesium	**0.63**		0.20		mg/L		12/16/24 08:29	12/17/24 17:28	1
Manganese	**0.055**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:28	1
Nickel	**0.0048**		0.0020		mg/L		12/16/24 08:29	12/17/24 17:28	1
Potassium	**57**		0.50		mg/L		12/16/24 08:29	12/17/24 17:28	1
Selenium	**0.018**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:28	1
Silver	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:28	1
Sodium	**89**		0.20		mg/L		12/16/24 08:29	12/17/24 17:28	1
Thallium	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:28	1
Vanadium	**0.0074**		0.0050		mg/L		12/16/24 08:29	12/17/24 17:28	1
Zinc	<0.020		0.020		mg/L		12/16/24 08:29	12/17/24 17:28	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/26/24 11:20	12/27/24 09:56	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-310
Lab Sample ID: 500-261525-3
Date Collected: 12/11/24 14:18
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/26/24 11:20	12/27/24 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.018		0.0050		mg/L		12/16/24 08:27	12/16/24 10:59	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-311
Lab Sample ID: 500-261525-4

Date Collected: 12/11/24 15:33
Matrix: Water

Date Received: 12/12/24 12:12

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			12/18/24 17:36	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			12/18/24 17:36	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			12/18/24 17:36	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			12/18/24 17:36	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 17:36	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			12/18/24 17:36	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			12/18/24 17:36	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			12/18/24 17:36	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			12/18/24 17:36	1
p-Dioxane	<0.10		0.10		mg/L			12/18/24 17:36	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			12/18/24 17:36	1
2-Hexanone	<0.0050		0.0050		mg/L			12/18/24 17:36	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			12/18/24 17:36	1
Acetone	<0.010		0.010		mg/L			12/18/24 17:36	1
Benzene	<0.00050		0.00050		mg/L			12/18/24 17:36	1
Bromodichloromethane	<0.0010		0.0010		mg/L			12/18/24 17:36	1
Bromoform	<0.0010		0.0010		mg/L			12/18/24 17:36	1
Bromomethane	<0.0030	*- *1	0.0030		mg/L			12/18/24 17:36	1
Carbon disulfide	<0.0020	*+	0.0020		mg/L			12/18/24 17:36	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			12/18/24 17:36	1
Chlorobenzene	<0.0010		0.0010		mg/L			12/18/24 17:36	1
Chloroethane	<0.0050		0.0050		mg/L			12/18/24 17:36	1
Chloroform	<0.0020		0.0020		mg/L			12/18/24 17:36	1
Chloromethane	<0.0050		0.0050		mg/L			12/18/24 17:36	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 17:36	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			12/18/24 17:36	1
Dibromochloromethane	<0.0010		0.0010		mg/L			12/18/24 17:36	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			12/18/24 17:36	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/18/24 17:36	1
Isopropylbenzene	<0.0010		0.0010		mg/L			12/18/24 17:36	1
m&p-Xylene	<0.0010		0.0010		mg/L			12/18/24 17:36	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			12/18/24 17:36	1
Methylene Chloride	<0.0050		0.0050		mg/L			12/18/24 17:36	1
Naphthalene	<0.0010		0.0010		mg/L			12/18/24 17:36	1
n-Butyl alcohol	<0.13		0.13		mg/L			12/18/24 17:36	1
o-Xylene	<0.00050		0.00050		mg/L			12/18/24 17:36	1
Styrene	<0.0010		0.0010		mg/L			12/18/24 17:36	1
Tetrachloroethene	<0.0010		0.0010		mg/L			12/18/24 17:36	1
Toluene	<0.00050		0.00050		mg/L			12/18/24 17:36	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/18/24 17:36	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 17:36	1
Trichloroethene	<0.00050		0.00050		mg/L			12/18/24 17:36	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			12/18/24 17:36	1
Vinyl acetate	<0.0020		0.0020		mg/L			12/18/24 17:36	1
Vinyl chloride	<0.0010		0.0010		mg/L			12/18/24 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*12/18/24 17:36*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*12/18/24 17:36*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*12/18/24 17:36*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-311
Lab Sample ID: 500-261525-4
Date Collected: 12/11/24 15:33
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*104*		*75 - 120*		*12/18/24 17:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.00095**		0.00079		mg/L		12/18/24 13:54	12/24/24 02:22	1
Acenaphthylene	<0.00079		0.00079		mg/L		12/18/24 13:54	12/24/24 02:22	1
Anthracene	<0.00079		0.00079		mg/L		12/18/24 13:54	12/24/24 02:22	1
Benzo[a]anthracene	**0.00043**		0.00013		mg/L		12/18/24 13:54	12/24/24 02:22	1
Benzo[a]pyrene	**0.00041**		0.00016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Benzo[b]fluoranthene	**0.00045**		0.00016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Benzo[g,h,i]perylene	<0.00079	*+	0.00079		mg/L		12/18/24 13:54	12/24/24 02:22	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Chrysene	**0.00059**		0.00016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Dibenz(a,h)anthracene	<0.00024	*+	0.00024		mg/L		12/18/24 13:54	12/24/24 02:22	1
Fluoranthene	**0.00088**		0.00079		mg/L		12/18/24 13:54	12/24/24 02:22	1
Fluorene	<0.00079		0.00079		mg/L		12/18/24 13:54	12/24/24 02:22	1
Indeno[1,2,3-cd]pyrene	**0.00034**	*+	0.00016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Naphthalene	<0.00079		0.00079		mg/L		12/18/24 13:54	12/24/24 02:22	1
Phenanthrene	<0.00079		0.00079		mg/L		12/18/24 13:54	12/24/24 02:22	1
Pyrene	**0.0013**		0.00079		mg/L		12/18/24 13:54	12/24/24 02:22	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
2,4,5-Trichlorophenol	<0.0079		0.0079		mg/L		12/18/24 13:54	12/24/24 02:22	1
2,4,6-Trichlorophenol	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1
2,4-Dichlorophenol	<0.0079		0.0079		mg/L		12/18/24 13:54	12/24/24 02:22	1
2,4-Dimethylphenol	<0.0079		0.0079		mg/L		12/18/24 13:54	12/24/24 02:22	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		12/18/24 13:54	12/24/24 02:22	1
2,4-Dinitrotoluene	<0.00079		0.00079		mg/L		12/18/24 13:54	12/24/24 02:22	1
2,6-Dinitrotoluene	<0.00079		0.00079		mg/L		12/18/24 13:54	12/24/24 02:22	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
2-Chlorophenol	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
2-Methylphenol	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
2-Nitroaniline	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1
2-Nitrophenol	<0.0079		0.0079		mg/L		12/18/24 13:54	12/24/24 02:22	1
3,3'-Dichlorobenzidine	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1
3 & 4 Methylphenol	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
3-Nitroaniline	<0.0079		0.0079		mg/L		12/18/24 13:54	12/24/24 02:22	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		12/18/24 13:54	12/24/24 02:22	1
4-Bromophenyl phenyl ether	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1
4-Chloro-3-methylphenol	<0.0079		0.0079		mg/L		12/18/24 13:54	12/24/24 02:22	1
4-Chloroaniline	<0.0079		0.0079		mg/L		12/18/24 13:54	12/24/24 02:22	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1
4-Nitroaniline	<0.0079		0.0079		mg/L		12/18/24 13:54	12/24/24 02:22	1
4-Nitrophenol	<0.016		0.016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1

Client Sample ID: MW-311
Lab Sample ID: 500-261525-4
Date Collected: 12/11/24 15:33
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Bis(2-ethylhexyl) phthalate	<0.0079		0.0079		mg/L		12/18/24 13:54	12/24/24 02:22	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Carbazole	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1
Dibenzofuran	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Diethyl phthalate	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1
Dimethyl phthalate	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1
Di-n-butyl phthalate	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1
Di-n-octyl phthalate	<0.0079		0.0079		mg/L		12/18/24 13:54	12/24/24 02:22	1
Hexachlorobenzene	<0.00040		0.00040		mg/L		12/18/24 13:54	12/24/24 02:22	1
Hexachlorobutadiene	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Hexachloroethane	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1
Isophorone	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Nitrobenzene	<0.00079		0.00079		mg/L		12/18/24 13:54	12/24/24 02:22	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040		mg/L		12/18/24 13:54	12/24/24 02:22	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Pentachlorophenol	<0.016		0.016		mg/L		12/18/24 13:54	12/24/24 02:22	1
Phenol	<0.0040		0.0040		mg/L		12/18/24 13:54	12/24/24 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*105*		*40 - 145*	*12/18/24 13:54*	*12/24/24 02:22*	*1*
2-Fluorobiphenyl (Surr)	*84*		*34 - 110*	*12/18/24 13:54*	*12/24/24 02:22*	*1*
2-Fluorophenol (Surr)	*51*		*27 - 110*	*12/18/24 13:54*	*12/24/24 02:22*	*1*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*	*12/18/24 13:54*	*12/24/24 02:22*	*1*
Phenol-d5 (Surr)	*34*		*20 - 110*	*12/18/24 13:54*	*12/24/24 02:22*	*1*
Terphenyl-d14 (Surr)	*102*		*40 - 145*	*12/18/24 13:54*	*12/24/24 02:22*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:26	1
Acenaphthylene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:26	1
Anthracene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:26	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/17/24 13:48	12/19/24 20:26	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:26	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:26	1
Benzo[g,h,i]perylene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:26	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:26	1
Chrysene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:26	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/17/24 13:48	12/19/24 20:26	1
Fluoranthene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:26	1
Fluorene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:26	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:26	1
Naphthalene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:26	1
Phenanthrene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:26	1
Pyrene	<0.00081		0.00081		mg/L		12/17/24 13:48	12/19/24 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*76*		*36 - 120*	*12/17/24 13:48*	*12/19/24 20:26*	*1*
2-Fluorobiphenyl (Surr)	*68*		*34 - 110*	*12/17/24 13:48*	*12/19/24 20:26*	*1*

Client Sample ID: MW-311
Date Collected: 12/11/24 15:33
Date Received: 12/12/24 12:12

Lab Sample ID: 500-261525-4
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*94*		*40 - 145*	*12/17/24 13:48*	*12/19/24 20:26*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
4,4'-DDE	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
4,4'-DDT	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
Aldrin	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
alpha-BHC	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
alpha-Chlordane	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
beta-BHC	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
Chlordane (technical)	<0.00020		0.00020		mg/L		12/18/24 09:59	12/19/24 19:10	1
delta-BHC	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
Dieldrin	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
Endosulfan I	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
Endosulfan II	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
Endosulfan sulfate	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
Endrin	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
Endrin aldehyde	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
Endrin ketone	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
gamma-BHC (Lindane)	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
gamma-Chlordane	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
Heptachlor	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
Heptachlor epoxide	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:10	1
Methoxychlor	<0.00020		0.00020		mg/L		12/18/24 09:59	12/19/24 19:10	1
Toxaphene	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*22*	*S1-*	*30 - 130*	*12/18/24 09:59*	*12/19/24 19:10*	*1*
Tetrachloro-m-xylene	*44*		*30 - 120*	*12/18/24 09:59*	*12/19/24 19:10*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:16	1
PCB-1221	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:16	1
PCB-1232	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:16	1
PCB-1242	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:16	1
PCB-1248	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:16	1
PCB-1254	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:16	1
PCB-1260	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:16	1
Polychlorinated biphenyls, Total	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*38*		*30 - 120*	*12/18/24 09:59*	*12/19/24 13:16*	*1*
DCB Decachlorobiphenyl	*27*	*S1-*	*30 - 140*	*12/18/24 09:59*	*12/19/24 13:16*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7.2**		0.10		mg/L		12/16/24 08:29	12/17/24 17:21	1
Antimony	<0.0030		0.0030		mg/L		12/16/24 08:29	12/17/24 17:21	1

Client Sample ID: MW-311
Lab Sample ID: 500-261525-4
Date Collected: 12/11/24 15:33
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.022**	**^5+**	0.0010		mg/L		12/16/24 08:29	12/17/24 17:21	1
Barium	**0.098**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:21	1
Beryllium	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:21	1
Cadmium	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:21	1
Calcium	**250**		0.20		mg/L		12/16/24 08:29	12/18/24 14:17	1
Chromium	**0.017**		0.0050		mg/L		12/16/24 08:29	12/17/24 17:21	1
Cobalt	**0.011**		0.0010		mg/L		12/16/24 08:29	12/17/24 17:21	1
Copper	**0.017**		0.0020		mg/L		12/16/24 08:29	12/17/24 17:21	1
Iron	**20**		0.10		mg/L		12/16/24 08:29	12/17/24 17:21	1
Lead	**0.031**		0.00050		mg/L		12/16/24 08:29	12/17/24 17:21	1
Magnesium	**83**		0.20		mg/L		12/16/24 08:29	12/17/24 17:21	1
Manganese	**0.93**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:21	1
Nickel	**0.016**		0.0020		mg/L		12/16/24 08:29	12/17/24 17:21	1
Potassium	**16**		0.50		mg/L		12/16/24 08:29	12/17/24 17:21	1
Selenium	**0.0042**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:21	1
Silver	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:21	1
Sodium	**44**		0.20		mg/L		12/16/24 08:29	12/17/24 17:21	1
Thallium	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:21	1
Vanadium	**0.021**		0.0050		mg/L		12/16/24 08:29	12/17/24 17:21	1
Zinc	**0.082**		0.020		mg/L		12/16/24 08:29	12/17/24 17:21	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.45**		0.10		mg/L		12/16/24 08:29	12/18/24 14:27	1
Antimony	<0.0030		0.0030		mg/L		12/16/24 08:29	12/17/24 17:36	1
Arsenic	**0.0038**	**^5+**	0.0010		mg/L		12/16/24 08:29	12/17/24 17:36	1
Barium	**0.057**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:36	1
Beryllium	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:36	1
Cadmium	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:36	1
Calcium	**140**		0.20		mg/L		12/16/24 08:29	12/18/24 14:27	1
Chromium	<0.0050		0.0050		mg/L		12/16/24 08:29	12/17/24 17:36	1
Cobalt	<0.0010		0.0010		mg/L		12/16/24 08:29	12/18/24 14:27	1
Copper	**0.0027**		0.0020		mg/L		12/16/24 08:29	12/17/24 17:36	1
Iron	**1.4**		0.10		mg/L		12/16/24 08:29	12/17/24 17:36	1
Lead	**0.0031**		0.00050		mg/L		12/16/24 08:29	12/17/24 17:36	1
Magnesium	**29**		0.20		mg/L		12/16/24 08:29	12/17/24 17:36	1
Manganese	**0.28**		0.0025		mg/L		12/16/24 08:29	12/17/24 17:36	1
Nickel	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:36	1
Potassium	**15**		0.50		mg/L		12/16/24 08:29	12/17/24 17:36	1
Selenium	<0.0025		0.0025		mg/L		12/16/24 08:29	12/17/24 17:36	1
Silver	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:36	1
Sodium	**45**		0.20		mg/L		12/16/24 08:29	12/17/24 17:36	1
Thallium	<0.0020		0.0020		mg/L		12/16/24 08:29	12/18/24 14:27	1
Vanadium	<0.0050		0.0050		mg/L		12/16/24 08:29	12/17/24 17:36	1
Zinc	<0.020		0.020		mg/L		12/16/24 08:29	12/17/24 17:36	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/26/24 11:20	12/27/24 10:07	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-311
Lab Sample ID: 500-261525-4
Date Collected: 12/11/24 15:33
Matrix: Water
Date Received: 12/12/24 12:12

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/26/24 11:20	12/27/24 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0050		0.0050		mg/L		12/16/24 08:27	12/16/24 11:01	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
^5+	Linear Range Check (LRC) is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 799899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Total/NA	Water	8260D	
500-261525-2	MW-309	Total/NA	Water	8260D	
500-261525-3	MW-310	Total/NA	Water	8260D	
500-261525-4	MW-311	Total/NA	Water	8260D	
MB 500-799899/7	Method Blank	Total/NA	Water	8260D	
LCS 500-799899/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 500-799899/4	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 799791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Dissolved	Water	3510C	
500-261525-2	MW-309	Dissolved	Water	3510C	
500-261525-3	MW-310	Dissolved	Water	3510C	
500-261525-4	MW-311	Dissolved	Water	3510C	
MB 500-799791/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-799791/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 799970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Total/NA	Water	3510C	
500-261525-2	MW-309	Total/NA	Water	3510C	
500-261525-3	MW-310	Total/NA	Water	3510C	
500-261525-4	MW-311	Total/NA	Water	3510C	
MB 500-799970/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-799970/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-799970/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 800213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Dissolved	Water	8270E	799791
500-261525-2	MW-309	Dissolved	Water	8270E	799791
500-261525-3	MW-310	Dissolved	Water	8270E	799791
500-261525-4	MW-311	Dissolved	Water	8270E	799791
MB 500-799791/1-A	Method Blank	Total/NA	Water	8270E	799791
LCS 500-799791/2-A	Lab Control Sample	Total/NA	Water	8270E	799791

Analysis Batch: 800589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Total/NA	Water	8270E	799970
500-261525-2	MW-309	Total/NA	Water	8270E	799970
500-261525-3	MW-310	Total/NA	Water	8270E	799970
500-261525-4	MW-311	Total/NA	Water	8270E	799970
MB 500-799970/1-A	Method Blank	Total/NA	Water	8270E	799970
LCS 500-799970/2-A	Lab Control Sample	Total/NA	Water	8270E	799970
LCSD 500-799970/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	799970

GC Semi VOA

Prep Batch: 799917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Total/NA	Water	3510C	
500-261525-2	MW-309	Total/NA	Water	3510C	
500-261525-3	MW-310	Total/NA	Water	3510C	
500-261525-4	MW-311	Total/NA	Water	3510C	
MB 500-799917/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-799917/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 500-799917/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-799917/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 500-799917/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 800086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Total/NA	Water	8082A	799917
500-261525-2	MW-309	Total/NA	Water	8082A	799917
500-261525-3	MW-310	Total/NA	Water	8082A	799917
500-261525-4	MW-311	Total/NA	Water	8082A	799917
MB 500-799917/1-A	Method Blank	Total/NA	Water	8082A	799917
LCS 500-799917/4-A	Lab Control Sample	Total/NA	Water	8082A	799917
LCSD 500-799917/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	799917

Analysis Batch: 800216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Total/NA	Water	8081B	799917
500-261525-2	MW-309	Total/NA	Water	8081B	799917
500-261525-3	MW-310	Total/NA	Water	8081B	799917
500-261525-4	MW-311	Total/NA	Water	8081B	799917
MB 500-799917/1-A	Method Blank	Total/NA	Water	8081B	799917
LCS 500-799917/2-A	Lab Control Sample	Total/NA	Water	8081B	799917
LCSD 500-799917/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	799917

Metals

Prep Batch: 799512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Dissolved	Water	3005A	
500-261525-1	MW-308	Total Recoverable	Water	3005A	
500-261525-2	MW-309	Dissolved	Water	3005A	
500-261525-2	MW-309	Total Recoverable	Water	3005A	
500-261525-3	MW-310	Dissolved	Water	3005A	
500-261525-3	MW-310	Total Recoverable	Water	3005A	
500-261525-4	MW-311	Dissolved	Water	3005A	
500-261525-4	MW-311	Total Recoverable	Water	3005A	
MB 500-799512/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-799512/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 799882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Dissolved	Water	6020B	799512
500-261525-1	MW-308	Total Recoverable	Water	6020B	799512
500-261525-2	MW-309	Dissolved	Water	6020B	799512
500-261525-2	MW-309	Total Recoverable	Water	6020B	799512

Metals (Continued)

Analysis Batch: 799882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-3	MW-310	Dissolved	Water	6020B	799512
500-261525-3	MW-310	Total Recoverable	Water	6020B	799512
500-261525-4	MW-311	Dissolved	Water	6020B	799512
500-261525-4	MW-311	Total Recoverable	Water	6020B	799512
MB 500-799512/1-A	Method Blank	Total Recoverable	Water	6020B	799512
LCS 500-799512/2-A	Lab Control Sample	Total Recoverable	Water	6020B	799512

Analysis Batch: 800085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Dissolved	Water	6020B	799512
500-261525-1	MW-308	Total Recoverable	Water	6020B	799512
500-261525-2	MW-309	Dissolved	Water	6020B	799512
500-261525-2	MW-309	Total Recoverable	Water	6020B	799512
500-261525-3	MW-310	Dissolved	Water	6020B	799512
500-261525-3	MW-310	Total Recoverable	Water	6020B	799512
500-261525-4	MW-311	Dissolved	Water	6020B	799512
500-261525-4	MW-311	Total Recoverable	Water	6020B	799512

Prep Batch: 800737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Dissolved	Water	7470A	
500-261525-2	MW-309	Dissolved	Water	7470A	
500-261525-3	MW-310	Dissolved	Water	7470A	
500-261525-4	MW-311	Dissolved	Water	7470A	
MB 500-800737/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-800737/14-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 500-800737/33-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Prep Batch: 800738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Total/NA	Water	7470A	
500-261525-2	MW-309	Total/NA	Water	7470A	
500-261525-3	MW-310	Total/NA	Water	7470A	
500-261525-4	MW-311	Total/NA	Water	7470A	
MB 500-800738/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-800738/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 800921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Dissolved	Water	7470A	800737
500-261525-1	MW-308	Total/NA	Water	7470A	800738
500-261525-2	MW-309	Dissolved	Water	7470A	800737
500-261525-2	MW-309	Total/NA	Water	7470A	800738
500-261525-3	MW-310	Dissolved	Water	7470A	800737
500-261525-3	MW-310	Total/NA	Water	7470A	800738
500-261525-4	MW-311	Dissolved	Water	7470A	800737
500-261525-4	MW-311	Total/NA	Water	7470A	800738
MB 500-800737/12-A	Method Blank	Total/NA	Water	7470A	800737
MB 500-800738/12-A	Method Blank	Total/NA	Water	7470A	800738
LCS 500-800737/14-A	Lab Control Sample	Total/NA	Water	7470A	800737
LCS 500-800738/13-A	Lab Control Sample	Total/NA	Water	7470A	800738

Metals (Continued)

Analysis Batch: 800921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-800737/33-A	Lab Control Sample Dup	Total/NA	Water	7470A	800737

General Chemistry

Prep Batch: 799518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Total/NA	Water	9010C	
500-261525-2	MW-309	Total/NA	Water	9010C	
500-261525-3	MW-310	Total/NA	Water	9010C	
500-261525-4	MW-311	Total/NA	Water	9010C	
MB 500-799518/1-A	Method Blank	Total/NA	Water	9010C	
LCS 500-799518/2-A	Lab Control Sample	Total/NA	Water	9010C	
500-261525-1 MS	MW-308	Total/NA	Water	9010C	
500-261525-1 MSD	MW-308	Total/NA	Water	9010C	

Analysis Batch: 799568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261525-1	MW-308	Total/NA	Water	9012B	799518
500-261525-2	MW-309	Total/NA	Water	9012B	799518
500-261525-3	MW-310	Total/NA	Water	9012B	799518
500-261525-4	MW-311	Total/NA	Water	9012B	799518
MB 500-799518/1-A	Method Blank	Total/NA	Water	9012B	799518
LCS 500-799518/2-A	Lab Control Sample	Total/NA	Water	9012B	799518
500-261525-1 MS	MW-308	Total/NA	Water	9012B	799518
500-261525-1 MSD	MW-308	Total/NA	Water	9012B	799518

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-261525-1	MW-308	93	105	101	104
500-261525-2	MW-309	96	102	98	104
500-261525-3	MW-310	93	100	98	105
500-261525-4	MW-311	95	102	98	104
LCS 500-799899/3	Lab Control Sample	95	101	99	104
LCSD 500-799899/4	Lab Control Sample Dup	97	100	99	103
MB 500-799899/7	Method Blank	95	102	98	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-110)	(40-145)
500-261525-1	MW-308	96	71	50	73	33	98
500-261525-2	MW-309	94	65	40	62	26	102
500-261525-3	MW-310	105	82	47	77	31	93
500-261525-4	MW-311	105	84	51	81	34	102
LCS 500-799791/2-A	Lab Control Sample		79		81		96
LCS 500-799970/2-A	Lab Control Sample	48	43	28	41	19 S1-	51
LCSD 500-799970/3-A	Lab Control Sample Dup	51	45	29	41	20	55
MB 500-799791/1-A	Method Blank		61		74		102
MB 500-799970/1-A	Method Blank	79	68	44	71	27	109

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(36-120)	(34-110)	(40-145)
500-261525-1	MW-308	81	68	91
500-261525-2	MW-309	75	64	85
500-261525-3	MW-310	84	73	102
500-261525-4	MW-311	76	68	94

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (30-130)	TCX2 (30-120)
500-261525-1	MW-308	49	55
500-261525-2	MW-309	31	46
500-261525-3	MW-310	30	54
500-261525-4	MW-311	22 S1-	44
LCS 500-799917/2-A	Lab Control Sample	54	46
LCSD 500-799917/3-A	Lab Control Sample Dup	59	58
MB 500-799917/1-A	Method Blank	57	53

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (30-120)	DCBP2 (30-140)
500-261525-1	MW-308	50	62
500-261525-2	MW-309	47	35
500-261525-3	MW-310	46	38
500-261525-4	MW-311	38	27 S1-
LCS 500-799917/4-A	Lab Control Sample	69	76
LCSD 500-799917/5-A	Lab Control Sample Dup	65	79
MB 500-799917/1-A	Method Blank	64	87

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-799899/7
Matrix: Water
Analysis Batch: 799899

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			12/18/24 14:48	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			12/18/24 14:48	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			12/18/24 14:48	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			12/18/24 14:48	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 14:48	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			12/18/24 14:48	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			12/18/24 14:48	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			12/18/24 14:48	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			12/18/24 14:48	1
p-Dioxane	<0.10		0.10		mg/L			12/18/24 14:48	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			12/18/24 14:48	1
2-Hexanone	<0.0050		0.0050		mg/L			12/18/24 14:48	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			12/18/24 14:48	1
Acetone	<0.010		0.010		mg/L			12/18/24 14:48	1
Benzene	<0.00050		0.00050		mg/L			12/18/24 14:48	1
Bromodichloromethane	<0.0010		0.0010		mg/L			12/18/24 14:48	1
Bromoform	<0.0010		0.0010		mg/L			12/18/24 14:48	1
Bromomethane	<0.0030		0.0030		mg/L			12/18/24 14:48	1
Carbon disulfide	<0.0020		0.0020		mg/L			12/18/24 14:48	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			12/18/24 14:48	1
Chlorobenzene	<0.0010		0.0010		mg/L			12/18/24 14:48	1
Chloroethane	<0.0050		0.0050		mg/L			12/18/24 14:48	1
Chloroform	<0.0020		0.0020		mg/L			12/18/24 14:48	1
Chloromethane	<0.0050		0.0050		mg/L			12/18/24 14:48	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 14:48	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			12/18/24 14:48	1
Dibromochloromethane	<0.0010		0.0010		mg/L			12/18/24 14:48	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			12/18/24 14:48	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/18/24 14:48	1
Isopropylbenzene	<0.0010		0.0010		mg/L			12/18/24 14:48	1
m&p-Xylene	<0.0010		0.0010		mg/L			12/18/24 14:48	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			12/18/24 14:48	1
Methylene Chloride	<0.0050		0.0050		mg/L			12/18/24 14:48	1
Naphthalene	<0.0010		0.0010		mg/L			12/18/24 14:48	1
n-Butyl alcohol	<0.13		0.13		mg/L			12/18/24 14:48	1
o-Xylene	<0.00050		0.00050		mg/L			12/18/24 14:48	1
Styrene	<0.0010		0.0010		mg/L			12/18/24 14:48	1
Tetrachloroethene	<0.0010		0.0010		mg/L			12/18/24 14:48	1
Toluene	<0.00050		0.00050		mg/L			12/18/24 14:48	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/18/24 14:48	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/18/24 14:48	1
Trichloroethene	<0.00050		0.00050		mg/L			12/18/24 14:48	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			12/18/24 14:48	1
Vinyl acetate	<0.0020		0.0020		mg/L			12/18/24 14:48	1
Vinyl chloride	<0.0010		0.0010		mg/L			12/18/24 14:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*12/18/24 14:48*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-799899/7
Matrix: Water
Analysis Batch: 799899

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*12/18/24 14:48*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*12/18/24 14:48*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*12/18/24 14:48*	*1*

Lab Sample ID: LCS 500-799899/3
Matrix: Water
Analysis Batch: 799899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0573		mg/L		115	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0649		mg/L		130	62 - 140
1,1,2-Trichloroethane	0.0500	0.0603		mg/L		121	71 - 130
1,1-Dichloroethane	0.0500	0.0560		mg/L		112	70 - 125
1,1-Dichloroethene	0.0500	0.0517		mg/L		103	67 - 122
1,2-Dibromo-3-Chloropropane	0.0500	0.0563		mg/L		113	56 - 123
1,2-Dibromoethane	0.0500	0.0615		mg/L		123	70 - 125
1,2-Dichloroethane	0.0500	0.0531		mg/L		106	68 - 127
1,2-Dichloropropane	0.0500	0.0557		mg/L		111	67 - 130
p-Dioxane	1.00	1.08		mg/L		108	70 - 129
2-Butanone (MEK)	0.0500	0.0517		mg/L		103	46 - 144
2-Hexanone	0.0500	0.0532		mg/L		106	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0530		mg/L		106	55 - 139
Acetone	0.0500	0.0486		mg/L		97	40 - 143
Benzene	0.0500	0.0552		mg/L		110	70 - 120
Bromodichloromethane	0.0500	0.0547		mg/L		109	69 - 120
Bromoform	0.0500	0.0506		mg/L		101	56 - 132
Bromomethane	0.0500	0.0193	*-	mg/L		39	40 - 152
Carbon disulfide	0.0500	0.0602		mg/L		120	66 - 120
Carbon tetrachloride	0.0500	0.0532		mg/L		106	59 - 133
Chlorobenzene	0.0500	0.0590		mg/L		118	70 - 120
Chloroethane	0.0500	0.0514		mg/L		103	48 - 136
Chloroform	0.0500	0.0506		mg/L		101	70 - 120
Chloromethane	0.0500	0.0425		mg/L		85	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0587		mg/L		117	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0590		mg/L		118	64 - 127
Dibromochloromethane	0.0500	0.0543		mg/L		109	68 - 125
Dichlorodifluoromethane	0.0500	0.0468		mg/L		94	40 - 159
Ethylbenzene	0.0500	0.0574		mg/L		115	70 - 123
Isopropylbenzene	0.0500	0.0514		mg/L		103	70 - 126
Methyl tert-butyl ether	0.0500	0.0551		mg/L		110	55 - 123
Methylene Chloride	0.0500	0.0513		mg/L		103	69 - 125
Naphthalene	0.0500	0.0428		mg/L		86	53 - 144
Styrene	0.0500	0.0512		mg/L		102	70 - 120
Tetrachloroethene	0.0500	0.0591		mg/L		118	70 - 128
Toluene	0.0500	0.0565		mg/L		113	70 - 125
Xylenes, Total	0.100	0.117		mg/L		117	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0606		mg/L		121	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0511		mg/L		102	62 - 128

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-799899/3
Matrix: Water
Analysis Batch: 799899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			0.0500	0.0557		mg/L		111	70 - 125		
Trichlorofluoromethane			0.0500	0.0516		mg/L		103	55 - 128		
Vinyl acetate			0.0500	0.0556		mg/L		111	43 - 133		
Vinyl chloride			0.0500	0.0557		mg/L		111	64 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane	*99*		*75 - 120*
Toluene-d8 (Surr)	*104*		*75 - 120*

Lab Sample ID: LCSD 500-799899/4
Matrix: Water
Analysis Batch: 799899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0500	0.0576		mg/L		115	70 - 125	1	20
1,1,2,2-Tetrachloroethane			0.0500	0.0636		mg/L		127	62 - 140	2	20
1,1,2-Trichloroethane			0.0500	0.0599		mg/L		120	71 - 130	1	20
1,1-Dichloroethane			0.0500	0.0570		mg/L		114	70 - 125	2	20
1,1-Dichloroethene			0.0500	0.0528		mg/L		106	67 - 122	2	20
1,2-Dibromo-3-Chloropropane			0.0500	0.0547		mg/L		109	56 - 123	3	20
1,2-Dibromoethane			0.0500	0.0607		mg/L		121	70 - 125	1	20
1,2-Dichloroethane			0.0500	0.0530		mg/L		106	68 - 127	0	20
1,2-Dichloropropane			0.0500	0.0557		mg/L		111	67 - 130	0	20
p-Dioxane			1.00	1.04		mg/L		104	70 - 129	3	20
2-Butanone (MEK)			0.0500	0.0518		mg/L		104	46 - 144	0	20
2-Hexanone			0.0500	0.0526		mg/L		105	54 - 146	1	20
4-Methyl-2-pentanone (MIBK)			0.0500	0.0522		mg/L		104	55 - 139	2	20
Acetone			0.0500	0.0493		mg/L		99	40 - 143	1	20
Benzene			0.0500	0.0558		mg/L		112	70 - 120	1	20
Bromodichloromethane			0.0500	0.0545		mg/L		109	69 - 120	0	20
Bromoform			0.0500	0.0496		mg/L		99	56 - 132	2	20
Bromomethane			0.0500	0.0241	*1	mg/L		48	40 - 152	22	20
Carbon disulfide			0.0500	0.0608	*+	mg/L		122	66 - 120	1	20
Carbon tetrachloride			0.0500	0.0547		mg/L		109	59 - 133	3	20
Chlorobenzene			0.0500	0.0587		mg/L		117	70 - 120	0	20
Chloroethane			0.0500	0.0524		mg/L		105	48 - 136	2	20
Chloroform			0.0500	0.0511		mg/L		102	70 - 120	1	20
Chloromethane			0.0500	0.0430		mg/L		86	56 - 152	1	20
cis-1,2-Dichloroethene			0.0500	0.0582		mg/L		116	70 - 125	1	20
cis-1,3-Dichloropropene			0.0500	0.0594		mg/L		119	64 - 127	1	20
Dibromochloromethane			0.0500	0.0542		mg/L		108	68 - 125	0	20
Dichlorodifluoromethane			0.0500	0.0478		mg/L		96	40 - 159	2	20
Ethylbenzene			0.0500	0.0584		mg/L		117	70 - 123	2	20
Isopropylbenzene			0.0500	0.0515		mg/L		103	70 - 126	0	20
Methyl tert-butyl ether			0.0500	0.0552		mg/L		110	55 - 123	0	20
Methylene Chloride			0.0500	0.0515		mg/L		103	69 - 125	0	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-799899/4
Matrix: Water
Analysis Batch: 799899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			0.0500	0.0437		mg/L		87	53 - 144	2	20
Styrene			0.0500	0.0512		mg/L		102	70 - 120	0	20
Tetrachloroethene			0.0500	0.0596		mg/L		119	70 - 128	1	20
Toluene			0.0500	0.0566		mg/L		113	70 - 125	0	20
Xylenes, Total			0.100	0.117		mg/L		117	70 - 125	0	20
trans-1,2-Dichloroethene			0.0500	0.0604		mg/L		121	70 - 125	0	20
trans-1,3-Dichloropropene			0.0500	0.0514		mg/L		103	62 - 128	0	20
Trichloroethene			0.0500	0.0572		mg/L		114	70 - 125	3	20
Trichlorofluoromethane			0.0500	0.0520		mg/L		104	55 - 128	1	20
Vinyl acetate			0.0500	0.0560		mg/L		112	43 - 133	1	20
Vinyl chloride			0.0500	0.0556		mg/L		111	64 - 126	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*
Dibromofluoromethane	*99*		*75 - 120*
Toluene-d8 (Surr)	*103*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-799791/1-A
Matrix: Water
Analysis Batch: 800213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Acenaphthylene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Anthracene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/17/24 13:48	12/19/24 15:48	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 15:48	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 15:48	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 15:48	1
Chrysene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 15:48	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/17/24 13:48	12/19/24 15:48	1
Fluoranthene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Fluorene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 15:48	1
Naphthalene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Phenanthrene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Pyrene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*34 - 110*	*12/17/24 13:48*	*12/19/24 15:48*	*1*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*	*12/17/24 13:48*	*12/19/24 15:48*	*1*
Terphenyl-d14 (Surr)	*102*		*40 - 145*	*12/17/24 13:48*	*12/19/24 15:48*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-799791/2-A
Matrix: Water
Analysis Batch: 800213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0335		mg/L		84	46 - 110
Acenaphthylene	0.0400	0.0333		mg/L		83	47 - 113
Anthracene	0.0400	0.0360		mg/L		90	67 - 118
Benzo[a]anthracene	0.0400	0.0381		mg/L		95	70 - 126
Benzo[a]pyrene	0.0400	0.0408		mg/L		102	70 - 135
Benzo[b]fluoranthene	0.0400	0.0402		mg/L		100	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0419		mg/L		105	70 - 135
Benzo[k]fluoranthene	0.0400	0.0390		mg/L		97	70 - 133
Chrysene	0.0400	0.0393		mg/L		98	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0428		mg/L		107	70 - 134
Fluoranthene	0.0400	0.0394		mg/L		98	68 - 126
Fluorene	0.0400	0.0352		mg/L		88	53 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.0422		mg/L		106	65 - 133
Naphthalene	0.0400	0.0333		mg/L		83	36 - 110
Phenanthrene	0.0400	0.0353		mg/L		88	65 - 120
Pyrene	0.0400	0.0367		mg/L		92	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*34 - 110*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*
Terphenyl-d14 (Surr)	*96*		*40 - 145*

Lab Sample ID: MB 500-799970/1-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Acenaphthylene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Anthracene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/18/24 13:54	12/23/24 19:55	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Chrysene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/18/24 13:54	12/23/24 19:55	1
Fluoranthene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Fluorene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Naphthalene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Phenanthrene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Pyrene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
2,4,5-Trichlorophenol	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-799970/1-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
2,4-Dichlorophenol	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
2,4-Dimethylphenol	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 19:55	1
2,4-Dinitrotoluene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
2,6-Dinitrotoluene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
2-Chlorophenol	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
2-Methylphenol	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
2-Nitroaniline	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
2-Nitrophenol	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
3,3'-Dichlorobenzidine	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
3 & 4 Methylphenol	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
3-Nitroaniline	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 19:55	1
4-Bromophenyl phenyl ether	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
4-Chloro-3-methylphenol	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
4-Chloroaniline	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
4-Nitroaniline	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
4-Nitrophenol	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Carbazole	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Dibenzofuran	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Diethyl phthalate	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Dimethyl phthalate	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Di-n-butyl phthalate	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Di-n-octyl phthalate	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Hexachlorobenzene	<0.00040		0.00040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Hexachlorobutadiene	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Hexachloroethane	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Isophorone	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Nitrobenzene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040		mg/L		12/18/24 13:54	12/23/24 19:55	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Pentachlorophenol	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Phenol	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*40 - 145*	*12/18/24 13:54*	*12/23/24 19:55*	*1*
2-Fluorobiphenyl (Surr)	*68*		*34 - 110*	*12/18/24 13:54*	*12/23/24 19:55*	*1*
2-Fluorophenol (Surr)	*44*		*27 - 110*	*12/18/24 13:54*	*12/23/24 19:55*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-799970/1-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799970

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	71		36 - 120	12/18/24 13:54	12/23/24 19:55	1
Phenol-d5 (Surr)	27		20 - 110	12/18/24 13:54	12/23/24 19:55	1
Terphenyl-d14 (Surr)	109		40 - 145	12/18/24 13:54	12/23/24 19:55	1

Lab Sample ID: LCS 500-799970/2-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0334		mg/L		83	46 - 110
Acenaphthylene	0.0400	0.0352		mg/L		88	47 - 113
Anthracene	0.0400	0.0362		mg/L		91	67 - 118
Benzo[a]anthracene	0.0400	0.0336		mg/L		84	70 - 126
Benzo[a]pyrene	0.0400	0.0404		mg/L		101	70 - 135
Benzo[b]fluoranthene	0.0400	0.0364		mg/L		91	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0631	*+	mg/L		158	70 - 135
Benzo[k]fluoranthene	0.0400	0.0363		mg/L		91	70 - 133
Chrysene	0.0400	0.0360		mg/L		90	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0573	*+	mg/L		143	70 - 134
Fluoranthene	0.0400	0.0359		mg/L		90	68 - 126
Fluorene	0.0400	0.0354		mg/L		88	53 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.0591	*+	mg/L		148	65 - 133
Naphthalene	0.0400	0.0286		mg/L		71	36 - 110
Phenanthrene	0.0400	0.0356		mg/L		89	65 - 120
Pyrene	0.0400	0.0384		mg/L		96	70 - 126
1,2,4-Trichlorobenzene	0.0400	0.0275		mg/L		69	26 - 110
1,2-Dichlorobenzene	0.0400	0.0241		mg/L		60	26 - 110
1,3-Dichlorobenzene	0.0400	0.0235		mg/L		59	22 - 110
1,4-Dichlorobenzene	0.0400	0.0232		mg/L		58	23 - 110
2,4,5-Trichlorophenol	0.0400	0.0330		mg/L		82	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0353		mg/L		88	62 - 121
2,4-Dichlorophenol	0.0400	0.0344		mg/L		86	58 - 120
2,4-Dimethylphenol	0.0400	0.0351		mg/L		88	51 - 115
2,4-Dinitrophenol	0.0800	0.0519		mg/L		65	37 - 130
2,4-Dinitrotoluene	0.0400	0.0390		mg/L		98	63 - 129
2,6-Dinitrotoluene	0.0400	0.0406		mg/L		101	63 - 129
2-Chloronaphthalene	0.0400	0.0320		mg/L		80	39 - 110
2-Chlorophenol	0.0400	0.0305		mg/L		76	59 - 110
2-Methylnaphthalene	0.0400	0.0281		mg/L		70	34 - 110
2-Methylphenol	0.0400	0.0277		mg/L		69	53 - 115
2-Nitroaniline	0.0400	0.0305		mg/L		76	59 - 138
2-Nitrophenol	0.0400	0.0344		mg/L		86	59 - 115
3,3'-Dichlorobenzidine	0.0400	0.0399		mg/L		100	60 - 132
3 & 4 Methylphenol	0.0400	0.0252		mg/L		63	50 - 116
3-Nitroaniline	0.0400	0.0292		mg/L		73	47 - 123
4,6-Dinitro-2-methylphenol	0.0800	0.0680		mg/L		85	50 - 129
4-Bromophenyl phenyl ether	0.0400	0.0389		mg/L		97	58 - 120
4-Chloro-3-methylphenol	0.0400	0.0278		mg/L		69	64 - 128

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-799970/2-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	0.0400	0.0270		mg/L		68	35 - 128
4-Chlorophenyl phenyl ether	0.0400	0.0367		mg/L		92	48 - 116
4-Nitroaniline	0.0400	0.0269		mg/L		67	35 - 110
4-Nitrophenol	0.0800	0.0197		mg/L		25	20 - 110
Bis(2-chloroethoxy)methane	0.0400	0.0345		mg/L		86	59 - 118
Bis(2-chloroethyl)ether	0.0400	0.0313		mg/L		78	54 - 112
bis(chloroisopropyl) ether	0.0400	0.0263		mg/L		66	38 - 140
Bis(2-ethylhexyl) phthalate	0.0400	0.0380		mg/L		95	69 - 136
Butyl benzyl phthalate	0.0400	0.0396		mg/L		99	68 - 135
Carbazole	0.0400	0.0329		mg/L		82	61 - 145
Dibenzofuran	0.0400	0.0342		mg/L		86	51 - 110
Diethyl phthalate	0.0400	0.0377		mg/L		94	62 - 123
Dimethyl phthalate	0.0400	0.0380		mg/L		95	63 - 122
Di-n-butyl phthalate	0.0400	0.0380		mg/L		95	69 - 129
Di-n-octyl phthalate	0.0400	0.0334		mg/L		83	68 - 137
Hexachlorobenzene	0.0400	0.0397		mg/L		99	61 - 126
Hexachlorobutadiene	0.0400	0.0258		mg/L		65	20 - 100
Hexachlorocyclopentadiene	0.0400	0.0243		mg/L		61	10 - 105
Hexachloroethane	0.0400	0.0201		mg/L		50	20 - 100
Isophorone	0.0400	0.0341		mg/L		85	54 - 127
Nitrobenzene	0.0400	0.0304		mg/L		76	54 - 121
N-Nitrosodi-n-propylamine	0.0400	0.0303		mg/L		76	47 - 131
N-Nitrosodiphenylamine	0.0400	0.0350		mg/L		88	66 - 120
Pentachlorophenol	0.0800	0.0384		mg/L		48	42 - 148
Phenol	0.0400	0.0153		mg/L		38	33 - 100

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*48*		*40 - 145*
2-Fluorobiphenyl (Surr)	*43*		*34 - 110*
2-Fluorophenol (Surr)	*28*		*27 - 110*
Nitrobenzene-d5 (Surr)	*41*		*36 - 120*
Phenol-d5 (Surr)	*19*	*S1-*	*20 - 110*
Terphenyl-d14 (Surr)	*51*		*40 - 145*

Lab Sample ID: LCSD 500-799970/3-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.0400	0.0356		mg/L		89	46 - 110	6	20
Acenaphthylene	0.0400	0.0369		mg/L		92	47 - 113	5	20
Anthracene	0.0400	0.0366		mg/L		92	67 - 118	1	20
Benzo[a]anthracene	0.0400	0.0354		mg/L		89	70 - 126	5	20
Benzo[a]pyrene	0.0400	0.0409		mg/L		102	70 - 135	1	20
Benzo[b]fluoranthene	0.0400	0.0368		mg/L		92	69 - 136	1	20
Benzo[g,h,i]perylene	0.0400	0.0629	*+	mg/L		157	70 - 135	0	20
Benzo[k]fluoranthene	0.0400	0.0373		mg/L		93	70 - 133	3	20
Chrysene	0.0400	0.0378		mg/L		94	68 - 129	5	20

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261525-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-799970/3-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenz(a,h)anthracene	0.0400	0.0582	*+	mg/L		145	70 - 134	2	20
Fluoranthene	0.0400	0.0366		mg/L		92	68 - 126	2	20
Fluorene	0.0400	0.0370		mg/L		93	53 - 120	5	20
Indeno[1,2,3-cd]pyrene	0.0400	0.0596	*+	mg/L		149	65 - 133	1	20
Naphthalene	0.0400	0.0295		mg/L		74	36 - 110	3	20
Phenanthrene	0.0400	0.0365		mg/L		91	65 - 120	3	20
Pyrene	0.0400	0.0406		mg/L		101	70 - 126	5	20
1,2,4-Trichlorobenzene	0.0400	0.0281		mg/L		70	26 - 110	2	20
1,2-Dichlorobenzene	0.0400	0.0245		mg/L		61	26 - 110	1	20
1,3-Dichlorobenzene	0.0400	0.0238		mg/L		60	22 - 110	2	20
1,4-Dichlorobenzene	0.0400	0.0237		mg/L		59	23 - 110	2	20
2,4,5-Trichlorophenol	0.0400	0.0338		mg/L		84	63 - 124	3	20
2,4,6-Trichlorophenol	0.0400	0.0365		mg/L		91	62 - 121	3	20
2,4-Dichlorophenol	0.0400	0.0356		mg/L		89	58 - 120	3	20
2,4-Dimethylphenol	0.0400	0.0369		mg/L		92	51 - 115	5	20
2,4-Dinitrophenol	0.0800	0.0528		mg/L		66	37 - 130	2	20
2,4-Dinitrotoluene	0.0400	0.0409		mg/L		102	63 - 129	5	20
2,6-Dinitrotoluene	0.0400	0.0415		mg/L		104	63 - 129	2	20
2-Chloronaphthalene	0.0400	0.0336		mg/L		84	39 - 110	5	20
2-Chlorophenol	0.0400	0.0308		mg/L		77	59 - 110	1	20
2-Methylnaphthalene	0.0400	0.0285		mg/L		71	34 - 110	1	20
2-Methylphenol	0.0400	0.0287		mg/L		72	53 - 115	4	20
2-Nitroaniline	0.0400	0.0318		mg/L		79	59 - 138	4	20
2-Nitrophenol	0.0400	0.0353		mg/L		88	59 - 115	3	20
3,3'-Dichlorobenzidine	0.0400	0.0418		mg/L		104	60 - 132	5	20
3 & 4 Methylphenol	0.0400	0.0258		mg/L		64	50 - 116	2	20
3-Nitroaniline	0.0400	0.0312		mg/L		78	47 - 123	7	20
4,6-Dinitro-2-methylphenol	0.0800	0.0722		mg/L		90	50 - 129	6	20
4-Bromophenyl phenyl ether	0.0400	0.0400		mg/L		100	58 - 120	3	20
4-Chloro-3-methylphenol	0.0400	0.0286		mg/L		71	64 - 128	3	20
4-Chloroaniline	0.0400	0.0282		mg/L		71	35 - 128	4	20
4-Chlorophenyl phenyl ether	0.0400	0.0386		mg/L		97	48 - 116	5	20
4-Nitroaniline	0.0400	0.0281		mg/L		70	35 - 110	4	20
4-Nitrophenol	0.0800	0.0205		mg/L		26	20 - 110	4	20
Bis(2-chloroethoxy)methane	0.0400	0.0354		mg/L		88	59 - 118	3	20
Bis(2-chloroethyl)ether	0.0400	0.0321		mg/L		80	54 - 112	3	20
bis(chloroisopropyl) ether	0.0400	0.0275		mg/L		69	38 - 140	4	20
Bis(2-ethylhexyl) phthalate	0.0400	0.0399		mg/L		100	69 - 136	5	20
Butyl benzyl phthalate	0.0400	0.0406		mg/L		102	68 - 135	3	20
Carbazole	0.0400	0.0325		mg/L		81	61 - 145	1	20
Dibenzofuran	0.0400	0.0362		mg/L		90	51 - 110	6	20
Diethyl phthalate	0.0400	0.0390		mg/L		97	62 - 123	3	20
Dimethyl phthalate	0.0400	0.0398		mg/L		99	63 - 122	5	20
Di-n-butyl phthalate	0.0400	0.0391		mg/L		98	69 - 129	3	20
Di-n-octyl phthalate	0.0400	0.0332		mg/L		83	68 - 137	0	20
Hexachlorobenzene	0.0400	0.0410		mg/L		102	61 - 126	3	20
Hexachlorobutadiene	0.0400	0.0264		mg/L		66	20 - 100	2	20
Hexachlorocyclopentadiene	0.0400	0.0267		mg/L		67	10 - 105	9	20
Hexachloroethane	0.0400	0.0210		mg/L		53	20 - 100	5	20

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-799970/3-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799970

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isophorone			0.0400	0.0354		mg/L		88	54 - 127	4	20
Nitrobenzene			0.0400	0.0314		mg/L		78	54 - 121	3	20
N-Nitrosodi-n-propylamine			0.0400	0.0311		mg/L		78	47 - 131	2	20
N-Nitrosodiphenylamine			0.0400	0.0358		mg/L		89	66 - 120	2	20
Pentachlorophenol			0.0800	0.0402		mg/L		50	42 - 148	5	20
Phenol			0.0400	0.0158		mg/L		39	33 - 100	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*51*		*40 - 145*
2-Fluorobiphenyl (Surr)	*45*		*34 - 110*
2-Fluorophenol (Surr)	*29*		*27 - 110*
Nitrobenzene-d5 (Surr)	*41*		*36 - 120*
Phenol-d5 (Surr)	*20*		*20 - 110*
Terphenyl-d14 (Surr)	*55*		*40 - 145*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-799917/1-A
Matrix: Water
Analysis Batch: 800216

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
4,4'-DDE	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
4,4'-DDT	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Aldrin	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
alpha-BHC	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
alpha-Chlordane	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
beta-BHC	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Chlordane (technical)	<0.00020		0.00020		mg/L		12/18/24 09:59	12/19/24 17:21	1
delta-BHC	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Dieldrin	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Endosulfan I	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Endosulfan II	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Endosulfan sulfate	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Endrin	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Endrin aldehyde	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Endrin ketone	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
gamma-BHC (Lindane)	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
gamma-Chlordane	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Heptachlor	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Heptachlor epoxide	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Methoxychlor	<0.00020		0.00020		mg/L		12/18/24 09:59	12/19/24 17:21	1
Toxaphene	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 17:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*30 - 130*	*12/18/24 09:59*	*12/19/24 17:21*	*1*
Tetrachloro-m-xylene	*53*		*30 - 120*	*12/18/24 09:59*	*12/19/24 17:21*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-799917/2-A
Matrix: Water
Analysis Batch: 800216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799917

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			0.000320	0.000228		mg/L		71	69 - 124		
4,4'-DDE			0.000320	0.000235		mg/L		73	58 - 122		
4,4'-DDT			0.000320	0.000263		mg/L		82	62 - 127		
Aldrin			0.000320	0.000207		mg/L		65	34 - 120		
alpha-BHC			0.000320	0.000223		mg/L		70	65 - 120		
beta-BHC			0.000320	0.000225		mg/L		70	65 - 120		
delta-BHC			0.000320	0.000241		mg/L		75	70 - 122		
Dieldrin			0.000320	0.000246		mg/L		77	68 - 120		
Endosulfan I			0.000320	0.000214		mg/L		67	35 - 110		
Endosulfan II			0.000320	0.000224		mg/L		70	53 - 110		
Endosulfan sulfate			0.000320	0.000236		mg/L		74	70 - 133		
Endrin			0.000320	0.000277		mg/L		87	60 - 132		
Endrin aldehyde			0.000320	0.000240		mg/L		75	66 - 120		
Endrin ketone			0.000320	0.000229		mg/L		72	63 - 130		
gamma-BHC (Lindane)			0.000320	0.000240		mg/L		75	68 - 120		
Heptachlor			0.000320	0.000215		mg/L		67	40 - 120		
Heptachlor epoxide			0.000320	0.000243		mg/L		76	64 - 120		
Methoxychlor			0.000320	0.000266		mg/L		83	63 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*54*		*30 - 130*
Tetrachloro-m-xylene	*46*		*30 - 120*

Lab Sample ID: LCSD 500-799917/3-A
Matrix: Water
Analysis Batch: 800216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799917

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.000320	0.000251		mg/L		78	69 - 124	9	20
4,4'-DDE			0.000320	0.000259		mg/L		81	58 - 122	10	20
4,4'-DDT			0.000320	0.000285		mg/L		89	62 - 127	8	20
Aldrin			0.000320	0.000224		mg/L		70	34 - 120	8	20
alpha-BHC			0.000320	0.000247		mg/L		77	65 - 120	10	20
beta-BHC			0.000320	0.000251		mg/L		78	65 - 120	11	20
delta-BHC			0.000320	0.000270		mg/L		84	70 - 122	11	20
Dieldrin			0.000320	0.000272		mg/L		85	68 - 120	10	20
Endosulfan I			0.000320	0.000237		mg/L		74	35 - 110	10	20
Endosulfan II			0.000320	0.000248		mg/L		78	53 - 110	10	20
Endosulfan sulfate			0.000320	0.000260		mg/L		81	70 - 133	9	20
Endrin			0.000320	0.000307		mg/L		96	60 - 132	10	20
Endrin aldehyde			0.000320	0.000267		mg/L		83	66 - 120	11	20
Endrin ketone			0.000320	0.000251		mg/L		79	63 - 130	9	20
gamma-BHC (Lindane)			0.000320	0.000268		mg/L		84	68 - 120	11	20
Heptachlor			0.000320	0.000233		mg/L		73	40 - 120	8	20
Heptachlor epoxide			0.000320	0.000269		mg/L		84	64 - 120	10	20
Methoxychlor			0.000320	0.000289		mg/L		90	63 - 135	8	20

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 500-799917/3-A
Matrix: Water
Analysis Batch: 800216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799917

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*59*		*30 - 130*
Tetrachloro-m-xylene	*58*		*30 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-799917/1-A
Matrix: Water
Analysis Batch: 800086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
PCB-1221	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
PCB-1232	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
PCB-1242	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
PCB-1248	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
PCB-1254	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
PCB-1260	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
Polychlorinated biphenyls, Total	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*30 - 120*	*12/18/24 09:59*	*12/19/24 10:12*	*1*
DCB Decachlorobiphenyl	*87*		*30 - 140*	*12/18/24 09:59*	*12/19/24 10:12*	*1*

Lab Sample ID: LCS 500-799917/4-A
Matrix: Water
Analysis Batch: 800086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799917

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.00400	0.00287		mg/L		72	56 - 120		
PCB-1260			0.00400	0.00304		mg/L		76	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*30 - 120*
DCB Decachlorobiphenyl	*76*		*30 - 140*

Lab Sample ID: LCSD 500-799917/5-A
Matrix: Water
Analysis Batch: 800086

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799917

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.00400	0.00324		mg/L		81	56 - 120	12	20
PCB-1260			0.00400	0.00285		mg/L		71	53 - 137	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*65*		*30 - 120*
DCB Decachlorobiphenyl	*79*		*30 - 140*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-799512/1-A
Matrix: Water
Analysis Batch: 799882

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799512

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		12/16/24 08:29	12/17/24 17:08	1
Antimony	<0.0030		0.0030		mg/L		12/16/24 08:29	12/17/24 17:08	1
Arsenic	<0.0010	^5+	0.0010		mg/L		12/16/24 08:29	12/17/24 17:08	1
Barium	<0.0025		0.0025		mg/L		12/16/24 08:29	12/17/24 17:08	1
Beryllium	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:08	1
Cadmium	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:08	1
Calcium	<0.20	^5+	0.20		mg/L		12/16/24 08:29	12/17/24 17:08	1
Chromium	<0.0050		0.0050		mg/L		12/16/24 08:29	12/17/24 17:08	1
Cobalt	<0.0010		0.0010		mg/L		12/16/24 08:29	12/17/24 17:08	1
Copper	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:08	1
Iron	<0.10		0.10		mg/L		12/16/24 08:29	12/17/24 17:08	1
Lead	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:08	1
Magnesium	<0.20		0.20		mg/L		12/16/24 08:29	12/17/24 17:08	1
Manganese	<0.0025		0.0025		mg/L		12/16/24 08:29	12/17/24 17:08	1
Nickel	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:08	1
Potassium	<0.50		0.50		mg/L		12/16/24 08:29	12/17/24 17:08	1
Selenium	<0.0025		0.0025		mg/L		12/16/24 08:29	12/17/24 17:08	1
Silver	<0.00050		0.00050		mg/L		12/16/24 08:29	12/17/24 17:08	1
Sodium	<0.20		0.20		mg/L		12/16/24 08:29	12/17/24 17:08	1
Thallium	<0.0020		0.0020		mg/L		12/16/24 08:29	12/17/24 17:08	1
Vanadium	<0.0050		0.0050		mg/L		12/16/24 08:29	12/17/24 17:08	1
Zinc	<0.020		0.020		mg/L		12/16/24 08:29	12/17/24 17:08	1

Lab Sample ID: LCS 500-799512/2-A
Matrix: Water
Analysis Batch: 799882

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2.00	2.04		mg/L		102	80 - 120
Antimony	0.500	0.553		mg/L		111	80 - 120
Arsenic	0.100	0.105	^5+	mg/L		105	80 - 120
Barium	0.500	0.530		mg/L		106	80 - 120
Beryllium	0.0500	0.0530		mg/L		106	80 - 120
Cadmium	0.0500	0.0536		mg/L		107	80 - 120
Calcium	10.0	8.97	^5+	mg/L		90	80 - 120
Chromium	0.200	0.215		mg/L		108	80 - 120
Cobalt	0.500	0.544		mg/L		109	80 - 120
Copper	0.250	0.268		mg/L		107	80 - 120
Iron	1.00	1.08		mg/L		108	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120
Magnesium	10.0	10.9		mg/L		109	80 - 120
Manganese	0.500	0.547		mg/L		109	80 - 120
Nickel	0.500	0.538		mg/L		108	80 - 120
Potassium	10.0	10.8		mg/L		108	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0543		mg/L		109	80 - 120
Sodium	10.0	10.6		mg/L		106	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120
Vanadium	0.500	0.534		mg/L		107	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-799512/2-A
Matrix: Water
Analysis Batch: 799882

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.536		mg/L		107	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-800737/12-A
Matrix: Water
Analysis Batch: 800921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 800737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/26/24 11:20	12/27/24 10:09	1

Lab Sample ID: LCS 500-800737/14-A
Matrix: Water
Analysis Batch: 800921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 800737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00198		mg/L		99	80 - 120

Lab Sample ID: LCSD 500-800737/33-A
Matrix: Water
Analysis Batch: 800921

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 800737

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00200	0.00204		mg/L		102	80 - 120	3	20

Lab Sample ID: MB 500-800738/12-A
Matrix: Water
Analysis Batch: 800921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 800738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/26/24 11:20	12/27/24 08:19	1

Lab Sample ID: LCS 500-800738/13-A
Matrix: Water
Analysis Batch: 800921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 800738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00201		mg/L		101	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-799518/1-A
Matrix: Water
Analysis Batch: 799568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0050		0.0050		mg/L		12/16/24 08:27	12/16/24 10:37	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 500-799518/2-A
Matrix: Water
Analysis Batch: 799568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0885		mg/L		89	85 - 115

Lab Sample ID: 500-261525-1 MS
Matrix: Water
Analysis Batch: 799568

Client Sample ID: MW-308
Prep Type: Total/NA
Prep Batch: 799518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.0050		0.100	0.0897		mg/L		90	75 - 125

Lab Sample ID: 500-261525-1 MSD
Matrix: Water
Analysis Batch: 799568

Client Sample ID: MW-308
Prep Type: Total/NA
Prep Batch: 799518

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0050		0.100	0.0866		mg/L		87	75 - 125	4	20

Client Sample ID: MW-308

Lab Sample ID: 500-261525-1

Date Collected: 12/11/24 11:49

Matrix: Water

Date Received: 12/12/24 12:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799899	W1T	EET CHI	12/18/24 16:24
Dissolved	Prep	3510C			799791	LG	EET CHI	12/17/24 13:48
Dissolved	Analysis	8270E		1	800213	H7CM	EET CHI	12/19/24 19:22
Total/NA	Prep	3510C			799970	LG	EET CHI	12/18/24 13:54
Total/NA	Analysis	8270E		1	800589	H7CM	EET CHI	12/23/24 21:00
Total/NA	Prep	3510C			799917	LG	EET CHI	12/18/24 09:59
Total/NA	Analysis	8081B		1	800216	H7CM	EET CHI	12/19/24 18:34
Total/NA	Prep	3510C			799917	LG	EET CHI	12/18/24 09:59
Total/NA	Analysis	8082A		1	800086	SB	EET CHI	12/19/24 12:36
Dissolved	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Dissolved	Analysis	6020B		1	799882	RN	EET CHI	12/17/24 17:23
Dissolved	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 14:19
Total Recoverable	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Total Recoverable	Analysis	6020B		1	799882	RN	EET CHI	12/17/24 17:13
Total Recoverable	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 14:09
Dissolved	Prep	7470A			800737	MJG	EET CHI	12/26/24 11:20 - 12/26/24 13:20 [1]
Dissolved	Analysis	7470A		1	800921	MJG	EET CHI	12/27/24 11:10
Total/NA	Prep	7470A			800738	MJG	EET CHI	12/26/24 11:20 - 12/26/24 13:20 [1]
Total/NA	Analysis	7470A		1	800921	MJG	EET CHI	12/27/24 09:52
Total/NA	Prep	9010C			799518	AC	EET CHI	12/16/24 08:27 - 12/16/24 08:57 [1]
Total/NA	Analysis	9012B		1	799568	AC	EET CHI	12/16/24 10:48

Client Sample ID: MW-309

Lab Sample ID: 500-261525-2

Date Collected: 12/11/24 13:10

Matrix: Water

Date Received: 12/12/24 12:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799899	W1T	EET CHI	12/18/24 16:48
Dissolved	Prep	3510C			799791	LG	EET CHI	12/17/24 13:48
Dissolved	Analysis	8270E		1	800213	H7CM	EET CHI	12/19/24 19:43
Total/NA	Prep	3510C			799970	LG	EET CHI	12/18/24 13:54
Total/NA	Analysis	8270E		1	800589	H7CM	EET CHI	12/23/24 21:21
Total/NA	Prep	3510C			799917	LG	EET CHI	12/18/24 09:59
Total/NA	Analysis	8081B		1	800216	H7CM	EET CHI	12/19/24 18:46
Total/NA	Prep	3510C			799917	LG	EET CHI	12/18/24 09:59
Total/NA	Analysis	8082A		1	800086	SB	EET CHI	12/19/24 12:50
Dissolved	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Dissolved	Analysis	6020B		1	799882	RN	EET CHI	12/17/24 17:26
Dissolved	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 14:22
Total Recoverable	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Total Recoverable	Analysis	6020B		1	799882	RN	EET CHI	12/17/24 17:16

Client Sample ID: MW-309
Lab Sample ID: 500-261525-2
Date Collected: 12/11/24 13:10
Matrix: Water
Date Received: 12/12/24 12:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 14:12
Dissolved	Prep	7470A			800737	MJG	EET CHI	12/26/24 11:20 - 12/26/24 13:20 [1]
Dissolved	Analysis	7470A		1	800921	MJG	EET CHI	12/27/24 11:12
Total/NA	Prep	7470A			800738	MJG	EET CHI	12/26/24 11:20 - 12/26/24 13:20 [1]
Total/NA	Analysis	7470A		1	800921	MJG	EET CHI	12/27/24 09:54
Total/NA	Prep	9010C			799518	AC	EET CHI	12/16/24 08:27 - 12/16/24 08:57 [1]
Total/NA	Analysis	9012B		1	799568	AC	EET CHI	12/16/24 10:57

Client Sample ID: MW-310
Lab Sample ID: 500-261525-3
Date Collected: 12/11/24 14:18
Matrix: Water
Date Received: 12/12/24 12:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799899	W1T	EET CHI	12/18/24 17:12
Dissolved	Prep	3510C			799791	LG	EET CHI	12/17/24 13:48
Dissolved	Analysis	8270E		1	800213	H7CM	EET CHI	12/19/24 20:05
Total/NA	Prep	3510C			799970	LG	EET CHI	12/18/24 13:54
Total/NA	Analysis	8270E		1	800589	H7CM	EET CHI	12/23/24 21:43
Total/NA	Prep	3510C			799917	LG	EET CHI	12/18/24 09:59
Total/NA	Analysis	8081B		1	800216	H7CM	EET CHI	12/19/24 18:58
Total/NA	Prep	3510C			799917	LG	EET CHI	12/18/24 09:59
Total/NA	Analysis	8082A		10	800086	SB	EET CHI	12/19/24 14:17
Dissolved	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Dissolved	Analysis	6020B		1	799882	RN	EET CHI	12/17/24 17:28
Dissolved	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 14:25
Total Recoverable	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Total Recoverable	Analysis	6020B		1	799882	RN	EET CHI	12/17/24 17:18
Total Recoverable	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 14:14
Dissolved	Prep	7470A			800737	MJG	EET CHI	12/26/24 11:20 - 12/26/24 13:20 [1]
Dissolved	Analysis	7470A		1	800921	MJG	EET CHI	12/27/24 11:14
Total/NA	Prep	7470A			800738	MJG	EET CHI	12/26/24 11:20 - 12/26/24 13:20 [1]
Total/NA	Analysis	7470A		1	800921	MJG	EET CHI	12/27/24 09:56
Total/NA	Prep	9010C			799518	AC	EET CHI	12/16/24 08:27 - 12/16/24 08:57 [1]
Total/NA	Analysis	9012B		1	799568	AC	EET CHI	12/16/24 10:59

Client Sample ID: MW-311
Lab Sample ID: 500-261525-4
Date Collected: 12/11/24 15:33
Matrix: Water
Date Received: 12/12/24 12:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799899	W1T	EET CHI	12/18/24 17:36

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-311
Lab Sample ID: 500-261525-4
Date Collected: 12/11/24 15:33
Matrix: Water
Date Received: 12/12/24 12:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3510C			799791	LG	EET CHI	12/17/24 13:48
Dissolved	Analysis	8270E		1	800213	H7CM	EET CHI	12/19/24 20:26
Total/NA	Prep	3510C			799970	LG	EET CHI	12/18/24 13:54
Total/NA	Analysis	8270E		1	800589	H7CM	EET CHI	12/24/24 02:22
Total/NA	Prep	3510C			799917	LG	EET CHI	12/18/24 09:59
Total/NA	Analysis	8081B		1	800216	H7CM	EET CHI	12/19/24 19:10
Total/NA	Prep	3510C			799917	LG	EET CHI	12/18/24 09:59
Total/NA	Analysis	8082A		1	800086	SB	EET CHI	12/19/24 13:16
Dissolved	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Dissolved	Analysis	6020B		1	799882	RN	EET CHI	12/17/24 17:36
Dissolved	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 14:27
Total Recoverable	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Total Recoverable	Analysis	6020B		1	799882	RN	EET CHI	12/17/24 17:21
Total Recoverable	Prep	3005A			799512	BDE	EET CHI	12/16/24 08:29 - 12/16/24 14:29 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 14:17
Dissolved	Prep	7470A			800737	MJG	EET CHI	12/26/24 11:20 - 12/26/24 13:20 [1]
Dissolved	Analysis	7470A		1	800921	MJG	EET CHI	12/27/24 11:16
Total/NA	Prep	7470A			800738	MJG	EET CHI	12/26/24 11:20 - 12/26/24 13:20 [1]
Total/NA	Analysis	7470A		1	800921	MJG	EET CHI	12/27/24 10:07
Total/NA	Prep	9010C			799518	AC	EET CHI	12/16/24 08:27 - 12/16/24 08:57 [1]
Total/NA	Analysis	9012B		1	799568	AC	EET CHI	12/16/24 11:01

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261525-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Water	Polychlorinated biphenyls, Total
8260D		Water	1,3-Dichloropropene, Total

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax. 708 534-5211

MKE 232

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JIM	Lab PM: Knapp Jim D	C: 500-261525 COC	COC No: 500-131397-51411 21
Client Contact: Jake Hartsock	Phone:	E-Mail: Jim Knapp@et.eurofinsus com	State of Orig:	Page: Page 21 of 24
Company: Pioneer Engineering & Environmental Srvc	PWSID:			Job #: 500-261525
Address: 2753 W 31st Street	Due Date Requested:			
City: Chicago	TAT Requested (days): 10 DAY			
State, Zip: IL, 60608	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: jhartsock@pioneerees com	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCL Filtered PNAs	Filtered Metals	Total Number of containers	Special Instructions/Note:
				Preservation Code:							
1	MW-308	12/11/24	1149	G	Water			X	X		
2	MW-309		110		Water			X	X		
3	MW-310		218		Water			X	X		
4	MW-311		333		Water			X	X		
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12/12/24			12/12/24 0915	EETA
2		12/12/24 1212	EETA	Stephanie Hernandez	12/12/24 1212	EETA
3						

Custody Seals Intact: Δ Yes Δ No

Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 1.9-1.4

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-261525-1

Login Number: 261525
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

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JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-261583-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

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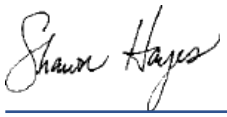
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Revision 1

Authorized for release by
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Job Narrative
500-261583-1

Revision
The report being provided is a revision of the original report sent on 12/31/2024. The report (revision 1) is being revised due to: to correct the reactive sulfide results that were off by a factor or 10X..

Receipt
The samples were received on 12/13/24 11:17. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-800251 was outside the method criteria for the following analyte(s): 1,1,2,2-Tetrachloroethane, Carbon disulfide, Naphthalene and trans-1,2-Dichloroethene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-800589 was outside the method criteria for the following analyte(s): 4-Nitroaniline, 4-Nitrophenol and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-800589 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 500-799970 and analytical batch 500-800589 recovered outside control limits for the following analytes: Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The laboratory control sample (LCS) for preparation batch 500-799970 and analytical batch 500-800589 recovered outside control limits for the following surrogate: Phenol-d5 (Surr). No corrective action is required.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: Surrogate DCB Decachlorobiphenyl is outside acceptable limits for the following continuing control verification (CCVIS): (CCVIS 500-800216/5). Surrogate Tetrachloro-m-xylene is within acceptable limits; therefore, re-analysis was not performed.

Method 8081B: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside control limits: MW-312 (500-261583-1). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The continuing calibration verification (CCV) associated with batch 500-800216 recovered above the upper control limit for Chlordane (technical). The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated sample is impacted: (CCV 500-800216/7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-312 (500-261583-1) and MW-313 (500-261583-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-261583-1 (Continued)

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-312
Lab Sample ID: 500-261583-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	32		0.10		mg/L	1		6020B	Total Recoverable
Arsenic	0.038		0.0010		mg/L	1		6020B	Total Recoverable
Barium	0.16		0.0025		mg/L	1		6020B	Total Recoverable
Beryllium	0.0024		0.0010		mg/L	1		6020B	Total Recoverable
Cadmium	0.00081		0.00050		mg/L	1		6020B	Total Recoverable
Calcium	360		1.0		mg/L	5		6020B	Total Recoverable
Chromium	0.074		0.0050		mg/L	1		6020B	Total Recoverable
Cobalt	0.047		0.0010		mg/L	1		6020B	Total Recoverable
Copper	0.080		0.0020		mg/L	1		6020B	Total Recoverable
Iron	97		0.10		mg/L	1		6020B	Total Recoverable
Lead	0.13		0.00050		mg/L	1		6020B	Total Recoverable
Magnesium	140		0.20		mg/L	1		6020B	Total Recoverable
Manganese	3.1		0.0025		mg/L	1		6020B	Total Recoverable
Nickel	0.094		0.0020		mg/L	1		6020B	Total Recoverable
Potassium	19		0.50		mg/L	1		6020B	Total Recoverable
Selenium	0.012		0.0025		mg/L	1		6020B	Total Recoverable
Sodium	12		0.20		mg/L	1		6020B	Total Recoverable
Vanadium	0.089		0.0050		mg/L	1		6020B	Total Recoverable
Zinc	0.31		0.020		mg/L	1		6020B	Total Recoverable
Aluminum	0.21		0.10		mg/L	1		6020B	Dissolved
Barium	0.048		0.0025		mg/L	1		6020B	Dissolved
Calcium	190		0.20		mg/L	1		6020B	Dissolved
Chromium	0.026		0.0050		mg/L	1		6020B	Dissolved
Iron	0.68		0.10		mg/L	1		6020B	Dissolved
Lead	0.00083		0.00050		mg/L	1		6020B	Dissolved
Magnesium	75		0.20		mg/L	1		6020B	Dissolved
Manganese	0.12		0.0025		mg/L	1		6020B	Dissolved
Nickel	0.0063		0.0020		mg/L	1		6020B	Dissolved
Potassium	11		0.50		mg/L	1		6020B	Dissolved
Selenium	0.0060		0.0025		mg/L	1		6020B	Dissolved
Sodium	11		0.20		mg/L	1		6020B	Dissolved

Client Sample ID: MW-313
Lab Sample ID: 500-261583-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	31		0.025		mg/L	10		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-313 (Continued) — Lab Sample ID: 500-261583-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.62		0.0025		mg/L	1		6020B	Dissolved

Client Sample ID: SB49 (0-3) — Lab Sample ID: 500-261583-3

No Detections.

Client Sample ID: SB45 (5-7.5) — Lab Sample ID: 500-261583-4

No Detections.

Client Sample ID: SB6 (3-5) — Lab Sample ID: 500-261583-5

No Detections.

Client Sample ID: SB117 (5-7.5) — Lab Sample ID: 500-261583-6

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total andor Amenable	SW846	EET CHI
9034	Sulfide, Reactive	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
7.3.4	Sulfide, Reactive	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261583-1	MW-312	Water	12/12/24 11:11	12/13/24 11:17
500-261583-2	MW-313	Water	12/12/24 12:40	12/13/24 11:17
500-261583-3	SB49 (0-3)	Solid	12/12/24 10:01	12/13/24 11:17
500-261583-4	SB45 (5-7.5)	Solid	12/12/24 10:37	12/13/24 11:17
500-261583-5	SB6 (3-5)	Solid	12/12/24 13:51	12/13/24 11:17
500-261583-6	SB117 (5-7.5)	Solid	12/12/24 14:42	12/13/24 11:17

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-312
Lab Sample ID: 500-261583-1
Date Collected: 12/12/24 11:11
Matrix: Water
Date Received: 12/13/24 11:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			12/20/24 15:03	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			12/20/24 15:03	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			12/20/24 15:03	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			12/20/24 15:03	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			12/20/24 15:03	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			12/20/24 15:03	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			12/20/24 15:03	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			12/20/24 15:03	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			12/20/24 15:03	1
p-Dioxane	<0.10		0.10		mg/L			12/20/24 15:03	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			12/20/24 15:03	1
2-Hexanone	<0.0050		0.0050		mg/L			12/20/24 15:03	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			12/20/24 15:03	1
Acetone	<0.010		0.010		mg/L			12/20/24 15:03	1
Benzene	<0.00050		0.00050		mg/L			12/20/24 15:03	1
Bromodichloromethane	<0.0010		0.0010		mg/L			12/20/24 15:03	1
Bromoform	<0.0010		0.0010		mg/L			12/20/24 15:03	1
Bromomethane	<0.0030		0.0030		mg/L			12/20/24 15:03	1
Carbon disulfide	<0.0020		0.0020		mg/L			12/20/24 15:03	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			12/20/24 15:03	1
Chlorobenzene	<0.0010		0.0010		mg/L			12/20/24 15:03	1
Chloroethane	<0.0050		0.0050		mg/L			12/20/24 15:03	1
Chloroform	<0.0020		0.0020		mg/L			12/20/24 15:03	1
Chloromethane	<0.0050		0.0050		mg/L			12/20/24 15:03	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/20/24 15:03	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			12/20/24 15:03	1
Dibromochloromethane	<0.0010		0.0010		mg/L			12/20/24 15:03	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			12/20/24 15:03	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/20/24 15:03	1
Isopropylbenzene	<0.0010		0.0010		mg/L			12/20/24 15:03	1
m&p-Xylene	<0.0010		0.0010		mg/L			12/20/24 15:03	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			12/20/24 15:03	1
Methylene Chloride	<0.0050		0.0050		mg/L			12/20/24 15:03	1
Naphthalene	<0.0010		0.0010		mg/L			12/20/24 15:03	1
n-Butyl alcohol	<0.13		0.13		mg/L			12/20/24 15:03	1
o-Xylene	<0.00050		0.00050		mg/L			12/20/24 15:03	1
Styrene	<0.0010		0.0010		mg/L			12/20/24 15:03	1
Tetrachloroethene	<0.0010		0.0010		mg/L			12/20/24 15:03	1
Toluene	<0.00050		0.00050		mg/L			12/20/24 15:03	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/20/24 15:03	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/20/24 15:03	1
Trichloroethene	<0.00050		0.00050		mg/L			12/20/24 15:03	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			12/20/24 15:03	1
Vinyl acetate	<0.0020		0.0020		mg/L			12/20/24 15:03	1
Vinyl chloride	<0.0010		0.0010		mg/L			12/20/24 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*12/20/24 15:03*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*12/20/24 15:03*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*12/20/24 15:03*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-312
Lab Sample ID: 500-261583-1
Date Collected: 12/12/24 11:11
Matrix: Water
Date Received: 12/13/24 11:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*75 - 120*		*12/20/24 15:03*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00082		0.00082		mg/L		12/18/24 13:54	12/23/24 22:04	1
Acenaphthylene	<0.00082		0.00082		mg/L		12/18/24 13:54	12/23/24 22:04	1
Anthracene	<0.00082		0.00082		mg/L		12/18/24 13:54	12/23/24 22:04	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/18/24 13:54	12/23/24 22:04	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Benzo[g,h,i]perylene	<0.00082	*+	0.00082		mg/L		12/18/24 13:54	12/23/24 22:04	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Chrysene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Dibenz(a,h)anthracene	<0.00025	*+	0.00025		mg/L		12/18/24 13:54	12/23/24 22:04	1
Fluoranthene	<0.00082		0.00082		mg/L		12/18/24 13:54	12/23/24 22:04	1
Fluorene	<0.00082		0.00082		mg/L		12/18/24 13:54	12/23/24 22:04	1
Indeno[1,2,3-cd]pyrene	<0.00016	*+	0.00016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Naphthalene	<0.00082		0.00082		mg/L		12/18/24 13:54	12/23/24 22:04	1
Phenanthrene	<0.00082		0.00082		mg/L		12/18/24 13:54	12/23/24 22:04	1
Pyrene	<0.00082		0.00082		mg/L		12/18/24 13:54	12/23/24 22:04	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
2,4,5-Trichlorophenol	<0.0082		0.0082		mg/L		12/18/24 13:54	12/23/24 22:04	1
2,4,6-Trichlorophenol	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1
2,4-Dichlorophenol	<0.0082		0.0082		mg/L		12/18/24 13:54	12/23/24 22:04	1
2,4-Dimethylphenol	<0.0082		0.0082		mg/L		12/18/24 13:54	12/23/24 22:04	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 22:04	1
2,4-Dinitrotoluene	<0.00082		0.00082		mg/L		12/18/24 13:54	12/23/24 22:04	1
2,6-Dinitrotoluene	<0.00082		0.00082		mg/L		12/18/24 13:54	12/23/24 22:04	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
2-Chlorophenol	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
2-Methylphenol	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
2-Nitroaniline	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1
2-Nitrophenol	<0.0082		0.0082		mg/L		12/18/24 13:54	12/23/24 22:04	1
3,3'-Dichlorobenzidine	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1
3 & 4 Methylphenol	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
3-Nitroaniline	<0.0082		0.0082		mg/L		12/18/24 13:54	12/23/24 22:04	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 22:04	1
4-Bromophenyl phenyl ether	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1
4-Chloro-3-methylphenol	<0.0082		0.0082		mg/L		12/18/24 13:54	12/23/24 22:04	1
4-Chloroaniline	<0.0082		0.0082		mg/L		12/18/24 13:54	12/23/24 22:04	1
4-Chlorophenyl phenyl ether	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1
4-Nitroaniline	<0.0082		0.0082		mg/L		12/18/24 13:54	12/23/24 22:04	1
4-Nitrophenol	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1

Client Sample ID: MW-312
Lab Sample ID: 500-261583-1
Date Collected: 12/12/24 11:11
Matrix: Water
Date Received: 12/13/24 11:17

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Bis(2-ethylhexyl) phthalate	<0.0082		0.0082		mg/L		12/18/24 13:54	12/23/24 22:04	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Carbazole	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1
Dibenzofuran	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Diethyl phthalate	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1
Dimethyl phthalate	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1
Di-n-butyl phthalate	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1
Di-n-octyl phthalate	<0.0082		0.0082		mg/L		12/18/24 13:54	12/23/24 22:04	1
Hexachlorobenzene	<0.00041		0.00041		mg/L		12/18/24 13:54	12/23/24 22:04	1
Hexachlorobutadiene	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Hexachloroethane	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1
Isophorone	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Nitrobenzene	<0.00082		0.00082		mg/L		12/18/24 13:54	12/23/24 22:04	1
N-Nitrosodi-n-propylamine	<0.00041		0.00041		mg/L		12/18/24 13:54	12/23/24 22:04	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Pentachlorophenol	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 22:04	1
Phenol	<0.0041		0.0041		mg/L		12/18/24 13:54	12/23/24 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*40 - 145*	*12/18/24 13:54*	*12/23/24 22:04*	*1*
2-Fluorobiphenyl (Surr)	*78*		*34 - 110*	*12/18/24 13:54*	*12/23/24 22:04*	*1*
2-Fluorophenol (Surr)	*50*		*27 - 110*	*12/18/24 13:54*	*12/23/24 22:04*	*1*
Nitrobenzene-d5 (Surr)	*76*		*36 - 120*	*12/18/24 13:54*	*12/23/24 22:04*	*1*
Phenol-d5 (Surr)	*32*		*20 - 110*	*12/18/24 13:54*	*12/23/24 22:04*	*1*
Terphenyl-d14 (Surr)	*101*		*40 - 145*	*12/18/24 13:54*	*12/23/24 22:04*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00079		0.00079		mg/L		12/17/24 13:48	12/19/24 20:48	1
Acenaphthylene	<0.00079		0.00079		mg/L		12/17/24 13:48	12/19/24 20:48	1
Anthracene	<0.00079		0.00079		mg/L		12/17/24 13:48	12/19/24 20:48	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/17/24 13:48	12/19/24 20:48	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:48	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:48	1
Benzo[g,h,i]perylene	<0.00079		0.00079		mg/L		12/17/24 13:48	12/19/24 20:48	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:48	1
Chrysene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:48	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/17/24 13:48	12/19/24 20:48	1
Fluoranthene	<0.00079		0.00079		mg/L		12/17/24 13:48	12/19/24 20:48	1
Fluorene	<0.00079		0.00079		mg/L		12/17/24 13:48	12/19/24 20:48	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 20:48	1
Naphthalene	<0.00079		0.00079		mg/L		12/17/24 13:48	12/19/24 20:48	1
Phenanthrene	<0.00079		0.00079		mg/L		12/17/24 13:48	12/19/24 20:48	1
Pyrene	<0.00079		0.00079		mg/L		12/17/24 13:48	12/19/24 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*75*		*36 - 120*	*12/17/24 13:48*	*12/19/24 20:48*	*1*
2-Fluorobiphenyl (Surr)	*63*		*34 - 110*	*12/17/24 13:48*	*12/19/24 20:48*	*1*

Client Sample ID: MW-312
Lab Sample ID: 500-261583-1
Date Collected: 12/12/24 11:11
Matrix: Water
Date Received: 12/13/24 11:17

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*98*		*40 - 145*	*12/17/24 13:48*	*12/19/24 20:48*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
4,4'-DDE	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
4,4'-DDT	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
Aldrin	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
alpha-BHC	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
alpha-Chlordane	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
beta-BHC	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
Chlordane (technical)	<0.00020		0.00020		mg/L		12/18/24 09:59	12/19/24 19:35	1
delta-BHC	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
Dieldrin	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
Endosulfan I	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
Endosulfan II	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
Endosulfan sulfate	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
Endrin	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
Endrin aldehyde	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
Endrin ketone	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
gamma-BHC (Lindane)	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
gamma-Chlordane	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
Heptachlor	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
Heptachlor epoxide	<0.000098		0.000098		mg/L		12/18/24 09:59	12/19/24 19:35	1
Methoxychlor	<0.00020		0.00020		mg/L		12/18/24 09:59	12/19/24 19:35	1
Toxaphene	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*23*	*S1-*	*30 - 130*	*12/18/24 09:59*	*12/19/24 19:35*	*1*
Tetrachloro-m-xylene	*53*		*30 - 120*	*12/18/24 09:59*	*12/19/24 19:35*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:29	1
PCB-1221	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:29	1
PCB-1232	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:29	1
PCB-1242	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:29	1
PCB-1248	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:29	1
PCB-1254	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:29	1
PCB-1260	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:29	1
Polychlorinated biphenyls, Total	<0.00098		0.00098		mg/L		12/18/24 09:59	12/19/24 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*52*		*30 - 120*	*12/18/24 09:59*	*12/19/24 13:29*	*1*
DCB Decachlorobiphenyl	*30*		*30 - 140*	*12/18/24 09:59*	*12/19/24 13:29*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**32**		0.10		mg/L		12/16/24 08:26	12/18/24 13:52	1
Antimony	<0.0030		0.0030		mg/L		12/16/24 08:26	12/18/24 13:52	1

Client Sample ID: MW-312
Lab Sample ID: 500-261583-1
Date Collected: 12/12/24 11:11
Matrix: Water
Date Received: 12/13/24 11:17

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.038**		0.0010		mg/L		12/16/24 08:26	12/18/24 13:52	1
Barium	**0.16**		0.0025		mg/L		12/16/24 08:26	12/17/24 16:08	1
Beryllium	**0.0024**		0.0010		mg/L		12/16/24 08:26	12/17/24 16:08	1
Cadmium	**0.00081**		0.00050		mg/L		12/16/24 08:26	12/18/24 13:52	1
Calcium	**360**		1.0		mg/L		12/16/24 08:26	12/18/24 13:54	5
Chromium	**0.074**		0.0050		mg/L		12/16/24 08:26	12/18/24 13:52	1
Cobalt	**0.047**		0.0010		mg/L		12/16/24 08:26	12/18/24 13:52	1
Copper	**0.080**		0.0020		mg/L		12/16/24 08:26	12/17/24 16:08	1
Iron	**97**		0.10		mg/L		12/16/24 08:26	12/17/24 16:08	1
Lead	**0.13**		0.00050		mg/L		12/16/24 08:26	12/18/24 13:52	1
Magnesium	**140**		0.20		mg/L		12/16/24 08:26	12/17/24 16:08	1
Manganese	**3.1**		0.0025		mg/L		12/16/24 08:26	12/17/24 16:08	1
Nickel	**0.094**		0.0020		mg/L		12/16/24 08:26	12/17/24 16:08	1
Potassium	**19**		0.50		mg/L		12/16/24 08:26	12/18/24 13:52	1
Selenium	**0.012**		0.0025		mg/L		12/16/24 08:26	12/18/24 13:52	1
Silver	<0.00050		0.00050		mg/L		12/16/24 08:26	12/18/24 13:52	1
Sodium	**12**		0.20		mg/L		12/16/24 08:26	12/17/24 16:08	1
Thallium	<0.0020		0.0020		mg/L		12/16/24 08:26	12/18/24 13:52	1
Vanadium	**0.089**		0.0050		mg/L		12/16/24 08:26	12/18/24 13:52	1
Zinc	**0.31**		0.020		mg/L		12/16/24 08:26	12/18/24 13:52	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.21**		0.10		mg/L		12/16/24 08:26	12/18/24 14:04	1
Antimony	<0.0030		0.0030		mg/L		12/16/24 08:26	12/18/24 14:04	1
Arsenic	<0.0010		0.0010		mg/L		12/16/24 08:26	12/18/24 14:04	1
Barium	**0.048**		0.0025		mg/L		12/16/24 08:26	12/17/24 16:13	1
Beryllium	<0.0010		0.0010		mg/L		12/16/24 08:26	12/17/24 16:13	1
Cadmium	<0.00050		0.00050		mg/L		12/16/24 08:26	12/18/24 14:04	1
Calcium	**190**		0.20		mg/L		12/16/24 08:26	12/18/24 14:04	1
Chromium	**0.026**		0.0050		mg/L		12/16/24 08:26	12/18/24 14:04	1
Cobalt	<0.0010		0.0010		mg/L		12/16/24 08:26	12/18/24 14:04	1
Copper	<0.0020		0.0020		mg/L		12/16/24 08:26	12/17/24 16:13	1
Iron	**0.68**		0.10		mg/L		12/16/24 08:26	12/17/24 16:13	1
Lead	**0.00083**		0.00050		mg/L		12/16/24 08:26	12/18/24 14:04	1
Magnesium	**75**		0.20		mg/L		12/16/24 08:26	12/17/24 16:13	1
Manganese	**0.12**		0.0025		mg/L		12/16/24 08:26	12/17/24 16:13	1
Nickel	**0.0063**		0.0020		mg/L		12/16/24 08:26	12/17/24 16:13	1
Potassium	**11**		0.50		mg/L		12/16/24 08:26	12/18/24 14:04	1
Selenium	**0.0060**		0.0025		mg/L		12/16/24 08:26	12/18/24 14:04	1
Silver	<0.00050		0.00050		mg/L		12/16/24 08:26	12/18/24 14:04	1
Sodium	**11**		0.20		mg/L		12/16/24 08:26	12/17/24 16:13	1
Thallium	<0.0020		0.0020		mg/L		12/16/24 08:26	12/18/24 14:04	1
Vanadium	<0.0050		0.0050		mg/L		12/16/24 08:26	12/18/24 14:04	1
Zinc	<0.020		0.020		mg/L		12/16/24 08:26	12/18/24 14:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/24 12:00	12/30/24 09:18	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-312
Lab Sample ID: 500-261583-1
Date Collected: 12/12/24 11:11
Matrix: Water
Date Received: 12/13/24 11:17

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/24 12:00	12/30/24 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0050		0.0050		mg/L		12/17/24 13:51	12/17/24 16:09	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-313
Lab Sample ID: 500-261583-2
Date Collected: 12/12/24 12:40
Matrix: Water
Date Received: 12/13/24 11:17

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	31		0.025		mg/L		12/16/24 08:26	12/18/24 13:57	10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.62		0.0025		mg/L		12/16/24 08:26	12/17/24 16:16	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB49 (0-3)
Lab Sample ID: 500-261583-3
Date Collected: 12/12/24 10:01
Matrix: Solid
Date Received: 12/13/24 11:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive (SW846 9034)	<49		49		mg/Kg		12/31/24 09:50	12/31/24 15:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB45 (5-7.5)
Lab Sample ID: 500-261583-4
Date Collected: 12/12/24 10:37
Matrix: Solid
Date Received: 12/13/24 11:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive (SW846 9034)	<49		49		mg/Kg		12/31/24 09:50	12/31/24 15:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB6 (3-5)
Lab Sample ID: 500-261583-5
Date Collected: 12/12/24 13:51
Matrix: Solid
Date Received: 12/13/24 11:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive (SW846 9034)	<49		49		mg/Kg		12/31/24 09:50	12/31/24 15:47	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB117 (5-7.5)
Lab Sample ID: 500-261583-6
Date Collected: 12/12/24 14:42
Matrix: Solid
Date Received: 12/13/24 11:17

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive (SW846 9034)	<49		49		mg/Kg		12/31/24 09:50	12/31/24 15:47	1

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
^5+	Linear Range Check (LRC) is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 800251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Total/NA	Water	8260D	
MB 500-800251/7	Method Blank	Total/NA	Water	8260D	
LCS 500-800251/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 500-800251/4	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 799791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Dissolved	Water	3510C	
MB 500-799791/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-799791/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 799970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Total/NA	Water	3510C	
MB 500-799970/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-799970/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-799970/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 800213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Dissolved	Water	8270E	799791
MB 500-799791/1-A	Method Blank	Total/NA	Water	8270E	799791
LCS 500-799791/2-A	Lab Control Sample	Total/NA	Water	8270E	799791

Analysis Batch: 800589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Total/NA	Water	8270E	799970
MB 500-799970/1-A	Method Blank	Total/NA	Water	8270E	799970
LCS 500-799970/2-A	Lab Control Sample	Total/NA	Water	8270E	799970
LCSD 500-799970/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	799970

GC Semi VOA

Prep Batch: 799917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Total/NA	Water	3510C	
MB 500-799917/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-799917/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 500-799917/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-799917/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 500-799917/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 800086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Total/NA	Water	8082A	799917
MB 500-799917/1-A	Method Blank	Total/NA	Water	8082A	799917
LCS 500-799917/4-A	Lab Control Sample	Total/NA	Water	8082A	799917
LCSD 500-799917/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	799917

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

GC Semi VOA

Analysis Batch: 800216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Total/NA	Water	8081B	799917
MB 500-799917/1-A	Method Blank	Total/NA	Water	8081B	799917
LCS 500-799917/2-A	Lab Control Sample	Total/NA	Water	8081B	799917
LCSD 500-799917/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	799917

Metals

Prep Batch: 799509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Dissolved	Water	3005A	
500-261583-1	MW-312	Total Recoverable	Water	3005A	
500-261583-2	MW-313	Dissolved	Water	3005A	
500-261583-2	MW-313	Total Recoverable	Water	3005A	
MB 500-799509/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-799509/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 799882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Dissolved	Water	6020B	799509
500-261583-1	MW-312	Total Recoverable	Water	6020B	799509
500-261583-2	MW-313	Dissolved	Water	6020B	799509
MB 500-799509/1-A	Method Blank	Total Recoverable	Water	6020B	799509
LCS 500-799509/2-A	Lab Control Sample	Total Recoverable	Water	6020B	799509

Analysis Batch: 800085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Dissolved	Water	6020B	799509
500-261583-1	MW-312	Total Recoverable	Water	6020B	799509
500-261583-1	MW-312	Total Recoverable	Water	6020B	799509
500-261583-2	MW-313	Total Recoverable	Water	6020B	799509
MB 500-799509/1-A	Method Blank	Total Recoverable	Water	6020B	799509
LCS 500-799509/2-A	Lab Control Sample	Total Recoverable	Water	6020B	799509

Prep Batch: 800911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Dissolved	Water	7470A	
500-261583-1	MW-312	Total/NA	Water	7470A	
MB 500-800911/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-800911/14-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 500-800911/21-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Analysis Batch: 801116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Dissolved	Water	7470A	800911
500-261583-1	MW-312	Total/NA	Water	7470A	800911
MB 500-800911/12-A	Method Blank	Total/NA	Water	7470A	800911
LCS 500-800911/14-A	Lab Control Sample	Total/NA	Water	7470A	800911
LCSD 500-800911/21-A	Lab Control Sample Dup	Total/NA	Water	7470A	800911

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

General Chemistry

Prep Batch: 799792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Total/NA	Water	9010C	
MB 500-799792/1-A	Method Blank	Total/NA	Water	9010C	
LCS 500-799792/2-A	Lab Control Sample	Total/NA	Water	9010C	

Analysis Batch: 799838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-1	MW-312	Total/NA	Water	9012B	799792
MB 500-799792/1-A	Method Blank	Total/NA	Water	9012B	799792
LCS 500-799792/2-A	Lab Control Sample	Total/NA	Water	9012B	799792

Analysis Batch: 800776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-3	SB49 (0-3)	Total/NA	Solid	Moisture	
500-261583-4	SB45 (5-7.5)	Total/NA	Solid	Moisture	
500-261583-5	SB6 (3-5)	Total/NA	Solid	Moisture	
500-261583-6	SB117 (5-7.5)	Total/NA	Solid	Moisture	

Analysis Batch: 801423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-3	SB49 (0-3)	Total/NA	Solid	9034	801558
500-261583-4	SB45 (5-7.5)	Total/NA	Solid	9034	801558
500-261583-5	SB6 (3-5)	Total/NA	Solid	9034	801558
500-261583-6	SB117 (5-7.5)	Total/NA	Solid	9034	801558
MB 500-801558/1-A	Method Blank	Total/NA	Solid	9034	801558
LCS 500-801558/2-A	Lab Control Sample	Total/NA	Solid	9034	801558

Prep Batch: 801558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261583-3	SB49 (0-3)	Total/NA	Solid	7.3.4	
500-261583-4	SB45 (5-7.5)	Total/NA	Solid	7.3.4	
500-261583-5	SB6 (3-5)	Total/NA	Solid	7.3.4	
500-261583-6	SB117 (5-7.5)	Total/NA	Solid	7.3.4	
MB 500-801558/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 500-801558/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-261583-1	MW-312	98	103	99	104
LCS 500-800251/3	Lab Control Sample	96	100	100	104
LCSD 500-800251/4	Lab Control Sample Dup	96	101	99	102
MB 500-800251/7	Method Blank	96	105	99	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-110)	(40-145)
500-261583-1	MW-312	92	78	50	76	32	101
LCS 500-799791/2-A	Lab Control Sample		79		81		96
LCS 500-799970/2-A	Lab Control Sample	48	43	28	41	19 S1-	51
LCSD 500-799970/3-A	Lab Control Sample Dup	51	45	29	41	20	55
MB 500-799791/1-A	Method Blank		61		74		102
MB 500-799970/1-A	Method Blank	79	68	44	71	27	109

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(36-120)	(34-110)	(40-145)
500-261583-1	MW-312	75	63	98

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(30-130)	(30-120)
500-261583-1	MW-312	23 S1-	53

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(30-130)	(30-120)
LCS 500-799917/2-A	Lab Control Sample	54	46
LCSD 500-799917/3-A	Lab Control Sample Dup	59	58
MB 500-799917/1-A	Method Blank	57	53

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(30-120)	(30-140)
500-261583-1	MW-312	52	30
LCS 500-799917/4-A	Lab Control Sample	69	76
LCSD 500-799917/5-A	Lab Control Sample Dup	65	79
MB 500-799917/1-A	Method Blank	64	87

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261583-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-800251/7
Matrix: Water
Analysis Batch: 800251

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0010		0.0010		mg/L			12/20/24 11:03	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010		mg/L			12/20/24 11:03	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/L			12/20/24 11:03	1
1,1-Dichloroethane	<0.0010		0.0010		mg/L			12/20/24 11:03	1
1,1-Dichloroethene	<0.0010		0.0010		mg/L			12/20/24 11:03	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050		mg/L			12/20/24 11:03	1
1,2-Dibromoethane	<0.0010		0.0010		mg/L			12/20/24 11:03	1
1,2-Dichloroethane	<0.0010		0.0010		mg/L			12/20/24 11:03	1
1,2-Dichloropropane	<0.0010		0.0010		mg/L			12/20/24 11:03	1
p-Dioxane	<0.10		0.10		mg/L			12/20/24 11:03	1
2-Butanone (MEK)	<0.0050		0.0050		mg/L			12/20/24 11:03	1
2-Hexanone	<0.0050		0.0050		mg/L			12/20/24 11:03	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050		mg/L			12/20/24 11:03	1
Acetone	<0.010		0.010		mg/L			12/20/24 11:03	1
Benzene	<0.00050		0.00050		mg/L			12/20/24 11:03	1
Bromodichloromethane	<0.0010		0.0010		mg/L			12/20/24 11:03	1
Bromoform	<0.0010		0.0010		mg/L			12/20/24 11:03	1
Bromomethane	<0.0030		0.0030		mg/L			12/20/24 11:03	1
Carbon disulfide	<0.0020		0.0020		mg/L			12/20/24 11:03	1
Carbon tetrachloride	<0.0010		0.0010		mg/L			12/20/24 11:03	1
Chlorobenzene	<0.0010		0.0010		mg/L			12/20/24 11:03	1
Chloroethane	<0.0050		0.0050		mg/L			12/20/24 11:03	1
Chloroform	<0.0020		0.0020		mg/L			12/20/24 11:03	1
Chloromethane	<0.0050		0.0050		mg/L			12/20/24 11:03	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/20/24 11:03	1
1,3-Dichloropropene, Total	<0.0010		0.0010		mg/L			12/20/24 11:03	1
Dibromochloromethane	<0.0010		0.0010		mg/L			12/20/24 11:03	1
Dichlorodifluoromethane	<0.0030		0.0030		mg/L			12/20/24 11:03	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/20/24 11:03	1
Isopropylbenzene	<0.0010		0.0010		mg/L			12/20/24 11:03	1
m&p-Xylene	<0.0010		0.0010		mg/L			12/20/24 11:03	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/L			12/20/24 11:03	1
Methylene Chloride	<0.0050		0.0050		mg/L			12/20/24 11:03	1
Naphthalene	<0.0010		0.0010		mg/L			12/20/24 11:03	1
n-Butyl alcohol	<0.13		0.13		mg/L			12/20/24 11:03	1
o-Xylene	<0.00050		0.00050		mg/L			12/20/24 11:03	1
Styrene	<0.0010		0.0010		mg/L			12/20/24 11:03	1
Tetrachloroethene	<0.0010		0.0010		mg/L			12/20/24 11:03	1
Toluene	<0.00050		0.00050		mg/L			12/20/24 11:03	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/20/24 11:03	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/L			12/20/24 11:03	1
Trichloroethene	<0.00050		0.00050		mg/L			12/20/24 11:03	1
Trichlorofluoromethane	<0.0010		0.0010		mg/L			12/20/24 11:03	1
Vinyl acetate	<0.0020		0.0020		mg/L			12/20/24 11:03	1
Vinyl chloride	<0.0010		0.0010		mg/L			12/20/24 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*12/20/24 11:03*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-800251/7
Matrix: Water
Analysis Batch: 800251

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		72 - 124		12/20/24 11:03	1
Dibromofluoromethane	99		75 - 120		12/20/24 11:03	1
Toluene-d8 (Surr)	103		75 - 120		12/20/24 11:03	1

Lab Sample ID: LCS 500-800251/3
Matrix: Water
Analysis Batch: 800251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0551		mg/L		110	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0636		mg/L		127	62 - 140
1,1,2-Trichloroethane	0.0500	0.0588		mg/L		118	71 - 130
1,1-Dichloroethane	0.0500	0.0551		mg/L		110	70 - 125
1,1-Dichloroethene	0.0500	0.0504		mg/L		101	67 - 122
1,2-Dibromo-3-Chloropropane	0.0500	0.0522		mg/L		104	56 - 123
1,2-Dibromoethane	0.0500	0.0605		mg/L		121	70 - 125
1,2-Dichloroethane	0.0500	0.0534		mg/L		107	68 - 127
1,2-Dichloropropane	0.0500	0.0555		mg/L		111	67 - 130
p-Dioxane	1.00	1.05		mg/L		105	70 - 129
2-Butanone (MEK)	0.0500	0.0521		mg/L		104	46 - 144
2-Hexanone	0.0500	0.0542		mg/L		108	54 - 146
4-Methyl-2-pentanone (MIBK)	0.0500	0.0534		mg/L		107	55 - 139
Acetone	0.0500	0.0491		mg/L		98	40 - 143
Benzene	0.0500	0.0545		mg/L		109	70 - 120
Bromodichloromethane	0.0500	0.0534		mg/L		107	69 - 120
Bromoform	0.0500	0.0488		mg/L		98	56 - 132
Bromomethane	0.0500	0.0530		mg/L		106	40 - 152
Carbon disulfide	0.0500	0.0587		mg/L		117	66 - 120
Carbon tetrachloride	0.0500	0.0515		mg/L		103	59 - 133
Chlorobenzene	0.0500	0.0579		mg/L		116	70 - 120
Chloroethane	0.0500	0.0529		mg/L		106	48 - 136
Chloroform	0.0500	0.0502		mg/L		100	70 - 120
Chloromethane	0.0500	0.0518		mg/L		104	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0579		mg/L		116	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0592		mg/L		118	64 - 127
Dibromochloromethane	0.0500	0.0535		mg/L		107	68 - 125
Dichlorodifluoromethane	0.0500	0.0567		mg/L		113	40 - 159
Ethylbenzene	0.0500	0.0571		mg/L		114	70 - 123
Isopropylbenzene	0.0500	0.0499		mg/L		100	70 - 126
Methyl tert-butyl ether	0.0500	0.0536		mg/L		107	55 - 123
Methylene Chloride	0.0500	0.0498		mg/L		100	69 - 125
Naphthalene	0.0500	0.0429		mg/L		86	53 - 144
Styrene	0.0500	0.0511		mg/L		102	70 - 120
Tetrachloroethene	0.0500	0.0574		mg/L		115	70 - 128
Toluene	0.0500	0.0555		mg/L		111	70 - 125
Xylenes, Total	0.100	0.115		mg/L		115	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0583		mg/L		117	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0505		mg/L		101	62 - 128

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-800251/3
Matrix: Water
Analysis Batch: 800251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			0.0500	0.0533		mg/L		107	70 - 125		
Trichlorofluoromethane			0.0500	0.0473		mg/L		95	55 - 128		
Vinyl acetate			0.0500	0.0647		mg/L		129	43 - 133		
Vinyl chloride			0.0500	0.0563		mg/L		113	64 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*104*		*75 - 120*

Lab Sample ID: LCSD 500-800251/4
Matrix: Water
Analysis Batch: 800251

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0500	0.0541		mg/L		108	70 - 125	2	20
1,1,2,2-Tetrachloroethane			0.0500	0.0595		mg/L		119	62 - 140	7	20
1,1,2-Trichloroethane			0.0500	0.0555		mg/L		111	71 - 130	6	20
1,1-Dichloroethane			0.0500	0.0540		mg/L		108	70 - 125	2	20
1,1-Dichloroethene			0.0500	0.0500		mg/L		100	67 - 122	1	20
1,2-Dibromo-3-Chloropropane			0.0500	0.0516		mg/L		103	56 - 123	1	20
1,2-Dibromoethane			0.0500	0.0564		mg/L		113	70 - 125	7	20
1,2-Dichloroethane			0.0500	0.0507		mg/L		101	68 - 127	5	20
1,2-Dichloropropane			0.0500	0.0526		mg/L		105	67 - 130	5	20
p-Dioxane			1.00	1.01		mg/L		101	70 - 129	3	20
2-Butanone (MEK)			0.0500	0.0488		mg/L		98	46 - 144	7	20
2-Hexanone			0.0500	0.0501		mg/L		100	54 - 146	8	20
4-Methyl-2-pentanone (MIBK)			0.0500	0.0501		mg/L		100	55 - 139	6	20
Acetone			0.0500	0.0461		mg/L		92	40 - 143	6	20
Benzene			0.0500	0.0531		mg/L		106	70 - 120	2	20
Bromodichloromethane			0.0500	0.0512		mg/L		102	69 - 120	4	20
Bromoform			0.0500	0.0463		mg/L		93	56 - 132	5	20
Bromomethane			0.0500	0.0520		mg/L		104	40 - 152	2	20
Carbon disulfide			0.0500	0.0569		mg/L		114	66 - 120	3	20
Carbon tetrachloride			0.0500	0.0511		mg/L		102	59 - 133	1	20
Chlorobenzene			0.0500	0.0543		mg/L		109	70 - 120	7	20
Chloroethane			0.0500	0.0516		mg/L		103	48 - 136	2	20
Chloroform			0.0500	0.0486		mg/L		97	70 - 120	3	20
Chloromethane			0.0500	0.0513		mg/L		103	56 - 152	1	20
cis-1,2-Dichloroethene			0.0500	0.0552		mg/L		110	70 - 125	5	20
cis-1,3-Dichloropropene			0.0500	0.0550		mg/L		110	64 - 127	7	20
Dibromochloromethane			0.0500	0.0502		mg/L		100	68 - 125	6	20
Dichlorodifluoromethane			0.0500	0.0575		mg/L		115	40 - 159	1	20
Ethylbenzene			0.0500	0.0547		mg/L		109	70 - 123	4	20
Isopropylbenzene			0.0500	0.0485		mg/L		97	70 - 126	3	20
Methyl tert-butyl ether			0.0500	0.0516		mg/L		103	55 - 123	4	20
Methylene Chloride			0.0500	0.0487		mg/L		97	69 - 125	2	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-800251/4
Matrix: Water
Analysis Batch: 800251

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			0.0500	0.0398		mg/L		80	53 - 144	7	20
Styrene			0.0500	0.0475		mg/L		95	70 - 120	7	20
Tetrachloroethene			0.0500	0.0554		mg/L		111	70 - 128	4	20
Toluene			0.0500	0.0531		mg/L		106	70 - 125	4	20
Xylenes, Total			0.100	0.109		mg/L		109	70 - 125	6	20
trans-1,2-Dichloroethene			0.0500	0.0570		mg/L		114	70 - 125	2	20
trans-1,3-Dichloropropene			0.0500	0.0477		mg/L		95	62 - 128	6	20
Trichloroethene			0.0500	0.0520		mg/L		104	70 - 125	2	20
Trichlorofluoromethane			0.0500	0.0491		mg/L		98	55 - 128	4	20
Vinyl acetate			0.0500	0.0584		mg/L		117	43 - 133	10	20
Vinyl chloride			0.0500	0.0558		mg/L		112	64 - 126	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane	*99*		*75 - 120*
Toluene-d8 (Surr)	*102*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-799791/1-A
Matrix: Water
Analysis Batch: 800213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Acenaphthylene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Anthracene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/17/24 13:48	12/19/24 15:48	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 15:48	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 15:48	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 15:48	1
Chrysene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 15:48	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/17/24 13:48	12/19/24 15:48	1
Fluoranthene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Fluorene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/17/24 13:48	12/19/24 15:48	1
Naphthalene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Phenanthrene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1
Pyrene	<0.00080		0.00080		mg/L		12/17/24 13:48	12/19/24 15:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*34 - 110*	*12/17/24 13:48*	*12/19/24 15:48*	*1*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*	*12/17/24 13:48*	*12/19/24 15:48*	*1*
Terphenyl-d14 (Surr)	*102*		*40 - 145*	*12/17/24 13:48*	*12/19/24 15:48*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-799791/2-A
Matrix: Water
Analysis Batch: 800213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0335		mg/L		84	46 - 110
Acenaphthylene	0.0400	0.0333		mg/L		83	47 - 113
Anthracene	0.0400	0.0360		mg/L		90	67 - 118
Benzo[a]anthracene	0.0400	0.0381		mg/L		95	70 - 126
Benzo[a]pyrene	0.0400	0.0408		mg/L		102	70 - 135
Benzo[b]fluoranthene	0.0400	0.0402		mg/L		100	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0419		mg/L		105	70 - 135
Benzo[k]fluoranthene	0.0400	0.0390		mg/L		97	70 - 133
Chrysene	0.0400	0.0393		mg/L		98	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0428		mg/L		107	70 - 134
Fluoranthene	0.0400	0.0394		mg/L		98	68 - 126
Fluorene	0.0400	0.0352		mg/L		88	53 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.0422		mg/L		106	65 - 133
Naphthalene	0.0400	0.0333		mg/L		83	36 - 110
Phenanthrene	0.0400	0.0353		mg/L		88	65 - 120
Pyrene	0.0400	0.0367		mg/L		92	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*34 - 110*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*
Terphenyl-d14 (Surr)	*96*		*40 - 145*

Lab Sample ID: MB 500-799970/1-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Acenaphthylene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Anthracene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		12/18/24 13:54	12/23/24 19:55	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Chrysene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		12/18/24 13:54	12/23/24 19:55	1
Fluoranthene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Fluorene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Naphthalene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Phenanthrene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Pyrene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
2,4,5-Trichlorophenol	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261583-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-799970/1-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
2,4-Dichlorophenol	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
2,4-Dimethylphenol	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 19:55	1
2,4-Dinitrotoluene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
2,6-Dinitrotoluene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
2-Chlorophenol	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
2-Methylphenol	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
2-Nitroaniline	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
2-Nitrophenol	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
3,3'-Dichlorobenzidine	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
3 & 4 Methylphenol	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
3-Nitroaniline	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 19:55	1
4-Bromophenyl phenyl ether	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
4-Chloro-3-methylphenol	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
4-Chloroaniline	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
4-Nitroaniline	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
4-Nitrophenol	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Carbazole	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Dibenzofuran	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Diethyl phthalate	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Dimethyl phthalate	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Di-n-butyl phthalate	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Di-n-octyl phthalate	<0.0080		0.0080		mg/L		12/18/24 13:54	12/23/24 19:55	1
Hexachlorobenzene	<0.00040		0.00040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Hexachlorobutadiene	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Hexachloroethane	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1
Isophorone	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Nitrobenzene	<0.00080		0.00080		mg/L		12/18/24 13:54	12/23/24 19:55	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040		mg/L		12/18/24 13:54	12/23/24 19:55	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Pentachlorophenol	<0.016		0.016		mg/L		12/18/24 13:54	12/23/24 19:55	1
Phenol	<0.0040		0.0040		mg/L		12/18/24 13:54	12/23/24 19:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*40 - 145*	*12/18/24 13:54*	*12/23/24 19:55*	*1*
2-Fluorobiphenyl (Surr)	*68*		*34 - 110*	*12/18/24 13:54*	*12/23/24 19:55*	*1*
2-Fluorophenol (Surr)	*44*		*27 - 110*	*12/18/24 13:54*	*12/23/24 19:55*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-799970/1-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799970

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	71		36 - 120	12/18/24 13:54	12/23/24 19:55	1
Phenol-d5 (Surr)	27		20 - 110	12/18/24 13:54	12/23/24 19:55	1
Terphenyl-d14 (Surr)	109		40 - 145	12/18/24 13:54	12/23/24 19:55	1

Lab Sample ID: LCS 500-799970/2-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0334		mg/L		83	46 - 110
Acenaphthylene	0.0400	0.0352		mg/L		88	47 - 113
Anthracene	0.0400	0.0362		mg/L		91	67 - 118
Benzo[a]anthracene	0.0400	0.0336		mg/L		84	70 - 126
Benzo[a]pyrene	0.0400	0.0404		mg/L		101	70 - 135
Benzo[b]fluoranthene	0.0400	0.0364		mg/L		91	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0631	*+	mg/L		158	70 - 135
Benzo[k]fluoranthene	0.0400	0.0363		mg/L		91	70 - 133
Chrysene	0.0400	0.0360		mg/L		90	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0573	*+	mg/L		143	70 - 134
Fluoranthene	0.0400	0.0359		mg/L		90	68 - 126
Fluorene	0.0400	0.0354		mg/L		88	53 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.0591	*+	mg/L		148	65 - 133
Naphthalene	0.0400	0.0286		mg/L		71	36 - 110
Phenanthrene	0.0400	0.0356		mg/L		89	65 - 120
Pyrene	0.0400	0.0384		mg/L		96	70 - 126
1,2,4-Trichlorobenzene	0.0400	0.0275		mg/L		69	26 - 110
1,2-Dichlorobenzene	0.0400	0.0241		mg/L		60	26 - 110
1,3-Dichlorobenzene	0.0400	0.0235		mg/L		59	22 - 110
1,4-Dichlorobenzene	0.0400	0.0232		mg/L		58	23 - 110
2,4,5-Trichlorophenol	0.0400	0.0330		mg/L		82	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0353		mg/L		88	62 - 121
2,4-Dichlorophenol	0.0400	0.0344		mg/L		86	58 - 120
2,4-Dimethylphenol	0.0400	0.0351		mg/L		88	51 - 115
2,4-Dinitrophenol	0.0800	0.0519		mg/L		65	37 - 130
2,4-Dinitrotoluene	0.0400	0.0390		mg/L		98	63 - 129
2,6-Dinitrotoluene	0.0400	0.0406		mg/L		101	63 - 129
2-Chloronaphthalene	0.0400	0.0320		mg/L		80	39 - 110
2-Chlorophenol	0.0400	0.0305		mg/L		76	59 - 110
2-Methylnaphthalene	0.0400	0.0281		mg/L		70	34 - 110
2-Methylphenol	0.0400	0.0277		mg/L		69	53 - 115
2-Nitroaniline	0.0400	0.0305		mg/L		76	59 - 138
2-Nitrophenol	0.0400	0.0344		mg/L		86	59 - 115
3,3'-Dichlorobenzidine	0.0400	0.0399		mg/L		100	60 - 132
3 & 4 Methylphenol	0.0400	0.0252		mg/L		63	50 - 116
3-Nitroaniline	0.0400	0.0292		mg/L		73	47 - 123
4,6-Dinitro-2-methylphenol	0.0800	0.0680		mg/L		85	50 - 129
4-Bromophenyl phenyl ether	0.0400	0.0389		mg/L		97	58 - 120
4-Chloro-3-methylphenol	0.0400	0.0278		mg/L		69	64 - 128

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-799970/2-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	0.0400	0.0270		mg/L		68	35 - 128
4-Chlorophenyl phenyl ether	0.0400	0.0367		mg/L		92	48 - 116
4-Nitroaniline	0.0400	0.0269		mg/L		67	35 - 110
4-Nitrophenol	0.0800	0.0197		mg/L		25	20 - 110
Bis(2-chloroethoxy)methane	0.0400	0.0345		mg/L		86	59 - 118
Bis(2-chloroethyl)ether	0.0400	0.0313		mg/L		78	54 - 112
bis(chloroisopropyl) ether	0.0400	0.0263		mg/L		66	38 - 140
Bis(2-ethylhexyl) phthalate	0.0400	0.0380		mg/L		95	69 - 136
Butyl benzyl phthalate	0.0400	0.0396		mg/L		99	68 - 135
Carbazole	0.0400	0.0329		mg/L		82	61 - 145
Dibenzofuran	0.0400	0.0342		mg/L		86	51 - 110
Diethyl phthalate	0.0400	0.0377		mg/L		94	62 - 123
Dimethyl phthalate	0.0400	0.0380		mg/L		95	63 - 122
Di-n-butyl phthalate	0.0400	0.0380		mg/L		95	69 - 129
Di-n-octyl phthalate	0.0400	0.0334		mg/L		83	68 - 137
Hexachlorobenzene	0.0400	0.0397		mg/L		99	61 - 126
Hexachlorobutadiene	0.0400	0.0258		mg/L		65	20 - 100
Hexachlorocyclopentadiene	0.0400	0.0243		mg/L		61	10 - 105
Hexachloroethane	0.0400	0.0201		mg/L		50	20 - 100
Isophorone	0.0400	0.0341		mg/L		85	54 - 127
Nitrobenzene	0.0400	0.0304		mg/L		76	54 - 121
N-Nitrosodi-n-propylamine	0.0400	0.0303		mg/L		76	47 - 131
N-Nitrosodiphenylamine	0.0400	0.0350		mg/L		88	66 - 120
Pentachlorophenol	0.0800	0.0384		mg/L		48	42 - 148
Phenol	0.0400	0.0153		mg/L		38	33 - 100

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*48*		*40 - 145*
2-Fluorobiphenyl (Surr)	*43*		*34 - 110*
2-Fluorophenol (Surr)	*28*		*27 - 110*
Nitrobenzene-d5 (Surr)	*41*		*36 - 120*
Phenol-d5 (Surr)	*19*	*S1-*	*20 - 110*
Terphenyl-d14 (Surr)	*51*		*40 - 145*

Lab Sample ID: LCSD 500-799970/3-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.0400	0.0356		mg/L		89	46 - 110	6	20
Acenaphthylene	0.0400	0.0369		mg/L		92	47 - 113	5	20
Anthracene	0.0400	0.0366		mg/L		92	67 - 118	1	20
Benzo[a]anthracene	0.0400	0.0354		mg/L		89	70 - 126	5	20
Benzo[a]pyrene	0.0400	0.0409		mg/L		102	70 - 135	1	20
Benzo[b]fluoranthene	0.0400	0.0368		mg/L		92	69 - 136	1	20
Benzo[g,h,i]perylene	0.0400	0.0629	*+	mg/L		157	70 - 135	0	20
Benzo[k]fluoranthene	0.0400	0.0373		mg/L		93	70 - 133	3	20
Chrysene	0.0400	0.0378		mg/L		94	68 - 129	5	20

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261583-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-799970/3-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenz(a,h)anthracene	0.0400	0.0582	*+	mg/L		145	70 - 134	2	20
Fluoranthene	0.0400	0.0366		mg/L		92	68 - 126	2	20
Fluorene	0.0400	0.0370		mg/L		93	53 - 120	5	20
Indeno[1,2,3-cd]pyrene	0.0400	0.0596	*+	mg/L		149	65 - 133	1	20
Naphthalene	0.0400	0.0295		mg/L		74	36 - 110	3	20
Phenanthrene	0.0400	0.0365		mg/L		91	65 - 120	3	20
Pyrene	0.0400	0.0406		mg/L		101	70 - 126	5	20
1,2,4-Trichlorobenzene	0.0400	0.0281		mg/L		70	26 - 110	2	20
1,2-Dichlorobenzene	0.0400	0.0245		mg/L		61	26 - 110	1	20
1,3-Dichlorobenzene	0.0400	0.0238		mg/L		60	22 - 110	2	20
1,4-Dichlorobenzene	0.0400	0.0237		mg/L		59	23 - 110	2	20
2,4,5-Trichlorophenol	0.0400	0.0338		mg/L		84	63 - 124	3	20
2,4,6-Trichlorophenol	0.0400	0.0365		mg/L		91	62 - 121	3	20
2,4-Dichlorophenol	0.0400	0.0356		mg/L		89	58 - 120	3	20
2,4-Dimethylphenol	0.0400	0.0369		mg/L		92	51 - 115	5	20
2,4-Dinitrophenol	0.0800	0.0528		mg/L		66	37 - 130	2	20
2,4-Dinitrotoluene	0.0400	0.0409		mg/L		102	63 - 129	5	20
2,6-Dinitrotoluene	0.0400	0.0415		mg/L		104	63 - 129	2	20
2-Chloronaphthalene	0.0400	0.0336		mg/L		84	39 - 110	5	20
2-Chlorophenol	0.0400	0.0308		mg/L		77	59 - 110	1	20
2-Methylnaphthalene	0.0400	0.0285		mg/L		71	34 - 110	1	20
2-Methylphenol	0.0400	0.0287		mg/L		72	53 - 115	4	20
2-Nitroaniline	0.0400	0.0318		mg/L		79	59 - 138	4	20
2-Nitrophenol	0.0400	0.0353		mg/L		88	59 - 115	3	20
3,3'-Dichlorobenzidine	0.0400	0.0418		mg/L		104	60 - 132	5	20
3 & 4 Methylphenol	0.0400	0.0258		mg/L		64	50 - 116	2	20
3-Nitroaniline	0.0400	0.0312		mg/L		78	47 - 123	7	20
4,6-Dinitro-2-methylphenol	0.0800	0.0722		mg/L		90	50 - 129	6	20
4-Bromophenyl phenyl ether	0.0400	0.0400		mg/L		100	58 - 120	3	20
4-Chloro-3-methylphenol	0.0400	0.0286		mg/L		71	64 - 128	3	20
4-Chloroaniline	0.0400	0.0282		mg/L		71	35 - 128	4	20
4-Chlorophenyl phenyl ether	0.0400	0.0386		mg/L		97	48 - 116	5	20
4-Nitroaniline	0.0400	0.0281		mg/L		70	35 - 110	4	20
4-Nitrophenol	0.0800	0.0205		mg/L		26	20 - 110	4	20
Bis(2-chloroethoxy)methane	0.0400	0.0354		mg/L		88	59 - 118	3	20
Bis(2-chloroethyl)ether	0.0400	0.0321		mg/L		80	54 - 112	3	20
bis(chloroisopropyl) ether	0.0400	0.0275		mg/L		69	38 - 140	4	20
Bis(2-ethylhexyl) phthalate	0.0400	0.0399		mg/L		100	69 - 136	5	20
Butyl benzyl phthalate	0.0400	0.0406		mg/L		102	68 - 135	3	20
Carbazole	0.0400	0.0325		mg/L		81	61 - 145	1	20
Dibenzofuran	0.0400	0.0362		mg/L		90	51 - 110	6	20
Diethyl phthalate	0.0400	0.0390		mg/L		97	62 - 123	3	20
Dimethyl phthalate	0.0400	0.0398		mg/L		99	63 - 122	5	20
Di-n-butyl phthalate	0.0400	0.0391		mg/L		98	69 - 129	3	20
Di-n-octyl phthalate	0.0400	0.0332		mg/L		83	68 - 137	0	20
Hexachlorobenzene	0.0400	0.0410		mg/L		102	61 - 126	3	20
Hexachlorobutadiene	0.0400	0.0264		mg/L		66	20 - 100	2	20
Hexachlorocyclopentadiene	0.0400	0.0267		mg/L		67	10 - 105	9	20
Hexachloroethane	0.0400	0.0210		mg/L		53	20 - 100	5	20

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-799970/3-A
Matrix: Water
Analysis Batch: 800589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799970

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isophorone			0.0400	0.0354		mg/L		88	54 - 127	4	20
Nitrobenzene			0.0400	0.0314		mg/L		78	54 - 121	3	20
N-Nitrosodi-n-propylamine			0.0400	0.0311		mg/L		78	47 - 131	2	20
N-Nitrosodiphenylamine			0.0400	0.0358		mg/L		89	66 - 120	2	20
Pentachlorophenol			0.0800	0.0402		mg/L		50	42 - 148	5	20
Phenol			0.0400	0.0158		mg/L		39	33 - 100	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*51*		*40 - 145*
2-Fluorobiphenyl (Surr)	*45*		*34 - 110*
2-Fluorophenol (Surr)	*29*		*27 - 110*
Nitrobenzene-d5 (Surr)	*41*		*36 - 120*
Phenol-d5 (Surr)	*20*		*20 - 110*
Terphenyl-d14 (Surr)	*55*		*40 - 145*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-799917/1-A
Matrix: Water
Analysis Batch: 800216

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
4,4'-DDE	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
4,4'-DDT	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Aldrin	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
alpha-BHC	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
alpha-Chlordane	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
beta-BHC	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Chlordane (technical)	<0.00020		0.00020		mg/L		12/18/24 09:59	12/19/24 17:21	1
delta-BHC	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Dieldrin	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Endosulfan I	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Endosulfan II	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Endosulfan sulfate	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Endrin	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Endrin aldehyde	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Endrin ketone	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
gamma-BHC (Lindane)	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
gamma-Chlordane	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Heptachlor	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Heptachlor epoxide	<0.00010		0.00010		mg/L		12/18/24 09:59	12/19/24 17:21	1
Methoxychlor	<0.00020		0.00020		mg/L		12/18/24 09:59	12/19/24 17:21	1
Toxaphene	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 17:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*30 - 130*	*12/18/24 09:59*	*12/19/24 17:21*	*1*
Tetrachloro-m-xylene	*53*		*30 - 120*	*12/18/24 09:59*	*12/19/24 17:21*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-799917/2-A
Matrix: Water
Analysis Batch: 800216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799917

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4,4'-DDD			0.000320	0.000228		mg/L		71	69 - 124		
4,4'-DDE			0.000320	0.000235		mg/L		73	58 - 122		
4,4'-DDT			0.000320	0.000263		mg/L		82	62 - 127		
Aldrin			0.000320	0.000207		mg/L		65	34 - 120		
alpha-BHC			0.000320	0.000223		mg/L		70	65 - 120		
beta-BHC			0.000320	0.000225		mg/L		70	65 - 120		
delta-BHC			0.000320	0.000241		mg/L		75	70 - 122		
Dieldrin			0.000320	0.000246		mg/L		77	68 - 120		
Endosulfan I			0.000320	0.000214		mg/L		67	35 - 110		
Endosulfan II			0.000320	0.000224		mg/L		70	53 - 110		
Endosulfan sulfate			0.000320	0.000236		mg/L		74	70 - 133		
Endrin			0.000320	0.000277		mg/L		87	60 - 132		
Endrin aldehyde			0.000320	0.000240		mg/L		75	66 - 120		
Endrin ketone			0.000320	0.000229		mg/L		72	63 - 130		
gamma-BHC (Lindane)			0.000320	0.000240		mg/L		75	68 - 120		
Heptachlor			0.000320	0.000215		mg/L		67	40 - 120		
Heptachlor epoxide			0.000320	0.000243		mg/L		76	64 - 120		
Methoxychlor			0.000320	0.000266		mg/L		83	63 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*54*		*30 - 130*
Tetrachloro-m-xylene	*46*		*30 - 120*

Lab Sample ID: LCSD 500-799917/3-A
Matrix: Water
Analysis Batch: 800216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799917

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.000320	0.000251		mg/L		78	69 - 124	9	20
4,4'-DDE			0.000320	0.000259		mg/L		81	58 - 122	10	20
4,4'-DDT			0.000320	0.000285		mg/L		89	62 - 127	8	20
Aldrin			0.000320	0.000224		mg/L		70	34 - 120	8	20
alpha-BHC			0.000320	0.000247		mg/L		77	65 - 120	10	20
beta-BHC			0.000320	0.000251		mg/L		78	65 - 120	11	20
delta-BHC			0.000320	0.000270		mg/L		84	70 - 122	11	20
Dieldrin			0.000320	0.000272		mg/L		85	68 - 120	10	20
Endosulfan I			0.000320	0.000237		mg/L		74	35 - 110	10	20
Endosulfan II			0.000320	0.000248		mg/L		78	53 - 110	10	20
Endosulfan sulfate			0.000320	0.000260		mg/L		81	70 - 133	9	20
Endrin			0.000320	0.000307		mg/L		96	60 - 132	10	20
Endrin aldehyde			0.000320	0.000267		mg/L		83	66 - 120	11	20
Endrin ketone			0.000320	0.000251		mg/L		79	63 - 130	9	20
gamma-BHC (Lindane)			0.000320	0.000268		mg/L		84	68 - 120	11	20
Heptachlor			0.000320	0.000233		mg/L		73	40 - 120	8	20
Heptachlor epoxide			0.000320	0.000269		mg/L		84	64 - 120	10	20
Methoxychlor			0.000320	0.000289		mg/L		90	63 - 135	8	20

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 500-799917/3-A
Matrix: Water
Analysis Batch: 800216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799917

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*59*		*30 - 130*
Tetrachloro-m-xylene	*58*		*30 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-799917/1-A
Matrix: Water
Analysis Batch: 800086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
PCB-1221	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
PCB-1232	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
PCB-1242	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
PCB-1248	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
PCB-1254	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
PCB-1260	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1
Polychlorinated biphenyls, Total	<0.0010		0.0010		mg/L		12/18/24 09:59	12/19/24 10:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*30 - 120*	*12/18/24 09:59*	*12/19/24 10:12*	*1*
DCB Decachlorobiphenyl	*87*		*30 - 140*	*12/18/24 09:59*	*12/19/24 10:12*	*1*

Lab Sample ID: LCS 500-799917/4-A
Matrix: Water
Analysis Batch: 800086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799917

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.00400	0.00287		mg/L		72	56 - 120		
PCB-1260			0.00400	0.00304		mg/L		76	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*30 - 120*
DCB Decachlorobiphenyl	*76*		*30 - 140*

Lab Sample ID: LCSD 500-799917/5-A
Matrix: Water
Analysis Batch: 800086

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 799917

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.00400	0.00324		mg/L		81	56 - 120	12	20
PCB-1260			0.00400	0.00285		mg/L		71	53 - 137	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*65*		*30 - 120*
DCB Decachlorobiphenyl	*79*		*30 - 140*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-799509/1-A
Matrix: Water
Analysis Batch: 799882

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0025		0.0025		mg/L		12/16/24 08:26	12/17/24 15:45	1
Beryllium	<0.0010		0.0010		mg/L		12/16/24 08:26	12/17/24 15:45	1
Calcium	<0.20	^5+	0.20		mg/L		12/16/24 08:26	12/17/24 15:45	1
Copper	<0.0020		0.0020		mg/L		12/16/24 08:26	12/17/24 15:45	1
Iron	<0.10		0.10		mg/L		12/16/24 08:26	12/17/24 15:45	1
Magnesium	<0.20		0.20		mg/L		12/16/24 08:26	12/17/24 15:45	1
Manganese	<0.0025		0.0025		mg/L		12/16/24 08:26	12/17/24 15:45	1
Nickel	<0.0020		0.0020		mg/L		12/16/24 08:26	12/17/24 15:45	1
Potassium	<0.50		0.50		mg/L		12/16/24 08:26	12/17/24 15:45	1
Sodium	<0.20		0.20		mg/L		12/16/24 08:26	12/17/24 15:45	1

Lab Sample ID: MB 500-799509/1-A
Matrix: Water
Analysis Batch: 800085

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10		mg/L		12/16/24 08:26	12/18/24 13:34	1
Antimony	<0.0030		0.0030		mg/L		12/16/24 08:26	12/18/24 13:34	1
Arsenic	<0.0010		0.0010		mg/L		12/16/24 08:26	12/18/24 13:34	1
Cadmium	<0.00050		0.00050		mg/L		12/16/24 08:26	12/18/24 13:34	1
Chromium	<0.0050		0.0050		mg/L		12/16/24 08:26	12/18/24 13:34	1
Cobalt	<0.0010		0.0010		mg/L		12/16/24 08:26	12/18/24 13:34	1
Lead	<0.00050		0.00050		mg/L		12/16/24 08:26	12/18/24 13:34	1
Selenium	<0.0025		0.0025		mg/L		12/16/24 08:26	12/18/24 13:34	1
Silver	<0.00050		0.00050		mg/L		12/16/24 08:26	12/18/24 13:34	1
Thallium	<0.0020		0.0020		mg/L		12/16/24 08:26	12/18/24 13:34	1
Vanadium	<0.0050		0.0050		mg/L		12/16/24 08:26	12/18/24 13:34	1
Zinc	<0.020		0.020		mg/L		12/16/24 08:26	12/18/24 13:34	1

Lab Sample ID: LCS 500-799509/2-A
Matrix: Water
Analysis Batch: 799882

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.547		mg/L		109	80 - 120
Beryllium	0.0500	0.0545		mg/L		109	80 - 120
Calcium	10.0	9.40	^5+	mg/L		94	80 - 120
Copper	0.250	0.279		mg/L		111	80 - 120
Iron	1.00	1.12		mg/L		112	80 - 120
Magnesium	10.0	11.4		mg/L		114	80 - 120
Manganese	0.500	0.574		mg/L		115	80 - 120
Nickel	0.500	0.561		mg/L		112	80 - 120
Potassium	10.0	11.2		mg/L		112	80 - 120
Sodium	10.0	11.1		mg/L		111	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-799509/2-A
Matrix: Water
Analysis Batch: 800085

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2.00	1.96		mg/L		98	80 - 120
Antimony	0.500	0.516		mg/L		103	80 - 120
Arsenic	0.100	0.0961		mg/L		96	80 - 120
Cadmium	0.0500	0.0504		mg/L		101	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.500	0.537		mg/L		107	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Selenium	0.100	0.0978		mg/L		98	80 - 120
Silver	0.0500	0.0508		mg/L		102	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120
Vanadium	0.500	0.505		mg/L		101	80 - 120
Zinc	0.500	0.501		mg/L		100	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-800911/12-A
Matrix: Water
Analysis Batch: 801116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 800911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/24 12:00	12/30/24 08:29	1

Lab Sample ID: LCS 500-800911/14-A
Matrix: Water
Analysis Batch: 801116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 800911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00199		mg/L		100	80 - 120

Lab Sample ID: LCSD 500-800911/21-A
Matrix: Water
Analysis Batch: 801116

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 800911

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00200	0.00203		mg/L		102	80 - 120	2	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 500-799792/1-A
Matrix: Water
Analysis Batch: 799838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0050		0.0050		mg/L		12/17/24 13:51	12/17/24 15:10	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 500-799792/2-A
Matrix: Water
Analysis Batch: 799838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0935		mg/L		94	85 - 115

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 500-801558/1-A
Matrix: Solid
Analysis Batch: 801423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 801558

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	<50		50		mg/Kg		12/31/24 09:50	12/31/24 15:47	1

Lab Sample ID: LCS 500-801558/2-A
Matrix: Solid
Analysis Batch: 801423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 801558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	93.9	83.2		mg/Kg		89	70 - 130

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-261583-1

Client Sample ID: MW-312

Date Collected: 12/12/24 11:11
Date Received: 12/13/24 11:17

Lab Sample ID: 500-261583-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800251	W1T	EET CHI	12/20/24 15:03
Dissolved	Prep	3510C			799791	LG	EET CHI	12/17/24 13:48
Dissolved	Analysis	8270E		1	800213	H7CM	EET CHI	12/19/24 20:48
Total/NA	Prep	3510C			799970	LG	EET CHI	12/18/24 13:54
Total/NA	Analysis	8270E		1	800589	H7CM	EET CHI	12/23/24 22:04
Total/NA	Prep	3510C			799917	LG	EET CHI	12/18/24 09:59
Total/NA	Analysis	8081B		1	800216	H7CM	EET CHI	12/19/24 19:35
Total/NA	Prep	3510C			799917	LG	EET CHI	12/18/24 09:59
Total/NA	Analysis	8082A		1	800086	SB	EET CHI	12/19/24 13:29
Dissolved	Prep	3005A			799509	BDE	EET CHI	12/16/24 08:26 - 12/16/24 14:26 [1]
Dissolved	Analysis	6020B		1	799882	RN	EET CHI	12/17/24 16:13
Dissolved	Prep	3005A			799509	BDE	EET CHI	12/16/24 08:26 - 12/16/24 14:26 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 14:04
Total Recoverable	Prep	3005A			799509	BDE	EET CHI	12/16/24 08:26 - 12/16/24 14:26 [1]
Total Recoverable	Analysis	6020B		1	799882	RN	EET CHI	12/17/24 16:08
Total Recoverable	Prep	3005A			799509	BDE	EET CHI	12/16/24 08:26 - 12/16/24 14:26 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 13:52
Total Recoverable	Prep	3005A			799509	BDE	EET CHI	12/16/24 08:26 - 12/16/24 14:26 [1]
Total Recoverable	Analysis	6020B		5	800085	RN	EET CHI	12/18/24 13:54
Dissolved	Prep	7470A			800911	MJG	EET CHI	12/27/24 12:00 - 12/27/24 14:00 [1]
Dissolved	Analysis	7470A		1	801116	MJG	EET CHI	12/30/24 09:20
Total/NA	Prep	7470A			800911	MJG	EET CHI	12/27/24 12:00 - 12/27/24 14:00 [1]
Total/NA	Analysis	7470A		1	801116	MJG	EET CHI	12/30/24 09:18
Total/NA	Prep	9010C			799792	AC	EET CHI	12/17/24 13:51 - 12/17/24 14:21 [1]
Total/NA	Analysis	9012B		1	799838	AC	EET CHI	12/17/24 16:09

Client Sample ID: MW-313

Date Collected: 12/12/24 12:40
Date Received: 12/13/24 11:17

Lab Sample ID: 500-261583-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			799509	BDE	EET CHI	12/16/24 08:26 - 12/16/24 14:26 [1]
Dissolved	Analysis	6020B		1	799882	RN	EET CHI	12/17/24 16:16
Total Recoverable	Prep	3005A			799509	BDE	EET CHI	12/16/24 08:26 - 12/16/24 14:26 [1]
Total Recoverable	Analysis	6020B		10	800085	RN	EET CHI	12/18/24 13:57

Client Sample ID: SB49 (0-3)

Date Collected: 12/12/24 10:01
Date Received: 12/13/24 11:17

Lab Sample ID: 500-261583-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			801558	TR	EET CHI	12/31/24 09:50
Total/NA	Analysis	9034		1	801423	LP	EET CHI	12/31/24 15:47
Total/NA	Analysis	Moisture		1	800776	ER	EET CHI	12/26/24 14:52

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: SB45 (5-7.5)
Lab Sample ID: 500-261583-4
Date Collected: 12/12/24 10:37
Matrix: Solid
Date Received: 12/13/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			801558	TR	EET CHI	12/31/24 09:50
Total/NA	Analysis	9034		1	801423	LP	EET CHI	12/31/24 15:47
Total/NA	Analysis	Moisture		1	800776	ER	EET CHI	12/26/24 14:52

Client Sample ID: SB6 (3-5)
Lab Sample ID: 500-261583-5
Date Collected: 12/12/24 13:51
Matrix: Solid
Date Received: 12/13/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			801558	TR	EET CHI	12/31/24 09:50
Total/NA	Analysis	9034		1	801423	LP	EET CHI	12/31/24 15:47
Total/NA	Analysis	Moisture		1	800776	ER	EET CHI	12/26/24 14:52

Client Sample ID: SB117 (5-7.5)
Lab Sample ID: 500-261583-6
Date Collected: 12/12/24 14:42
Matrix: Solid
Date Received: 12/13/24 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			801558	TR	EET CHI	12/31/24 09:50
Total/NA	Analysis	9034		1	801423	LP	EET CHI	12/31/24 15:47
Total/NA	Analysis	Moisture		1	800776	ER	EET CHI	12/26/24 14:52

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-261583-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Water	Polychlorinated biphenyls, Total
8260D		Water	1,3-Dichloropropene, Total
9034	7.3.4	Solid	Sulfide, Reactive
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

MKE 232

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708 534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JMK	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-131397-51411 8
Client Contact: Jake Hartsock	Phone:	E-Mail: Jim Knapp@et.eurofinsus com	State of Origin:	Page: Page 8 of 24
Company: Pioneer Engineering & Environmental Srvc	PWSID:	Analysis Requested		Job #: 500-261583
Address: 2753 W 31st Street	Due Date Requested: 10 DAY			Preservation Codes
City: Chicago	TAT Requested (days): 7 DAY ON SUCHAR			
State, Zip: IL, 60608	Compliance Project: Δ Yes Δ No			
Phone	PO #: Purchase Order not required			
Email: jhartsock@pioneerees com	WO #:			
Project Name: 8080 District (24-0124-103)	Project #: 50023681			
Site:	SSOW#:			Other:

500-261583 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCL	FILTERED METALS	PNAS	MANGANESE FILTERED	MANGANESE REACTIVE SUCHAR	Total Number of containers	Special Instructions/Note:
		Preservation Code:											
1 MW-312	12/12/24	1111	G	Solid			X	X	X				
2 MW-313		1240		Solid						X	X		
3 SB49 (0-3)		1001		Solid							X		
4 SB45 (5-7.5)		1037		Solid							X		
5 SB46 (3-5)		151		Solid							X		
6 SB117 (5-7.5)		242		Solid							X		
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II, III IV Other (specify)

Special Instructions/QC Requirements: & REACTIVE SUCHAR ONLY A 7 DAY HOLD TIME

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	12/13/24			12/13/24 0950	ECTA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	12/13/24 1117	ECTA		12/13/24 1117	ECTA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		2.4-720

Ver 10/10/2024
1/3/2025 (Rev. 1)

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-261583-1

Login Number: 261583
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

March 12, 2025

Pioneer Environmental Services LLC
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S. Lake Shore Drive
ABB0970

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/14/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Notes and Definitions

Item	Definition
E	Estimated, detected above quantitation range
J	Analyte detected below quantitation limit (QL)
S	Spike Recovery outside accepted recovery limits
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Analysis Case Narrative

8082:
Samples ABB00970-03, -05, and -07: S=For Aroclor 1016, the Blank Spike percent recovery (41%) was outside laboratory control limits (50% - 114%).

8270:
Samples ABB00970-01 & -03 required analysis at dilution due to dark extracts and dirty samples. Surrogates were diluted out.
Sample ABB00970-05: S = Surrogate 4-Terphenyl-d14 had recovery (23%) outside the acceptance limits (30-152%).
Sample ABB00970-07: S = Surrogate 4-Terphenyl-d14 had no recovery.
SAmples ABB00970-01, -03, -05, -07: S = Batch LCS had no recovery of Dimethylphthalate.

8260:
Sample ABB0970-03: S= For Bromomethane, the MS percent recovery (37%) was outside laboratory control limits (41% - 181%).
The CCV recovered above the upper control limit for vinyl acetate. Corrective action: None, Vinyl acetate (was/were) not detected in the associated samples.

ABB0970-01,-03, -05, -07

Sample ABB0970-01, -03, -05, -07 : S=The Blank Spike exceeded the upper acceptance limit for the compound(s) listed below, resulting in a high bias. There were no detects in the samples.

1,4 Dioxane (207%, limits 36%-139%)
n-Butanol (159%, limits 70-130%)

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB0970-01	MW-202	Water	02/13/2025 10:36	02/14/2025
ABB0970-01	MW-202	Water	02/13/2025 10:36	02/14/2025
ABB0970-02	MW-202F	Water	02/13/2025 10:42	02/14/2025
ABB0970-03	MW-318	Water	02/13/2025 12:15	02/14/2025
ABB0970-03	MW-318	Water	02/13/2025 12:15	02/14/2025
ABB0970-04	MW-318F	Water	02/13/2025 12:37	02/14/2025
ABB0970-05	MW-317	Water	02/13/2025 13:46	02/14/2025
ABB0970-06	MW-317F	Water	02/13/2025 13:52	02/14/2025
ABB0970-07	MW-316	Water	02/13/2025 14:02	02/14/2025
ABB0970-08	MW-316F	Water	02/13/2025 14:13	02/14/2025

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results

Sample: MW-202

ABB0970-01 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
1-Methylnaphthalene	0.0590	0.000539	0.00104	mg/L	02/13/25 10:36	02/20/25	10	8270C	BB01421
Acenaphthene	0.0436	0.000798	0.00104	mg/L	02/13/25 10:36	02/20/25	10	8270C	BB01421
Acenaphthylene	0.00428	0.0000383	0.000104	mg/L	02/13/25 10:36	02/19/25	1	8270C	BB01421
Anthracene	0.00499	0.0000352	0.000104	mg/L	02/13/25 10:36	02/19/25	1	8270C	BB01421
Benzo(a)anthracene	0.00203	0.0000839	0.000104	mg/L	02/13/25 10:36	02/19/25	1	8270C	BB01421
Benzo(a)pyrene	0.00155	0.0000684	0.000104	mg/L	02/13/25 10:36	02/19/25	1	8270C	BB01421
Benzo(b)fluoranthene	0.00122	0.0000404	0.000104	mg/L	02/13/25 10:36	02/19/25	1	8270C	BB01421
Benzo(g,h,i)perylene	0.00105	0.0000477	0.000104	mg/L	02/13/25 10:36	02/19/25	1	8270C	BB01421
Benzo(k)fluoranthene	0.000575	0.0000497	0.000104	mg/L	02/13/25 10:36	02/19/25	1	8270C	BB01421
Chrysene	0.00184	0.0000373	0.000104	mg/L	02/13/25 10:36	02/19/25	1	8270C	BB01421
Dibenzo(a,h)anthracene	0.000204	0.0000487	0.000104	mg/L	02/13/25 10:36	02/19/25	1	8270C	BB01421
Fluoranthene	0.00810	0.0000363	0.000104	mg/L	02/13/25 10:36	02/19/25	1	8270C	BB01421
Fluorene	0.0295	0.000363	0.00104	mg/L	02/13/25 10:36	02/20/25	10	8270C	BB01421
Indeno(1,2,3-cd)pyrene	0.000931	0.0000373	0.000104	mg/L	02/13/25 10:36	02/19/25	1	8270C	BB01421
Naphthalene	0.861	0.00995	0.0207	mg/L	02/13/25 10:36	02/20/25	200	8270C	BB01421
Phenanthrene	0.0191	0.000870	0.00104	mg/L	02/13/25 10:36	02/20/25	10	8270C	BB01421
Pyrene	0.00768	0.0000891	0.000104	mg/L	02/13/25 10:36	02/19/25	1	8270C	BB01421
Surrogate: 2-Fluorobiphenyl		*82%*	*34-130*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5		*89%*	*39-144*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14		*78%*	*10-168*			*02/19/25*	*1*	*8270C*	
1,2,4-Trichlorobenzene	ND	0.00735	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
1,2-Dichlorobenzene	ND	0.0105	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
1,3-Dichlorobenzene	ND	0.00550	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
1,4-Dichlorobenzene	ND	0.00610	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
2,4,5-Trichlorophenol	ND	0.0140	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
2,4,6-Trichlorophenol	ND	0.0130	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
2,4-Dichlorophenol	ND	0.0135	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
2,4-Dimethylphenol	ND	0.0115	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
2,4-Dinitrophenol	ND	0.0260	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
2,4-Dinitrotoluene	ND	0.00330	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
2,6-Dinitrotoluene	ND	0.00280	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
2-Chloronaphthalene	ND	0.00250	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
2-Chlorophenol	ND	0.0145	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
2-Methylnaphthalene	0.00735 J	0.00320	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
2-Nitroaniline	ND	0.00660	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
2-Nitrophenol	ND	0.0145	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
3,3-Dichlorobenzidine	ND	0.00950	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
3-Nitroaniline	ND	0.00625	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
4,6-Dinitro-2-methylphenol	ND	0.0145	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
4-Bromophenyl phenyl ether	ND	0.00265	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
4-Chloro-3-methylphenol	ND	0.0135	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
4-Chloroaniline	ND	0.0155	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
4-Chlorophenyl phenyl ether	ND	0.00295	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
4-Nitroaniline	ND	0.00970	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
4-Nitrophenol	ND	0.0115	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-202 (Continued)
ABB0970-01 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Anthracene	0.00395	J	0.00345	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Bis(2-chloroethoxy)methane	ND		0.0100	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
bis(2-Chloroethyl)ether	ND		0.00900	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Bis(2-chloroisopropyl)ether	ND		0.00900	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Bis(2-ethylhexyl)phthalate	ND		0.0124	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Butyl benzyl phthalate	ND		0.0150	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Carbazole	0.0712		0.00410	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Chrysene	ND		0.00350	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Dibenzofuran	0.0157		0.00215	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Diethyl phthalate	ND		0.0110	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Dimethyl phthalate	ND	S,	0.0133	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Di-n-butyl phthalate	ND		0.00850	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Di-n-octyl phthalate	ND		0.0100	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Hexachlorobenzene	ND		0.00625	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Hexachlorobutadiene	ND		0.00675	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Hexachlorocyclopentadiene	ND		0.0105	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Hexachloroethane	ND		0.00610	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Isophorone	ND		0.00280	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
m,p-Cresol	0.00250	J	0.00250	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Nitrobenzene	ND		0.00665	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
N-Nitroso-di-n-propylamine	ND		0.00605	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
N-Nitrosodiphenylamine	ND		0.00480	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
O-Cresol	0.00645	J	0.00305	0.0100	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Pentachlorophenol	ND		0.0240	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Phenol	ND		0.00750	0.0500	mg/L	02/13/25 10:36	02/20/25	5	8270C	BB01312
Surrogate: 2,4,6-Tribromophenol	*71%*		*19-126*				*02/20/25*	*5*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*0%*	S,	*35-129*				*02/20/25*	*5*	*8270C*	
Surrogate: 2-Fluorophenol	*0%*	S,	*10-113*				*02/20/25*	*5*	*8270C*	
Surrogate: 4-Terphenyl-d14	*0%*	S,	*30-152*				*02/20/25*	*5*	*8270C*	
Surrogate: Nitrobenzene-d5	*0%*	S,	*27-150*				*02/20/25*	*5*	*8270C*	
Surrogate: Phenol-d5	*0%*	S,	*10-105*				*02/20/25*	*5*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
1,4-Dioxane	ND	S,	0.100	0.100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
n-Butanol	ND	S,	0.100	0.100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
1,1,1-Trichloroethane	ND		0.000159	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
1,1,2,2-Tetrachloroethane	ND		0.000355	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
1,1,2-Trichloroethane	ND		0.000224	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
1,1-Dichloroethane	ND		0.000527	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
1,1-Dichloroethene	ND		0.000311	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
1,2-Dibromo-3-chloropropane	ND		0.000417	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
1,2-Dibromoethane	ND		0.000229	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
1,2-Dichloroethane	ND		0.000185	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-202 (Continued)
ABB0970-01 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)										
1,2-Dichloropropane	ND		0.000210	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
2-Butanone	ND		0.00361	0.0100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
2-Hexanone	ND		0.00493	0.0250	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
4-Methyl-2-pentanone	ND		0.00213	0.0250	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Acetone	ND		0.00668	0.0250	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Benzene	0.0555		0.0000850	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Bromodichloromethane	ND		0.000320	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Bromoform	ND		0.000746	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Bromomethane	ND		0.000862	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Carbon disulfide	ND		0.000674	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Carbon tetrachloride	ND		0.000393	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Chlorobenzene	ND		0.000146	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Chloroethane	ND		0.000950	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Chloroform	ND		0.000161	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Chloromethane	ND		0.000428	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
cis-1,2-Dichloroethene	ND		0.000241	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
cis-1,3-dichloropropene	ND		0.000343	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Dibromochloromethane	ND		0.000237	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Dichlorodifluoromethane	ND		0.000495	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Ethylbenzene	0.00658		0.000160	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Isopropylbenzene	0.00174		0.000402	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
m,p-Xylene	0.0109		0.000513	0.00200	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Methyl tert-butyl ether	ND		0.000434	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Methylene chloride	ND		0.000620	0.00500	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
o-Xylene	0.0171		0.000227	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Styrene	ND		0.000310	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Tetrachloroethene	ND		0.000849	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Toluene	0.00194		0.000220	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
trans-1,2-Dichloroethene	ND		0.000183	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
trans-1,3-dichloropropene	ND		0.000582	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Trichloroethene	ND		0.000246	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Trichlorofluoromethane	ND		0.000280	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Vinyl acetate	ND	S,	0.00293	0.0250	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Vinyl chloride	ND		0.000346	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	BB01712
Surrogate: 4-Bromofluorobenzene	*104%*			*76-119*			*02/14/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane	*102%*			*66-137*			*02/14/25*	*1*	*8260B*	
Surrogate: Toluene-d8	*100%*			*80-120*			*02/14/25*	*1*	*8260B*	
Total 1,3-Dichloropropene	ND		0.000343	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	[CALC]
Total Xylenes	0.0280		0.000227	0.00100	mg/L	02/13/25 10:36	02/14/25	1	8260B	[CALC]

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results

(Continued)

Sample: MW-202F

ABB0970-02 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
Acenaphthene	0.0195		0.000819	0.00106	mg/L	02/13/25 10:42	02/20/25	10	8270C	BB01421
Acenaphthylene	0.00168		0.0000394	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Anthracene	0.0000524	J	0.0000362	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Benzo(a)anthracene	ND		0.0000862	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Benzo(a)pyrene	ND		0.0000702	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Benzo(b)fluoranthene	ND		0.0000415	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Benzo(g,h,i)perylene	ND		0.0000489	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Benzo(k)fluoranthene	ND		0.0000511	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Chrysene	ND		0.0000383	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Dibenzo(a,h)anthracene	ND		0.0000500	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Fluoranthene	ND		0.0000372	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Fluorene	0.00620		0.0000372	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Indeno(1,2,3-cd)pyrene	ND		0.0000383	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Naphthalene	0.733		0.0102	0.0213	mg/L	02/13/25 10:42	02/20/25	200	8270C	BB01421
Phenanthrene	ND		0.0000894	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Pyrene	ND		0.0000915	0.000106	mg/L	02/13/25 10:42	02/19/25	1	8270C	BB01421
Surrogate: 2-Fluorobiphenyl			*84%*	*34-130*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5			*94%*	*39-144*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14			*91%*	*10-168*			*02/19/25*	*1*	*8270C*	

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-318

ABB0970-03 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
Acenaphthene	0.00563	0.0000846	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Acenaphthylene	0.000516	0.0000407	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Anthracene	0.00177	0.0000374	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Benzo(a)anthracene	0.00295	0.0000890	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Benzo(a)pyrene	0.00273	0.0000725	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Benzo(b)fluoranthene	0.00223	0.0000429	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Benzo(g,h,i)perylene	0.00207	0.0000505	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Benzo(k)fluoranthene	0.000984	0.0000527	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Chrysene	0.00235	0.0000396	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Dibenzo(a,h)anthracene	0.000449	0.0000516	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Fluoranthene	0.00829	0.0000385	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Fluorene	0.00125	0.0000385	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Indeno(1,2,3-cd)pyrene	0.00195	0.0000396	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Naphthalene	0.123	0.00264	0.00549	mg/L	02/13/25 12:15	02/20/25	50	8270C	BB01421
Phenanthrene	0.000935	0.0000923	0.000110	mg/L	02/13/25 12:15	02/19/25	1	8270C	BB01421
Pyrene	0.0134	0.00473	0.00549	mg/L	02/13/25 12:15	02/20/25	50	8270C	BB01421
Surrogate: 2-Fluorobiphenyl		*84%*	*34-130*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5		*89%*	*39-144*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14		*72%*	*10-168*			*02/19/25*	*1*	*8270C*	
1,2,4-Trichlorobenzene	ND	0.0147	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
1,2-Dichlorobenzene	ND	0.0210	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
1,3-Dichlorobenzene	ND	0.0110	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
1,4-Dichlorobenzene	ND	0.0122	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
2,4,5-Trichlorophenol	ND	0.0280	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
2,4,6-Trichlorophenol	ND	0.0260	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
2,4-Dichlorophenol	ND	0.0270	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
2,4-Dimethylphenol	ND	0.0230	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
2,4-Dinitrophenol	ND	0.0520	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
2,4-Dinitrotoluene	ND	0.00660	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
2,6-Dinitrotoluene	ND	0.00560	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
2-Chloronaphthalene	ND	0.00500	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
2-Chlorophenol	ND	0.0290	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
2-Methylnaphthalene	ND	0.00640	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
2-Nitroaniline	ND	0.0132	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
2-Nitrophenol	ND	0.0290	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
3,3-Dichlorobenzidine	ND	0.0190	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
3-Nitroaniline	ND	0.0125	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
4,6-Dinitro-2-methylphenol	ND	0.0290	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
4-Bromophenyl phenyl ether	ND	0.00530	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
4-Chloro-3-methylphenol	ND	0.0270	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
4-Chloroaniline	ND	0.0310	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
4-Chlorophenyl phenyl ether	ND	0.00590	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
4-Nitroaniline	ND	0.0194	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
4-Nitrophenol	ND	0.0230	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Anthracene	0.00890 J	0.00690	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-318 (Continued)
ABB0970-03 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Bis(2-chloroethoxy)methane	ND		0.0200	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
bis(2-Chloroethyl)ether	ND		0.0180	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Bis(2-chloroisopropyl)ether	ND		0.0180	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Bis(2-ethylhexyl)phthalate	ND		0.0248	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Butyl benzyl phthalate	ND		0.0300	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Carbazole	ND		0.00820	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Chrysene	0.0170	J	0.00700	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Dibenzofuran	ND		0.00430	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Diethyl phthalate	ND		0.0219	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Dimethyl phthalate	ND	S,	0.0266	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Di-n-butyl phthalate	ND		0.0170	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Di-n-octyl phthalate	ND		0.0200	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Hexachlorobenzene	ND		0.0125	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Hexachlorobutadiene	ND		0.0135	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Hexachlorocyclopentadiene	ND		0.0210	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Hexachloroethane	ND		0.0122	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Isophorone	ND		0.00560	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
m,p-Cresol	0.00730	J	0.00500	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Nitrobenzene	ND		0.0133	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
N-Nitroso-di-n-propylamine	ND		0.0121	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
N-Nitrosodiphenylamine	ND		0.00960	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
O-Cresol	ND		0.00610	0.0200	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Pentachlorophenol	ND		0.0480	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Phenol	ND		0.0150	0.100	mg/L	02/13/25 12:15	02/20/25	10	8270C	BB01312
Surrogate: 2,4,6-Tribromophenol	*0%*	S,	*19-126*				*02/20/25*	*10*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*0%*	S,	*35-129*				*02/20/25*	*10*	*8270C*	
Surrogate: 2-Fluorophenol	*0%*	S,	*10-113*				*02/20/25*	*10*	*8270C*	
Surrogate: 4-Terphenyl-d14	*0%*	S,	*30-152*				*02/20/25*	*10*	*8270C*	
Surrogate: Nitrobenzene-d5	*0%*	S,	*27-150*				*02/20/25*	*10*	*8270C*	
Surrogate: Phenol-d5	*0%*	S,	*10-105*				*02/20/25*	*10*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND		0.0000150	0.0000500	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
4,4´-DDE	ND		0.0000100	0.0000500	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
4,4´-DDT	ND		0.0000150	0.0000500	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Aldrin	ND		0.00000900	0.0000250	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
alpha-BHC	ND		0.00000600	0.0000250	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
alpha-Chlordane	ND		0.00000500	0.0000250	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Endrin aldehyde	ND		0.0000150	0.0000500	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
beta-BHC	0.0000146	J	0.00000700	0.0000250	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Chlordane, Technical	ND		0.000100	0.000100	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
delta-BHC	ND		0.00000700	0.0000250	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Dieldrin	ND		0.0000130	0.0000500	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-318 (Continued)
ABB0970-03 (Water)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Endosulfan I	ND		0.00000600	0.0000250	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Endosulfan II	ND		0.0000150	0.0000500	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Endosulfan sulfate	ND		0.0000150	0.0000500	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Endrin	ND		0.0000150	0.0000500	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Endrin ketone	ND		0.0000140	0.0000500	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
gamma-BHC	0.0000300		0.00000600	0.0000250	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
gamma-Chlordane	ND		0.0000100	0.0000250	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Heptachlor	ND		0.00000500	0.0000250	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Heptachlor epoxide	ND		0.00000700	0.0000250	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Methoxychlor	ND		0.0000950	0.000250	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Toxaphene	ND		0.000110	0.000200	mg/L	02/13/25 12:15	02/21/25	1	8081	BB01267
Surrogate: Decachlorobiphenyl			*39%*	*20-120*			*02/21/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene			*39%*	*20-134*			*02/21/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND	S,	0.0000370	0.000100	mg/L	02/13/25 12:15	02/21/25	1	8082	BB01267
Aroclor 1221	ND		0.0000180	0.000100	mg/L	02/13/25 12:15	02/21/25	1	8082	BB01267
Aroclor 1232	ND		0.0000240	0.000100	mg/L	02/13/25 12:15	02/21/25	1	8082	BB01267
Aroclor 1242	ND		0.0000240	0.000100	mg/L	02/13/25 12:15	02/21/25	1	8082	BB01267
Aroclor 1248	ND		0.0000290	0.000100	mg/L	02/13/25 12:15	02/21/25	1	8082	BB01267
Aroclor 1254	ND		0.0000170	0.000100	mg/L	02/13/25 12:15	02/21/25	1	8082	BB01267
Aroclor 1260	ND		0.0000250	0.000100	mg/L	02/13/25 12:15	02/21/25	1	8082	BB01267
Surrogate: Decachlorobiphenyl			*36%*	*20-116*			*02/21/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene			*43%*	*20-136*			*02/21/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	0.000428	J	0.0000860	0.000500	mg/L	02/13/25 12:15	02/19/25	1	7470A	BB01315

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	0.043		0.0020	0.0050	mg/L	02/13/25 12:15	02/19/25	1	4500-CN C-E	BB01412

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Volatile Organics

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,4-Dioxane	ND	S,	0.100	0.100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
n-Butanol	ND	S,	0.100	0.100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
1,1,1-Trichloroethane	ND		0.000159	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-318 (Continued)
ABB0970-03 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)										
1,1,2,2-Tetrachloroethane	ND		0.000355	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
1,1,2-Trichloroethane	ND		0.000224	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
1,1-Dichloroethane	ND		0.000527	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
1,1-Dichloroethene	ND		0.000311	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
1,2-Dibromo-3-chloropropane	ND		0.000417	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
1,2-Dibromoethane	ND		0.000229	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
1,2-Dichloroethane	ND		0.000185	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
1,2-Dichloropropane	ND		0.000210	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
2-Butanone	ND		0.00361	0.0100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
2-Hexanone	ND		0.00493	0.0250	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
4-Methyl-2-pentanone	ND		0.00213	0.0250	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Acetone	0.0107	J	0.00668	0.0250	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Benzene	0.00349		0.0000850	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Bromodichloromethane	ND		0.000320	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Bromoform	ND		0.000746	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Bromomethane	ND	S,	0.000862	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Carbon disulfide	ND		0.000674	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Carbon tetrachloride	ND		0.000393	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Chlorobenzene	ND		0.000146	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Chloroethane	ND		0.000950	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Chloroform	ND		0.000161	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Chloromethane	ND		0.000428	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
cis-1,2-Dichloroethene	ND		0.000241	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
cis-1,3-dichloropropene	ND		0.000343	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Dibromochloromethane	ND		0.000237	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Dichlorodifluoromethane	ND		0.000495	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Ethylbenzene	0.000915	J	0.000160	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Isopropylbenzene	0.000422	J	0.000402	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
m,p-Xylene	0.00864		0.000513	0.00200	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Methyl tert-butyl ether	ND		0.000434	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Methylene chloride	ND		0.000620	0.00500	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
o-Xylene	0.00315		0.000227	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Styrene	0.00202		0.000310	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Tetrachloroethene	ND		0.000849	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Toluene	0.00683		0.000220	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
trans-1,2-Dichloroethene	ND		0.000183	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
trans-1,3-dichloropropene	ND		0.000582	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Trichloroethene	ND		0.000246	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Trichlorofluoromethane	ND		0.000280	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Vinyl acetate	ND	S,	0.00293	0.0250	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Vinyl chloride	ND		0.000346	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	BB01712
Surrogate: 4-Bromofluorobenzene		*104%*		*76-119*			*02/14/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane		*102%*		*66-137*			*02/14/25*	*1*	*8260B*	
Surrogate: Toluene-d8		*100%*		*80-120*			*02/14/25*	*1*	*8260B*	
Total 1,3-Dichloropropene	ND		0.000343	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	[CALC]

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-318 (Continued)
ABB0970-03 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)									
Total Xylenes	0.0118	0.000227	0.00100	mg/L	02/13/25 12:15	02/14/25	1	8260B	[CALC]

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP									
Aluminum	49.6	0.850	10.0	mg/L	02/13/25 12:15	02/24/25	50	6010B	BB01405
Antimony	ND	0.00480	0.0350	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Arsenic	0.0281	0.00560	0.0250	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Barium	0.641	0.00270	0.250	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Beryllium	0.00725	0.000390	0.00500	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Cadmium	0.000645 J	0.000590	0.0100	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Calcium	414	1.42	20.0	mg/L	02/13/25 12:15	02/20/25	20	6010B	BB01405
Chromium	0.0758	0.00300	0.0250	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Cobalt	0.0179 J	0.000570	0.0500	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Copper	0.101	0.00530	0.0500	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Iron	77.8	0.260	1.25	mg/L	02/13/25 12:15	02/20/25	5	6010B	BB01405
Lead	0.181	0.00130	0.0250	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Magnesium	75.5	0.120	5.00	mg/L	02/13/25 12:15	02/20/25	5	6010B	BB01405
Manganese	7.39	0.0395	0.125	mg/L	02/13/25 12:15	02/20/25	5	6010B	BB01405
Nickel	0.0716	0.00390	0.0250	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Potassium	19.2	0.210	1.00	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Selenium	0.0155 J	0.00570	0.0250	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Silver	ND	0.00210	0.0100	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Sodium	19.8	0.243	1.00	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Thallium	0.0182 J	0.00340	0.100	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Vanadium	0.0910	0.00120	0.0500	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405
Zinc	0.420	0.0120	0.100	mg/L	02/13/25 12:15	02/19/25	1	6010B	BB01405

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-318F
ABB0970-04 (Water)

SVOC

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Acenaphthene	0.00120		0.0000842	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Acenaphthylene	0.0000635	J	0.0000404	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Anthracene	0.0000458	J	0.0000372	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Benzo(a)anthracene	ND		0.0000885	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Benzo(a)pyrene	ND		0.0000721	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Benzo(b)fluoranthene	ND		0.0000426	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Benzo(g,h,i)perylene	ND		0.0000503	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Benzo(k)fluoranthene	ND		0.0000525	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Chrysene	ND		0.0000393	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Dibenzo(a,h)anthracene	ND		0.0000514	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Fluoranthene	ND		0.0000383	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Fluorene	0.0000736	J	0.0000383	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Indeno(1,2,3-cd)pyrene	ND		0.0000393	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Naphthalene	0.127		0.00262	0.00546	mg/L	02/13/25 12:37	02/20/25	50	8270C	BB01421
Phenanthrene	ND		0.0000918	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Pyrene	ND		0.0000940	0.000109	mg/L	02/13/25 12:37	02/19/25	1	8270C	BB01421
Surrogate: 2-Fluorobiphenyl			*82%*	*34-130*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5			*83%*	*39-144*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14			*70%*	*10-168*			*02/19/25*	*1*	*8270C*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0000860	0.000500	mg/L	02/13/25 12:37	02/19/25	1	7470A	BB01315

Metals - ICP

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aluminum	0.523		0.0170	0.200	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Antimony	0.00535	J	0.00480	0.0350	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Arsenic	0.00681	J	0.00560	0.0250	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Barium	0.0230	J	0.00270	0.250	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Beryllium	ND		0.000390	0.00500	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Cadmium	ND		0.000590	0.0100	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Calcium	56.0		0.355	5.00	mg/L	02/13/25 12:37	02/20/25	5	6010B	BB01405
Chromium	ND		0.00300	0.0250	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Cobalt	ND		0.000570	0.0500	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Copper	ND		0.00530	0.0500	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Iron	0.295		0.0520	0.250	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Lead	ND		0.00130	0.0250	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Magnesium	0.112	J	0.0240	1.00	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Manganese	ND		0.00790	0.0250	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Nickel	0.00497	J	0.00390	0.0250	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Potassium	12.3		0.210	1.00	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-318F (Continued)
ABB0970-04 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP (Continued)										
Selenium	0.00773	J	0.00570	0.0250	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Silver	ND		0.00210	0.0100	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Sodium	15.8		0.243	1.00	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Thallium	0.00492	J	0.00340	0.100	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Vanadium	0.0133	J	0.00120	0.0500	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405
Zinc	ND		0.0120	0.100	mg/L	02/13/25 12:37	02/19/25	1	6010B	BB01405

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-317

ABB0970-05 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
Acenaphthene	0.000502	0.0000794	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Acenaphthylene	0.000211	0.0000381	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Anthracene	0.000607	0.0000351	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Benzo(a)anthracene	0.000300	0.0000835	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Benzo(a)pyrene	0.000186	0.0000680	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Benzo(b)fluoranthene	0.000224	0.0000402	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Benzo(g,h,i)perylene	0.000112	0.0000474	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Benzo(k)fluoranthene	0.0000895 J	0.0000495	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Chrysene	0.000244	0.0000371	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Dibenzo(a,h)anthracene	ND	0.0000485	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Fluoranthene	0.00130	0.0000361	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Fluorene	0.00131	0.0000361	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Indeno(1,2,3-cd)pyrene	0.000119	0.0000371	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Naphthalene	0.000133	0.0000495	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Phenanthrene	0.00269	0.0000866	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Pyrene	0.000835	0.0000887	0.000103	mg/L	02/13/25 13:46	02/19/25	1	8270C	BB01421
Surrogate: 2-Fluorobiphenyl		*85%*	*34-130*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5		*88%*	*39-144*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14		*95%*	*10-168*			*02/19/25*	*1*	*8270C*	
1,2,4-Trichlorobenzene	ND	0.00147	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
1,2-Dichlorobenzene	ND	0.00210	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
1,3-Dichlorobenzene	ND	0.00110	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
1,4-Dichlorobenzene	ND	0.00122	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
2,4,5-Trichlorophenol	ND	0.00280	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
2,4,6-Trichlorophenol	ND	0.00260	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
2,4-Dichlorophenol	ND	0.00270	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
2,4-Dimethylphenol	ND	0.00230	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
2,4-Dinitrophenol	ND	0.00520	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
2,4-Dinitrotoluene	ND	0.000660	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
2,6-Dinitrotoluene	ND	0.000560	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
2-Chloronaphthalene	ND	0.000500	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
2-Chlorophenol	ND	0.00290	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
2-Methylnaphthalene	0.000840 J	0.000640	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
2-Nitroaniline	ND	0.00132	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
2-Nitrophenol	ND	0.00290	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
3,3-Dichlorobenzidine	ND	0.00190	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
3-Nitroaniline	ND	0.00125	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
4,6-Dinitro-2-methylphenol	ND	0.00290	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
4-Bromophenyl phenyl ether	ND	0.000530	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
4-Chloro-3-methylphenol	ND	0.00270	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
4-Chloroaniline	ND	0.00310	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
4-Chlorophenyl phenyl ether	ND	0.000590	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
4-Nitroaniline	ND	0.00194	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
4-Nitrophenol	ND	0.00230	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Anthracene	0.00217	0.000690	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-317 (Continued)
ABB0970-05 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Bis(2-chloroethoxy)methane	ND		0.00200	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
bis(2-Chloroethyl)ether	ND		0.00180	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Bis(2-chloroisopropyl)ether	ND		0.00180	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Bis(2-ethylhexyl)phthalate	ND		0.00248	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Butyl benzyl phthalate	ND		0.00300	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Carbazole	ND		0.000820	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Chrysene	0.00273		0.000700	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Dibenzofuran	0.000720	J	0.000430	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Diethyl phthalate	ND		0.00219	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Dimethyl phthalate	ND	S,	0.00266	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Di-n-butyl phthalate	ND		0.00170	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Di-n-octyl phthalate	ND		0.00200	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Hexachlorobenzene	ND		0.00125	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Hexachlorobutadiene	ND		0.00135	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Hexachlorocyclopentadiene	ND		0.00210	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Hexachloroethane	ND		0.00122	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Isophorone	ND		0.000560	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
m,p-Cresol	ND		0.000500	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Nitrobenzene	ND		0.00133	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
N-Nitroso-di-n-propylamine	ND		0.00121	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
N-Nitrosodiphenylamine	ND		0.000960	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
O-Cresol	ND		0.000610	0.00200	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Pentachlorophenol	ND		0.00480	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Phenol	ND		0.00150	0.0100	mg/L	02/13/25 13:46	02/20/25	1	8270C	BB01312
Surrogate: 2,4,6-Tribromophenol	*63%*			*19-126*			*02/20/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*55%*			*35-129*			*02/20/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*39%*			*10-113*			*02/20/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*23%*	S		*30-152*			*02/20/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*60%*			*27-150*			*02/20/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*29%*			*10-105*			*02/20/25*	*1*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND		0.0000155	0.0000518	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
4,4´-DDE	ND		0.0000104	0.0000518	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
4,4´-DDT	ND		0.0000155	0.0000518	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Aldrin	ND		0.00000933	0.0000259	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
alpha-BHC	ND		0.00000622	0.0000259	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
alpha-Chlordane	ND		0.00000518	0.0000259	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Endrin aldehyde	ND		0.0000155	0.0000518	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
beta-BHC	ND		0.00000725	0.0000259	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Chlordane, Technical	ND		0.000104	0.000104	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
delta-BHC	ND		0.00000725	0.0000259	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Dieldrin	ND		0.0000135	0.0000518	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-317 (Continued)
ABB0970-05 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides (Continued)										
Endosulfan I	ND		0.00000622	0.0000259	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Endosulfan II	ND		0.0000155	0.0000518	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Endosulfan sulfate	ND		0.0000155	0.0000518	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Endrin	ND		0.0000155	0.0000518	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Endrin ketone	ND		0.0000145	0.0000518	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
gamma-BHC	ND		0.00000622	0.0000259	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
gamma-Chlordane	ND		0.0000104	0.0000259	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Heptachlor	ND		0.00000518	0.0000259	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Heptachlor epoxide	ND		0.00000725	0.0000259	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Methoxychlor	ND		0.0000984	0.000259	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Toxaphene	ND		0.000114	0.000207	mg/L	02/13/25 13:46	02/21/25	1	8081	BB01267
Surrogate: Decachlorobiphenyl			*43%*	*20-120*			*02/21/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene			*46%*	*20-134*			*02/21/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - PCBs										
Aroclor 1016	ND	S,	0.0000370	0.000100	mg/L	02/13/25 13:46	02/21/25	1	8082	BB01267
Aroclor 1221	ND		0.0000180	0.000100	mg/L	02/13/25 13:46	02/21/25	1	8082	BB01267
Aroclor 1232	ND		0.0000240	0.000100	mg/L	02/13/25 13:46	02/21/25	1	8082	BB01267
Aroclor 1242	ND		0.0000240	0.000100	mg/L	02/13/25 13:46	02/21/25	1	8082	BB01267
Aroclor 1248	ND		0.0000290	0.000100	mg/L	02/13/25 13:46	02/21/25	1	8082	BB01267
Aroclor 1254	ND		0.0000170	0.000100	mg/L	02/13/25 13:46	02/21/25	1	8082	BB01267
Aroclor 1260	ND		0.0000250	0.000100	mg/L	02/13/25 13:46	02/21/25	1	8082	BB01267
Surrogate: Decachlorobiphenyl			*48%*	*20-116*			*02/21/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene			*50%*	*20-136*			*02/21/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA										
Mercury	0.00130		0.0000860	0.000500	mg/L	02/13/25 13:46	02/19/25	1	7470A	BB01315

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry										
Cyanide, Total	0.13		0.0020	0.0050	mg/L	02/13/25 13:46	02/19/25	1	4500-CN C-E	BB01412

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
1,4-Dioxane	ND	S,	0.100	0.100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
n-Butanol	ND	S,	0.100	0.100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
1,1,1-Trichloroethane	ND		0.000159	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-317 (Continued)
ABB0970-05 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)										
1,1,2,2-Tetrachloroethane	ND		0.000355	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
1,1,2-Trichloroethane	ND		0.000224	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
1,1-Dichloroethane	ND		0.000527	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
1,1-Dichloroethene	ND		0.000311	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
1,2-Dibromo-3-chloropropane	ND		0.000417	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
1,2-Dibromoethane	ND		0.000229	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
1,2-Dichloroethane	ND		0.000185	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
1,2-Dichloropropane	ND		0.000210	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
2-Butanone	ND		0.00361	0.0100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
2-Hexanone	ND		0.00493	0.0250	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
4-Methyl-2-pentanone	ND		0.00213	0.0250	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Acetone	ND		0.00668	0.0250	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Benzene	ND		0.0000850	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Bromodichloromethane	ND		0.000320	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Bromoform	ND		0.000746	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Bromomethane	ND		0.000862	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Carbon disulfide	ND		0.000674	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Carbon tetrachloride	ND		0.000393	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Chlorobenzene	ND		0.000146	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Chloroethane	ND		0.000950	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Chloroform	ND		0.000161	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Chloromethane	ND		0.000428	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
cis-1,2-Dichloroethene	ND		0.000241	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
cis-1,3-dichloropropene	ND		0.000343	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Dibromochloromethane	ND		0.000237	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Dichlorodifluoromethane	ND		0.000495	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Ethylbenzene	ND		0.000160	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Isopropylbenzene	ND		0.000402	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
m,p-Xylene	ND		0.000513	0.00200	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Methyl tert-butyl ether	ND		0.000434	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Methylene chloride	ND		0.000620	0.00500	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
o-Xylene	ND		0.000227	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Styrene	ND		0.000310	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Tetrachloroethene	ND		0.000849	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Toluene	ND		0.000220	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
trans-1,2-Dichloroethene	ND		0.000183	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
trans-1,3-dichloropropene	ND		0.000582	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Trichloroethene	ND		0.000246	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Trichlorofluoromethane	ND		0.000280	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Vinyl acetate	ND	S,	0.00293	0.0250	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Vinyl chloride	ND		0.000346	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	BB01712
Surrogate: 4-Bromofluorobenzene			*103%*	*76-119*			*02/14/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane			*101%*	*66-137*			*02/14/25*	*1*	*8260B*	
Surrogate: Toluene-d8			*100%*	*80-120*			*02/14/25*	*1*	*8260B*	
Total 1,3-Dichloropropene	ND		0.000343	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	[CALC]

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2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-317 (Continued)
ABB0970-05 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)										
Total Xylenes	ND		0.000227	0.00100	mg/L	02/13/25 13:46	02/14/25	1	8260B	[CALC]

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	45.3		0.850	10.0	mg/L	02/13/25 13:46	02/24/25	50	6010B	BB01405
Antimony	0.0360		0.00480	0.0350	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Arsenic	0.129		0.00560	0.0250	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Barium	0.752		0.00270	0.250	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Beryllium	0.00771		0.000390	0.00500	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Cadmium	0.0131		0.000590	0.0100	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Calcium	285		1.42	20.0	mg/L	02/13/25 13:46	02/20/25	20	6010B	BB01405
Chromium	0.148		0.00300	0.0250	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Cobalt	0.0352	J	0.000570	0.0500	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Copper	0.166		0.00530	0.0500	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Iron	618		1.04	5.00	mg/L	02/13/25 13:46	02/20/25	20	6010B	BB01405
Lead	1.45		0.00130	0.0250	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Magnesium	53.4		0.120	5.00	mg/L	02/13/25 13:46	02/20/25	5	6010B	BB01405
Manganese	19.0		0.0395	0.125	mg/L	02/13/25 13:46	02/20/25	5	6010B	BB01405
Nickel	0.106		0.00390	0.0250	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Potassium	41.3		0.210	1.00	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Selenium	0.00821	J	0.00570	0.0250	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Silver	ND		0.00210	0.0100	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Sodium	29.8		0.243	1.00	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Thallium	0.0387	J	0.00340	0.100	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Vanadium	0.188		0.00120	0.0500	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405
Zinc	1.98		0.0120	0.100	mg/L	02/13/25 13:46	02/19/25	1	6010B	BB01405

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

Project: Pioneer Environmental - General
Project Number: 8080 S. Lake Shore Drive
Project Manager: Pioneer Environmental Services LLC

Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-317F
ABB0970-06 (Water)

SVOC

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Acenaphthene	ND		0.0000828	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Acenaphthylene	ND		0.0000398	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Anthracene	0.0000409	J	0.0000366	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Benzo(a)anthracene	ND		0.0000871	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Benzo(a)pyrene	ND		0.0000710	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Benzo(b)fluoranthene	ND		0.0000419	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Benzo(g,h,i)perylene	ND		0.0000495	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Benzo(k)fluoranthene	ND		0.0000516	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Chrysene	ND		0.0000387	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Dibenzo(a,h)anthracene	ND		0.0000505	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Fluoranthene	0.0000813	J	0.0000376	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Fluorene	0.0000570	J	0.0000376	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Indeno(1,2,3-cd)pyrene	ND		0.0000387	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Naphthalene	0.000103	J	0.0000516	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Phenanthrene	0.000133		0.0000903	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Pyrene	ND		0.0000925	0.000108	mg/L	02/13/25 13:52	02/19/25	1	8270C	BB01421
Surrogate: 2-Fluorobiphenyl			*86%*	*34-130*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5			*89%*	*39-144*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14			*101%*	*10-168*			*02/19/25*	*1*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - CVAA

Mercury	ND		0.0000860	0.000500	mg/L	02/13/25 13:52	02/19/25	1	7470A	BB01315

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - ICP

Aluminum	0.164	J	0.0170	0.200	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Antimony	ND		0.00480	0.0350	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Arsenic	0.00652	J	0.00560	0.0250	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Barium	0.0837	J	0.00270	0.250	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Beryllium	ND		0.000390	0.00500	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Cadmium	ND		0.000590	0.0100	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Calcium	165		0.355	5.00	mg/L	02/13/25 13:52	02/20/25	5	6010B	BB01405
Chromium	ND		0.00300	0.0250	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Cobalt	0.000601	J	0.000570	0.0500	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Copper	ND		0.00530	0.0500	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Iron	1.39		0.0520	0.250	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Lead	0.00345	J	0.00130	0.0250	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Magnesium	26.4		0.120	5.00	mg/L	02/13/25 13:52	02/20/25	5	6010B	BB01405
Manganese	0.572		0.00790	0.0250	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Nickel	ND		0.00390	0.0250	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Potassium	48.0		0.210	1.00	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-317F (Continued)
ABB0970-06 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP (Continued)									
Selenium	ND	0.00570	0.0250	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Silver	ND	0.00210	0.0100	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Sodium	32.7	0.243	1.00	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Thallium	0.0159 J	0.00340	0.100	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Vanadium	ND	0.00120	0.0500	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405
Zinc	ND	0.0120	0.100	mg/L	02/13/25 13:52	02/19/25	1	6010B	BB01405

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-316

ABB0970-07 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
Acenaphthene	0.00293		0.0000778	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Acenaphthylene	0.000544		0.0000374	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Anthracene	0.00216		0.0000343	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Benzo(a)anthracene	0.00149		0.0000818	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Benzo(a)pyrene	0.00202		0.0000667	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Benzo(b)fluoranthene	0.00157		0.0000394	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Benzo(g,h,i)perylene	0.00244		0.0000465	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Benzo(k)fluoranthene	0.000951		0.0000485	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Chrysene	0.000952		0.0000364	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Dibenzo(a,h)anthracene	0.000598		0.0000475	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Fluoranthene	0.00343		0.0000354	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Fluorene	0.00345		0.0000354	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Indeno(1,2,3-cd)pyrene	0.00319		0.0000364	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Naphthalene	0.000893		0.0000485	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Phenanthrene	0.00483		0.0000848	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Pyrene	0.00234		0.0000869	0.000101	mg/L	02/13/25 14:02	02/19/25	1	8270C	BB01421
Surrogate: 2-Fluorobiphenyl			*84%*	*34-130*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5			*94%*	*39-144*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14			*70%*	*10-168*			*02/19/25*	*1*	*8270C*	
1,2,4-Trichlorobenzene	ND		0.00147	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
1,2-Dichlorobenzene	ND		0.00210	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
1,3-Dichlorobenzene	ND		0.00110	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
1,4-Dichlorobenzene	ND		0.00122	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
2,4,5-Trichlorophenol	ND		0.00280	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
2,4,6-Trichlorophenol	ND		0.00260	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
2,4-Dichlorophenol	ND		0.00270	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
2,4-Dimethylphenol	ND		0.00230	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
2,4-Dinitrophenol	ND		0.00520	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
2,4-Dinitrotoluene	0.00106	J	0.000660	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
2,6-Dinitrotoluene	ND		0.000560	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
2-Chloronaphthalene	ND		0.000500	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
2-Chlorophenol	ND		0.00290	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
2-Methylnaphthalene	0.00202		0.000640	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
2-Nitroaniline	ND		0.00132	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
2-Nitrophenol	ND		0.00290	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
3,3-Dichlorobenzidine	ND		0.00190	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
3-Nitroaniline	ND		0.00125	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
4,6-Dinitro-2-methylphenol	ND		0.00290	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
4-Bromophenyl phenyl ether	ND		0.000530	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
4-Chloro-3-methylphenol	ND		0.00270	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
4-Chloroaniline	ND		0.00310	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
4-Chlorophenyl phenyl ether	ND		0.000590	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
4-Nitroaniline	ND		0.00194	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
4-Nitrophenol	ND		0.00230	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Anthracene	0.0141		0.000690	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-316 (Continued)
ABB0970-07 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Bis(2-chloroethoxy)methane	ND		0.00200	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
bis(2-Chloroethyl)ether	ND		0.00180	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Bis(2-chloroisopropyl)ether	ND		0.00180	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Bis(2-ethylhexyl)phthalate	ND		0.00248	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Butyl benzyl phthalate	ND		0.00300	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Carbazole	0.00403		0.000820	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Chrysene	0.0109		0.000700	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Dibenzofuran	0.00867		0.000430	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Diethyl phthalate	ND		0.00219	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Dimethyl phthalate	ND	S,	0.00266	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Di-n-butyl phthalate	ND		0.00170	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Di-n-octyl phthalate	ND		0.00200	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Hexachlorobenzene	ND		0.00125	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Hexachlorobutadiene	ND		0.00135	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Hexachlorocyclopentadiene	ND		0.00210	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Hexachloroethane	ND		0.00122	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Isophorone	ND		0.000560	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
m,p-Cresol	ND		0.000500	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Nitrobenzene	ND		0.00133	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
N-Nitroso-di-n-propylamine	ND		0.00121	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
N-Nitrosodiphenylamine	ND		0.000960	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
O-Cresol	ND		0.000610	0.00200	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Pentachlorophenol	ND		0.00480	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Phenol	ND		0.00150	0.0100	mg/L	02/13/25 14:02	02/24/25	1	8270C	BB01312
Surrogate: 2,4,6-Tribromophenol	*54%*		*19-126*				*02/24/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*56%*		*35-129*				*02/24/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*37%*		*10-113*				*02/24/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*0%*	S,	*30-152*				*02/24/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*70%*		*27-150*				*02/24/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*28%*		*10-105*				*02/24/25*	*1*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND		0.0000154	0.0000513	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
4,4´-DDE	ND		0.0000103	0.0000513	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
4,4´-DDT	ND		0.0000154	0.0000513	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Aldrin	ND		0.00000923	0.0000256	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
alpha-BHC	ND		0.00000615	0.0000256	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
alpha-Chlordane	ND		0.00000513	0.0000256	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Endrin aldehyde	ND		0.0000154	0.0000513	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
beta-BHC	ND		0.00000718	0.0000256	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Chlordane, Technical	ND		0.000103	0.000103	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
delta-BHC	ND		0.00000718	0.0000256	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Dieldrin	ND		0.0000133	0.0000513	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-316 (Continued)
ABB0970-07 (Water)

Organics - Pesticides (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Endosulfan I	ND		0.00000615	0.0000256	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Endosulfan II	ND		0.0000154	0.0000513	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Endosulfan sulfate	ND		0.0000154	0.0000513	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Endrin	ND		0.0000154	0.0000513	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Endrin ketone	ND		0.0000144	0.0000513	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
gamma-BHC	0.0000267		0.00000615	0.0000256	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
gamma-Chlordane	ND		0.0000103	0.0000256	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Heptachlor	ND		0.00000513	0.0000256	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Heptachlor epoxide	ND		0.00000718	0.0000256	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Methoxychlor	ND		0.0000974	0.000256	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Toxaphene	ND		0.000113	0.000205	mg/L	02/13/25 14:02	02/21/25	1	8081	BB01267
Surrogate: Decachlorobiphenyl			*49%*	*20-120*			*02/21/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene			*41%*	*20-134*			*02/21/25*	*1*	*8081*	

Organics - PCBs

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aroclor 1016	ND	S,	0.0000370	0.000100	mg/L	02/13/25 14:02	02/21/25	1	8082	BB01267
Aroclor 1221	ND		0.0000180	0.000100	mg/L	02/13/25 14:02	02/21/25	1	8082	BB01267
Aroclor 1232	ND		0.0000240	0.000100	mg/L	02/13/25 14:02	02/21/25	1	8082	BB01267
Aroclor 1242	ND		0.0000240	0.000100	mg/L	02/13/25 14:02	02/21/25	1	8082	BB01267
Aroclor 1248	ND		0.0000290	0.000100	mg/L	02/13/25 14:02	02/21/25	1	8082	BB01267
Aroclor 1254	ND		0.0000170	0.000100	mg/L	02/13/25 14:02	02/21/25	1	8082	BB01267
Aroclor 1260	ND		0.0000250	0.000100	mg/L	02/13/25 14:02	02/21/25	1	8082	BB01267
Surrogate: Decachlorobiphenyl			*57%*	*20-116*			*02/21/25*	*1*	*8082*	
Surrogate: Tetrachloro-m-xylene			*44%*	*20-136*			*02/21/25*	*1*	*8082*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	0.000184	J	0.0000860	0.000500	mg/L	02/13/25 14:02	02/19/25	1	7470A	BB01315

Wet Chemistry

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Cyanide, Total	0.0023	J	0.0020	0.0050	mg/L	02/13/25 14:02	02/19/25	1	4500-CN C-E	BB01412

Volatile Organics

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
1,4-Dioxane	ND	S,	0.100	0.100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
n-Butanol	ND	S,	0.100	0.100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
1,1,1-Trichloroethane	ND		0.000159	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-316 (Continued)
ABB0970-07 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)										
1,1,2,2-Tetrachloroethane	ND		0.000355	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
1,1,2-Trichloroethane	ND		0.000224	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
1,1-Dichloroethane	ND		0.000527	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
1,1-Dichloroethene	ND		0.000311	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
1,2-Dibromo-3-chloropropane	ND		0.000417	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
1,2-Dibromoethane	ND		0.000229	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
1,2-Dichloroethane	ND		0.000185	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
1,2-Dichloropropane	ND		0.000210	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
2-Butanone	ND		0.00361	0.0100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
2-Hexanone	ND		0.00493	0.0250	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
4-Methyl-2-pentanone	ND		0.00213	0.0250	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Acetone	ND		0.00668	0.0250	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Benzene	ND		0.0000850	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Bromodichloromethane	ND		0.000320	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Bromoform	ND		0.000746	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Bromomethane	ND		0.000862	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Carbon disulfide	ND		0.000674	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Carbon tetrachloride	ND		0.000393	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Chlorobenzene	ND		0.000146	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Chloroethane	ND		0.000950	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Chloroform	ND		0.000161	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Chloromethane	ND		0.000428	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
cis-1,2-Dichloroethene	ND		0.000241	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
cis-1,3-dichloropropene	ND		0.000343	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Dibromochloromethane	ND		0.000237	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Dichlorodifluoromethane	ND		0.000495	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Ethylbenzene	ND		0.000160	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Isopropylbenzene	ND		0.000402	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
m,p-Xylene	ND		0.000513	0.00200	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Methyl tert-butyl ether	ND		0.000434	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Methylene chloride	ND		0.000620	0.00500	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
o-Xylene	ND		0.000227	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Styrene	ND		0.000310	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Tetrachloroethene	ND		0.000849	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Toluene	ND		0.000220	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
trans-1,2-Dichloroethene	ND		0.000183	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
trans-1,3-dichloropropene	ND		0.000582	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Trichloroethene	ND		0.000246	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Trichlorofluoromethane	ND		0.000280	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Vinyl acetate	ND	S,	0.00293	0.0250	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Vinyl chloride	ND		0.000346	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	BB01712
Surrogate: 4-Bromofluorobenzene			*103%*	*76-119*			*02/14/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane			*102%*	*66-137*			*02/14/25*	*1*	*8260B*	
Surrogate: Toluene-d8			*100%*	*80-120*			*02/14/25*	*1*	*8260B*	
Total 1,3-Dichloropropene	ND		0.000343	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	[CALC]

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-316 (Continued)
ABB0970-07 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)										
Total Xylenes	ND		0.000227	0.00100	mg/L	02/13/25 14:02	02/14/25	1	8260B	[CALC]

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	46.6		0.850	10.0	mg/L	02/13/25 14:02	02/24/25	50	6010B	BB01405
Antimony	ND		0.00480	0.0350	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Arsenic	0.0591		0.00560	0.0250	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Barium	0.398		0.00270	0.250	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Beryllium	0.00485	J	0.000390	0.00500	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Cadmium	ND		0.000590	0.0100	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Calcium	722	E	0.0710	1.00	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Calcium	872		1.42	20.0	mg/L	02/13/25 14:02	02/20/25	20	6010B	BB01405
Chromium	0.101		0.00300	0.0250	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Cobalt	0.0523		0.000570	0.0500	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Copper	0.101		0.00530	0.0500	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Iron	179		0.260	1.25	mg/L	02/13/25 14:02	02/20/25	5	6010B	BB01405
Lead	0.116		0.00130	0.0250	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Magnesium	337		0.480	20.0	mg/L	02/13/25 14:02	02/20/25	20	6010B	BB01405
Manganese	5.60		0.0395	0.125	mg/L	02/13/25 14:02	02/20/25	5	6010B	BB01405
Nickel	0.0835		0.00390	0.0250	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Potassium	23.5		0.210	1.00	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Selenium	0.00940	J	0.00570	0.0250	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Silver	ND		0.00210	0.0100	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Sodium	38.8		0.243	1.00	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Thallium	0.0201	J	0.00340	0.100	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Vanadium	0.140		0.00120	0.0500	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405
Zinc	0.385		0.0120	0.100	mg/L	02/13/25 14:02	02/19/25	1	6010B	BB01405

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-316F
ABB0970-08 (Water)

SVOC

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Acenaphthene	0.000522		0.0000819	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Acenaphthylene	0.0000843	J	0.0000394	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Anthracene	0.000326		0.0000362	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Benzo(a)anthracene	0.000190		0.0000862	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Benzo(a)pyrene	0.000264		0.0000702	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Benzo(b)fluoranthene	0.000207		0.0000415	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Benzo(g,h,i)perylene	0.000351		0.0000489	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Benzo(k)fluoranthene	0.000124		0.0000511	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Chrysene	0.000121		0.0000383	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Dibenzo(a,h)anthracene	0.0000844	J	0.0000500	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Fluoranthene	0.000486		0.0000372	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Fluorene	0.000570		0.0000372	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Indeno(1,2,3-cd)pyrene	0.000419		0.0000383	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Naphthalene	0.000246		0.0000511	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Phenanthrene	0.000726		0.0000894	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Pyrene	0.000341		0.0000915	0.000106	mg/L	02/13/25 14:13	02/19/25	1	8270C	BB01421
Surrogate: 2-Fluorobiphenyl			*81%*	*34-130*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5			*87%*	*39-144*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14			*79%*	*10-168*			*02/19/25*	*1*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0000860	0.000500	mg/L	02/13/25 14:13	02/19/25	1	7470A	BB01315

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - ICP

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aluminum	1.50	E	0.0170	0.200	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Antimony	ND		0.00480	0.0350	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Arsenic	ND		0.00560	0.0250	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Barium	0.0449	J	0.00270	0.250	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Beryllium	ND		0.000390	0.00500	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Cadmium	ND		0.000590	0.0100	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Calcium	50.1	E	0.0710	1.00	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Calcium	53.0		0.355	5.00	mg/L	02/13/25 14:13	02/20/25	5	6010B	BB01405
Chromium	0.00446	J	0.00300	0.0250	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Cobalt	0.00123	J	0.000570	0.0500	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Copper	ND		0.00530	0.0500	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Iron	4.31		0.0520	0.250	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Lead	0.00387	J	0.00130	0.0250	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Magnesium	25.2		0.120	5.00	mg/L	02/13/25 14:13	02/20/25	5	6010B	BB01405
Manganese	0.114		0.00790	0.0250	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Nickel	ND		0.00390	0.0250	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

Sample Results
(Continued)

Sample: MW-316F (Continued)
ABB0970-08 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP (Continued)										
Potassium	10.9		0.210	1.00	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Selenium	ND		0.00570	0.0250	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Silver	ND		0.00210	0.0100	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Sodium	15.9		0.243	1.00	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Thallium	0.00711	J	0.00340	0.100	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Vanadium	0.00549	J	0.00120	0.0500	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405
Zinc	ND		0.0120	0.100	mg/L	02/13/25 14:13	02/19/25	1	6010B	BB01405

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S. Lake Shore Drive	
Chicago, IL 60608	Project Manager: Pioneer Environmental Services LLC	Reported: 03/12/2025 16:54

8260 SRP Package

8260 SRP

8720 SRP Package Water Only

8270 SRP	8270 PNA SIM

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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METIRI

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134

CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Page 1 of 1

Company Name	Pioneer
Company Address	2753 N. 31st St.
City / State / Zip	Chicago / IL / 60608
Office / Mobile / Fax	
Email Address	jhartsock@pioneerees.com
Project ID / Location	8080 S. Lake Shore Drive
Project Manager (Report to)	Jake Hartsock
Sample Collector(s)	J. David

TURNAROUND TIME REQUESTED

☒ Normal ☐ RUSH*

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

PO # 24-0124-103

Report Type ☐ Normal ☐ Special

* Additional charges apply for QC reports and raw data. Specify in comments section

Shipping Method

LAB USE ONLY

Work Order #

Temperature of Received Samples: 2 °C

Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	VOCs	SVOCs	PCBs	Metals	TCL	Lab Comment	LAB #
1	MW-202	2/13/25	10:36am	GW	G	4			X	X	X				
2	MW-202F		10:42am			1					X				
3	MW-315		12:15pm			7							X		
4	MW-315F		12:37pm			2					X	X			
5	MW-317		1:46pm			7							X		
6	MW-317F		1:52pm			2					X	X			
7	MW-316		2:02pm			7							X		
8	MW-316	"	2:13pm	"	"	2					X	X			
9															
10															
11															
12															

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

Total

ABB0970

MW

	Date		Date		Date		Date
1. Relinquished By	2/14/25	2. Relinquished By	2-14-25	3. Relinquished By		4. Relinquished By	
Received By ☐ Ice	Time 9:30	Received By ☐ Ice	Time 11:40	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

METIRI

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CHAIN OF CUSTODY RECORD

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PO # 24-0124-193

Report Type ☐ Normal ☐ Special

* Additional charges apply for QC reports and raw data. Specify in comments section

Shipping Method

Company Name: Pioneer
Company Address: 2753 N. 31st St.
City: Chicago State: IL Zip: 60608
Office: Mobile: Fax:
Email Address: jhartsock@pioneerees.com
Project ID / Location: 8050 S. Lake Shore Drive
Project Manager (Report to): Jake Hartsock
Sample Collector(s): J. David

TURNAROUND TIME REQUESTED

☒ Normal ☐ RUSH*

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed:

Specify Regulatory Program: ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ CCDD ☐ OTHER - Specify Below

LAB USE ONLY

Work Order #

Temperature of Received Samples: 2 °C

Received within 24 hours of collection? ☐ No ☐ Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	VOCs	SVOCs	PUKs	Metals	TCL	Lab Comment	LAB #
1	MW-202	2/13/25	10:36am	GW	G	4			X	X	X				
2	MW-202F		10:42am			1					X				
3	MW-315		12:15pm			7							X		
4	MW-315F		12:37pm			2					X	X			
5	MW-317		1:46pm			7							X		
6	MW-317F		1:52pm			2					X	X			
7	MW-316		2:02pm			7							X		
8	MW-316	"	2:13pm	"	"	2					X	X			
9															
10															
11															
12															

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

Total

ABB0970 MW

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/14/25		2-14-25				
Received By ☐ Ice	Time 9:30	Received By ☐ Ice	Time 11:40	Received By ☐ Ice	Time	Received By ☐ Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

February 28, 2025

Jake Hartsock
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Dr
ABB1043

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/17/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 02/28/2025 13:08

Notes and Definitions

Item	Definition
J	Analyte detected below quantitation limit (QL)
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 02/28/2025 13:08

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB1043-01	MW-307	Water	02/14/2025 11:15	02/17/2025
ABB1043-02	MW-307 F	Water	02/14/2025 11:21	02/17/2025
ABB1043-03	MW-309	Water	02/14/2025 13:23	02/17/2025
ABB1043-04	MW-309 F	Water	02/14/2025 13:37	02/17/2025

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 02/28/2025 13:08

Sample Results

Sample: MW-307

ABB1043-01 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP									
Lead	0.0883	0.00130	0.0250	mg/L	02/14/25 11:15	02/24/25	1	6010B	BB01586

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 02/28/2025 13:08

Sample Results

(Continued)

Sample: MW-307 F

ABB1043-02 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP									
Lead	0.0437	0.00130	0.0250	mg/L	02/14/25 11:21	02/24/25	1	6010B	BB01586

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 02/28/2025 13:08

Sample Results

(Continued)

Sample: MW-309

ABB1043-03 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
Acenaphthene	0.000118	0.0000815	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Acenaphthylene	0.000124	0.0000392	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Anthracene	0.000107	0.0000360	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Benzo(a)anthracene	ND	0.0000857	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Benzo(a)pyrene	ND	0.0000698	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Benzo(b)fluoranthene	ND	0.0000413	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Benzo(g,h,i)perylene	ND	0.0000487	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Benzo(k)fluoranthene	ND	0.0000508	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Chrysene	ND	0.0000381	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Dibenzo(a,h)anthracene	ND	0.0000497	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Fluoranthene	0.000238	0.0000370	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Fluorene	0.000181	0.0000370	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Indeno(1,2,3-cd)pyrene	ND	0.0000381	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Naphthalene	0.0000646 J	0.0000508	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Phenanthrene	0.000669	0.0000889	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Pyrene	0.000211	0.0000910	0.000106	mg/L	02/14/25 13:23	02/19/25	1	8270C	BB01421
Surrogate: 2-Fluorobiphenyl		*87%*	*34-130*			*02/19/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5		*88%*	*39-144*			*02/19/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14		*94%*	*10-168*			*02/19/25*	*1*	*8270C*	

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 02/28/2025 13:08

Sample Results

(Continued)

Sample: MW-309 F

ABB1043-04 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
Acenaphthene	ND	0.0000819	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Acenaphthylene	ND	0.0000394	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Anthracene	ND	0.0000362	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Benzo(a)anthracene	ND	0.0000862	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Benzo(a)pyrene	ND	0.0000702	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Benzo(b)fluoranthene	ND	0.0000415	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Benzo(g,h,i)perylene	ND	0.0000489	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Benzo(k)fluoranthene	ND	0.0000511	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Chrysene	ND	0.0000383	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Dibenzo(a,h)anthracene	ND	0.0000500	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Fluoranthene	ND	0.0000372	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Fluorene	ND	0.0000372	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Indeno(1,2,3-cd)pyrene	ND	0.0000383	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Naphthalene	ND	0.0000511	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Phenanthrene	ND	0.0000894	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Pyrene	ND	0.0000915	0.000106	mg/L	02/14/25 13:37	02/21/25	1	8270C	BB01570
Surrogate: 2-Fluorobiphenyl		*66%*	*34-130*			*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5		*63%*	*39-144*			*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14		*70%*	*10-168*			*02/21/25*	*1*	*8270C*	

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Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

Company Name: Pioneer
Company Address: 2753 W. 31st St.
City: Chicago State: IL Zip: 60608
Office: Mobile: Fax:
Email Address: Mhartsock@pioneerees.com
Project ID / Location: 8080 S. Lake Shore Dr.
Project Manager (Report to): Jake Hartsock
Sample Collector(s): J. David

TURNAROUND TIME REQUESTED
[X] Normal [ ] RUSH*
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: [ ] None/Info Only
[ ] LUST [ ] SRP [ ] SDWA
[ ] 503 Sludge [ ] NPDES [ ] MWRDGC
[ ] Disposal [ ] CCDD [ ] OTHER - Specify Below

PO # 24-C124-1C3
Report Type [ ] Normal [ ] Spec
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method

LAB USE ONLY
Work Order #
Temperature of Received Samples: 2 °C
Received within 24 hours of collection? [ ] No [ ] Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED: PUAS Level	Lab Comment	LAB #
1	MW-307	2/14/25	11:15am	GW	G	4	1L amber		X		
2	MW-307F		11:21am						X		
3	MW-309		1:23pm						X		
4	MW-309F		1:37pm						X		
5											
6											
7											
8											
9											
10											
11											
12											

ABB1043
Pioneer Environmental Services LLC

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

TO:IH

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/14/25		2-17-25				
Received By	Time	Received By	Time	Received By	Time	Received By	Time
[ ] Ice	9:35	[X] Ice	11:40	2-17-25 [ ] Ice		[ ] Ice	

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Company Name: Pioneer
Company Address: 2753 W. 31st St.
City: Chicago State: IL Zip: 60608
Office: Mobile: Fax:
Email Address: jhartsock@pioneerees.com
Project ID / Location: 8080 S. Lake Shore Dr.
Project Manager (Report to): Jake Hartsock
Sample Collector(s): J. David

TURNAROUND TIME REQUESTED
[X] Normal [ ] RUSH*
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: [ ] None/Info Only
[ ] LUST [ ] SRP [ ] SDWA
[ ] 503 Sludge [ ] NPDES [ ] MWRDGC
[ ] Disposal [ ] CCDD [ ] OTHER - Specify Below

PO # 24-C124-103
Report Type: [ ] Normal [ ] Special
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method

LAB USE ONLY
Work Order #
Temperature of Received Samples: 2 °C
Received within 24 hours of collection? [ ] No [ ] Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED: 1,4-Dioxane Level	Lab Comment	LAB #
1	MW-307	2/14/25	11:15am	GW	G	3	1 HNO3 Pint		X		
2	MW-307F		11:21am						X		
3	MW-309		1:23pm				1L amber		X		
4	MW-309F		1:37pm						X		
5											
6											
7											
8											
9											
10											
11											
12											

ABB1043
Pioneer Environmental Services LLC

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

Total

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/14/25		2/17/25				
Received By	Time	Received By	Time	Received By	Time	Received By	Time
[ ] Ice	9:35	[✓] Ice	11:40	[ ] Ice		[ ] Ice	

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

March 12, 2025

Jake Hartsock
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Dr -revised
ABB1146

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/18/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Notes and Definitions

Item	Definition
E	Estimated, detected above quantitation range
J	Analyte detected below quantitation limit (QL)
S	Spike Recovery outside accepted recovery limits
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Analysis Case Narrative

8081:
Sample ABB1096-01: S = Recovery of surrogate DCB (6%, 4%) was below acceptance limits (20-116%) on both columns. Recovery of the other surrogate was within limits.
Sample ABB1146-05: S = Recovery of surrogate DCB (18%, 15%) was below acceptance limits (20-116%) on both columns. Recovery of the other surrogate was within limits.

8082:
Sample ABB1096-01: S = Recovery of surrogate DCB (7%, 5%) was below acceptance limits (20-116%) on both columns. Recovery of the other surrogate was within limits.
Sample ABB1146-05: S = Recovery of surrogate DCB (18%) was below acceptance limits (20-116%) on column 2. All other surrogate recoveries were within limits.

8270:
Samples ABB1146-01, -05, and -07: S=For Dimethyl phthalate, the Blank Spike percent recovery (9%) was outside laboratory control limits (10% - 105%).

8260:
The CCV in sequence SB00725 recovered outside the control limits for Bromomethane, Vinyl acetate, n-Butanol, 1,4-Dioxane and 1,2-Dichloro-3-chloropropane . Corrective action: None, these compounds were not detected in the associated samples.

Samples ABB1146-01, -03, -05 and -07: S=The Blank Spike exceeded the upper acceptance limit for n-Butanol and 1,4-Dioxane, resulting in a high bias. There were no detects in the samples

Sample ABB1146-01: S=The MS percent recoveries for the following analytes were outside laboratory control limits

Bromomethane 37% (Limit: 41% - 181%)
Chloroethane 0% (Limit: 46% - 162%)
n-Butanol 151% (Limit: 50-150%)
1,4-Dioxane: 172% (Limit: 36-139%)

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB1146-01	MW-104D	Water	02/17/2025 10:15	02/18/2025
ABB1146-02	MW-104D F	Water	02/17/2025 10:32	02/18/2025
ABB1146-03	MW-315	Water	02/17/2025 11:15	02/18/2025
ABB1146-03	MW-315	Water	02/17/2025 11:15	02/18/2025
ABB1146-04	MW-315 F	Water	02/17/2025 11:23	02/18/2025
ABB1146-05	MW-314	Water	02/17/2025 13:15	02/18/2025
ABB1146-06	MW-314 F	Water	02/17/2025 13:36	02/18/2025
ABB1146-07	MW-101	Water	02/17/2025 15:06	02/18/2025
ABB1146-08	MW-101 F	Water	02/17/2025 15:15	02/18/2025

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2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results

Sample: MW-104D

ABB1146-01 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
Acenaphthene	ND	0.0000811	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Acenaphthylene	ND	0.0000389	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Anthracene	ND	0.0000358	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Benzo(a)anthracene	ND	0.0000853	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Benzo(a)pyrene	ND	0.0000695	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Benzo(b)fluoranthene	ND	0.0000411	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Benzo(g,h,i)perylene	ND	0.0000484	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Benzo(k)fluoranthene	ND	0.0000505	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Chrysene	ND	0.0000379	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Dibenzo(a,h)anthracene	ND	0.0000495	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Fluoranthene	ND	0.0000368	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Fluorene	ND	0.0000368	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Indeno(1,2,3-cd)pyrene	ND	0.0000379	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Naphthalene	0.0000537 J	0.0000505	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Phenanthrene	ND	0.0000884	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Pyrene	ND	0.0000905	0.000105	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01570
Surrogate: 2-Fluorobiphenyl		*72%*	*34-130*			*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5		*73%*	*39-144*			*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14		*28%*	*10-168*			*02/21/25*	*1*	*8270C*	
1,2,4-Trichlorobenzene	ND	0.00161	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
1,2-Dichlorobenzene	ND	0.00230	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
1,3-Dichlorobenzene	ND	0.00120	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
1,4-Dichlorobenzene	ND	0.00133	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
2,4,5-Trichlorophenol	ND	0.00306	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
2,4,6-Trichlorophenol	ND	0.00284	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
2,4-Dichlorophenol	ND	0.00295	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
2,4-Dimethylphenol	ND	0.00251	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
2,4-Dinitrophenol	ND	0.00568	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
2,4-Dinitrotoluene	ND	0.000721	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
2,6-Dinitrotoluene	ND	0.000612	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
2-Chloronaphthalene	ND	0.000546	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
2-Chlorophenol	ND	0.00317	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
2-Methylnaphthalene	ND	0.000699	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
2-Nitroaniline	ND	0.00144	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
2-Nitrophenol	ND	0.00317	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
3,3-Dichlorobenzidine	ND	0.00208	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
3-Nitroaniline	ND	0.00137	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
4,6-Dinitro-2-methylphenol	ND	0.00317	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
4-Bromophenyl phenyl ether	ND	0.000579	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
4-Chloro-3-methylphenol	ND	0.00295	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
4-Chloroaniline	ND	0.00339	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
4-Chlorophenyl phenyl ether	ND	0.000645	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
4-Nitroaniline	ND	0.00212	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
4-Nitrophenol	ND	0.00251	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Anthracene	ND	0.000754	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603

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2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-104D (Continued)
ABB1146-01 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)									
Bis(2-chloroethoxy)methane	ND	0.00219	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
bis(2-Chloroethyl)ether	ND	0.00197	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Bis(2-chloroisopropyl)ether	ND	0.00197	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Bis(2-ethylhexyl)phthalate	ND	0.00271	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Butyl benzyl phthalate	ND	0.00328	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Carbazole	ND	0.000896	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Chrysene	ND	0.000765	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Dibenzofuran	ND	0.000470	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Diethyl phthalate	ND	0.00239	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Dimethyl phthalate	ND S,	0.00291	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Di-n-butyl phthalate	ND	0.00186	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Di-n-octyl phthalate	ND	0.00219	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Hexachlorobenzene	ND	0.00137	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Hexachlorobutadiene	ND	0.00148	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Hexachlorocyclopentadiene	ND	0.00230	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Hexachloroethane	ND	0.00133	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Isophorone	ND	0.000612	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
m,p-Cresol	0.000721 J	0.000546	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Nitrobenzene	ND	0.00145	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
N-Nitroso-di-n-propylamine	ND	0.00132	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
N-Nitrosodiphenylamine	ND	0.00105	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
O-Cresol	ND	0.000667	0.00219	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Pentachlorophenol	ND	0.00525	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Phenol	ND	0.00164	0.0109	mg/L	02/17/25 10:15	02/21/25	1	8270C	BB01603
Surrogate: 2,4,6-Tribromophenol	*65%*		*19-126*			*02/21/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*68%*		*35-129*			*02/21/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*34%*		*10-113*			*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*52%*		*30-152*			*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*64%*		*27-150*			*02/21/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*27%*		*10-105*			*02/21/25*	*1*	*8270C*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides									
4,4´-DDD	ND	0.0000152	0.0000508	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
4,4´-DDE	ND	0.0000102	0.0000508	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
4,4´-DDT	0.0000221 J	0.0000152	0.0000508	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Aldrin	ND	0.00000914	0.0000254	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
alpha-BHC	ND	0.00000609	0.0000254	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
alpha-Chlordane	ND	0.00000508	0.0000254	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Endrin aldehyde	ND	0.0000152	0.0000508	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
beta-BHC	ND	0.00000711	0.0000254	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Chlordane, Technical	ND	0.000102	0.000102	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
delta-BHC	ND	0.00000711	0.0000254	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Dieldrin	ND	0.0000132	0.0000508	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521

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2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-104D (Continued)
ABB1146-01 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides (Continued)										
Endosulfan I	ND		0.00000609	0.0000254	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Endosulfan II	ND		0.0000152	0.0000508	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Endosulfan sulfate	ND		0.0000152	0.0000508	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Endrin	ND		0.0000152	0.0000508	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Endrin ketone	ND		0.0000142	0.0000508	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
gamma-BHC	ND		0.00000609	0.0000254	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
gamma-Chlordane	ND		0.0000102	0.0000254	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Heptachlor	ND		0.00000508	0.0000254	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Heptachlor epoxide	ND		0.00000711	0.0000254	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Methoxychlor	ND		0.0000964	0.000254	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Toxaphene	ND		0.000112	0.000203	mg/L	02/17/25 10:15	02/24/25	1	8081	BB01521
Surrogate: Decachlorobiphenyl	*6%*	S	*20-120*				*02/24/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene	*46%*		*20-134*				*02/24/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - PCBs										
AROCLOR 1016	ND		0.0000370	0.000100	mg/L	02/17/25 10:15	02/24/25	1	8082	BB01521
AROCLOR 1221	ND		0.0000180	0.000100	mg/L	02/17/25 10:15	02/24/25	1	8082	BB01521
AROCLOR 1232	ND		0.0000240	0.000100	mg/L	02/17/25 10:15	02/24/25	1	8082	BB01521
AROCLOR 1242	ND		0.0000240	0.000100	mg/L	02/17/25 10:15	02/24/25	1	8082	BB01521
AROCLOR 1248	ND		0.0000290	0.000100	mg/L	02/17/25 10:15	02/24/25	1	8082	BB01521
AROCLOR 1254	ND		0.0000170	0.000100	mg/L	02/17/25 10:15	02/24/25	1	8082	BB01521
AROCLOR 1260	ND		0.0000250	0.000100	mg/L	02/17/25 10:15	02/24/25	1	8082	BB01521
AROCLOR 1262	ND		0.0000300	0.000100	mg/L	02/17/25 10:15	02/24/25	1	8082	BB01521
AROCLOR 1268	ND		0.0000230	0.000100	mg/L	02/17/25 10:15	02/24/25	1	8082	BB01521
Surrogate: Decachlorobiphenyl (DCB)	*5%*	S	*20-116*				*02/24/25*	*1*	*8082*	
Surrogate: TETRACHLORO-M-XYLENE	*53%*		*20-136*				*02/24/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA										
Mercury	ND		0.0000860	0.000500	mg/L	02/17/25 10:15	02/20/25	1	7470A	BB01401

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry										
Cyanide, Total	0.0075		0.0020	0.0050	mg/L	02/17/25 10:15	02/19/25	1	4500-CN C-E	BB01412

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
1,4-Dioxane	ND	S,	0.100	0.100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-104D (Continued)
ABB1146-01 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)										
n-Butanol	ND	S,	0.100	0.100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
1,1,1-Trichloroethane	ND		0.000159	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
1,1,2,2-Tetrachloroethane	ND		0.000355	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
1,1,2-Trichloroethane	ND		0.000224	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
1,1-Dichloroethane	ND		0.000527	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
1,1-Dichloroethene	ND		0.000311	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
1,2-Dibromo-3-chloropropane	ND	S,	0.000417	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
1,2-Dibromoethane	ND		0.000229	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
1,2-Dichloroethane	ND		0.000185	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
1,2-Dichloropropane	ND		0.000210	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
2-Butanone	ND		0.00361	0.0100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
2-Hexanone	ND		0.00493	0.0250	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
4-Methyl-2-pentanone	ND		0.00213	0.0250	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Acetone	ND		0.00668	0.0250	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Benzene	ND		0.0000850	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Bromodichloromethane	ND		0.000320	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Bromoform	ND		0.000746	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Bromomethane	ND	S,	0.000862	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Carbon disulfide	ND		0.000674	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Carbon tetrachloride	ND		0.000393	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Chlorobenzene	ND		0.000146	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Chloroethane	ND	S,	0.000950	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Chloroform	ND		0.000161	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Chloromethane	ND		0.000428	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
cis-1,2-Dichloroethene	ND		0.000241	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
cis-1,3-dichloropropene	ND		0.000343	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Dibromochloromethane	ND		0.000237	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Dichlorodifluoromethane	ND		0.000495	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Ethylbenzene	ND		0.000160	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Isopropylbenzene	ND		0.000402	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
m,p-Xylene	ND		0.000513	0.00200	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Methyl tert-butyl ether	ND		0.000434	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Methylene chloride	ND		0.000620	0.00500	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
o-Xylene	ND		0.000227	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Styrene	ND		0.000310	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Tetrachloroethene	ND		0.000849	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Toluene	ND		0.000220	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
trans-1,2-Dichloroethene	ND		0.000183	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
trans-1,3-dichloropropene	ND		0.000582	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Trichloroethene	ND		0.000246	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Trichlorofluoromethane	ND		0.000280	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Vinyl acetate	ND	S,	0.00293	0.0250	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Vinyl chloride	ND		0.000346	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	BB01834
Surrogate: 4-Bromofluorobenzene			*102%*	*76-119*			*02/19/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane			*103%*	*66-137*			*02/19/25*	*1*	*8260B*	

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-104D (Continued)
ABB1146-01 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)									
Surrogate: Toluene-d8		*100%*	*80-120*			*02/19/25*	*1*	*8260B*	
Total 1,3-Dichloropropene	ND	0.000343	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	[CALC]
Total Xylenes	ND	0.000227	0.00100	mg/L	02/17/25 10:15	02/19/25	1	8260B	[CALC]

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP									
Aluminum	0.952	0.0170	0.200	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Antimony	ND	0.00480	0.0350	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Arsenic	0.00780 J	0.00560	0.0250	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Barium	0.0426 J	0.00270	0.250	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Beryllium	ND	0.000390	0.00500	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Cadmium	ND	0.000590	0.0100	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Calcium	69.7	0.355	5.00	mg/L	02/17/25 10:15	02/24/25	5	6010B	BB01586
Chromium	ND	0.00300	0.0250	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Cobalt	ND	0.000570	0.0500	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Copper	ND	0.00530	0.0500	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Iron	0.352	0.0520	0.250	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Lead	0.00136 J	0.00130	0.0250	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Magnesium	0.609 J	0.0240	1.00	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Manganese	0.0179 J	0.00790	0.0250	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Nickel	ND	0.00390	0.0250	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Potassium	27.8	0.210	1.00	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Selenium	ND	0.00570	0.0250	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Silver	ND	0.00210	0.0100	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Sodium	37.6	0.243	1.00	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Thallium	0.00861 J	0.00340	0.100	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Vanadium	0.00380 J	0.00120	0.0500	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586
Zinc	ND	0.0120	0.100	mg/L	02/17/25 10:15	02/24/25	1	6010B	BB01586

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-104D F
ABB1146-02 (Water)

SVOC

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Acenaphthene	ND		0.0000811	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Acenaphthylene	ND		0.0000389	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Anthracene	ND		0.0000358	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Benzo(a)anthracene	ND		0.0000853	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Benzo(a)pyrene	ND		0.0000695	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Benzo(b)fluoranthene	ND		0.0000411	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Benzo(g,h,i)perylene	ND		0.0000484	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Benzo(k)fluoranthene	ND		0.0000505	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Chrysene	ND		0.0000379	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Dibenzo(a,h)anthracene	ND		0.0000495	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Fluoranthene	ND		0.0000368	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Fluorene	ND		0.0000368	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Indeno(1,2,3-cd)pyrene	ND		0.0000379	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Naphthalene	ND		0.0000505	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Phenanthrene	ND		0.0000884	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Pyrene	ND		0.0000905	0.000105	mg/L	02/17/25 10:32	02/21/25	1	8270C	BB01570
Surrogate: 2-Fluorobiphenyl			*65%*	*34-130*			*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5			*65%*	*39-144*			*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14			*16%*	*10-168*			*02/21/25*	*1*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0000860	0.000500	mg/L	02/17/25 10:32	03/11/25	1	7470A	BB02508

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - ICP

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aluminum	0.663		0.0170	0.200	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Antimony	ND		0.00480	0.0350	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Arsenic	0.00897	J	0.00560	0.0250	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Barium	0.0351	J	0.00270	0.250	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Beryllium	ND		0.000390	0.00500	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Cadmium	ND		0.000590	0.0100	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Calcium	53.6		0.355	5.00	mg/L	02/17/25 10:32	02/24/25	5	6010B	BB01586
Chromium	ND		0.00300	0.0250	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Cobalt	ND		0.000570	0.0500	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Copper	ND		0.00530	0.0500	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Iron	ND		0.0520	0.250	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Lead	ND		0.00130	0.0250	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Magnesium	0.933	J	0.0240	1.00	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Manganese	ND		0.00790	0.0250	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Nickel	ND		0.00390	0.0250	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Potassium	27.9		0.210	1.00	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-104D F (Continued)
ABB1146-02 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP (Continued)										
Selenium	ND		0.00570	0.0250	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Silver	ND		0.00210	0.0100	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Sodium	39.8		0.243	1.00	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Thallium	0.0101	J	0.00340	0.100	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Vanadium	0.00291	J	0.00120	0.0500	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586
Zinc	ND		0.0120	0.100	mg/L	02/17/25 10:32	02/24/25	1	6010B	BB01586

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results

(Continued)

Sample: MW-315

ABB1146-03 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
Acenaphthene	0.00826		0.0000770	0.000100	mg/L	02/17/25 11:15	02/21/25	1	8270C	BB01570
Acenaphthylene	0.000898		0.0000370	0.000100	mg/L	02/17/25 11:15	02/21/25	1	8270C	BB01570
Anthracene	0.0345		0.00170	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Benzo(a)anthracene	0.0608		0.00405	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Benzo(a)pyrene	0.0588		0.00330	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Benzo(b)fluoranthene	0.0549		0.00195	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Benzo(g,h,i)perylene	0.0313		0.00230	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Benzo(k)fluoranthene	0.0293		0.00240	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Chrysene	0.0489		0.00180	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Dibenzo(a,h)anthracene	0.00726		0.0000470	0.000100	mg/L	02/17/25 11:15	02/21/25	1	8270C	BB01570
Fluoranthene	0.141		0.00175	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Fluorene	0.0109		0.00175	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Indeno(1,2,3-cd)pyrene	0.0386		0.00180	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Naphthalene	0.0132		0.00240	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Phenanthrene	0.0862		0.00420	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Pyrene	0.0986		0.00430	0.00500	mg/L	02/17/25 11:15	02/24/25	50	8270C	BB01570
Surrogate: 2-Fluorobiphenyl			*65%*	*34-130*			*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5			*77%*	*39-144*			*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14			*35%*	*10-168*			*02/21/25*	*1*	*8270C*	
1,2,4-Trichlorobenzene	ND		0.00754	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
1,2-Dichlorobenzene	ND		0.0108	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
1,3-Dichlorobenzene	ND		0.00564	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
1,4-Dichlorobenzene	ND		0.00626	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
2,4,5-Trichlorophenol	ND		0.0144	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
2,4,6-Trichlorophenol	ND		0.0133	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
2,4-Dichlorophenol	ND		0.0138	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
2,4-Dimethylphenol	ND		0.0118	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
2,4-Dinitrophenol	ND		0.0267	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
2,4-Dinitrotoluene	ND		0.00338	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
2,6-Dinitrotoluene	ND		0.00287	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
2-Chloronaphthalene	ND		0.00256	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
2-Chlorophenol	ND		0.0149	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
2-Methylnaphthalene	0.00738	J	0.00328	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
2-Nitroaniline	ND		0.00677	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
2-Nitrophenol	ND		0.0149	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
3,3-Dichlorobenzidine	ND		0.00974	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
3-Nitroaniline	ND		0.00641	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
4,6-Dinitro-2-methylphenol	ND		0.0149	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
4-Bromophenyl phenyl ether	ND		0.00272	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
4-Chloro-3-methylphenol	ND		0.0138	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
4-Chloroaniline	ND		0.0159	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
4-Chlorophenyl phenyl ether	ND		0.00303	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
4-Nitroaniline	ND		0.00995	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
4-Nitrophenol	ND		0.0118	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Anthracene	0.0582		0.00354	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

Project: Pioneer Environmental - General
Project Number: 8080 S Lake Shore Dr -revised
Project Manager: Jake Hartsock

Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-315 (Continued)
ABB1146-03 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Bis(2-chloroethoxy)methane	ND		0.0103	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
bis(2-Chloroethyl)ether	ND		0.00923	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Bis(2-chloroisopropyl)ether	ND		0.00923	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Bis(2-ethylhexyl)phthalate	ND		0.0127	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Butyl benzyl phthalate	ND		0.0154	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Carbazole	0.0159		0.00421	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Chrysene	0.126		0.00359	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Dibenzofuran	0.0158		0.00221	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Diethyl phthalate	ND		0.0112	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Dimethyl phthalate	ND		0.0136	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Di-n-butyl phthalate	ND		0.00872	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Di-n-octyl phthalate	ND		0.0103	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Hexachlorobenzene	ND		0.00641	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Hexachlorobutadiene	ND		0.00692	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Hexachlorocyclopentadiene	ND		0.0108	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Hexachloroethane	ND		0.00626	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Isophorone	ND		0.00287	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
m,p-Cresol	ND		0.00256	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Nitrobenzene	ND		0.00682	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
N-Nitroso-di-n-propylamine	ND		0.00621	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
N-Nitrosodiphenylamine	ND		0.00492	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
O-Cresol	ND		0.00313	0.0103	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Pentachlorophenol	ND		0.0246	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Phenol	ND		0.00769	0.0513	mg/L	02/17/25 11:15	02/24/25	5	8270C	BB01603
Surrogate: 2,4,6-Tribromophenol	*51%*			*19-126*			*02/24/25*	*5*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*0%*	S,		*35-129*			*02/24/25*	*5*	*8270C*	
Surrogate: 2-Fluorophenol	*0%*	S,		*10-113*			*02/24/25*	*5*	*8270C*	
Surrogate: 4-Terphenyl-d14	*0%*	S,		*30-152*			*02/24/25*	*5*	*8270C*	
Surrogate: Nitrobenzene-d5	*0%*	S,		*27-150*			*02/24/25*	*5*	*8270C*	
Surrogate: Phenol-d5	*0%*	S,		*10-105*			*02/24/25*	*5*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	0.0000244	J	0.0000152	0.0000508	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
4,4´-DDE	ND		0.0000102	0.0000508	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
4,4´-DDT	0.0000212	J	0.0000152	0.0000508	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Aldrin	ND		0.00000914	0.0000254	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
alpha-BHC	ND		0.00000609	0.0000254	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
alpha-Chlordane	ND		0.00000508	0.0000254	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Endrin aldehyde	0.0000227	J	0.0000152	0.0000508	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
beta-BHC	0.0000191	J	0.00000711	0.0000254	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Chlordane, Technical	ND		0.000102	0.000102	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
delta-BHC	ND		0.00000711	0.0000254	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Dieldrin	0.0000505	J	0.0000132	0.0000508	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

Project: Pioneer Environmental - General
Project Number: 8080 S Lake Shore Dr -revised
Project Manager: Jake Hartsock

Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-315 (Continued)
ABB1146-03 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides (Continued)										
Endosulfan I	0.0000130	J	0.00000609	0.0000254	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Endosulfan II	0.0000215	J	0.0000152	0.0000508	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Endosulfan sulfate	0.0000549		0.0000152	0.0000508	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Endrin	0.0000226	J	0.0000152	0.0000508	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Endrin ketone	0.0000695		0.0000142	0.0000508	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
gamma-BHC	0.0000244	J	0.00000609	0.0000254	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
gamma-Chlordane	ND		0.0000102	0.0000254	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Heptachlor	ND		0.00000508	0.0000254	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Heptachlor epoxide	0.0000143	J	0.00000711	0.0000254	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Methoxychlor	ND		0.0000964	0.000254	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Toxaphene	ND		0.000112	0.000203	mg/L	02/17/25 11:15	02/24/25	1	8081	BB01521
Surrogate: Decachlorobiphenyl			*30%*	*20-120*			*02/24/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene			*36%*	*20-134*			*02/24/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - PCBs										
AROCLOR 1016	ND		0.0000370	0.000100	mg/L	02/17/25 11:15	02/24/25	1	8082	BB01521
AROCLOR 1221	ND		0.0000180	0.000100	mg/L	02/17/25 11:15	02/24/25	1	8082	BB01521
AROCLOR 1232	ND		0.0000240	0.000100	mg/L	02/17/25 11:15	02/24/25	1	8082	BB01521
AROCLOR 1242	ND		0.0000240	0.000100	mg/L	02/17/25 11:15	02/24/25	1	8082	BB01521
AROCLOR 1248	ND		0.0000290	0.000100	mg/L	02/17/25 11:15	02/24/25	1	8082	BB01521
AROCLOR 1254	ND		0.0000170	0.000100	mg/L	02/17/25 11:15	02/24/25	1	8082	BB01521
AROCLOR 1260	ND		0.0000250	0.000100	mg/L	02/17/25 11:15	02/24/25	1	8082	BB01521
AROCLOR 1262	ND		0.0000300	0.000100	mg/L	02/17/25 11:15	02/24/25	1	8082	BB01521
AROCLOR 1268	ND		0.0000230	0.000100	mg/L	02/17/25 11:15	02/24/25	1	8082	BB01521
Surrogate: Decachlorobiphenyl (DCB)			*32%*	*20-116*			*02/24/25*	*1*	*8082*	
Surrogate: TETRACHLORO-M-XYLENE			*49%*	*20-136*			*02/24/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA										
Mercury	0.000235	J	0.0000860	0.000500	mg/L	02/17/25 11:15	02/20/25	1	7470A	BB01401

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry										
Cyanide, Total	0.051		0.0020	0.0050	mg/L	02/17/25 11:15	02/19/25	1	4500-CN C-E	BB01412

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
1,4-Dioxane	ND	S,	0.100	0.100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-315 (Continued)
ABB1146-03 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)										
n-Butanol	ND	S,	0.100	0.100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
1,1,1-Trichloroethane	ND		0.000159	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
1,1,2,2-Tetrachloroethane	ND		0.000355	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
1,1,2-Trichloroethane	ND		0.000224	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
1,1-Dichloroethane	ND		0.000527	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
1,1-Dichloroethene	ND		0.000311	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
1,2-Dibromo-3-chloropropane	ND	S,	0.000417	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
1,2-Dibromoethane	ND		0.000229	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
1,2-Dichloroethane	ND		0.000185	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
1,2-Dichloropropane	ND		0.000210	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
2-Butanone	ND		0.00361	0.0100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
2-Hexanone	ND		0.00493	0.0250	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
4-Methyl-2-pentanone	ND		0.00213	0.0250	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Acetone	ND		0.00668	0.0250	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Benzene	ND		0.0000850	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Bromodichloromethane	ND		0.000320	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Bromoform	ND		0.000746	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Bromomethane	ND	S,	0.000862	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Carbon disulfide	ND		0.000674	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Carbon tetrachloride	ND		0.000393	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Chlorobenzene	ND		0.000146	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Chloroethane	ND		0.000950	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Chloroform	ND		0.000161	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Chloromethane	ND		0.000428	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
cis-1,2-Dichloroethene	ND		0.000241	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
cis-1,3-dichloropropene	ND		0.000343	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Dibromochloromethane	ND		0.000237	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Dichlorodifluoromethane	ND		0.000495	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Ethylbenzene	ND		0.000160	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Isopropylbenzene	ND		0.000402	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
m,p-Xylene	ND		0.000513	0.00200	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Methyl tert-butyl ether	ND		0.000434	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Methylene chloride	ND		0.000620	0.00500	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
o-Xylene	ND		0.000227	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Styrene	ND		0.000310	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Tetrachloroethene	ND		0.000849	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Toluene	ND		0.000220	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
trans-1,2-Dichloroethene	ND		0.000183	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
trans-1,3-dichloropropene	ND		0.000582	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Trichloroethene	ND		0.000246	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Trichlorofluoromethane	ND		0.000280	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Vinyl acetate	ND	S,	0.00293	0.0250	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Vinyl chloride	ND		0.000346	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	BB01834
Surrogate: 4-Bromofluorobenzene			*104%*	*76-119*			*02/19/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane			*104%*	*66-137*			*02/19/25*	*1*	*8260B*	

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-315 (Continued)
ABB1146-03 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)									
Surrogate: Toluene-d8	*100%*		*80-120*			*02/19/25*	*1*	*8260B*	
Total 1,3-Dichloropropene	ND	0.000343	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	[CALC]
Total Xylenes	ND	0.000227	0.00100	mg/L	02/17/25 11:15	02/19/25	1	8260B	[CALC]

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP									
Aluminum	15.5	0.850	10.0	mg/L	02/17/25 11:15	02/27/25	50	6010B	BB01586
Antimony	ND	0.00480	0.0350	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Arsenic	0.0129 J	0.00560	0.0250	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Barium	0.118 J	0.00270	0.250	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Beryllium	0.00104 J	0.000390	0.00500	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Cadmium	ND	0.000590	0.0100	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Calcium	157	0.355	5.00	mg/L	02/17/25 11:15	02/25/25	5	6010B	BB01586
Chromium	0.0244 J	0.00300	0.0250	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Cobalt	0.00477 J	0.000570	0.0500	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Copper	0.0338 J	0.00530	0.0500	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Iron	49.0	0.0520	0.250	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Lead	0.0834	0.00130	0.0250	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Magnesium	22.0	0.0240	1.00	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Manganese	1.88	0.00790	0.0250	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Nickel	0.0107 J	0.00390	0.0250	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Potassium	27.6	0.210	1.00	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Selenium	ND	0.00570	0.0250	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Silver	ND	0.00210	0.0100	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Sodium	32.8	0.243	1.00	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Thallium	0.0582 J	0.00340	0.100	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Vanadium	0.0197 J	0.00120	0.0500	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586
Zinc	0.192	0.0120	0.100	mg/L	02/17/25 11:15	02/24/25	1	6010B	BB01586

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

Project: Pioneer Environmental - General
Project Number: 8080 S Lake Shore Dr -revised
Project Manager: Jake Hartsock

Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-315 F
ABB1146-04 (Water)

SVOC

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Acenaphthene	0.000461		0.0000811	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Acenaphthylene	ND		0.0000389	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Anthracene	0.000337		0.0000358	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Benzo(a)anthracene	0.000857		0.0000853	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Benzo(a)pyrene	0.000794		0.0000695	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Benzo(b)fluoranthene	0.000727		0.0000411	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Benzo(g,h,i)perylene	0.000461		0.0000484	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Benzo(k)fluoranthene	0.000385		0.0000505	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Chrysene	0.000598		0.0000379	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Dibenzo(a,h)anthracene	0.000123		0.0000495	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Fluoranthene	0.00176		0.0000368	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Fluorene	0.000140		0.0000368	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Indeno(1,2,3-cd)pyrene	0.000578		0.0000379	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Naphthalene	0.00404		0.0000505	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Phenanthrene	0.00102		0.0000884	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Pyrene	0.00129		0.0000905	0.000105	mg/L	02/17/25 11:23	02/21/25	1	8270C	BB01570
Surrogate: 2-Fluorobiphenyl			*70%*	*34-130*			*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5			*71%*	*39-144*			*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14			*65%*	*10-168*			*02/21/25*	*1*	*8270C*	

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0000860	0.000500	mg/L	02/17/25 11:23	03/11/25	1	7470A	BB02508

Metals - ICP

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aluminum	0.0371	J	0.0170	0.200	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Antimony	ND		0.00480	0.0350	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Arsenic	ND		0.00560	0.0250	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Barium	0.0279	J	0.00270	0.250	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Beryllium	ND		0.000390	0.00500	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Cadmium	ND		0.000590	0.0100	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Calcium	70.3		0.355	5.00	mg/L	02/17/25 11:23	02/25/25	5	6010B	BB01586
Chromium	ND		0.00300	0.0250	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Cobalt	ND		0.000570	0.0500	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Copper	ND		0.00530	0.0500	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Iron	0.235	J	0.0520	0.250	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Lead	ND		0.00130	0.0250	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Magnesium	2.43		0.0240	1.00	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Manganese	0.118		0.00790	0.0250	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Nickel	ND		0.00390	0.0250	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Potassium	25.6		0.210	1.00	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-315 F (Continued)
ABB1146-04 (Water)

Metals - ICP (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Selenium	ND		0.00570	0.0250	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Silver	ND		0.00210	0.0100	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Sodium	32.3		0.243	1.00	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Thallium	0.0559	J	0.00340	0.100	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Vanadium	0.00182	J	0.00120	0.0500	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586
Zinc	ND		0.0120	0.100	mg/L	02/17/25 11:23	02/24/25	1	6010B	BB01586

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-314
ABB1146-05 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
Acenaphthene	ND	0.0000802	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Acenaphthylene	ND	0.0000385	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Anthracene	ND	0.0000354	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Benzo(a)anthracene	ND	0.0000844	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Benzo(a)pyrene	ND	0.0000688	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Benzo(b)fluoranthene	ND	0.0000406	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Benzo(g,h,i)perylene	ND	0.0000479	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Benzo(k)fluoranthene	ND	0.0000500	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Chrysene	ND	0.0000375	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Dibenzo(a,h)anthracene	ND	0.0000490	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Fluoranthene	0.0000412 J	0.0000365	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Fluorene	ND	0.0000365	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Indeno(1,2,3-cd)pyrene	ND	0.0000375	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Naphthalene	ND	0.0000500	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Phenanthrene	ND	0.0000875	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Pyrene	ND	0.0000896	0.000104	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01570
Surrogate: 2-Fluorobiphenyl		*74%*	*34-130*			*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5		*72%*	*39-144*			*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14		*52%*	*10-168*			*02/21/25*	*1*	*8270C*	
1,2,4-Trichlorobenzene	ND	0.00161	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
1,2-Dichlorobenzene	ND	0.00230	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
1,3-Dichlorobenzene	ND	0.00120	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
1,4-Dichlorobenzene	ND	0.00133	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
2,4,5-Trichlorophenol	ND	0.00306	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
2,4,6-Trichlorophenol	ND	0.00284	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
2,4-Dichlorophenol	ND	0.00295	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
2,4-Dimethylphenol	ND	0.00251	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
2,4-Dinitrophenol	ND	0.00568	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
2,4-Dinitrotoluene	ND	0.000721	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
2,6-Dinitrotoluene	ND	0.000612	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
2-Chloronaphthalene	ND	0.000546	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
2-Chlorophenol	ND	0.00317	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
2-Methylnaphthalene	ND	0.000699	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
2-Nitroaniline	ND	0.00144	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
2-Nitrophenol	ND	0.00317	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
3,3-Dichlorobenzidine	ND	0.00208	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
3-Nitroaniline	ND	0.00137	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
4,6-Dinitro-2-methylphenol	ND	0.00317	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
4-Bromophenyl phenyl ether	ND	0.000579	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
4-Chloro-3-methylphenol	ND	0.00295	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
4-Chloroaniline	ND	0.00339	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
4-Chlorophenyl phenyl ether	ND	0.000645	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
4-Nitroaniline	ND	0.00212	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
4-Nitrophenol	ND	0.00251	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Anthracene	ND	0.000754	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-314 (Continued)
ABB1146-05 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Bis(2-chloroethoxy)methane	ND		0.00219	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
bis(2-Chloroethyl)ether	ND		0.00197	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Bis(2-chloroisopropyl)ether	ND		0.00197	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Bis(2-ethylhexyl)phthalate	ND		0.00271	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Butyl benzyl phthalate	ND		0.00328	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Carbazole	ND		0.000896	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Chrysene	ND		0.000765	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Dibenzofuran	ND		0.000470	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Diethyl phthalate	ND		0.00239	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Dimethyl phthalate	ND	S,	0.00291	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Di-n-butyl phthalate	ND		0.00186	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Di-n-octyl phthalate	ND		0.00219	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Hexachlorobenzene	ND		0.00137	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Hexachlorobutadiene	ND		0.00148	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Hexachlorocyclopentadiene	ND		0.00230	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Hexachloroethane	ND		0.00133	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Isophorone	ND		0.000612	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
m,p-Cresol	ND		0.000546	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Nitrobenzene	ND		0.00145	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
N-Nitroso-di-n-propylamine	ND		0.00132	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
N-Nitrosodiphenylamine	ND		0.00105	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
O-Cresol	ND		0.000667	0.00219	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Pentachlorophenol	ND		0.00525	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Phenol	ND		0.00164	0.0109	mg/L	02/17/25 13:15	02/21/25	1	8270C	BB01603
Surrogate: 2,4,6-Tribromophenol	*50%*		*19-126*				*02/21/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*73%*		*35-129*				*02/21/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*37%*		*10-113*				*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*44%*		*30-152*				*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*73%*		*27-150*				*02/21/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*31%*		*10-105*				*02/21/25*	*1*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND		0.0000160	0.0000535	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
4,4´-DDE	ND		0.0000107	0.0000535	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
4,4´-DDT	ND		0.0000160	0.0000535	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Aldrin	ND		0.00000963	0.0000267	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
alpha-BHC	ND		0.00000642	0.0000267	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
alpha-Chlordane	ND		0.00000535	0.0000267	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Endrin aldehyde	ND		0.0000160	0.0000535	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
beta-BHC	ND		0.00000749	0.0000267	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Chlordane, Technical	ND		0.000107	0.000107	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
delta-BHC	ND		0.00000749	0.0000267	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Dieldrin	ND		0.0000139	0.0000535	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-314 (Continued)
ABB1146-05 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides (Continued)										
Endosulfan I	ND		0.00000642	0.0000267	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Endosulfan II	ND		0.0000160	0.0000535	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Endosulfan sulfate	ND		0.0000160	0.0000535	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Endrin	ND		0.0000160	0.0000535	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Endrin ketone	ND		0.0000150	0.0000535	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
gamma-BHC	ND		0.00000642	0.0000267	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
gamma-Chlordane	ND		0.0000107	0.0000267	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Heptachlor	ND		0.00000535	0.0000267	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Heptachlor epoxide	ND		0.00000749	0.0000267	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Methoxychlor	ND		0.000102	0.000267	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Toxaphene	ND		0.000118	0.000214	mg/L	02/17/25 13:15	02/24/25	1	8081	BB01521
Surrogate: Decachlorobiphenyl	*18%*	S	*20-120*				*02/24/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene	*45%*		*20-134*				*02/24/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - PCBs										
AROCLOR 1016	ND		0.0000370	0.000100	mg/L	02/17/25 13:15	02/24/25	1	8082	BB01521
AROCLOR 1221	ND		0.0000180	0.000100	mg/L	02/17/25 13:15	02/24/25	1	8082	BB01521
AROCLOR 1232	ND		0.0000240	0.000100	mg/L	02/17/25 13:15	02/24/25	1	8082	BB01521
AROCLOR 1242	ND		0.0000240	0.000100	mg/L	02/17/25 13:15	02/24/25	1	8082	BB01521
AROCLOR 1248	ND		0.0000290	0.000100	mg/L	02/17/25 13:15	02/24/25	1	8082	BB01521
AROCLOR 1254	ND		0.0000170	0.000100	mg/L	02/17/25 13:15	02/24/25	1	8082	BB01521
AROCLOR 1260	ND		0.0000250	0.000100	mg/L	02/17/25 13:15	02/24/25	1	8082	BB01521
AROCLOR 1262	ND		0.0000300	0.000100	mg/L	02/17/25 13:15	02/24/25	1	8082	BB01521
AROCLOR 1268	ND		0.0000230	0.000100	mg/L	02/17/25 13:15	02/24/25	1	8082	BB01521
Surrogate: Decachlorobiphenyl (DCB)	*18%*	S	*20-116*				*02/24/25*	*1*	*8082*	
Surrogate: TETRACHLORO-M-XYLENE	*55%*		*20-136*				*02/24/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA										
Mercury	ND		0.0000860	0.000500	mg/L	02/17/25 13:15	02/20/25	1	7470A	BB01401

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry										
Cyanide, Total	0.0091		0.0020	0.0050	mg/L	02/17/25 13:15	02/19/25	1	4500-CN C-E	BB01412

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
1,4-Dioxane	ND	S,	0.100	0.100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-314 (Continued)
ABB1146-05 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)									
n-Butanol	ND S,	0.100	0.100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
1,1,1-Trichloroethane	ND	0.000159	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
1,1,2,2-Tetrachloroethane	ND	0.000355	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
1,1,2-Trichloroethane	ND	0.000224	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
1,1-Dichloroethane	ND	0.000527	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
1,1-Dichloroethene	ND	0.000311	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
1,2-Dibromo-3-chloropropane	ND , S	0.000417	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
1,2-Dibromoethane	ND	0.000229	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
1,2-Dichloroethane	ND	0.000185	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
1,2-Dichloropropane	ND	0.000210	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
2-Butanone	ND	0.00361	0.0100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
2-Hexanone	ND	0.00493	0.0250	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
4-Methyl-2-pentanone	ND	0.00213	0.0250	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Acetone	ND	0.00668	0.0250	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Benzene	ND	0.0000850	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Bromodichloromethane	ND	0.000320	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Bromoform	ND	0.000746	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Bromomethane	ND S,	0.000862	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Carbon disulfide	ND	0.000674	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Carbon tetrachloride	ND	0.000393	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Chlorobenzene	ND	0.000146	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Chloroethane	ND	0.000950	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Chloroform	ND	0.000161	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Chloromethane	ND	0.000428	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
cis-1,2-Dichloroethene	ND	0.000241	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
cis-1,3-dichloropropene	ND	0.000343	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Dibromochloromethane	ND	0.000237	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Dichlorodifluoromethane	ND	0.000495	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Ethylbenzene	ND	0.000160	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Isopropylbenzene	ND	0.000402	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
m,p-Xylene	ND	0.000513	0.00200	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Methyl tert-butyl ether	ND	0.000434	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Methylene chloride	ND	0.000620	0.00500	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
o-Xylene	ND	0.000227	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Styrene	ND	0.000310	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Tetrachloroethene	ND	0.000849	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Toluene	ND	0.000220	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
trans-1,2-Dichloroethene	ND	0.000183	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
trans-1,3-dichloropropene	ND	0.000582	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Trichloroethene	ND	0.000246	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Trichlorofluoromethane	ND	0.000280	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Vinyl acetate	ND S,	0.00293	0.0250	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Vinyl chloride	ND	0.000346	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	BB01834
Surrogate: 4-Bromofluorobenzene		*104%*	*76-119*			*02/19/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane		*104%*	*66-137*			*02/19/25*	*1*	*8260B*	

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-314 (Continued)
ABB1146-05 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)									
Surrogate: Toluene-d8	*101%*		*80-120*			*02/19/25*	*1*	*8260B*	
Total 1,3-Dichloropropene	ND	0.000343	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	[CALC]
Total Xylenes	ND	0.000227	0.00100	mg/L	02/17/25 13:15	02/19/25	1	8260B	[CALC]

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP									
Aluminum	27.8	0.850	10.0	mg/L	02/17/25 13:15	02/27/25	50	6010B	BB01586
Antimony	0.00494 J	0.00480	0.0350	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Arsenic	0.0287	0.00560	0.0250	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Barium	0.163 J	0.00270	0.250	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Beryllium	0.00168 J	0.000390	0.00500	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Cadmium	ND	0.000590	0.0100	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Calcium	475	1.42	20.0	mg/L	02/17/25 13:15	02/25/25	20	6010B	BB01586
Chromium	0.0559	0.00300	0.0250	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Cobalt	0.0298 J	0.000570	0.0500	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Copper	0.132	0.00530	0.0500	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Iron	65.0	0.260	1.25	mg/L	02/17/25 13:15	02/25/25	5	6010B	BB01586
Lead	0.0883	0.00130	0.0250	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Magnesium	132	0.120	5.00	mg/L	02/17/25 13:15	02/25/25	5	6010B	BB01586
Manganese	1.69	0.00790	0.0250	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Nickel	0.0567	0.00390	0.0250	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Potassium	38.1	0.210	1.00	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Selenium	0.0347	0.00570	0.0250	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Silver	ND	0.00210	0.0100	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Sodium	412	4.86	20.0	mg/L	02/17/25 13:15	02/25/25	20	6010B	BB01586
Thallium	0.0842 J	0.00340	0.100	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Vanadium	0.0898	0.00120	0.0500	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586
Zinc	0.362	0.0120	0.100	mg/L	02/17/25 13:15	02/24/25	1	6010B	BB01586

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-314 F
ABB1146-06 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
Acenaphthene	ND		0.0000837	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Acenaphthylene	ND		0.0000402	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Anthracene	ND		0.0000370	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Benzo(a)anthracene	ND		0.0000880	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Benzo(a)pyrene	ND		0.0000717	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Benzo(b)fluoranthene	ND		0.0000424	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Benzo(g,h,i)perylene	ND		0.0000500	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Benzo(k)fluoranthene	ND		0.0000522	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Chrysene	ND		0.0000391	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Dibenzo(a,h)anthracene	ND		0.0000511	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Fluoranthene	ND		0.0000380	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Fluorene	ND		0.0000380	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Indeno(1,2,3-cd)pyrene	ND		0.0000391	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Naphthalene	ND		0.0000522	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Phenanthrene	ND		0.0000913	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Pyrene	ND		0.0000935	0.000109	mg/L	02/17/25 13:36	02/21/25	1	8270C	BB01570
Surrogate: 2-Fluorobiphenyl			*73%*	*34-130*			*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5			*70%*	*39-144*			*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14			*72%*	*10-168*			*02/21/25*	*1*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA										
Mercury	ND		0.0000860	0.000500	mg/L	02/17/25 13:36	03/11/25	1	7470A	BB02508

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP										
Aluminum	ND		0.0170	0.200	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Antimony	ND		0.00480	0.0350	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Arsenic	ND		0.00560	0.0250	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Barium	0.0516	J	0.00270	0.250	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Beryllium	ND		0.000390	0.00500	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Cadmium	ND		0.000590	0.0100	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Calcium	169		0.355	5.00	mg/L	02/17/25 13:36	02/25/25	5	6010B	BB01586
Chromium	ND		0.00300	0.0250	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Cobalt	ND		0.000570	0.0500	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Copper	ND		0.00530	0.0500	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Iron	0.196	J	0.0520	0.250	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Lead	ND		0.00130	0.0250	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Magnesium	9.77		0.0240	1.00	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Manganese	0.00978	J	0.00790	0.0250	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Nickel	ND		0.00390	0.0250	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Potassium	31.2		0.210	1.00	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-314 F (Continued)
ABB1146-06 (Water)

Metals - ICP (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Selenium	0.00773	J	0.00570	0.0250	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Silver	ND		0.00210	0.0100	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Sodium	415		4.86	20.0	mg/L	02/17/25 13:36	02/25/25	20	6010B	BB01586
Thallium	0.0819	J	0.00340	0.100	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Vanadium	0.00379	J	0.00120	0.0500	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586
Zinc	ND		0.0120	0.100	mg/L	02/17/25 13:36	02/24/25	1	6010B	BB01586

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2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results

(Continued)

Sample: MW-101

ABB1146-07 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
Acenaphthene	ND		0.0000802	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Acenaphthylene	ND		0.0000385	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Anthracene	ND		0.0000354	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Benzo(a)anthracene	ND		0.0000844	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Benzo(a)pyrene	ND		0.0000688	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Benzo(b)fluoranthene	ND		0.0000406	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Benzo(g,h,i)perylene	ND		0.0000479	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Benzo(k)fluoranthene	ND		0.0000500	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Chrysene	ND		0.0000375	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Dibenzo(a,h)anthracene	ND		0.0000490	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Fluoranthene	ND		0.0000365	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Fluorene	ND		0.0000365	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Indeno(1,2,3-cd)pyrene	ND		0.0000375	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Naphthalene	ND		0.0000500	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Phenanthrene	ND		0.0000875	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Pyrene	ND		0.0000896	0.000104	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01570
Surrogate: 2-Fluorobiphenyl			*69%*	*34-130*			*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5			*66%*	*39-144*			*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14			*52%*	*10-168*			*02/21/25*	*1*	*8270C*	
1,2,4-Trichlorobenzene	ND		0.00161	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
1,2-Dichlorobenzene	ND		0.00230	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
1,3-Dichlorobenzene	ND		0.00120	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
1,4-Dichlorobenzene	ND		0.00133	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
2,4,5-Trichlorophenol	ND		0.00306	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
2,4,6-Trichlorophenol	ND		0.00284	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
2,4-Dichlorophenol	ND		0.00295	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
2,4-Dimethylphenol	ND		0.00251	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
2,4-Dinitrophenol	ND		0.00568	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
2,4-Dinitrotoluene	ND		0.000721	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
2,6-Dinitrotoluene	ND		0.000612	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
2-Chloronaphthalene	ND		0.000546	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
2-Chlorophenol	ND		0.00317	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
2-Methylnaphthalene	ND		0.000699	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
2-Nitroaniline	ND		0.00144	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
2-Nitrophenol	ND		0.00317	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
3,3-Dichlorobenzidine	ND		0.00208	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
3-Nitroaniline	ND		0.00137	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
4,6-Dinitro-2-methylphenol	ND		0.00317	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
4-Bromophenyl phenyl ether	ND		0.000579	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
4-Chloro-3-methylphenol	ND		0.00295	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
4-Chloroaniline	ND		0.00339	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
4-Chlorophenyl phenyl ether	ND		0.000645	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
4-Nitroaniline	ND		0.00212	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
4-Nitrophenol	ND		0.00251	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Anthracene	ND		0.000754	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-101 (Continued)
ABB1146-07 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Bis(2-chloroethoxy)methane	ND		0.00219	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
bis(2-Chloroethyl)ether	ND		0.00197	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Bis(2-chloroisopropyl)ether	ND		0.00197	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Bis(2-ethylhexyl)phthalate	ND		0.00271	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Butyl benzyl phthalate	ND		0.00328	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Carbazole	ND		0.000896	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Chrysene	ND		0.000765	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Dibenzofuran	ND		0.000470	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Diethyl phthalate	ND		0.00239	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Dimethyl phthalate	ND	S,	0.00291	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Di-n-butyl phthalate	ND		0.00186	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Di-n-octyl phthalate	ND		0.00219	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Hexachlorobenzene	ND		0.00137	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Hexachlorobutadiene	ND		0.00148	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Hexachlorocyclopentadiene	ND		0.00230	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Hexachloroethane	ND		0.00133	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Isophorone	ND		0.000612	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
m,p-Cresol	ND		0.000546	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Nitrobenzene	ND		0.00145	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
N-Nitroso-di-n-propylamine	ND		0.00132	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
N-Nitrosodiphenylamine	ND		0.00105	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
O-Cresol	ND		0.000667	0.00219	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Pentachlorophenol	ND		0.00525	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Phenol	ND		0.00164	0.0109	mg/L	02/17/25 15:06	02/21/25	1	8270C	BB01603
Surrogate: 2,4,6-Tribromophenol	*78%*		*19-126*				*02/21/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl	*75%*		*35-129*				*02/21/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol	*43%*		*10-113*				*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14	*53%*		*30-152*				*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5	*75%*		*27-150*				*02/21/25*	*1*	*8270C*	
Surrogate: Phenol-d5	*31%*		*10-105*				*02/21/25*	*1*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND		0.0000159	0.0000529	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
4,4´-DDE	ND		0.0000106	0.0000529	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
4,4´-DDT	ND		0.0000159	0.0000529	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Aldrin	ND		0.00000952	0.0000265	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
alpha-BHC	ND		0.00000635	0.0000265	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
alpha-Chlordane	ND		0.00000529	0.0000265	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Endrin aldehyde	ND		0.0000159	0.0000529	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
beta-BHC	ND		0.00000741	0.0000265	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Chlordane, Technical	ND		0.000106	0.000106	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
delta-BHC	ND		0.00000741	0.0000265	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Dieldrin	ND		0.0000138	0.0000529	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521

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Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

Project: Pioneer Environmental - General
Project Number: 8080 S Lake Shore Dr -revised
Project Manager: Jake Hartsock

Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-101 (Continued)
ABB1146-07 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides (Continued)										
Endosulfan I	ND		0.00000635	0.0000265	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Endosulfan II	ND		0.0000159	0.0000529	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Endosulfan sulfate	ND		0.0000159	0.0000529	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Endrin	ND		0.0000159	0.0000529	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Endrin ketone	ND		0.0000148	0.0000529	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
gamma-BHC	ND		0.00000635	0.0000265	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
gamma-Chlordane	ND		0.0000106	0.0000265	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Heptachlor	ND		0.00000529	0.0000265	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Heptachlor epoxide	ND		0.00000741	0.0000265	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Methoxychlor	ND		0.000101	0.000265	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Toxaphene	ND		0.000116	0.000212	mg/L	02/17/25 15:06	02/24/25	1	8081	BB01521
Surrogate: Decachlorobiphenyl			*30%*	*20-120*			*02/24/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene			*70%*	*20-134*			*02/24/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - PCBs										
AROCLOR 1016	ND		0.0000370	0.000100	mg/L	02/17/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1221	ND		0.0000180	0.000100	mg/L	02/17/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1232	ND		0.0000240	0.000100	mg/L	02/17/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1242	ND		0.0000240	0.000100	mg/L	02/17/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1248	ND		0.0000290	0.000100	mg/L	02/17/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1254	ND		0.0000170	0.000100	mg/L	02/17/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1260	ND		0.0000250	0.000100	mg/L	02/17/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1262	ND		0.0000300	0.000100	mg/L	02/17/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1268	ND		0.0000230	0.000100	mg/L	02/17/25 15:06	02/24/25	1	8082	BB01521
Surrogate: Decachlorobiphenyl (DCB)			*33%*	*20-116*			*02/24/25*	*1*	*8082*	
Surrogate: TETRACHLORO-M-XYLENE			*77%*	*20-136*			*02/24/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA										
Mercury	ND		0.0000860	0.000500	mg/L	02/17/25 15:06	02/20/25	1	7470A	BB01401

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry										
Cyanide, Total	ND		0.0020	0.0050	mg/L	02/17/25 15:06	02/19/25	1	4500-CN C-E	BB01412

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
1,4-Dioxane	ND	S,	0.100	0.100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-101 (Continued)
ABB1146-07 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)										
n-Butanol	ND	S,	0.100	0.100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
1,1,1-Trichloroethane	ND		0.000159	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
1,1,2,2-Tetrachloroethane	ND		0.000355	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
1,1,2-Trichloroethane	ND		0.000224	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
1,1-Dichloroethane	ND		0.000527	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
1,1-Dichloroethene	ND		0.000311	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
1,2-Dibromo-3-chloropropane	ND	, S	0.000417	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
1,2-Dibromoethane	ND		0.000229	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
1,2-Dichloroethane	ND		0.000185	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
1,2-Dichloropropane	ND		0.000210	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
2-Butanone	ND		0.00361	0.0100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
2-Hexanone	ND		0.00493	0.0250	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
4-Methyl-2-pentanone	ND		0.00213	0.0250	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Acetone	ND		0.00668	0.0250	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Benzene	ND		0.0000850	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Bromodichloromethane	ND		0.000320	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Bromoform	ND		0.000746	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Bromomethane	ND	S,	0.000862	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Carbon disulfide	ND		0.000674	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Carbon tetrachloride	ND		0.000393	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Chlorobenzene	ND		0.000146	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Chloroethane	ND		0.000950	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Chloroform	ND		0.000161	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Chloromethane	ND		0.000428	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
cis-1,2-Dichloroethene	ND		0.000241	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
cis-1,3-dichloropropene	ND		0.000343	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Dibromochloromethane	ND		0.000237	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Dichlorodifluoromethane	ND		0.000495	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Ethylbenzene	ND		0.000160	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Isopropylbenzene	ND		0.000402	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
m,p-Xylene	ND		0.000513	0.00200	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Methyl tert-butyl ether	ND		0.000434	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Methylene chloride	ND		0.000620	0.00500	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
o-Xylene	ND		0.000227	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Styrene	ND		0.000310	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Tetrachloroethene	ND		0.000849	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Toluene	ND		0.000220	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
trans-1,2-Dichloroethene	ND		0.000183	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
trans-1,3-dichloropropene	ND		0.000582	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Trichloroethene	ND		0.000246	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Trichlorofluoromethane	ND		0.000280	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Vinyl acetate	ND	S,	0.00293	0.0250	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Vinyl chloride	ND		0.000346	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	BB01834
Surrogate: 4-Bromofluorobenzene			*104%*	*76-119*			*02/19/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane			*103%*	*66-137*			*02/19/25*	*1*	*8260B*	

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-101 (Continued)
ABB1146-07 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)									
Surrogate: Toluene-d8	*100%*		*80-120*			*02/19/25*	*1*	*8260B*	
Total 1,3-Dichloropropene	ND	0.000343	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	[CALC]
Total Xylenes	ND	0.000227	0.00100	mg/L	02/17/25 15:06	02/19/25	1	8260B	[CALC]

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP									
Aluminum	0.700	0.0170	0.200	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Antimony	ND	0.00480	0.0350	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Arsenic	ND	0.00560	0.0250	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Barium	0.0312 J	0.00270	0.250	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Beryllium	ND	0.000390	0.00500	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Cadmium	ND	0.000590	0.0100	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Calcium	143	0.355	5.00	mg/L	02/17/25 15:06	02/25/25	5	6010B	BB01586
Chromium	0.00315 J	0.00300	0.0250	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Cobalt	ND	0.000570	0.0500	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Copper	ND	0.00530	0.0500	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Iron	0.119 J	0.0520	0.250	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Lead	ND	0.00130	0.0250	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Magnesium	1.34	0.0240	1.00	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Manganese	0.00864 J	0.00790	0.0250	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Nickel	ND	0.00390	0.0250	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Potassium	19.3	0.210	1.00	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Selenium	0.00837 J	0.00570	0.0250	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Silver	ND	0.00210	0.0100	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Sodium	15.0	0.243	1.00	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Thallium	0.0737 J	0.00340	0.100	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Vanadium	0.00169 J	0.00120	0.0500	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586
Zinc	ND	0.0120	0.100	mg/L	02/17/25 15:06	02/24/25	1	6010B	BB01586

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

Project: Pioneer Environmental - General
Project Number: 8080 S Lake Shore Dr -revised
Project Manager: Jake Hartsock

Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-101 F
ABB1146-08 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC									
Acenaphthene	ND	0.0000828	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Acenaphthylene	ND	0.0000398	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Anthracene	ND	0.0000366	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Benzo(a)anthracene	ND	0.0000871	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Benzo(a)pyrene	ND	0.0000710	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Benzo(b)fluoranthene	ND	0.0000419	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Benzo(g,h,i)perylene	ND	0.0000495	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Benzo(k)fluoranthene	ND	0.0000516	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Chrysene	ND	0.0000387	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Dibenzo(a,h)anthracene	ND	0.0000505	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Fluoranthene	ND	0.0000376	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Fluorene	ND	0.0000376	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Indeno(1,2,3-cd)pyrene	ND	0.0000387	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Naphthalene	ND	0.0000516	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Phenanthrene	ND	0.0000903	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Pyrene	ND	0.0000925	0.000108	mg/L	02/17/25 15:15	02/22/25	1	8270C	BB01570
Surrogate: 2-Fluorobiphenyl		*75%*	*34-130*			*02/22/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5		*72%*	*39-144*			*02/22/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14		*54%*	*10-168*			*02/22/25*	*1*	*8270C*	

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA									
Mercury	ND	0.0000860	0.000500	mg/L	02/17/25 15:15	03/11/25	1	7470A	BB02508

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP									
Aluminum	0.388	0.0170	0.200	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Antimony	ND	0.00480	0.0350	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Arsenic	ND	0.00560	0.0250	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Barium	0.0281 J	0.00270	0.250	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Beryllium	ND	0.000390	0.00500	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Cadmium	ND	0.000590	0.0100	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Calcium	148	0.355	5.00	mg/L	02/17/25 15:15	02/25/25	5	6010B	BB01586
Chromium	ND	0.00300	0.0250	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Cobalt	ND	0.000570	0.0500	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Copper	ND	0.00530	0.0500	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Iron	ND	0.0520	0.250	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Lead	ND	0.00130	0.0250	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Magnesium	0.143 J	0.0240	1.00	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Manganese	ND	0.00790	0.0250	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Nickel	ND	0.00390	0.0250	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Potassium	18.9	0.210	1.00	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

Sample Results
(Continued)

Sample: MW-101 F (Continued)
ABB1146-08 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP (Continued)										
Selenium	0.00700	J	0.00570	0.0250	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Silver	ND		0.00210	0.0100	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Sodium	14.9		0.243	1.00	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Thallium	0.0722	J	0.00340	0.100	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Vanadium	0.00154	J	0.00120	0.0500	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586
Zinc	ND		0.0120	0.100	mg/L	02/17/25 15:15	02/24/25	1	6010B	BB01586

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Dr -revised	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:01

8260 SRP Package

8260 SRP

8720 SRP Package Water Only

8270 SRP	8270 PNA SIM

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METIRI

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134

CHAIN OF CUSTODY RECORD

Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

Page 1 of 1

Company Name	Pioneer
Company Address	2753 W. 31st St
City / State / Zip	Chicago / IL / 60605
Office / Mobile / Fax	
Email Address	jhartsock@pioneeresc.com
Project ID / Location	5050 S. Lake Shore Drive
Project Manager (Report to)	Jake Hartsock
Sample Collector(s)	J. David

TURNAROUND TIME REQUESTED

- [X] Normal
- [ ] RUSH*

* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.

Date and Time Report Needed:

Specify Regulatory Program: [ ] None/Info Only

- [ ] LUST
- [ ] SRP
- [ ] SDWA
- [ ] 503 Sludge
- [ ] NPDES
- [ ] MWRDGC
- [ ] Disposal
- [ ] CCDD
- [ ] OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

PO # 24-C124-103

Report Type [ ] Normal [ ] Special

* Additional charges apply for QC reports and raw data. Specify in comments section

Shipping Method

LAB USE ONLY

Work Order #

Temperature of Received Samples ° C

Received within 24 hours of collection? [ ] No [ ] Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TCL	PVAs	Metals	Lab Comment	LAB #
1	MW-104D	2/17/25	10:17 am	GW	G	7			X				
2	MW-104DF		10:32 am			2				X	X		
3	MW-315		11:17 am			7			X				
4	MW-315F		11:23 am			2				X	X		
5	MW-314		1:15 pm			7			X				
6	MW-314F		1:35 pm			2				X	X		
7	MW-101		3:04 pm			7			X				
8	MW-101F		3:17 pm			2				X	X		
9													
10													
11													
12													

ABB1146

Pioneer Environmental Services LLC

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

	Date		Date		Date		Date
1. Relinquished By	2/17/25	2. Relinquished By	2/18/25	3. Relinquished By		4. Relinquished By	
Received By [ ] Ice	Time 1:18 pm	Received By [ ] Ice	Time 3:50	Received By [ ] Ice	Time	Received By [ ] Ice	Time

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

SUBURBAN LABORATORIES
A METIRI GROUP COMPANY

1950 S Batavia Ave, Suite 150, Geneva, IL
60134 - Phone (800) 783-5227 -
www.metirigroup.com

March 12, 2025

Jake Hartsock
Pioneer Environmental Services LLC
2753 West 31st Street
Chicago, IL 60608

RE: 8080 S Lake Shore Drive
ABB1213

Metiri Analytical Group Inc, - Geneva received sample(s) on 02/19/2025 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Daniel Galeher
Project Manager

Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:06

Notes and Definitions

Item	Definition
J	Analyte detected below quantitation limit (QL)
S	Spike Recovery outside accepted recovery limits
U	Analyte included in the analysis, but not detected

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
-LA: Lab Accident - No valid data to report.
-VO: Insufficient Volume provided
-BR: Received broken
-IP: Invalid Sampling
-ND: Non-detect
-A: Absent

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater

Illinois Department of Public Health Accredited #17585

Illinois Environmental Protection Agency Accredited #100225

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:06

Analysis Case Narrative

8270:

Sample ABB1213-01: S=For Dimethyl phthalate, the Blank Spike percent recovery (9%) was outside laboratory control limits (10% - 105%).

8260:

The CCV in sequence SB00725 recovered outiside tihe contirol limitis for Bromometihan, Vinyl acetiate, n-Butianol, 1,4-Dioxane and 1,2-Dichloro-3-chloropropane . Corrective action: None, tihese compounds were noti detiectied in tihe associatied samples

Sample ABB1213-01: S=The Blank Spike exceeded tihe upper acceptiance limiti for n-Butianol and 1,4-Dioxane, resulting in a high bias. There were no detiectis in tihe sample

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
ABB1213-01	MW-106	Water	02/18/2025 15:06	02/19/2025
ABB1213-02	MW-106 F	Water	02/18/2025 15:30	02/19/2025

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:06

Sample Results

Sample: MW-106

ABB1213-01 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC										
Acenaphthene	ND		0.0000770	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Acenaphthylene	ND		0.0000370	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Anthracene	ND		0.0000340	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Benzo(a)anthracene	0.0000996	J	0.0000810	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Benzo(a)pyrene	0.000125		0.0000660	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Benzo(b)fluoranthene	0.000124		0.0000390	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Benzo(g,h,i)perylene	0.000101		0.0000460	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Benzo(k)fluoranthene	0.0000578	J	0.0000480	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Chrysene	0.0000893	J	0.0000360	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Dibenzo(a,h)anthracene	ND		0.0000470	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Fluoranthene	0.000191		0.0000350	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Fluorene	ND		0.0000350	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Indeno(1,2,3-cd)pyrene	0.0000968	J	0.0000360	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Naphthalene	ND		0.0000480	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Phenanthrene	0.0000893	J	0.0000840	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Pyrene	0.000160		0.0000860	0.000100	mg/L	02/18/25 15:06	02/22/25	1	8270C	BB01570
Surrogate: 2-Fluorobiphenyl			*63%*	*34-130*			*02/22/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5			*59%*	*39-144*			*02/22/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14			*53%*	*10-168*			*02/22/25*	*1*	*8270C*	
1,2,4-Trichlorobenzene	ND		0.00151	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
1,2-Dichlorobenzene	ND		0.00215	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
1,3-Dichlorobenzene	ND		0.00113	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
1,4-Dichlorobenzene	ND		0.00125	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
2,4,5-Trichlorophenol	ND		0.00287	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
2,4,6-Trichlorophenol	ND		0.00267	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
2,4-Dichlorophenol	ND		0.00277	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
2,4-Dimethylphenol	ND		0.00236	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
2,4-Dinitrophenol	ND		0.00533	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
2,4-Dinitrotoluene	ND		0.000677	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
2,6-Dinitrotoluene	ND		0.000574	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
2-Chloronaphthalene	ND		0.000513	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
2-Chlorophenol	ND		0.00297	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
2-Methylnaphthalene	ND		0.000656	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
2-Nitroaniline	ND		0.00135	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
2-Nitrophenol	ND		0.00297	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
3,3-Dichlorobenzidine	ND		0.00195	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
3-Nitroaniline	ND		0.00128	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
4,6-Dinitro-2-methylphenol	ND		0.00297	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
4-Bromophenyl phenyl ether	ND		0.000544	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
4-Chloro-3-methylphenol	ND		0.00277	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
4-Chloroaniline	ND		0.00318	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
4-Chlorophenyl phenyl ether	ND		0.000605	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
4-Nitroaniline	ND		0.00199	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
4-Nitrophenol	ND		0.00236	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Anthracene	ND		0.000708	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:06

Sample Results
(Continued)

Sample: MW-106 (Continued)
ABB1213-01 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
SVOC (Continued)										
Bis(2-chloroethoxy)methane	ND		0.00205	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
bis(2-Chloroethyl)ether	ND		0.00185	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Bis(2-chloroisopropyl)ether	ND		0.00185	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Bis(2-ethylhexyl)phthalate	ND		0.00254	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Butyl benzyl phthalate	ND		0.00308	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Carbazole	ND		0.000841	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Chrysene	ND		0.000718	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Dibenzofuran	ND		0.000441	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Diethyl phthalate	ND		0.00225	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Dimethyl phthalate	ND	S,	0.00273	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Di-n-butyl phthalate	ND		0.00174	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Di-n-octyl phthalate	ND		0.00205	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Hexachlorobenzene	ND		0.00128	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Hexachlorobutadiene	ND		0.00138	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Hexachlorocyclopentadiene	ND		0.00215	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Hexachloroethane	ND		0.00125	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Isophorone	ND		0.000574	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
m,p-Cresol	ND		0.000513	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Nitrobenzene	ND		0.00136	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
N-Nitroso-di-n-propylamine	ND		0.00124	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
N-Nitrosodiphenylamine	ND		0.000985	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
O-Cresol	ND		0.000626	0.00205	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Pentachlorophenol	ND		0.00492	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Phenol	ND		0.00154	0.0103	mg/L	02/18/25 15:06	02/21/25	1	8270C	BB01603
Surrogate: 2,4,6-Tribromophenol		*38%*		*19-126*			*02/21/25*	*1*	*8270C*	
Surrogate: 2-Fluorobiphenyl		*64%*		*35-129*			*02/21/25*	*1*	*8270C*	
Surrogate: 2-Fluorophenol		*29%*		*10-113*			*02/21/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14		*37%*		*30-152*			*02/21/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5		*66%*		*27-150*			*02/21/25*	*1*	*8270C*	
Surrogate: Phenol-d5		*22%*		*10-105*			*02/21/25*	*1*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides										
4,4´-DDD	ND		0.0000154	0.0000513	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
4,4´-DDE	ND		0.0000103	0.0000513	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
4,4´-DDT	ND		0.0000154	0.0000513	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Aldrin	ND		0.00000923	0.0000256	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
alpha-BHC	ND		0.00000615	0.0000256	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
alpha-Chlordane	ND		0.00000513	0.0000256	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Endrin aldehyde	ND		0.0000154	0.0000513	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
beta-BHC	ND		0.00000718	0.0000256	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Chlordane, Technical	ND		0.000103	0.000103	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
delta-BHC	ND		0.00000718	0.0000256	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Dieldrin	ND		0.0000133	0.0000513	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:06

Sample Results
(Continued)

Sample: MW-106 (Continued)
ABB1213-01 (Water)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - Pesticides (Continued)										
Endosulfan I	ND		0.00000615	0.0000256	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Endosulfan II	ND		0.0000154	0.0000513	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Endosulfan sulfate	ND		0.0000154	0.0000513	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Endrin	ND		0.0000154	0.0000513	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Endrin ketone	ND		0.0000144	0.0000513	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
gamma-BHC	ND		0.00000615	0.0000256	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
gamma-Chlordane	ND		0.0000103	0.0000256	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Heptachlor	ND		0.00000513	0.0000256	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Heptachlor epoxide	ND		0.00000718	0.0000256	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Methoxychlor	ND		0.0000974	0.000256	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Toxaphene	ND		0.000113	0.000205	mg/L	02/18/25 15:06	02/24/25	1	8081	BB01521
Surrogate: Decachlorobiphenyl			*36%*	*20-120*			*02/24/25*	*1*	*8081*	
Surrogate: Tetrachloro-m-xylene			*49%*	*20-134*			*02/24/25*	*1*	*8081*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Organics - PCBs										
AROCLOR 1016	ND		0.0000370	0.000100	mg/L	02/18/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1221	ND		0.0000180	0.000100	mg/L	02/18/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1232	ND		0.0000240	0.000100	mg/L	02/18/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1242	ND		0.0000240	0.000100	mg/L	02/18/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1248	ND		0.0000290	0.000100	mg/L	02/18/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1254	ND		0.0000170	0.000100	mg/L	02/18/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1260	ND		0.0000250	0.000100	mg/L	02/18/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1262	ND		0.0000300	0.000100	mg/L	02/18/25 15:06	02/24/25	1	8082	BB01521
AROCLOR 1268	ND		0.0000230	0.000100	mg/L	02/18/25 15:06	02/24/25	1	8082	BB01521
Surrogate: Decachlorobiphenyl (DCB)			*29%*	*20-116*			*02/24/25*	*1*	*8082*	
Surrogate: TETRACHLORO-M-XYLENE			*52%*	*20-136*			*02/24/25*	*1*	*8082*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - CVAA										
Mercury	0.000110	J	0.0000860	0.000500	mg/L	02/18/25 15:06	02/21/25	1	7470A	BB01520

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Wet Chemistry										
Cyanide, Total	ND		0.0020	0.0050	mg/L	02/18/25 15:06	02/24/25	1	4500-CN C-E	BB01649

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics										
1,4-Dioxane	ND	S,	0.100	0.100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:06

Sample Results
(Continued)

Sample: MW-106 (Continued)
ABB1213-01 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)									
n-Butanol	ND S,	0.100	0.100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
1,1,1-Trichloroethane	ND	0.000159	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
1,1,2,2-Tetrachloroethane	ND	0.000355	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
1,1,2-Trichloroethane	ND	0.000224	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
1,1-Dichloroethane	ND	0.000527	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
1,1-Dichloroethene	ND	0.000311	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
1,2-Dibromo-3-chloropropane	ND S,	0.000417	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
1,2-Dibromoethane	ND	0.000229	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
1,2-Dichloroethane	ND	0.000185	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
1,2-Dichloropropane	ND	0.000210	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
2-Butanone	ND	0.00361	0.0100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
2-Hexanone	ND	0.00493	0.0250	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
4-Methyl-2-pentanone	ND	0.00213	0.0250	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Acetone	ND	0.00668	0.0250	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Benzene	ND	0.0000850	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Bromodichloromethane	ND	0.000320	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Bromoform	ND	0.000746	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Bromomethane	ND S,	0.000862	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Carbon disulfide	ND	0.000674	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Carbon tetrachloride	ND	0.000393	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Chlorobenzene	ND	0.000146	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Chloroethane	ND	0.000950	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Chloroform	ND	0.000161	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Chloromethane	ND	0.000428	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
cis-1,2-Dichloroethene	ND	0.000241	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
cis-1,3-dichloropropene	ND	0.000343	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Dibromochloromethane	ND	0.000237	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Dichlorodifluoromethane	ND	0.000495	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Ethylbenzene	ND	0.000160	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Isopropylbenzene	ND	0.000402	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
m,p-Xylene	ND	0.000513	0.00200	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Methyl tert-butyl ether	ND	0.000434	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Methylene chloride	ND	0.000620	0.00500	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
o-Xylene	ND	0.000227	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Styrene	ND	0.000310	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Tetrachloroethene	ND	0.000849	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Toluene	ND	0.000220	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
trans-1,2-Dichloroethene	ND	0.000183	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
trans-1,3-dichloropropene	ND	0.000582	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Trichloroethene	ND	0.000246	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Trichlorofluoromethane	ND	0.000280	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Vinyl acetate	ND S,	0.00293	0.0250	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Vinyl chloride	ND	0.000346	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	BB01834
Surrogate: 4-Bromofluorobenzene		*103%*	*76-119*			*02/19/25*	*1*	*8260B*	
Surrogate: Dibromofluoromethane		*104%*	*66-137*			*02/19/25*	*1*	*8260B*	

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:06

Sample Results
(Continued)

Sample: MW-106 (Continued)
ABB1213-01 (Water)

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Volatile Organics (Continued)									
Surrogate: Toluene-d8	*100%*		*80-120*			*02/19/25*	*1*	*8260B*	
Total 1,3-Dichloropropene	ND	0.000343	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	[CALC]
Total Xylenes	ND	0.000227	0.00100	mg/L	02/18/25 15:06	02/19/25	1	8260B	[CALC]

Analyte	Result /Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Metals - ICP									
Aluminum	0.788	0.0170	0.200	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Antimony	ND	0.00480	0.0350	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Arsenic	ND	0.00560	0.0250	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Barium	0.113 J	0.00270	0.250	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Beryllium	ND	0.000390	0.00500	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Cadmium	ND	0.000590	0.0100	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Calcium	133	0.355	5.00	mg/L	02/18/25 15:06	02/25/25	5	6010B	BB01624
Chromium	0.00379 J	0.00300	0.0250	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Cobalt	0.000683 J	0.000570	0.0500	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Copper	0.00846 J	0.00530	0.0500	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Iron	2.91	0.0520	0.250	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Lead	0.00948 J	0.00130	0.0250	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Magnesium	34.2	0.0240	1.00	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Manganese	1.37	0.00790	0.0250	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Nickel	ND	0.00390	0.0250	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Potassium	46.7	0.210	1.00	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Selenium	ND	0.00570	0.0250	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Silver	ND	0.00210	0.0100	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Sodium	40.2	0.243	1.00	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Thallium	0.0315 J	0.00340	0.100	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Vanadium	0.00439 J	0.00120	0.0500	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624
Zinc	0.0301 J	0.0120	0.100	mg/L	02/18/25 15:06	02/24/25	1	6010B	BB01624

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:06

Sample Results
(Continued)

Sample: MW-106 F

ABB1213-02 (Water)

SVOC

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Acenaphthene	ND		0.0000828	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Acenaphthylene	ND		0.0000398	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Anthracene	ND		0.0000366	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Benzo(a)anthracene	ND		0.0000871	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Benzo(a)pyrene	ND		0.0000710	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Benzo(b)fluoranthene	ND		0.0000419	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Benzo(g,h,i)perylene	ND		0.0000495	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Benzo(k)fluoranthene	ND		0.0000516	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Chrysene	ND		0.0000387	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Dibenzo(a,h)anthracene	ND		0.0000505	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Fluoranthene	ND		0.0000376	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Fluorene	ND		0.0000376	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Indeno(1,2,3-cd)pyrene	ND		0.0000387	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Naphthalene	ND		0.0000516	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Phenanthrene	ND		0.0000903	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Pyrene	ND		0.0000925	0.000108	mg/L	02/18/25 15:30	02/22/25	1	8270C	BB01570
Surrogate: 2-Fluorobiphenyl			*69%*	*34-130*			*02/22/25*	*1*	*8270C*	
Surrogate: Nitrobenzene-d5			*65%*	*39-144*			*02/22/25*	*1*	*8270C*	
Surrogate: 4-Terphenyl-d14			*66%*	*10-168*			*02/22/25*	*1*	*8270C*	

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - CVAA

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Mercury	ND		0.0000860	0.000500	mg/L	02/18/25 15:30	02/21/25	1	7470A	BB01520

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch

Metals - ICP

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Aluminum	ND		0.0170	0.200	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Antimony	ND		0.00480	0.0350	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Arsenic	ND		0.00560	0.0250	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Barium	0.0889	J	0.00270	0.250	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Beryllium	ND		0.000390	0.00500	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Cadmium	ND		0.000590	0.0100	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Calcium	124		0.355	5.00	mg/L	02/18/25 15:30	02/25/25	5	6010B	BB01624
Chromium	ND		0.00300	0.0250	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Cobalt	ND		0.000570	0.0500	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Copper	ND		0.00530	0.0500	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Iron	ND		0.0520	0.250	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Lead	ND		0.00130	0.0250	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Magnesium	32.0		0.0240	1.00	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Manganese	1.25		0.00790	0.0250	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Nickel	ND		0.00390	0.0250	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Potassium	45.6		0.210	1.00	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624

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Metiri Group - Geneva - 1950 S Batavia Ave, Suite 150, Geneva, IL 60134

Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:06

Sample Results
(Continued)

Sample: MW-106 F (Continued)
ABB1213-02 (Water)

Metals - ICP (Continued)

Analyte	Result	/Qual	DL	RL	Units	Date Sampled	Date Analyzed	DF	Method	Prep Batch
Selenium	ND		0.00570	0.0250	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Silver	ND		0.00210	0.0100	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Sodium	39.7		0.243	1.00	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Thallium	0.0301	J	0.00340	0.100	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Vanadium	0.00134	J	0.00120	0.0500	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624
Zinc	ND		0.0120	0.100	mg/L	02/18/25 15:30	02/24/25	1	6010B	BB01624

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Pioneer Environmental Services LLC	Project: Pioneer Environmental - General	
2753 West 31st Street	Project Number: 8080 S Lake Shore Drive	
Chicago, IL 60608	Project Manager: Jake Hartsock	Reported: 03/12/2025 17:06

8260 SRP Package

8260 SRP

8720 SRP Package Water Only

8270 SRP	8270 PNA SIM

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METIRI

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134
Tel. (708) 544-3260 login@metirigroup.com www.metirigroup.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

Company Name: Pioneer
Company Address: 2753 W. 36th St.
City: Chicago State: IL Zip: 60608
Office: Mobile: Fax:
Email Address: jhartsock@pioneerees.com
Project ID / Location: 6060 S. Lake Shore Drive
Project Manager (Report to): Jake Hartsock
Sample Collector(s): J. David

TURNAROUND TIME REQUESTED
[X] Normal [ ] RUSH*
* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
Date and Time Report Needed:

Specify Regulatory Program: [ ] None/Info Only
[ ] LUST [ ] SRP [ ] SDWA
[ ] 503 Sludge [ ] NPDES [ ] MWRDGC
[ ] Disposal [ ] CCDD [ ] OTHER - Specify Below

PO # 24-0124-103
Report Type [ ] Normal [ ] Special
* Additional charges apply for QC reports and raw data. Specify in comments section
Shipping Method

LAB USE ONLY
Work Order #
Temperature of Received Samples ° C
Received within 24 hours of collection? [ ] No [ ] Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED: TCL PNAs Metals	Lab Comment	LAB #
1	MW-106	2/15/24	3:06pm	GW	G				X		
2	MW-106F	↓	3:30pm	↓	↓				XX		
3									⊗		
4											
5											
6											
7											
8											
9											
10											
11											
12											

ABB1213
Pioneer Environmental Services LLC

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaHS), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/19/24		2/19				
Received By	Time	Received By	Time	Received By	Time	Received By	Time
[ ] Ice	10:10	[ ] Ice	2:00	[ ] Ice		[ ] Ice	

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

Rev 2/17

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608

Generated 7/3/2025 3:59:15 PM Revision 1

JOB DESCRIPTION

8080 District (24-0124-103)

JOB NUMBER

500-265488-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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Revision 1

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-265488-1 — Eurofins Chicago

Job Narrative
500-265488-1

Revision
The report being provided is a revision of the original report sent on 3/31/2025. The report (revision 1) is being revised due to: The report and EDD have been revised to report total and dissolved carbazole for MW-315 per client request..

Receipt
The samples were received on 3/19/2025 4:14 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.4º C.

GC/MS Semi VOA
Method 8270E: The laboratory control sample duplicate (LCSD) for preparation batch 500-810666 and analytical batch 500-810735 recovered outside control limits for the following analytes: Benzo[a]anthracene, 4-Chloroaniline, 3,3'-Dichlorobenzidine, Hexachlorobutadiene, Phenol and Pyrene. All analytes were within the QC limits in the LCS; therefore, the data have been reported.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-810666 and analytical batch 500-810735 recovered outside control limits for the following analytes: Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]anthracene, Benzo[b]fluoranthene, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, bis(chloroisopropyl) ether, Bis(2-ethylhexyl) phthalate, 4-Bromophenyl phenyl ether, Butyl benzyl phthalate, 4-Chloroaniline, 4-Chloro-3-methylphenol, 2-Chloronaphthalene, 2-Chlorophenol, 4-Chlorophenyl phenyl ether, Chrysene, Dibenzofuran, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4-Dichlorophenol, Diethyl phthalate, Dimethyl phthalate, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Isophorone, 2-Methylnaphthalene, 2-Methylphenol, 3 & 4 Methylphenol, Naphthalene, 2-Nitroaniline, Nitrobenzene, 2-Nitrophenol, 4-Nitrophenol, N-Nitrosodi-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, 1,2,4-Trichlorobenzene, 2,4,5-Trichlorophenol and 2,4,6-Trichlorophenol.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-810735 was outside the method criteria for the following analyte(s): Di-n-octyl phthalate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-810828 was outside the method criteria for the following analyte(s): Di-n-octyl phthalate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-202 (500-265488-6). Elevated reporting limits (RLs) are provided.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: MW-202 (500-265488-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-810985 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-316 — Lab Sample ID: 500-265488-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.00096		0.00075		mg/L	1		8270E	Total/NA
Benzo[a]anthracene	0.0012		0.00012		mg/L	1		8270E	Total/NA
Benzo[a]pyrene	0.0013		0.00015		mg/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.0015		0.00015		mg/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	0.00086		0.00075		mg/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.00076		0.00015		mg/L	1		8270E	Total/NA
Chrysene	0.00090		0.00015		mg/L	1		8270E	Total/NA
Dibenz(a,h)anthracene	0.00030		0.00023		mg/L	1		8270E	Total/NA
Fluoranthene	0.0023		0.00075		mg/L	1		8270E	Total/NA
Fluorene	0.00078		0.00075		mg/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.0010		0.00015		mg/L	1		8270E	Total/NA
Phenanthrene	0.0017		0.00075		mg/L	1		8270E	Total/NA
Pyrene	0.0018		0.00075		mg/L	1		8270E	Total/NA

Client Sample ID: MW-314 — Lab Sample ID: 500-265488-2

No Detections.

Client Sample ID: MW-101 — Lab Sample ID: 500-265488-3

No Detections.

Client Sample ID: MW-315 — Lab Sample ID: 500-265488-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.00016		0.00013		mg/L	1		8270E	Total/NA
Naphthalene	0.00095		0.00079		mg/L	1		8270E	Total/NA
Phenanthrene	0.0012		0.00079		mg/L	1		8270E	Total/NA

Client Sample ID: MW-106 — Lab Sample ID: 500-265488-5

No Detections.

Client Sample ID: MW-202 — Lab Sample ID: 500-265488-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.86		0.016		mg/L	20		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Method	Method Description	Protocol	Laboratory
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-265488-1	MW-316	Water	03/17/25 07:57	03/19/25 16:14
500-265488-2	MW-314	Water	03/17/25 09:48	03/19/25 16:14
500-265488-3	MW-101	Water	03/17/25 13:35	03/19/25 16:14
500-265488-4	MW-315	Water	03/17/25 11:03	03/19/25 16:14
500-265488-5	MW-106	Water	03/18/25 13:40	03/19/25 16:14
500-265488-6	MW-202	Water	03/18/25 10:58	03/19/25 16:14

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-316
Lab Sample ID: 500-265488-1
Date Collected: 03/17/25 07:57
Matrix: Water
Date Received: 03/19/25 16:14

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00075		0.00075		mg/L		03/20/25 16:39	03/21/25 21:24	1
Acenaphthylene	<0.00075		0.00075		mg/L		03/20/25 16:39	03/21/25 21:24	1
Anthracene	**0.00096**		0.00075		mg/L		03/20/25 16:39	03/21/25 21:24	1
Benzo[a]anthracene	**0.0012**		0.00012		mg/L		03/20/25 16:39	03/21/25 21:24	1
Benzo[a]pyrene	**0.0013**		0.00015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Benzo[b]fluoranthene	**0.0015**		0.00015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Benzo[g,h,i]perylene	**0.00086**		0.00075		mg/L		03/20/25 16:39	03/21/25 21:24	1
Benzo[k]fluoranthene	**0.00076**		0.00015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Chrysene	**0.00090**		0.00015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Dibenz(a,h)anthracene	**0.00030**		0.00023		mg/L		03/20/25 16:39	03/21/25 21:24	1
Fluoranthene	**0.0023**		0.00075		mg/L		03/20/25 16:39	03/21/25 21:24	1
Fluorene	**0.00078**		0.00075		mg/L		03/20/25 16:39	03/21/25 21:24	1
Indeno[1,2,3-cd]pyrene	**0.0010**		0.00015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Naphthalene	<0.00075		0.00075		mg/L		03/20/25 16:39	03/21/25 21:24	1
Phenanthrene	**0.0017**		0.00075		mg/L		03/20/25 16:39	03/21/25 21:24	1
Pyrene	**0.0018**		0.00075		mg/L		03/20/25 16:39	03/21/25 21:24	1
1,2,4-Trichlorobenzene	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
1,2-Dichlorobenzene	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
1,3-Dichlorobenzene	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
1,4-Dichlorobenzene	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
2,4,5-Trichlorophenol	<0.0075		0.0075		mg/L		03/20/25 16:39	03/21/25 21:24	1
2,4,6-Trichlorophenol	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1
2,4-Dichlorophenol	<0.0075		0.0075		mg/L		03/20/25 16:39	03/21/25 21:24	1
2,4-Dimethylphenol	<0.0075		0.0075		mg/L		03/20/25 16:39	03/21/25 21:24	1
2,4-Dinitrophenol	<0.015		0.015		mg/L		03/20/25 16:39	03/21/25 21:24	1
2,4-Dinitrotoluene	<0.00075		0.00075		mg/L		03/20/25 16:39	03/21/25 21:24	1
2,6-Dinitrotoluene	<0.00075		0.00075		mg/L		03/20/25 16:39	03/21/25 21:24	1
2-Chloronaphthalene	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
2-Chlorophenol	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1
2-Methylnaphthalene	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
2-Methylphenol	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
2-Nitroaniline	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1
2-Nitrophenol	<0.0075		0.0075		mg/L		03/20/25 16:39	03/21/25 21:24	1
3,3'-Dichlorobenzidine	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1
3 & 4 Methylphenol	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
3-Nitroaniline	<0.0075		0.0075		mg/L		03/20/25 16:39	03/21/25 21:24	1
4,6-Dinitro-2-methylphenol	<0.015		0.015		mg/L		03/20/25 16:39	03/21/25 21:24	1
4-Bromophenyl phenyl ether	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1
4-Chloro-3-methylphenol	<0.0075		0.0075		mg/L		03/20/25 16:39	03/21/25 21:24	1
4-Chloroaniline	<0.0075		0.0075		mg/L		03/20/25 16:39	03/21/25 21:24	1
4-Chlorophenyl phenyl ether	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1
4-Nitroaniline	<0.0075		0.0075		mg/L		03/20/25 16:39	03/21/25 21:24	1
4-Nitrophenol	<0.015		0.015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Bis(2-chloroethoxy)methane	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Bis(2-chloroethyl)ether	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
bis(chloroisopropyl) ether	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Bis(2-ethylhexyl) phthalate	<0.0075		0.0075		mg/L		03/20/25 16:39	03/21/25 21:24	1
Butyl benzyl phthalate	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Carbazole	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-316
Lab Sample ID: 500-265488-1
Date Collected: 03/17/25 07:57
Matrix: Water
Date Received: 03/19/25 16:14

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Diethyl phthalate	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1
Dimethyl phthalate	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1
Di-n-butyl phthalate	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1
Di-n-octyl phthalate	<0.0075		0.0075		mg/L		03/20/25 16:39	03/21/25 21:24	1
Hexachlorobenzene	<0.00038		0.00038		mg/L		03/20/25 16:39	03/21/25 21:24	1
Hexachlorobutadiene	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1
Hexachlorocyclopentadiene	<0.015		0.015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Hexachloroethane	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1
Isophorone	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Nitrobenzene	<0.00075		0.00075		mg/L		03/20/25 16:39	03/21/25 21:24	1
N-Nitrosodi-n-propylamine	<0.00038		0.00038		mg/L		03/20/25 16:39	03/21/25 21:24	1
N-Nitrosodiphenylamine	<0.0015		0.0015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Pentachlorophenol	<0.015		0.015		mg/L		03/20/25 16:39	03/21/25 21:24	1
Phenol	<0.0038		0.0038		mg/L		03/20/25 16:39	03/21/25 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*99*		*40 - 145*	*03/20/25 16:39*	*03/21/25 21:24*	*1*
2-Fluorobiphenyl (Surr)	*81*		*34 - 110*	*03/20/25 16:39*	*03/21/25 21:24*	*1*
2-Fluorophenol (Surr)	*45*		*27 - 110*	*03/20/25 16:39*	*03/21/25 21:24*	*1*
Nitrobenzene-d5 (Surr)	*82*		*36 - 120*	*03/20/25 16:39*	*03/21/25 21:24*	*1*
Phenol-d5 (Surr)	*27*		*20 - 110*	*03/20/25 16:39*	*03/21/25 21:24*	*1*
Terphenyl-d14 (Surr)	*88*		*40 - 145*	*03/20/25 16:39*	*03/21/25 21:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00079	*1	0.00079		mg/L		03/20/25 14:55	03/21/25 16:48	1
Acenaphthylene	<0.00079	*1	0.00079		mg/L		03/20/25 14:55	03/21/25 16:48	1
Anthracene	<0.00079	*1	0.00079		mg/L		03/20/25 14:55	03/21/25 16:48	1
Benzo[a]anthracene	<0.00013	*- *1	0.00013		mg/L		03/20/25 14:55	03/21/25 16:48	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		03/20/25 14:55	03/21/25 16:48	1
Benzo[b]fluoranthene	<0.00016	*1	0.00016		mg/L		03/20/25 14:55	03/21/25 16:48	1
Benzo[g,h,i]perylene	<0.00079		0.00079		mg/L		03/20/25 14:55	03/21/25 16:48	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		03/20/25 14:55	03/21/25 16:48	1
Bis(2-chloroethoxy)methane	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
Bis(2-chloroethyl)ether	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
bis(chloroisopropyl) ether	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
Bis(2-ethylhexyl) phthalate	<0.0079		0.0079		mg/L		03/20/25 14:55	03/21/25 16:48	1
4-Bromophenyl phenyl ether	<0.0040	*1	0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1
Butyl benzyl phthalate	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
Carbazole	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1
4-Chloroaniline	<0.0079	*- *1	0.0079		mg/L		03/20/25 14:55	03/21/25 16:48	1
4-Chloro-3-methylphenol	<0.0079	*1	0.0079		mg/L		03/20/25 14:55	03/21/25 16:48	1
2-Chloronaphthalene	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
2-Chlorophenol	<0.0040	*1	0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1
4-Chlorophenyl phenyl ether	<0.0040	*1	0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1
Chrysene	<0.00016	*1	0.00016		mg/L		03/20/25 14:55	03/21/25 16:48	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		03/20/25 14:55	03/21/25 16:48	1
Dibenzofuran	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
1,2-Dichlorobenzene	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1

Client Sample ID: MW-316
Lab Sample ID: 500-265488-1
Date Collected: 03/17/25 07:57
Matrix: Water
Date Received: 03/19/25 16:14

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
1,4-Dichlorobenzene	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
3,3'-Dichlorobenzidine	<0.0040	*-	0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1
2,4-Dichlorophenol	<0.0079	*1	0.0079		mg/L		03/20/25 14:55	03/21/25 16:48	1
Diethyl phthalate	<0.0040	*1	0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1
2,4-Dimethylphenol	<0.0079		0.0079		mg/L		03/20/25 14:55	03/21/25 16:48	1
Dimethyl phthalate	<0.0040	*1	0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1
Di-n-butyl phthalate	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1
4,6-Dinitro-2-methylphenol	<0.016	*1	0.016		mg/L		03/20/25 14:55	03/21/25 16:48	1
2,4-Dinitrophenol	<0.016	*1	0.016		mg/L		03/20/25 14:55	03/21/25 16:48	1
2,4-Dinitrotoluene	<0.00079	*1	0.00079		mg/L		03/20/25 14:55	03/21/25 16:48	1
2,6-Dinitrotoluene	<0.00079	*1	0.00079		mg/L		03/20/25 14:55	03/21/25 16:48	1
Di-n-octyl phthalate	<0.0079		0.0079		mg/L		03/20/25 14:55	03/21/25 16:48	1
Fluoranthene	<0.00079	*1	0.00079		mg/L		03/20/25 14:55	03/21/25 16:48	1
Fluorene	<0.00079	*1	0.00079		mg/L		03/20/25 14:55	03/21/25 16:48	1
Hexachlorobenzene	<0.00040	*1	0.00040		mg/L		03/20/25 14:55	03/21/25 16:48	1
Hexachlorobutadiene	<0.0040	*- *1	0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1
Hexachlorocyclopentadiene	<0.016	*1	0.016		mg/L		03/20/25 14:55	03/21/25 16:48	1
Hexachloroethane	<0.0040	*1	0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		03/20/25 14:55	03/21/25 16:48	1
Isophorone	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
2-Methylnaphthalene	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
2-Methylphenol	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
3 & 4 Methylphenol	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
Naphthalene	<0.00079	*1	0.00079		mg/L		03/20/25 14:55	03/21/25 16:48	1
2-Nitroaniline	<0.0040	*1	0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1
3-Nitroaniline	<0.0079		0.0079		mg/L		03/20/25 14:55	03/21/25 16:48	1
4-Nitroaniline	<0.0079		0.0079		mg/L		03/20/25 14:55	03/21/25 16:48	1
Nitrobenzene	<0.00079	*1	0.00079		mg/L		03/20/25 14:55	03/21/25 16:48	1
2-Nitrophenol	<0.0079	*1	0.0079		mg/L		03/20/25 14:55	03/21/25 16:48	1
4-Nitrophenol	<0.016	*1	0.016		mg/L		03/20/25 14:55	03/21/25 16:48	1
N-Nitrosodi-n-propylamine	<0.00040	*1	0.00040		mg/L		03/20/25 14:55	03/21/25 16:48	1
N-Nitrosodiphenylamine	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
Pentachlorophenol	<0.016	*1	0.016		mg/L		03/20/25 14:55	03/21/25 16:48	1
Phenanthrene	<0.00079	*1	0.00079		mg/L		03/20/25 14:55	03/21/25 16:48	1
Phenol	<0.0040	*- *1	0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1
Pyrene	<0.00079	*- *1	0.00079		mg/L		03/20/25 14:55	03/21/25 16:48	1
1,2,4-Trichlorobenzene	<0.0016	*1	0.0016		mg/L		03/20/25 14:55	03/21/25 16:48	1
2,4,5-Trichlorophenol	<0.0079	*1	0.0079		mg/L		03/20/25 14:55	03/21/25 16:48	1
2,4,6-Trichlorophenol	<0.0040	*1	0.0040		mg/L		03/20/25 14:55	03/21/25 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*34 - 110*	*03/20/25 14:55*	*03/21/25 16:48*	*1*
2-Fluorophenol (Surr)	*38*		*27 - 110*	*03/20/25 14:55*	*03/21/25 16:48*	*1*
Nitrobenzene-d5 (Surr)	*60*		*36 - 120*	*03/20/25 14:55*	*03/21/25 16:48*	*1*
Phenol-d5 (Surr)	*26*		*20 - 110*	*03/20/25 14:55*	*03/21/25 16:48*	*1*
Terphenyl-d14 (Surr)	*72*		*40 - 145*	*03/20/25 14:55*	*03/21/25 16:48*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*40 - 145*	*03/20/25 14:55*	*03/21/25 16:48*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-314
Lab Sample ID: 500-265488-2
Date Collected: 03/17/25 09:48
Matrix: Water
Date Received: 03/19/25 16:14

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		03/20/25 08:02	03/20/25 16:54	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		03/20/25 08:02	03/20/25 17:19	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-101
Lab Sample ID: 500-265488-3
Date Collected: 03/17/25 13:35
Matrix: Water
Date Received: 03/19/25 16:14

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		03/20/25 08:02	03/20/25 17:07	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		03/20/25 08:02	03/20/25 17:22	1

Client Sample ID: MW-315
Date Collected: 03/17/25 11:03
Date Received: 03/19/25 16:14

Lab Sample ID: 500-265488-4
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00079		0.00079		mg/L		03/21/25 14:00	03/24/25 15:21	1
Acenaphthylene	<0.00079		0.00079		mg/L		03/21/25 14:00	03/24/25 15:21	1
Anthracene	<0.00079		0.00079		mg/L		03/21/25 14:00	03/24/25 15:21	1
Benzo[a]anthracene	**0.00016**		0.00013		mg/L		03/21/25 14:00	03/24/25 15:21	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		03/21/25 14:00	03/24/25 15:21	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		03/21/25 14:00	03/24/25 15:21	1
Benzo[g,h,i]perylene	<0.00079		0.00079		mg/L		03/21/25 14:00	03/24/25 15:21	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		03/21/25 14:00	03/24/25 15:21	1
Chrysene	<0.00016		0.00016		mg/L		03/21/25 14:00	03/24/25 15:21	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		03/21/25 14:00	03/24/25 15:21	1
Fluoranthene	<0.00079		0.00079		mg/L		03/21/25 14:00	03/24/25 15:21	1
Fluorene	<0.00079		0.00079		mg/L		03/21/25 14:00	03/24/25 15:21	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		03/21/25 14:00	03/24/25 15:21	1
Naphthalene	**0.00095**		0.00079		mg/L		03/21/25 14:00	03/24/25 15:21	1
Phenanthrene	**0.0012**		0.00079		mg/L		03/21/25 14:00	03/24/25 15:21	1
Pyrene	<0.00079		0.00079		mg/L		03/21/25 14:00	03/24/25 15:21	1
Carbazole	<0.0039		0.0039		mg/L		03/21/25 14:00	03/24/25 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*34 - 110*	*03/21/25 14:00*	*03/24/25 15:21*	*1*
Nitrobenzene-d5 (Surr)	*80*		*36 - 120*	*03/21/25 14:00*	*03/24/25 15:21*	*1*
Terphenyl-d14 (Surr)	*85*		*40 - 145*	*03/21/25 14:00*	*03/24/25 15:21*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00078	*1	0.00078		mg/L		03/20/25 14:55	03/21/25 17:13	1
Acenaphthylene	<0.00078	*1	0.00078		mg/L		03/20/25 14:55	03/21/25 17:13	1
Anthracene	<0.00078	*1	0.00078		mg/L		03/20/25 14:55	03/21/25 17:13	1
Benzo[a]anthracene	<0.00013	*- *1	0.00013		mg/L		03/20/25 14:55	03/21/25 17:13	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		03/20/25 14:55	03/21/25 17:13	1
Benzo[b]fluoranthene	<0.00016	*1	0.00016		mg/L		03/20/25 14:55	03/21/25 17:13	1
Benzo[g,h,i]perylene	<0.00078		0.00078		mg/L		03/20/25 14:55	03/21/25 17:13	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		03/20/25 14:55	03/21/25 17:13	1
Chrysene	<0.00016	*1	0.00016		mg/L		03/20/25 14:55	03/21/25 17:13	1
Dibenz(a,h)anthracene	<0.00023		0.00023		mg/L		03/20/25 14:55	03/21/25 17:13	1
Fluoranthene	<0.00078	*1	0.00078		mg/L		03/20/25 14:55	03/21/25 17:13	1
Fluorene	<0.00078	*1	0.00078		mg/L		03/20/25 14:55	03/21/25 17:13	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		03/20/25 14:55	03/21/25 17:13	1
Naphthalene	<0.00078	*1	0.00078		mg/L		03/20/25 14:55	03/21/25 17:13	1
Phenanthrene	<0.00078	*1	0.00078		mg/L		03/20/25 14:55	03/21/25 17:13	1
Pyrene	<0.00078	*- *1	0.00078		mg/L		03/20/25 14:55	03/21/25 17:13	1
Carbazole	<0.0039		0.0039		mg/L		03/20/25 14:55	03/21/25 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*	*03/20/25 14:55*	*03/21/25 17:13*	*1*
2-Fluorobiphenyl (Surr)	*67*		*34 - 110*	*03/20/25 14:55*	*03/21/25 17:13*	*1*
Terphenyl-d14 (Surr)	*82*		*40 - 145*	*03/20/25 14:55*	*03/21/25 17:13*	*1*

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-315
Lab Sample ID: 500-265488-4
Date Collected: 03/17/25 11:03
Matrix: Water
Date Received: 03/19/25 16:14

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		03/20/25 08:02	03/20/25 17:10	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		03/20/25 08:02	03/20/25 17:24	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-106
Lab Sample ID: 500-265488-5
Date Collected: 03/18/25 13:40
Matrix: Water
Date Received: 03/19/25 16:14

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		03/20/25 08:02	03/20/25 17:12	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		03/20/25 08:02	03/20/25 17:27	1

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-202
Lab Sample ID: 500-265488-6
Date Collected: 03/18/25 10:58
Matrix: Water
Date Received: 03/19/25 16:14

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.86		0.016		mg/L		03/20/25 16:39	03/24/25 23:17	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*34 - 110*	*03/20/25 16:39*	*03/24/25 23:17*	*20*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*36 - 120*	*03/20/25 16:39*	*03/24/25 23:17*	*20*
Terphenyl-d14 (Surr)	*0*	*S1-*	*40 - 145*	*03/20/25 16:39*	*03/24/25 23:17*	*20*

Definitions/Glossary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS Semi VOA

Prep Batch: 810666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265488-1	MW-316	Dissolved	Water	3510C	
500-265488-4	MW-315	Dissolved	Water	3510C	
MB 500-810666/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-810666/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-810666/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 810690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265488-1	MW-316	Total/NA	Water	3510C	
500-265488-6	MW-202	Total/NA	Water	3510C	
MB 500-810690/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-810690/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 810735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-810666/1-A	Method Blank	Total/NA	Water	8270E	810666
MB 500-810690/1-A	Method Blank	Total/NA	Water	8270E	810690
LCS 500-810666/2-A	Lab Control Sample	Total/NA	Water	8270E	810666
LCS 500-810690/2-A	Lab Control Sample	Total/NA	Water	8270E	810690
LCSD 500-810666/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	810666

Analysis Batch: 810828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265488-1	MW-316	Dissolved	Water	8270E	810666
500-265488-1	MW-316	Total/NA	Water	8270E	810690
500-265488-4	MW-315	Dissolved	Water	8270E	810666

Prep Batch: 810842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265488-4	MW-315	Total/NA	Water	3510C	
MB 500-810842/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-810842/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 810984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265488-6	MW-202	Total/NA	Water	8270E	810690

Analysis Batch: 810985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265488-4	MW-315	Total/NA	Water	8270E	810842
MB 500-810842/1-A	Method Blank	Total/NA	Water	8270E	810842
LCS 500-810842/2-A	Lab Control Sample	Total/NA	Water	8270E	810842

Metals

Prep Batch: 810562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265488-2	MW-314	Dissolved	Water	3005A	
500-265488-2	MW-314	Total Recoverable	Water	3005A	
500-265488-3	MW-101	Dissolved	Water	3005A	
500-265488-3	MW-101	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 810562 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265488-4	MW-315	Dissolved	Water	3005A	
500-265488-4	MW-315	Total Recoverable	Water	3005A	
500-265488-5	MW-106	Dissolved	Water	3005A	
500-265488-5	MW-106	Total Recoverable	Water	3005A	
MB 500-810562/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-810562/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-265488-2 MS	MW-314	Total Recoverable	Water	3005A	
500-265488-2 MSD	MW-314	Total Recoverable	Water	3005A	
500-265488-2 DU	MW-314	Total Recoverable	Water	3005A	

Analysis Batch: 810733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-265488-2	MW-314	Dissolved	Water	6020B	810562
500-265488-2	MW-314	Total Recoverable	Water	6020B	810562
500-265488-3	MW-101	Dissolved	Water	6020B	810562
500-265488-3	MW-101	Total Recoverable	Water	6020B	810562
500-265488-4	MW-315	Dissolved	Water	6020B	810562
500-265488-4	MW-315	Total Recoverable	Water	6020B	810562
500-265488-5	MW-106	Dissolved	Water	6020B	810562
500-265488-5	MW-106	Total Recoverable	Water	6020B	810562
MB 500-810562/1-A	Method Blank	Total Recoverable	Water	6020B	810562
LCS 500-810562/2-A	Lab Control Sample	Total Recoverable	Water	6020B	810562
500-265488-2 MS	MW-314	Total Recoverable	Water	6020B	810562
500-265488-2 MSD	MW-314	Total Recoverable	Water	6020B	810562
500-265488-2 DU	MW-314	Total Recoverable	Water	6020B	810562

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-110)	(40-145)
500-265488-1	MW-316	99	81	45	82	27	88
500-265488-4	MW-315		71		80		85
500-265488-6	MW-202		0 S1-		0 S1-		0 S1-
LCS 500-810666/2-A	Lab Control Sample	92	72	53	75	37	84
LCS 500-810690/2-A	Lab Control Sample	101	77	52	80	37	91
LCS 500-810842/2-A	Lab Control Sample		74		78		87
LCSD 500-810666/3-A	Lab Control Sample Dup	80	60	42	64	30	75
MB 500-810666/1-A	Method Blank	88	64	50	74	36	80
MB 500-810690/1-A	Method Blank	94	71	48	78	34	88
MB 500-810842/1-A	Method Blank		71		82		86

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(34-110)	(27-110)	(36-120)	(20-110)	(40-145)	(40-145)
500-265488-1	MW-316	58	38	60	26	72	72
500-265488-4	MW-315	67		68		82	

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-810666/1-A
Matrix: Water
Analysis Batch: 810735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 810666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		03/20/25 14:55	03/21/25 11:33	1
Acenaphthylene	<0.00080		0.00080		mg/L		03/20/25 14:55	03/21/25 11:33	1
Anthracene	<0.00080		0.00080		mg/L		03/20/25 14:55	03/21/25 11:33	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		03/20/25 14:55	03/21/25 11:33	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		03/20/25 14:55	03/21/25 11:33	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		03/20/25 14:55	03/21/25 11:33	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		03/20/25 14:55	03/21/25 11:33	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		03/20/25 14:55	03/21/25 11:33	1
Chrysene	<0.00016		0.00016		mg/L		03/20/25 14:55	03/21/25 11:33	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		03/20/25 14:55	03/21/25 11:33	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
2,4-Dichlorophenol	<0.0080		0.0080		mg/L		03/20/25 14:55	03/21/25 11:33	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
2,4-Dimethylphenol	<0.0080		0.0080		mg/L		03/20/25 14:55	03/21/25 11:33	1
2-Chlorophenol	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		03/20/25 14:55	03/21/25 11:33	1
2,4-Dinitrotoluene	<0.00080		0.00080		mg/L		03/20/25 14:55	03/21/25 11:33	1
2,6-Dinitrotoluene	<0.00080		0.00080		mg/L		03/20/25 14:55	03/21/25 11:33	1
3,3'-Dichlorobenzidine	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1
Fluoranthene	<0.00080		0.00080		mg/L		03/20/25 14:55	03/21/25 11:33	1
Fluorene	<0.00080		0.00080		mg/L		03/20/25 14:55	03/21/25 11:33	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		03/20/25 14:55	03/21/25 11:33	1
4-Bromophenyl phenyl ether	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1
4-Chloro-3-methylphenol	<0.0080		0.0080		mg/L		03/20/25 14:55	03/21/25 11:33	1
4-Chloroaniline	<0.0080		0.0080		mg/L		03/20/25 14:55	03/21/25 11:33	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		03/20/25 14:55	03/21/25 11:33	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
2-Methylphenol	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
3 & 4 Methylphenol	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080		mg/L		03/20/25 14:55	03/21/25 11:33	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
Naphthalene	<0.00080		0.00080		mg/L		03/20/25 14:55	03/21/25 11:33	1
2-Nitroaniline	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1
3-Nitroaniline	<0.0080		0.0080		mg/L		03/20/25 14:55	03/21/25 11:33	1
Dibenzofuran	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
4-Nitroaniline	<0.0080		0.0080		mg/L		03/20/25 14:55	03/21/25 11:33	1
Diethyl phthalate	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1
Dimethyl phthalate	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1
Di-n-butyl phthalate	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1
2-Nitrophenol	<0.0080		0.0080		mg/L		03/20/25 14:55	03/21/25 11:33	1
Di-n-octyl phthalate	<0.0080		0.0080		mg/L		03/20/25 14:55	03/21/25 11:33	1
4-Nitrophenol	<0.016		0.016		mg/L		03/20/25 14:55	03/21/25 11:33	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-810666/1-A
Matrix: Water
Analysis Batch: 810735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 810666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<0.00040		0.00040		mg/L		03/20/25 14:55	03/21/25 11:33	1
Hexachlorobutadiene	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		03/20/25 14:55	03/21/25 11:33	1
Hexachloroethane	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1
Isophorone	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
Phenanthrene	<0.00080		0.00080		mg/L		03/20/25 14:55	03/21/25 11:33	1
Nitrobenzene	<0.00080		0.00080		mg/L		03/20/25 14:55	03/21/25 11:33	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040		mg/L		03/20/25 14:55	03/21/25 11:33	1
Pyrene	<0.00080		0.00080		mg/L		03/20/25 14:55	03/21/25 11:33	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
Pentachlorophenol	<0.016		0.016		mg/L		03/20/25 14:55	03/21/25 11:33	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		03/20/25 14:55	03/21/25 11:33	1
Phenol	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1
2,4,5-Trichlorophenol	<0.0080		0.0080		mg/L		03/20/25 14:55	03/21/25 11:33	1
2,4,6-Trichlorophenol	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1
Carbazole	<0.0040		0.0040		mg/L		03/20/25 14:55	03/21/25 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*34 - 110*	*03/20/25 14:55*	*03/21/25 11:33*	*1*
2-Fluorophenol (Surr)	*50*		*27 - 110*	*03/20/25 14:55*	*03/21/25 11:33*	*1*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*	*03/20/25 14:55*	*03/21/25 11:33*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*40 - 145*	*03/20/25 14:55*	*03/21/25 11:33*	*1*
Phenol-d5 (Surr)	*36*		*20 - 110*	*03/20/25 14:55*	*03/21/25 11:33*	*1*
Terphenyl-d14 (Surr)	*80*		*40 - 145*	*03/20/25 14:55*	*03/21/25 11:33*	*1*

Lab Sample ID: LCS 500-810666/2-A
Matrix: Water
Analysis Batch: 810735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 810666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0296		mg/L		74	46 - 110
Acenaphthylene	0.0400	0.0304		mg/L		76	47 - 113
Anthracene	0.0400	0.0353		mg/L		88	67 - 118
Benzo[a]anthracene	0.0400	0.0333		mg/L		83	70 - 126
Benzo[a]pyrene	0.0400	0.0369		mg/L		92	70 - 135
Benzo[b]fluoranthene	0.0400	0.0373		mg/L		93	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0359		mg/L		90	70 - 135
Benzo[k]fluoranthene	0.0400	0.0362		mg/L		91	70 - 133
Chrysene	0.0400	0.0335		mg/L		84	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0377		mg/L		94	70 - 134
1,2-Dichlorobenzene	0.0400	0.0211		mg/L		53	26 - 110
1,3-Dichlorobenzene	0.0400	0.0187		mg/L		47	22 - 110
1,4-Dichlorobenzene	0.0400	0.0195		mg/L		49	23 - 110
2,4-Dichlorophenol	0.0400	0.0324		mg/L		81	58 - 120
2-Chloronaphthalene	0.0400	0.0266		mg/L		66	39 - 110
2,4-Dimethylphenol	0.0400	0.0292		mg/L		73	51 - 115
2-Chlorophenol	0.0400	0.0298		mg/L		75	59 - 110
2,4-Dinitrophenol	0.0800	0.0812		mg/L		102	37 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-810666/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 810735
Prep Batch: 810666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	0.0400	0.0382		mg/L		96	63 - 129
2,6-Dinitrotoluene	0.0400	0.0364		mg/L		91	63 - 129
3,3'-Dichlorobenzidine	0.0400	0.0252		mg/L		63	60 - 132
Fluoranthene	0.0400	0.0387		mg/L		97	68 - 126
Fluorene	0.0400	0.0335		mg/L		84	53 - 120
4,6-Dinitro-2-methylphenol	0.0800	0.0881		mg/L		110	50 - 129
4-Bromophenyl phenyl ether	0.0400	0.0328		mg/L		82	58 - 120
4-Chloro-3-methylphenol	0.0400	0.0346		mg/L		87	64 - 128
4-Chloroaniline	0.0400	0.0142		mg/L		36	35 - 128
4-Chlorophenyl phenyl ether	0.0400	0.0318		mg/L		80	48 - 116
Indeno[1,2,3-cd]pyrene	0.0400	0.0369		mg/L		92	65 - 133
Bis(2-chloroethoxy)methane	0.0400	0.0314		mg/L		79	59 - 118
2-Methylnaphthalene	0.0400	0.0261		mg/L		65	34 - 110
Bis(2-chloroethyl)ether	0.0400	0.0291		mg/L		73	54 - 112
2-Methylphenol	0.0400	0.0302		mg/L		75	53 - 115
bis(chloroisopropyl) ether	0.0400	0.0298		mg/L		74	38 - 140
3 & 4 Methylphenol	0.0400	0.0277		mg/L		69	50 - 116
Bis(2-ethylhexyl) phthalate	0.0400	0.0375		mg/L		94	69 - 136
Butyl benzyl phthalate	0.0400	0.0361		mg/L		90	68 - 135
Naphthalene	0.0400	0.0259		mg/L		65	36 - 110
2-Nitroaniline	0.0400	0.0350		mg/L		87	59 - 138
3-Nitroaniline	0.0400	0.0272		mg/L		68	47 - 123
Dibenzofuran	0.0400	0.0318		mg/L		80	51 - 110
4-Nitroaniline	0.0400	0.0339		mg/L		85	35 - 110
Diethyl phthalate	0.0400	0.0366		mg/L		92	62 - 123
Dimethyl phthalate	0.0400	0.0352		mg/L		88	63 - 122
Di-n-butyl phthalate	0.0400	0.0366		mg/L		92	69 - 129
2-Nitrophenol	0.0400	0.0326		mg/L		81	59 - 115
Di-n-octyl phthalate	0.0400	0.0430		mg/L		108	68 - 137
4-Nitrophenol	0.0800	0.0452		mg/L		57	20 - 110
Hexachlorobenzene	0.0400	0.0330		mg/L		82	61 - 126
Hexachlorobutadiene	0.0400	0.0120		mg/L		30	20 - 100
Hexachlorocyclopentadiene	0.0400	0.0142	J	mg/L		35	10 - 105
Hexachloroethane	0.0400	0.0142		mg/L		35	20 - 100
Isophorone	0.0400	0.0329		mg/L		82	54 - 127
Phenanthrene	0.0400	0.0355		mg/L		89	65 - 120
Nitrobenzene	0.0400	0.0303		mg/L		76	54 - 121
N-Nitrosodi-n-propylamine	0.0400	0.0337		mg/L		84	47 - 131
Pyrene	0.0400	0.0333		mg/L		83	70 - 126
N-Nitrosodiphenylamine	0.0400	0.0340		mg/L		85	66 - 120
Pentachlorophenol	0.0800	0.0757		mg/L		95	42 - 148
1,2,4-Trichlorobenzene	0.0400	0.0211		mg/L		53	26 - 110
Phenol	0.0400	0.0162		mg/L		41	33 - 100
2,4,5-Trichlorophenol	0.0400	0.0353		mg/L		88	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0335		mg/L		84	62 - 121
Carbazole	0.0400	0.0377		mg/L		94	61 - 145

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-810666/2-A
Matrix: Water
Analysis Batch: 810735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 810666

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*34 - 110*
2-Fluorophenol (Surr)	*53*		*27 - 110*
Nitrobenzene-d5 (Surr)	*75*		*36 - 120*
2,4,6-Tribromophenol (Surr)	*92*		*40 - 145*
Phenol-d5 (Surr)	*37*		*20 - 110*
Terphenyl-d14 (Surr)	*84*		*40 - 145*

Lab Sample ID: LCSD 500-810666/3-A
Matrix: Water
Analysis Batch: 810735

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 810666

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			0.0400	0.0228	*1	mg/L		57	46 - 110	26	20
Acenaphthylene			0.0400	0.0232	*1	mg/L		58	47 - 113	27	20
Anthracene			0.0400	0.0286	*1	mg/L		72	67 - 118	21	20
Benzo[a]anthracene			0.0400	0.0269	*- *1	mg/L		67	70 - 126	21	20
Benzo[a]pyrene			0.0400	0.0311		mg/L		78	70 - 135	17	20
Benzo[b]fluoranthene			0.0400	0.0295	*1	mg/L		74	69 - 136	23	20
Benzo[g,h,i]perylene			0.0400	0.0293		mg/L		73	70 - 135	20	20
Benzo[k]fluoranthene			0.0400	0.0313		mg/L		78	70 - 133	15	20
Chrysene			0.0400	0.0272	*1	mg/L		68	68 - 129	21	20
Dibenz(a,h)anthracene			0.0400	0.0314		mg/L		78	70 - 134	18	20
1,2-Dichlorobenzene			0.0400	0.0149	*1	mg/L		37	26 - 110	35	20
1,3-Dichlorobenzene			0.0400	0.0130	*1	mg/L		32	22 - 110	36	20
1,4-Dichlorobenzene			0.0400	0.0137	*1	mg/L		34	23 - 110	35	20
2,4-Dichlorophenol			0.0400	0.0258	*1	mg/L		65	58 - 120	23	20
2-Chloronaphthalene			0.0400	0.0199	*1	mg/L		50	39 - 110	29	20
2,4-Dimethylphenol			0.0400	0.0252		mg/L		63	51 - 115	14	20
2-Chlorophenol			0.0400	0.0237	*1	mg/L		59	59 - 110	23	20
2,4-Dinitrophenol			0.0800	0.0649	*1	mg/L		81	37 - 130	22	20
2,4-Dinitrotoluene			0.0400	0.0309	*1	mg/L		77	63 - 129	21	20
2,6-Dinitrotoluene			0.0400	0.0291	*1	mg/L		73	63 - 129	22	20
3,3'-Dichlorobenzidine			0.0400	0.0220	*-	mg/L		55	60 - 132	14	20
Fluoranthene			0.0400	0.0311	*1	mg/L		78	68 - 126	22	20
Fluorene			0.0400	0.0263	*1	mg/L		66	53 - 120	24	20
4,6-Dinitro-2-methylphenol			0.0800	0.0709	*1	mg/L		89	50 - 129	22	20
4-Bromophenyl phenyl ether			0.0400	0.0265	*1	mg/L		66	58 - 120	21	20
4-Chloro-3-methylphenol			0.0400	0.0278	*1	mg/L		70	64 - 128	22	20
4-Chloroaniline			0.0400	0.0109	*- *1	mg/L		27	35 - 128	23	20
4-Chlorophenyl phenyl ether			0.0400	0.0247	*1	mg/L		62	48 - 116	25	20
Indeno[1,2,3-cd]pyrene			0.0400	0.0312		mg/L		78	65 - 133	17	20
Bis(2-chloroethoxy)methane			0.0400	0.0245	*1	mg/L		61	59 - 118	25	20
2-Methylnaphthalene			0.0400	0.0188	*1	mg/L		47	34 - 110	32	20
Bis(2-chloroethyl)ether			0.0400	0.0225	*1	mg/L		56	54 - 112	26	20
2-Methylphenol			0.0400	0.0230	*1	mg/L		58	53 - 115	27	20
bis(chloroisopropyl) ether			0.0400	0.0225	*1	mg/L		56	38 - 140	28	20
3 & 4 Methylphenol			0.0400	0.0220	*1	mg/L		55	50 - 116	23	20
Bis(2-ethylhexyl) phthalate			0.0400	0.0316		mg/L		79	69 - 136	17	20

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-810666/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 810735
Prep Batch: 810666

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Butyl benzyl phthalate			0.0400	0.0293	*1	mg/L		73	68 - 135	21	20
Naphthalene			0.0400	0.0186	*1	mg/L		47	36 - 110	33	20
2-Nitroaniline			0.0400	0.0271	*1	mg/L		68	59 - 138	25	20
3-Nitroaniline			0.0400	0.0250		mg/L		62	47 - 123	8	20
Dibenzofuran			0.0400	0.0243	*1	mg/L		61	51 - 110	27	20
4-Nitroaniline			0.0400	0.0291		mg/L		73	35 - 110	15	20
Diethyl phthalate			0.0400	0.0298	*1	mg/L		74	62 - 123	21	20
Dimethyl phthalate			0.0400	0.0286	*1	mg/L		71	63 - 122	21	20
Di-n-butyl phthalate			0.0400	0.0304		mg/L		76	69 - 129	18	20
2-Nitrophenol			0.0400	0.0253	*1	mg/L		63	59 - 115	25	20
Di-n-octyl phthalate			0.0400	0.0371		mg/L		93	68 - 137	15	20
4-Nitrophenol			0.0800	0.0319	*1	mg/L		40	20 - 110	35	20
Hexachlorobenzene			0.0400	0.0268	*1	mg/L		67	61 - 126	21	20
Hexachlorobutadiene			0.0400	0.00774	*- *1	mg/L		19	20 - 100	43	20
Hexachlorocyclopentadiene			0.0400	0.00978	J *1	mg/L		24	10 - 105	37	20
Hexachloroethane			0.0400	0.00985	*1	mg/L		25	20 - 100	36	20
Isophorone			0.0400	0.0262	*1	mg/L		66	54 - 127	23	20
Phenanthrene			0.0400	0.0278	*1	mg/L		69	65 - 120	24	20
Nitrobenzene			0.0400	0.0233	*1	mg/L		58	54 - 121	26	20
N-Nitrosodi-n-propylamine			0.0400	0.0269	*1	mg/L		67	47 - 131	23	20
Pyrene			0.0400	0.0269	*- *1	mg/L		67	70 - 126	21	20
N-Nitrosodiphenylamine			0.0400	0.0274	*1	mg/L		69	66 - 120	21	20
Pentachlorophenol			0.0800	0.0615	*1	mg/L		77	42 - 148	21	20
1,2,4-Trichlorobenzene			0.0400	0.0149	*1	mg/L		37	26 - 110	35	20
Phenol			0.0400	0.0125	*- *1	mg/L		31	33 - 100	26	20
2,4,5-Trichlorophenol			0.0400	0.0282	*1	mg/L		70	63 - 124	22	20
2,4,6-Trichlorophenol			0.0400	0.0272	*1	mg/L		68	62 - 121	21	20
Carbazole			0.0400	0.0307		mg/L		77	61 - 145	20	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*60*		*34 - 110*
2-Fluorophenol (Surr)	*42*		*27 - 110*
Nitrobenzene-d5 (Surr)	*64*		*36 - 120*
2,4,6-Tribromophenol (Surr)	*80*		*40 - 145*
Phenol-d5 (Surr)	*30*		*20 - 110*
Terphenyl-d14 (Surr)	*75*		*40 - 145*

Lab Sample ID: MB 500-810690/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 810735
Prep Batch: 810690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		03/20/25 16:39	03/21/25 10:43	1
Acenaphthylene	<0.00080		0.00080		mg/L		03/20/25 16:39	03/21/25 10:43	1
Anthracene	<0.00080		0.00080		mg/L		03/20/25 16:39	03/21/25 10:43	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		03/20/25 16:39	03/21/25 10:43	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		03/20/25 16:39	03/21/25 10:43	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		03/20/25 16:39	03/21/25 10:43	1

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 District (24-0124-103)

Job ID: 500-265488-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-810690/1-A
Matrix: Water
Analysis Batch: 810735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 810690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		03/20/25 16:39	03/21/25 10:43	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		03/20/25 16:39	03/21/25 10:43	1
Chrysene	<0.00016		0.00016		mg/L		03/20/25 16:39	03/21/25 10:43	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		03/20/25 16:39	03/21/25 10:43	1
1,2-Dichlorobenzene	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
1,3-Dichlorobenzene	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
1,4-Dichlorobenzene	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
2,4-Dichlorophenol	<0.0080		0.0080		mg/L		03/20/25 16:39	03/21/25 10:43	1
2-Chloronaphthalene	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
2,4-Dimethylphenol	<0.0080		0.0080		mg/L		03/20/25 16:39	03/21/25 10:43	1
2-Chlorophenol	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1
2,4-Dinitrophenol	<0.016		0.016		mg/L		03/20/25 16:39	03/21/25 10:43	1
2,4-Dinitrotoluene	<0.00080		0.00080		mg/L		03/20/25 16:39	03/21/25 10:43	1
2,6-Dinitrotoluene	<0.00080		0.00080		mg/L		03/20/25 16:39	03/21/25 10:43	1
3,3'-Dichlorobenzidine	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1
Fluoranthene	<0.00080		0.00080		mg/L		03/20/25 16:39	03/21/25 10:43	1
Fluorene	<0.00080		0.00080		mg/L		03/20/25 16:39	03/21/25 10:43	1
4,6-Dinitro-2-methylphenol	<0.016		0.016		mg/L		03/20/25 16:39	03/21/25 10:43	1
4-Bromophenyl phenyl ether	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1
4-Chloro-3-methylphenol	<0.0080		0.0080		mg/L		03/20/25 16:39	03/21/25 10:43	1
4-Chloroaniline	<0.0080		0.0080		mg/L		03/20/25 16:39	03/21/25 10:43	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		03/20/25 16:39	03/21/25 10:43	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
2-Methylnaphthalene	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
Bis(2-chloroethyl)ether	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
2-Methylphenol	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
bis(chloroisopropyl) ether	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
3 & 4 Methylphenol	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080		mg/L		03/20/25 16:39	03/21/25 10:43	1
Butyl benzyl phthalate	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
Naphthalene	<0.00080		0.00080		mg/L		03/20/25 16:39	03/21/25 10:43	1
2-Nitroaniline	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1
3-Nitroaniline	<0.0080		0.0080		mg/L		03/20/25 16:39	03/21/25 10:43	1
Dibenzofuran	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
4-Nitroaniline	<0.0080		0.0080		mg/L		03/20/25 16:39	03/21/25 10:43	1
Diethyl phthalate	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1
Dimethyl phthalate	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1
Di-n-butyl phthalate	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1
2-Nitrophenol	<0.0080		0.0080		mg/L		03/20/25 16:39	03/21/25 10:43	1
Di-n-octyl phthalate	<0.0080		0.0080		mg/L		03/20/25 16:39	03/21/25 10:43	1
4-Nitrophenol	<0.016		0.016		mg/L		03/20/25 16:39	03/21/25 10:43	1
Hexachlorobenzene	<0.00040		0.00040		mg/L		03/20/25 16:39	03/21/25 10:43	1
Hexachlorobutadiene	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		03/20/25 16:39	03/21/25 10:43	1
Hexachloroethane	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1
Isophorone	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
Phenanthrene	<0.00080		0.00080		mg/L		03/20/25 16:39	03/21/25 10:43	1
Nitrobenzene	<0.00080		0.00080		mg/L		03/20/25 16:39	03/21/25 10:43	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-810690/1-A
Matrix: Water
Analysis Batch: 810735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 810690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.00040		0.00040		mg/L		03/20/25 16:39	03/21/25 10:43	1
Pyrene	<0.00080		0.00080		mg/L		03/20/25 16:39	03/21/25 10:43	1
N-Nitrosodiphenylamine	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
Pentachlorophenol	<0.016		0.016		mg/L		03/20/25 16:39	03/21/25 10:43	1
1,2,4-Trichlorobenzene	<0.0016		0.0016		mg/L		03/20/25 16:39	03/21/25 10:43	1
Phenol	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1
2,4,5-Trichlorophenol	<0.0080		0.0080		mg/L		03/20/25 16:39	03/21/25 10:43	1
2,4,6-Trichlorophenol	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1
Carbazole	<0.0040		0.0040		mg/L		03/20/25 16:39	03/21/25 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*34 - 110*	*03/20/25 16:39*	*03/21/25 10:43*	*1*
2-Fluorophenol (Surr)	*48*		*27 - 110*	*03/20/25 16:39*	*03/21/25 10:43*	*1*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*	*03/20/25 16:39*	*03/21/25 10:43*	*1*
2,4,6-Tribromophenol (Surr)	*94*		*40 - 145*	*03/20/25 16:39*	*03/21/25 10:43*	*1*
Phenol-d5 (Surr)	*34*		*20 - 110*	*03/20/25 16:39*	*03/21/25 10:43*	*1*
Terphenyl-d14 (Surr)	*88*		*40 - 145*	*03/20/25 16:39*	*03/21/25 10:43*	*1*

Lab Sample ID: LCS 500-810690/2-A
Matrix: Water
Analysis Batch: 810735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 810690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0262		mg/L		65	46 - 110
Acenaphthylene	0.0400	0.0268		mg/L		67	47 - 113
Anthracene	0.0400	0.0353		mg/L		88	67 - 118
Benzo[a]anthracene	0.0400	0.0327		mg/L		82	70 - 126
Benzo[a]pyrene	0.0400	0.0372		mg/L		93	70 - 135
Benzo[b]fluoranthene	0.0400	0.0365		mg/L		91	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0355		mg/L		89	70 - 135
Benzo[k]fluoranthene	0.0400	0.0369		mg/L		92	70 - 133
Chrysene	0.0400	0.0328		mg/L		82	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0379		mg/L		95	70 - 134
1,2-Dichlorobenzene	0.0400	0.0182		mg/L		45	26 - 110
1,3-Dichlorobenzene	0.0400	0.0176		mg/L		44	22 - 110
1,4-Dichlorobenzene	0.0400	0.0173		mg/L		43	23 - 110
2,4-Dichlorophenol	0.0400	0.0322		mg/L		81	58 - 120
2-Chloronaphthalene	0.0400	0.0218		mg/L		55	39 - 110
2,4-Dimethylphenol	0.0400	0.0301		mg/L		75	51 - 115
2-Chlorophenol	0.0400	0.0283		mg/L		71	59 - 110
2,4-Dinitrophenol	0.0800	0.0824		mg/L		103	37 - 130
2,4-Dinitrotoluene	0.0400	0.0385		mg/L		96	63 - 129
2,6-Dinitrotoluene	0.0400	0.0361		mg/L		90	63 - 129
3,3'-Dichlorobenzidine	0.0400	0.0303		mg/L		76	60 - 132
Fluoranthene	0.0400	0.0376		mg/L		94	68 - 126
Fluorene	0.0400	0.0318		mg/L		79	53 - 120
4,6-Dinitro-2-methylphenol	0.0800	0.0886		mg/L		111	50 - 129
4-Bromophenyl phenyl ether	0.0400	0.0320		mg/L		80	58 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-810690/2-A
Matrix: Water
Analysis Batch: 810735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 810690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloro-3-methylphenol	0.0400	0.0354		mg/L		88	64 - 128
4-Chloroaniline	0.0400	0.0250		mg/L		63	35 - 128
4-Chlorophenyl phenyl ether	0.0400	0.0297		mg/L		74	48 - 116
Indeno[1,2,3-cd]pyrene	0.0400	0.0376		mg/L		94	65 - 133
Bis(2-chloroethoxy)methane	0.0400	0.0304		mg/L		76	59 - 118
2-Methylnaphthalene	0.0400	0.0210		mg/L		52	34 - 110
Bis(2-chloroethyl)ether	0.0400	0.0276		mg/L		69	54 - 112
2-Methylphenol	0.0400	0.0297		mg/L		74	53 - 115
bis(chloroisopropyl) ether	0.0400	0.0256		mg/L		64	38 - 140
3 & 4 Methylphenol	0.0400	0.0272		mg/L		68	50 - 116
Bis(2-ethylhexyl) phthalate	0.0400	0.0381		mg/L		95	69 - 136
Butyl benzyl phthalate	0.0400	0.0349		mg/L		87	68 - 135
Naphthalene	0.0400	0.0204		mg/L		51	36 - 110
2-Nitroaniline	0.0400	0.0356		mg/L		89	59 - 138
3-Nitroaniline	0.0400	0.0324		mg/L		81	47 - 123
Dibenzofuran	0.0400	0.0292		mg/L		73	51 - 110
4-Nitroaniline	0.0400	0.0371		mg/L		93	35 - 110
Diethyl phthalate	0.0400	0.0372		mg/L		93	62 - 123
Dimethyl phthalate	0.0400	0.0362		mg/L		91	63 - 122
Di-n-butyl phthalate	0.0400	0.0367		mg/L		92	69 - 129
2-Nitrophenol	0.0400	0.0308		mg/L		77	59 - 115
Di-n-octyl phthalate	0.0400	0.0430		mg/L		107	68 - 137
4-Nitrophenol	0.0800	0.0412		mg/L		51	20 - 110
Hexachlorobenzene	0.0400	0.0336		mg/L		84	61 - 126
Hexachlorobutadiene	0.0400	0.0171		mg/L		43	20 - 100
Hexachlorocyclopentadiene	0.0400	0.0167		mg/L		42	10 - 105
Hexachloroethane	0.0400	0.0162		mg/L		40	20 - 100
Isophorone	0.0400	0.0332		mg/L		83	54 - 127
Phenanthrene	0.0400	0.0343		mg/L		86	65 - 120
Nitrobenzene	0.0400	0.0285		mg/L		71	54 - 121
N-Nitrosodi-n-propylamine	0.0400	0.0334		mg/L		83	47 - 131
Pyrene	0.0400	0.0326		mg/L		81	70 - 126
N-Nitrosodiphenylamine	0.0400	0.0338		mg/L		84	66 - 120
Pentachlorophenol	0.0800	0.0782		mg/L		98	42 - 148
1,2,4-Trichlorobenzene	0.0400	0.0181		mg/L		45	26 - 110
Phenol	0.0400	0.0156		mg/L		39	33 - 100
2,4,5-Trichlorophenol	0.0400	0.0357		mg/L		89	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0348		mg/L		87	62 - 121
Carbazole	0.0400	0.0373		mg/L		93	61 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*34 - 110*
2-Fluorophenol (Surr)	*52*		*27 - 110*
Nitrobenzene-d5 (Surr)	*80*		*36 - 120*
2,4,6-Tribromophenol (Surr)	*101*		*40 - 145*
Phenol-d5 (Surr)	*37*		*20 - 110*
Terphenyl-d14 (Surr)	*91*		*40 - 145*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-810842/1-A
Matrix: Water
Analysis Batch: 810985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 810842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00080		0.00080		mg/L		03/21/25 14:00	03/24/25 14:38	1
Acenaphthylene	<0.00080		0.00080		mg/L		03/21/25 14:00	03/24/25 14:38	1
Anthracene	<0.00080		0.00080		mg/L		03/21/25 14:00	03/24/25 14:38	1
Benzo[a]anthracene	<0.00013		0.00013		mg/L		03/21/25 14:00	03/24/25 14:38	1
Benzo[a]pyrene	<0.00016		0.00016		mg/L		03/21/25 14:00	03/24/25 14:38	1
Benzo[b]fluoranthene	<0.00016		0.00016		mg/L		03/21/25 14:00	03/24/25 14:38	1
Benzo[g,h,i]perylene	<0.00080		0.00080		mg/L		03/21/25 14:00	03/24/25 14:38	1
Benzo[k]fluoranthene	<0.00016		0.00016		mg/L		03/21/25 14:00	03/24/25 14:38	1
Chrysene	<0.00016		0.00016		mg/L		03/21/25 14:00	03/24/25 14:38	1
Dibenz(a,h)anthracene	<0.00024		0.00024		mg/L		03/21/25 14:00	03/24/25 14:38	1
Fluoranthene	<0.00080		0.00080		mg/L		03/21/25 14:00	03/24/25 14:38	1
Fluorene	<0.00080		0.00080		mg/L		03/21/25 14:00	03/24/25 14:38	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016		mg/L		03/21/25 14:00	03/24/25 14:38	1
Naphthalene	<0.00080		0.00080		mg/L		03/21/25 14:00	03/24/25 14:38	1
Phenanthrene	<0.00080		0.00080		mg/L		03/21/25 14:00	03/24/25 14:38	1
Pyrene	<0.00080		0.00080		mg/L		03/21/25 14:00	03/24/25 14:38	1
Carbazole	<0.0040		0.0040		mg/L		03/21/25 14:00	03/24/25 14:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*34 - 110*	*03/21/25 14:00*	*03/24/25 14:38*	*1*
Nitrobenzene-d5 (Surr)	*82*		*36 - 120*	*03/21/25 14:00*	*03/24/25 14:38*	*1*
Terphenyl-d14 (Surr)	*86*		*40 - 145*	*03/21/25 14:00*	*03/24/25 14:38*	*1*

Lab Sample ID: LCS 500-810842/2-A
Matrix: Water
Analysis Batch: 810985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 810842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.0299		mg/L		75	46 - 110
Acenaphthylene	0.0400	0.0291		mg/L		73	47 - 113
Anthracene	0.0400	0.0335		mg/L		84	67 - 118
Benzo[a]anthracene	0.0400	0.0320		mg/L		80	70 - 126
Benzo[a]pyrene	0.0400	0.0376		mg/L		94	70 - 135
Benzo[b]fluoranthene	0.0400	0.0362		mg/L		90	69 - 136
Benzo[g,h,i]perylene	0.0400	0.0336		mg/L		84	70 - 135
Benzo[k]fluoranthene	0.0400	0.0353		mg/L		88	70 - 133
Chrysene	0.0400	0.0314		mg/L		78	68 - 129
Dibenz(a,h)anthracene	0.0400	0.0368		mg/L		92	70 - 134
Fluoranthene	0.0400	0.0368		mg/L		92	68 - 126
Fluorene	0.0400	0.0333		mg/L		83	53 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.0375		mg/L		94	65 - 133
Naphthalene	0.0400	0.0258		mg/L		65	36 - 110
Phenanthrene	0.0400	0.0334		mg/L		83	65 - 120
Pyrene	0.0400	0.0311		mg/L		78	70 - 126
Carbazole	0.0400	0.0349		mg/L		87	61 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*74*		*34 - 110*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-810842/2-A
Matrix: Water
Analysis Batch: 810985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 810842

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*
Terphenyl-d14 (Surr)	*87*		*40 - 145*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-810562/1-A
Matrix: Water
Analysis Batch: 810733

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 810562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		03/20/25 08:02	03/20/25 16:49	1

Lab Sample ID: LCS 500-810562/2-A
Matrix: Water
Analysis Batch: 810733

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 810562

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Thallium			0.100	0.104		mg/L		104	80 - 120		

Lab Sample ID: 500-265488-2 MS
Matrix: Water
Analysis Batch: 810733

Client Sample ID: MW-314
Prep Type: Total Recoverable
Prep Batch: 810562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Thallium	<0.0020		0.100	0.101		mg/L		101	75 - 125		

Lab Sample ID: 500-265488-2 MSD
Matrix: Water
Analysis Batch: 810733

Client Sample ID: MW-314
Prep Type: Total Recoverable
Prep Batch: 810562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	<0.0020		0.100	0.103		mg/L		103	75 - 125	2	20

Lab Sample ID: 500-265488-2 DU
Matrix: Water
Analysis Batch: 810733

Client Sample ID: MW-314
Prep Type: Total Recoverable
Prep Batch: 810562

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Thallium	<0.0020			<0.0020		mg/L				NC	20

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-316
Lab Sample ID: 500-265488-1
Date Collected: 03/17/25 07:57
Matrix: Water
Date Received: 03/19/25 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3510C			810666	LG	EET CHI	03/20/25 14:55
Dissolved	Analysis	8270E		1	810828	H7CM	EET CHI	03/21/25 16:48
Total/NA	Prep	3510C			810690	LG	EET CHI	03/20/25 16:39
Total/NA	Analysis	8270E		1	810828	H7CM	EET CHI	03/21/25 21:24

Client Sample ID: MW-314
Lab Sample ID: 500-265488-2
Date Collected: 03/17/25 09:48
Matrix: Water
Date Received: 03/19/25 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			810562	BDE	EET CHI	03/20/25 08:02 - 03/20/25 14:02 [1]
Dissolved	Analysis	6020B		1	810733	RN	EET CHI	03/20/25 17:19
Total Recoverable	Prep	3005A			810562	BDE	EET CHI	03/20/25 08:02 - 03/20/25 14:02 [1]
Total Recoverable	Analysis	6020B		1	810733	RN	EET CHI	03/20/25 16:54

Client Sample ID: MW-101
Lab Sample ID: 500-265488-3
Date Collected: 03/17/25 13:35
Matrix: Water
Date Received: 03/19/25 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			810562	BDE	EET CHI	03/20/25 08:02 - 03/20/25 14:02 [1]
Dissolved	Analysis	6020B		1	810733	RN	EET CHI	03/20/25 17:22
Total Recoverable	Prep	3005A			810562	BDE	EET CHI	03/20/25 08:02 - 03/20/25 14:02 [1]
Total Recoverable	Analysis	6020B		1	810733	RN	EET CHI	03/20/25 17:07

Client Sample ID: MW-315
Lab Sample ID: 500-265488-4
Date Collected: 03/17/25 11:03
Matrix: Water
Date Received: 03/19/25 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3510C			810666	LG	EET CHI	03/20/25 14:55
Dissolved	Analysis	8270E		1	810828	H7CM	EET CHI	03/21/25 17:13
Total/NA	Prep	3510C			810842	LH	EET CHI	03/21/25 14:00
Total/NA	Analysis	8270E		1	810985	W1T	EET CHI	03/24/25 15:21
Dissolved	Prep	3005A			810562	BDE	EET CHI	03/20/25 08:02 - 03/20/25 14:02 [1]
Dissolved	Analysis	6020B		1	810733	RN	EET CHI	03/20/25 17:24
Total Recoverable	Prep	3005A			810562	BDE	EET CHI	03/20/25 08:02 - 03/20/25 14:02 [1]
Total Recoverable	Analysis	6020B		1	810733	RN	EET CHI	03/20/25 17:10

Client Sample ID: MW-106
Lab Sample ID: 500-265488-5
Date Collected: 03/18/25 13:40
Matrix: Water
Date Received: 03/19/25 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			810562	BDE	EET CHI	03/20/25 08:02 - 03/20/25 14:02 [1]
Dissolved	Analysis	6020B		1	810733	RN	EET CHI	03/20/25 17:27

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Client Sample ID: MW-106
Lab Sample ID: 500-265488-5
Date Collected: 03/18/25 13:40
Matrix: Water
Date Received: 03/19/25 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			810562	BDE	EET CHI	03/20/25 08:02 - 03/20/25 14:02 [1]
Total Recoverable	Analysis	6020B		1	810733	RN	EET CHI	03/20/25 17:12

Client Sample ID: MW-202
Lab Sample ID: 500-265488-6
Date Collected: 03/18/25 10:58
Matrix: Water
Date Received: 03/19/25 16:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			810690	LG	EET CHI	03/20/25 16:39
Total/NA	Analysis	8270E		20	810984	H7CM	EET CHI	03/24/25 23:17

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-265488-1
Project/Site: 8080 District (24-0124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-22-25

Chain of Custody Record 734265

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Jake Hartsch	Site Contact:	Date:
Company Name: PIONEER	Tel/Email:	Lab Contact:	Carrier:
Address	Analysis Turnaround Time		COC No 1 of 1 COCs
City/State/Zip	☐ CALENDAR DAYS ☐ WORKING DAYS		Sampler
Phone	TAT if different from Below		For Lab Use Only.
Fax	☐ 2 weeks		Walk-in Client
Project Name: 8080 S LAKE SHORE DR	☐ 1 week		Lab Sampling
Site	☐ 2 days		Job / SDG No
P O # 24-0124-103	☐ 1 day		500-265488

STAND

500-265488 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	THALLIUM TOTAL	DISSOLVED THALLIUM	NAPHTHALENE TOTAL	DISSOLVED NAPHTHALENE	SVOCS	DISSOLVED SVOCS	DNAS	DISSOLVED DNAS	Sample Specific Notes
1	MW-316	3/17/25	757	G	GW	4							X	X	X	X	
2	MW-314	↓	948	↓	↓	2			X	X							
3	MW-101	↓	135	↓	↓	2			X	X							
4	MW-315	↓	1103	↓	↓	6			X	X					X	X	
5	MW-106	3/18/25	140	↓	↓	2			X	X							
6	MW-202	↓	1058	↓	↓	2					X	X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: * All samples have been field filtered for dissolved tests *

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd 0.7 Corr'd 0.4 | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	PIONEER	3/19/25	Isaiah Medley	EETA	3/19/25 1440
Isaiah Medley	EETA	3/19/25 1614			
			Received in Laboratory by [signature]	EETA	3/19/25 1614

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-265488-1

Login Number: 265488
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Jake Hartsock
Pioneer Engineering & Environmental Srvc
2753 W 31st Street
Chicago, Illinois 60608
Generated 7/2/2025 6:00:00 PM

JOB DESCRIPTION

8080 S Lakeshore Dr (24-124-103)

JOB NUMBER

500-270760-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
7/2/2025 6:00:00 PM

Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job ID: 500-270760-1 — Eurofins Chicago

Job Narrative
500-270760-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/27/2025 11:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-823992 was outside the method criteria for the following analyte(s): 1,2-Dichloroethane-d4 (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-124-103)

Job ID: 500-270760-1

Client Sample ID: MW-202 — Lab Sample ID: 500-270760-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.053		0.00050		mg/L	1		8260D	Total/NA
Carbazole	0.11		0.0045		mg/L	1		8270E	Total/NA
Naphthalene - DL	0.94		0.018		mg/L	20		8270E	Total/NA

Client Sample ID: MW-202F — Lab Sample ID: 500-270760-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-270760-1
Project/Site: 8080 S Lakeshore Dr (24-124-103)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-270760-1
Project/Site: 8080 S Lakeshore Dr (24-124-103)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-270760-1	MW-202	Water	06/26/25 11:36	06/27/25 11:01
500-270760-2	MW-202F	Water	06/26/25 11:45	06/27/25 11:01

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-124-103)

Job ID: 500-270760-1

Client Sample ID: MW-202
Date Collected: 06/26/25 11:36
Date Received: 06/27/25 11:01

Lab Sample ID: 500-270760-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.053		0.00050		mg/L			07/01/25 11:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*75*		*75 - 126*		*07/01/25 11:34*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*07/01/25 11:34*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*07/01/25 11:34*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*07/01/25 11:34*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	0.11		0.0045		mg/L		06/30/25 07:34	07/01/25 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*98*		*34 - 110*	*06/30/25 07:34*	*07/01/25 22:07*	*1*
Nitrobenzene-d5 (Surr)	*98*		*36 - 120*	*06/30/25 07:34*	*07/01/25 22:07*	*1*
Terphenyl-d14 (Surr)	*136*		*40 - 145*	*06/30/25 07:34*	*07/01/25 22:07*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.94		0.018		mg/L		06/30/25 07:34	07/02/25 15:05	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*34 - 110*	*06/30/25 07:34*	*07/02/25 15:05*	*20*
Nitrobenzene-d5 (Surr)	*84*		*36 - 120*	*06/30/25 07:34*	*07/02/25 15:05*	*20*
Terphenyl-d14 (Surr)	*102*		*40 - 145*	*06/30/25 07:34*	*07/02/25 15:05*	*20*

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-124-103)

Job ID: 500-270760-1

Client Sample ID: MW-202F
Date Collected: 06/26/25 11:45
Date Received: 06/27/25 11:01

Lab Sample ID: 500-270760-2
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	<0.0041		0.0041		mg/L		06/30/25 07:34	07/01/25 22:32	1
Naphthalene	<0.00081		0.00081		mg/L		06/30/25 07:34	07/01/25 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*98*		*34 - 110*	*06/30/25 07:34*	*07/01/25 22:32*	*1*
Nitrobenzene-d5 (Surr)	*103*		*36 - 120*	*06/30/25 07:34*	*07/01/25 22:32*	*1*
Terphenyl-d14 (Surr)	*123*		*40 - 145*	*06/30/25 07:34*	*07/01/25 22:32*	*1*

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-124-103)

Job ID: 500-270760-1

GC/MS VOA

Analysis Batch: 823992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-270760-1	MW-202	Total/NA	Water	8260D	
MB 500-823992/7	Method Blank	Total/NA	Water	8260D	
LCS 500-823992/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 500-823992/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 823821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-270760-1	MW-202	Total/NA	Water	3510C	
500-270760-1 - DL	MW-202	Total/NA	Water	3510C	
500-270760-2	MW-202F	Dissolved	Water	3510C	
MB 500-823821/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-823821/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-823821/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 823960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-823821/1-A	Method Blank	Total/NA	Water	8270E	823821
LCS 500-823821/2-A	Lab Control Sample	Total/NA	Water	8270E	823821
LCSD 500-823821/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	823821

Analysis Batch: 824014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-270760-1	MW-202	Total/NA	Water	8270E	823821
500-270760-2	MW-202F	Dissolved	Water	8270E	823821

Analysis Batch: 824206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-270760-1 - DL	MW-202	Total/NA	Water	8270E	823821

Surrogate Summary

Client: Pioneer Engineering & Environmental Srvc
Project/Site: 8080 S Lakeshore Dr (24-124-103)

Job ID: 500-270760-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-270760-1	MW-202	75	103	91	106
LCS 500-823992/4	Lab Control Sample	75	102	90	106
LCSD 500-823992/5	Lab Control Sample Dup	75	100	93	107
MB 500-823992/7	Method Blank	76	104	89	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(34-110)	(36-120)	(40-145)
500-270760-1	MW-202	98	98	136
500-270760-1 - DL	MW-202	90	84	102
LCS 500-823821/2-A	Lab Control Sample	108	114	128
LCSD 500-823821/3-A	Lab Control Sample Dup	91	97	114
MB 500-823821/1-A	Method Blank	86	95	110

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(34-110)	(36-120)	(40-145)
500-270760-2	MW-202F	98	103	123

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-823992/7
Matrix: Water
Analysis Batch: 823992

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			07/01/25 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*76*		*75 - 126*		*07/01/25 11:10*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*07/01/25 11:10*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*07/01/25 11:10*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*07/01/25 11:10*	*1*

Lab Sample ID: LCS 500-823992/4
Matrix: Water
Analysis Batch: 823992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.0543		mg/L		109	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*75*		*75 - 126*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*
Dibromofluoromethane	*90*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Lab Sample ID: LCSD 500-823992/5
Matrix: Water
Analysis Batch: 823992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.0510		mg/L		102	70 - 120	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*75*		*75 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*
Dibromofluoromethane	*93*		*75 - 120*
Toluene-d8 (Surr)	*107*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-823821/1-A
Matrix: Water
Analysis Batch: 823960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 823821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.00080		0.00080		mg/L		06/30/25 07:34	07/01/25 05:49	1
Carbazole	<0.0040		0.0040		mg/L		06/30/25 07:34	07/01/25 05:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*34 - 110*	*06/30/25 07:34*	*07/01/25 05:49*	*1*
Nitrobenzene-d5 (Surr)	*95*		*36 - 120*	*06/30/25 07:34*	*07/01/25 05:49*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-823821/1-A
Matrix: Water
Analysis Batch: 823960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 823821

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	110		40 - 145	06/30/25 07:34	07/01/25 05:49	1

Lab Sample ID: LCS 500-823821/2-A
Matrix: Water
Analysis Batch: 823960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823821

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Naphthalene			0.0400	0.0346		mg/L		86	36 - 110		
Carbazole			0.0400	0.0447		mg/L		112	61 - 145		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	108		34 - 110
Nitrobenzene-d5 (Surr)	114		36 - 120
Terphenyl-d14 (Surr)	128		40 - 145

Lab Sample ID: LCSD 500-823821/3-A
Matrix: Water
Analysis Batch: 823960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 823821

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			0.0400	0.0327		mg/L		82	36 - 110	5	20
Carbazole			0.0400	0.0404		mg/L		101	61 - 145	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	91		34 - 110
Nitrobenzene-d5 (Surr)	97		36 - 120
Terphenyl-d14 (Surr)	114		40 - 145

Lab Chronicle

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-270760-1
Project/Site: 8080 S Lakeshore Dr (24-124-103)

Client Sample ID: MW-202
Lab Sample ID: 500-270760-1

Date Collected: 06/26/25 11:36
Matrix: Water
Date Received: 06/27/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	823992	MM	EET CHI	07/01/25 11:34
Total/NA	Prep	3510C			823821	CI	EET CHI	06/30/25 07:34
Total/NA	Analysis	8270E		1	824014	H7CM	EET CHI	07/01/25 22:07
Total/NA	Prep	3510C	DL		823821	CI	EET CHI	06/30/25 07:34
Total/NA	Analysis	8270E	DL	20	824206	BA	EET CHI	07/02/25 15:05

Client Sample ID: MW-202F
Lab Sample ID: 500-270760-2

Date Collected: 06/26/25 11:45
Matrix: Water
Date Received: 06/27/25 11:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3510C			823821	CI	EET CHI	06/30/25 07:34
Dissolved	Analysis	8270E		1	824014	H7CM	EET CHI	07/01/25 22:32

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: Pioneer Engineering & Environmental Srvc
Job ID: 500-270760-1
Project/Site: 8080 S Lakeshore Dr (24-124-103)

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-26

Chain of Custody Record 435290

eurofins | Environment Testing TestAmerica

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact		Project Manager: Jake Hartsock	Site Contact	Date	COC No 1
Company Name	Pioneer	Tel/Email jhartsock@pioneereescom	Lab Contact:	Carrier:	1 of 2 COCs
Address	2753 W. 31st St.	Analysis Turnaround Time			Sampler
City/State/Zip	Chicago, IL, 60608	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone		TAT if different from Below 3 day			Walk-in Client
Fax		☐ 2 weeks			Lab Sampling
Project Name	8050 S Lakeshore Dr.	☐ 1 week			
Site		☐ 2 days			Job / SDG No
PO#	24-0-124-103	☐ 1 day			500-270760

500-270760 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Benzene	Naphthalene	Total Carbazole	Dissolved Naphthalene	Dissolved Carbazole	Total Naphthalene	Sample Specific Notes
1	MW-202	6/26/25	11:36am	G	S	5			X	X	X			X	
2	MW-202F	↓	11:45am	↓	↓	2						X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

15 → 0.9 48qt

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Pioneer	6/27/25	[signature]	EETA	6/27/25 0915
[signature]	EETA 6/27/25	1101			
			Received in Laboratory by: Angel Knox	EETA	06/27/25 1101

Login Sample Receipt Checklist

Client: Pioneer Engineering & Environmental Srvc

Job Number: 500-270760-1

Login Number: 270760

List Source: Eurofins Chicago

List Number: 1

Creator: Knox, Angel

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

sterling labs - O'Hare Location

509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

March 25, 2025

Pioneer Engineering & Environmental Services, Inc.
2753 W. 31st St.
Chicago, IL 60608

Telephone: 773.797.2053
Fax:

Analytical Report for Work Order: O25C0901 Revision 0

RE: 24-0124-103, 8080 S. Lake Shore Drive

Dear Pioneer Engineering & Environmental Services, Inc.:

Sterling Labs has received 1 sample for the referenced project on March 20, 2025 15:45. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Pat 186 / TNI standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (847) 967-6666.

Sincerely,

Melissa Dunham

Melissa Dunham
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. Sterling Labs is not responsible for customer provided information found in the report that is used to calculate final results. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, Sterling Labs will be under no obligation to support, defend or dicuss the analytical report

sterling labs - O'Hare Location

509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

Customer: Pioneer Engineering & Environmental Services, Inc.

Proiect: 24-0124-103, 8080 S. Lake Shore Drive

WorkOrder: O25C0901

Work Order Sample Summary

Laboratory ID	Sample ID	Tag Number	Collection Date	Date Received
O25C0901-01	SG-2		03/19/25 10:07	03/20/25 15:45

sterling labs - O'Hare Location
509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

Customer: Pioneer Engineering & Environmental Services, Inc.

Project: 24-0124-103, 8080 S. Lake Shore Drive

Case Narrative

WorkOrder: O25C0901

Work Order: O25C0901
The samples were received on 3/20/2025 3:45:00 PM. The temperature of the cooler(s) at receipt was:

Cooler:	**Temp C**
Default Cooler	

The samples were received in good condition and were properly preserved.

sterling labs - O'Hare Location
509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

Date Reported: 3/25/2025
Date Printed: 3/25/2025

Analytical Results

Customer: Pioneer Engineering & Environmental Services, Inc.
Work Order: O25C0901
Project: 24-0124-103, 8080 S. Lake Shore Drive

Client Sample ID: SG-2
Collection Date: 03/19/2025 10:07
Matrix: Air

Lab ID: O25C0901-01

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Volatile Organic Compounds by GC/MS **TO-15 / TO-15 Prep**					Prep Date:		**03/21/25 06:00**	Analyst: **KV1**	
ILEPA 100256									
Naphthalene	ND	0.0755	0.0412		mg/m3	2	03/21/2025	B25C1289	S25C0773

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated method blank
HT - Sample received past holding time
J1 - Estimated result based on MS/MSD results
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
P - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded
Q - Quality control issue. Please see case narrative

sterling labs
509 N. 3rd Ave., Des Plaines, IL 60016
2242 W. Harrison St., Suite 200, Chica
info@thesterlinglab.com

O25C0901
PM Melissa Dunham
Pioneer Engineering & Environmental Se

CHAIN OF CUSTODY RECORD

No: 104385 Page : 1 of 1

Company: Pioneer
Project Number: 24-0124-103
Project Name: 8080 S. Lake Shore Drive
Project Location:
Sampler(s): J. David
Report To: Jake Hartsock Phone:
Fax:
QC Level: 1 ___ 2 ___ 3 ___ 4 ___ e-mail: jhartsock@pioneereas.ca

P.O. No.:
Quote No.:
Turn Around Time (Days): 1 2 3 4 5-7 10
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Naphthalene	Remarks	Lab No.:
SG-2	3/19/25	10:04am	Silegas		X		1	X	Can# 11121	01A

Relinquished by: (Signature)	Date/Time: 3/20/25	
Received by: (Signature)	Date/Time: 3.20.25	11:15
Relinquished by: (Signature)	Date/Time: 3.20.25	15:45
Received by: (Signature)	Date/Time: 3.20.25	15:45
Relinquished by: (Signature)	Date/Time:	
Received by: (Signature)	Date/Time:	

Comments:
start pres. : 27
end pres. : 0
end time : 10:24am

Preservation Code: A = None B = HNO_3 C = NaOH D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: O25C0901

Received on Ice: Yes ☑ No ☐
Temperature: ___ °C

Sample Receipt Checklist

Work Order: O25C0901

Printed: 3/20/2025 6:55:29PM

Client: Pioneer Engineering & Environmental Ser
Project: Pioneer General Analysis

Date Due: Friday, March 28, 2025

Received By: Lucas Demari
Logged In By: Lucas Demari

Date Received: 3/20/2025 3:45:00PM
Date Logged In: 3/20/2025 6:45:00PM

Cooler Name: Default Cooler

How were samples received: Courier

Cooler temperature at of below 6 degrees Celsius: No

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: Yes

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: No

Volatile water vials received: No

Sample Receipt Comments
Work Order: O25C0901
The samples were received on 3/20/2025 3:45:00 PM. The temperature of the cooler(s) at receipt was:

Cooler:	**Temp C**
Default Cooler	

The samples were received in good condition and were properly preserved.

Samples going out of hold time within 24 hours:

Reviewed By: LD

Date: 3/20/25

sterling labs - O'Hare Location

509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

March 28, 2025

Pioneer Engineering & Environmental Services, Inc.
2753 W. 31st St.
Chicago, IL 60608

Telephone: 773.797.2053
Fax:

Analytical Report for Work Order: O25C1021 Revision 0

RE: 24-0124-103, 8080 S. Lake Shore Drive

Dear Pioneer Engineering & Environmental Services, Inc.:

Sterling Labs has received 1 sample for the referenced project on March 24, 2025 11:35. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Pat 186 / TNI standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (847) 967-6666.

Sincerely,

Melissa Dunham

Melissa Dunham
Project Manager

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sterling labs - O'Hare Location

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Customer: Pioneer Engineering & Environmental Services, Inc.

Proiect: 24-0124-103, 8080 S. Lake Shore Drive

WorkOrder: O25C1021

Work Order Sample Summary

Laboratory ID	Sample ID	Tag Number	Collection Date	Date Received
O25C1021-01	SG-3		03/20/25 13:22	03/24/25 11:35

sterling labs - O'Hare Location
509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

Customer: Pioneer Engineering & Environmental Services, Inc.

Project: 24-0124-103, 8080 S. Lake Shore Drive

Case Narrative

WorkOrder: O25C1021

Work Order: O25C1021
The samples were received on 3/24/2025 11:35:00 AM. The samples arrived in good condition and properly preserved.

sterling labs - O'Hare Location
509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

Date Reported: 3/28/2025
Date Printed: 3/28/2025

Analytical Results

Customer: Pioneer Engineering & Environmental Services, Inc.
Work Order: O25C1021
Project: 24-0124-103, 8080 S. Lake Shore Drive

Client Sample ID: SG-3
Collection Date: 03/20/2025 13:22
Matrix: Air

Lab ID: O25C1021-01

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Volatile Organic Compounds by GC/MS **TO-15 / TO-15 Prep**					Prep Date:		**03/25/25 06:00**	Analyst: **KV1**	
ILEPA 100256									
Vinyl chloride	ND	0.00145	0.000411		mg/m3	2	03/25/2025	B25C1443	S25C0860

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated method blank
HT - Sample received past holding time
J1 - Estimated result based on MS/MSD results
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
P - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded
Q - Quality control issue. Please see case narrative

sterling labs
509 N. 3rd Ave., Des Plaines, IL 60016 Phone: (800) 246-0663
2242 W. Harrison St., Suite 200, Chicago, IL 60612 Phone: (312) 733-0551
info@thesterlinglab.com

CHAIN OF CUSTODY RECORD

025C1021

Company: Pioneer
Project Number: 24-0124-03 Client Tracking No.:
Project Name: 8080 S. Lake Shore Drive
Project Location:
Sampler(s): J. David
Report To: Jake Hartsock Phone:
Fax:
e-mail: jhartsock@pioneeres.com
QC Level: 1 2 3 4

P.O. No.:
Quote No.:
Turn Around Time (Days): 1 2 3 4 5-7 10
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	X Vinyl Chloride	Remarks	Lab No.:
SG-3	3/20/25	1:27pm	Soil gas		X		1	X	Can # 11087	01A

Relinquished by: (Signature)		Date/Time: 3/21/25
Received by: (Signature)		Date/Time: 3.24.25 10:45
Relinquished by: (Signature)		Date/Time: 3-24-25 11:35
Received by: (Signature)		Date/Time: 3-24-25 1135
Relinquished by: (Signature)		Date/Time:
Received by: (Signature)		Date/Time:

Comments:
start pres: 30
end pres: 0
end time = 1:49pm

Preservation Code: A = None B = HNO_3 C = NaOH D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: 025C1021

Received on Ice: Yes ☐ No ☐
Temperature: °C

Sample Receipt Checklist

Work Order: O25C1021

Printed: 3/25/2025 10:01:48AM

Client: Pioneer Engineering & Environmental Ser
Project: Pioneer General Analysis

Date Due: Monday, March 31, 2025

Received By: Aana K. Patel
Logged In By: Aana K. Patel

Date Received: 3/24/2025 11:35:00AM
Date Logged In: 3/25/2025 10:01:00AM

Cooler Name: Default Cooler

How were samples received: Courier

Cooler temperature at of below 6 degrees Celsius: NA

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: Yes

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: No

Volatile water vials received: No

Sample Receipt Comments

Work Order: O25C1021

The samples were received on 3/24/2025 11:35:00 AM. The samples arrived in good condition and properly preserved.

Samples going out of hold time within 24 hours:

Reviewed By: _____ Date: 03-25-25

PIONEER

Engineering & Environmental Services, LLC

2753 West 31st Street | Chicago, IL 60608 | phone: 773.722.9200 | fax: 773.722.9201 | pioneerees.com